Technical Indicator Descriptions extracted for all Tier 1 and 2 indicators

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1.1 EE1.1

	Tech	nnical in	dicator o	descrip	otion she	eet	
			T				
		A2 Alignment	Improved access to electricity Outcome		principles of the C	er to understand whether the Constitution are being fufilled of	
A1 Indicator short name	Percentage of households with access to	A3 Results-		A7 Rationale	providing social equity and development in terms of access to a basic electricity service; meeting Sustainable Development Goals; and identifying the percentage of households enabled through the benefits of a regular energy source.		
	electricity	chain level		A8 Definition			nat have access to ne municipal area.
INDICATOR ASSIGNMENT	EE1.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	electricity / (2)		having access to per of households area) *100
A5 Unit of measurement	Percentage of households	A6 Frequency of reporting	Annual	A10 Indicator origin	United Nations Sustainable Development Goal SDG 7.11 Proportion of population with access to electricity Similar to ISO 37120 Energy indicator 7.2		
A11 Notes on calculation	of delays between collection and discemination of the			A12 Additional notes	This will only look at those having access to electricity in the conventional sense. In the future, this may be expanded to look at other forms of access (access to off-grid, access to other forms of energy, etc).		
Repor		Арр	lies to Munic	ipal Cate	gory	R	eadiness
Natio	onal	Me	etro	Yes Tier		Tier 1	
B1 Data Element	(1) Number of households having access to electricity	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Total number of households in the municipality	C4 Source	StatsSA General Household Survey
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequency of collection	Annual	C5 Units	Number of households
B3 Definition	Definition This is the total number of households that have access to electricity			C3 Definition	types - formal, ir	nformal, and	households (of all I traditional) within i jurisdiction
B6 Notes	-			C6 Notes	the survey iten Statistics South Af	n used to ol rica to avoid	ood to be specific to otain the data by d issues arising from the survey.

1.2 EE1.11

A1 Indicator	Number of dwellings provided with connections to mains electricity supply by the municipality	lwellings ovided with enections to mains electricity oply by the	Improved access to electricity Output	A7 Rationale	provided with an ele they need to clear b do not have electric their responsibility indicator which me area will contribute	ectricity con backlogs of ecity connect (as opposedasures the	all new dwelings are nection. Additionally, existing dwellings that ions which fall under d to Eskom's). This city's progress in this coess to electricity for lity.	
				A8 Definition	The number of new residential electricity connection to dwellings provided by the municipality			
INDICATOR ASSIGNMENT	EE1.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Count of residential supply points commissions and energised by the municipality		points commissioned municipality	
A5 Unit of measurement	Number of connections	A6 Frequency of reporting	Quarterly	A10 Indicator origin	B2B framework			
A11 Notes on calculation	This should be a	ı year-to-date figure financial year.	for the respective	A12 Additional notes	Dwellings include all types and is not limited to those connected by INEP grants. New property developments that require electricity connections for residential units will also be counted. Informal developments will also be counted. New areas previously handled by Eskom should not be counted as new connections, unless the municipality puts in new supply points. The municipality should have some way of differentiating between these "new" customers and actual new connections.			
-	orting Isibility	Арі	plies to Munic	ipal Cate	jory	R	eadiness	
Me	etro	Me	tro	Yes			Tier 1	
B1 Data Element	(1) Residential supply points energised and commissioned by the municipality	B4 Source	Municipal Customer & Billing Database	C1 Data Element	٠	C4 Source	-	
B2 Frequency of collection	Quarterly	B5 Units	Number of electricity connections	C2 Frequency of collection	-	C5 Units	-	
B3 Definition		dwellings that are ner tricity supply by the r		C3 Definition		-		
B6 Notes		None		C6 Notes				

1.3 EE3.1

	Tec	hnical in	dicator o	descrip	otion sheet
A1 Indicator short name	System Average Interruption	A2 Alignment	Improved reliability of electricity service	A7 Rationale	Reliability is a key pillar of service delivery. Interruptions result in: revenue loss to the utility; cost of unserved energy which in turn has an impact

	Duration Index				Minimising the ave system is in the	rage interru	ustomer satisfaction. Iption duration of the nd service delivery nicipality.
		A3 Results- chain level	Outcome	A8 Definition	perspective of how	long the av	from the system rerage customer went ly in minutes.
INDICATOR ASSIGNMENT	EE3.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	incident x logge affected by sustaine	d * (2) Nun	e for customers per nber of customers terruption) / (3) Total customers
A5 Unit of measurement	Average interruption minutes	A6 Frequency of reporting	Annual	A10 Indicator origin	and similar to IS	O 37120 Er	on Reliability Indices nergy indicator 7.7 cerruptions (in hours)
A11 Notes on calculation		tor, i.e. the figure re ld be for the financia		A12 Additional notes	Only sustained interruptions should be included in this indicator. IEEE defines a sustained interruption as any interruption lasting one minute or more in duration. All municipalities may not have SCADA systems in place for their MV network; they should work towards getting these systems in place. Until such systems are in place, workarounds may need to be utilised (track from when the customer calls in a fault for example). All municipalities should have customer network link diagrams in place. Where this is not the case, the municipality should ensure that these are put in place as this is very important information.		
Repo	etina						
respon		Арј	plies to Munic	ipal Cate	gory Readiness		
Metro		Me	etro	Yes Tier 2			Tier 2
Me	tio	1-10			105	l .	
B1 Data Element	(1) Restoration time for customers per incident x logged	B4 Source	Municipal systems (perhaps work management system)	C1 Data Element	(2) Number of customers affected by sustained supply interruption incident x	C4 Source	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link)
B1 Data	(1) Restoration time for customers per incident x		Municipal systems (perhaps work management	C1 Data	(2) Number of customers affected by sustained supply interruption	_	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network
B1 Data Element	(1) Restoration time for customers per incident x logged Annual The time it take customer who su	B4 Source	Municipal systems (perhaps work management system) Minutes y supply to every sruption incident x	C1 Data Element C2 Frequency of	(2) Number of customers affected by sustained supply interruption incident x Annual	C5 Units	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of
B1 Data Element B2 Frequency of collection	(1) Restoration time for customers per incident x logged Annual The time it take customer who su from	B4 Source B5 Units s to restore electricit ffered a sustained di	Municipal systems (perhaps work management system) Minutes y supply to every sruption incident x logged d Maintenace or	C1 Data Element C2 Frequency of collection C3	(2) Number of customers affected by sustained supply interruption incident x Annual The number of cuinterruption in the function in the func	C5 Units stomers wheheir supply	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of customers
B1 Data Element B2 Frequency of collection B3 Definition	(1) Restoration time for customers per incident x logged Annual The time it take customer who su from	B4 Source B5 Units Is to restore electricit offered a sustained di the time it has been tricity Operations an	Municipal systems (perhaps work management system) Minutes y supply to every sruption incident x logged d Maintenace or e able to provide	C1 Data Element C2 Frequency of collection C3 Definition	(2) Number of customers affected by sustained supply interruption incident x Annual The number of cuinterruption in the function in the func	C5 Units stomers wheheir supply	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of customers no faced a sustained during incident x
B1 Data Element B2 Frequency of collection B3 Definition	(1) Restoration time for customers per incident x logged Annual The time it take customer who su from	B4 Source B5 Units Is to restore electricit offered a sustained di the time it has been tricity Operations an	Municipal systems (perhaps work management system) Minutes y supply to every sruption incident x logged d Maintenace or	C1 Data Element C2 Frequency of collection C3 Definition	(2) Number of customers affected by sustained supply interruption incident x Annual The number of cuinterruption in the function in the func	C5 Units stomers wheheir supply	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of customers no faced a sustained during incident x
B1 Data Element B2 Frequency of collection B3 Definition B6 Notes	(1) Restoration time for customers per incident x logged Annual The time it take customer who su from Municipal Electory Quality of Suppose (3) Total number of electricty	B4 Source B5 Units Is to restore electricit effered a sustained dithe time it has been extricity Operations and only Division should be	Municipal systems (perhaps work management system) Minutes y supply to every sruption incident x logged d Maintenace or e able to provide Municipal systems (perhaps work management	C1 Data Element C2 Frequency of collection C3 Definition C6 Notes	(2) Number of customers affected by sustained supply interruption incident x Annual The number of cuinterruption in the function in the func	C5 Units stomers whicheir supply y Operation ivision shou	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of customers no faced a sustained during incident x
B1 Data Element B2 Frequency of collection B3 Definition B6 Notes D1 Data Element D2 Frequency	(1) Restoration time for customers per incident x logged Annual The time it take customer who su from Municipal Elec Quality of Supple (3) Total number of electricty customers Annual	B4 Source B5 Units s to restore electricit ffered a sustained di the time it has been tricity Operations anoly Division should be	Municipal systems (perhaps work management system) Minutes Y supply to every sruption incident x logged d Maintenace or e able to provide Municipal systems (perhaps work management system) Number of customers that are registered electricity services	C1 Data Element C2 Frequency of collection C3 Definition C6 Notes E1 Data Element E2 Frequency of	(2) Number of customers affected by sustained supply interruption incident x Annual The number of cuinterruption in the function in the func	C5 Units stomers whetheir supply y Operation ivision shou	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link) Number of customers no faced a sustained during incident x

B6 Notes

Technical indicator description sheet Improved Once an unplanned outage has occurred, the **A2 Alignment** reliability of municipality should strive to restore power to the electricity service affected groups as soon as possible. Quick turn around Α7 Percentage of unplanned implies greater reliability of the municipal electricity Rationale service. This indicator is a distribution of MTTR (Mean outages that Time to Restore), which is the average time it takes to are restored to supply within industry A1 Indicator restore supply once an interruption takes place. short name A3 Results-Output The proportion of MTTRs that are within industry chain level standard standards where MTTR is the average time it takes to timeframes **A8** restore unplanned outages. The following five **Definition** categories of restoration time are applied as industry standards NSR 047: X=1.5, 3.5, 7.5, 24 and 168 ((1) Number of unplanned outages restored within x Α9 **INDICATOR** A4 Back to hours / (2) Total number of unplanned outages) x 100, EE3.11 Indicator Service delivery ASSIGNMENT **Basics** pillar where x is based on industry standards (x=1.5, 3.5, **Formula** 7.5, 24 and 168) and as per NRS 047. A10 A5 Unit of IEEE Electric Power Distribution Reliability Indices: Percentage of **A6 Frequency** Quarterly Indicator measurement outages of reporting MTTR origin Originally, this indicator was set using the parameters determined by Eskom (x = 0.5, 1.5, 3.5, 24 or less). Municipal feedback has since shifted this to the following NSR 047 standards where x=1.5, 3.5, 7.5, 24and 168 or less. A12 There may be some discrepancies between A11 Notes on Cumulative indicator, i.e. the reported figure in a given **Additional** municipalities as some municipalities do not have calculation quarter should be a year-to-date figure for the financial year. automated systems. Thus their turn around timeframes notes will begin from the time the customer reported an outage. However, we should start with what is available for now and work towards uniformity. The 0.5 hr mark will only be possible to report in municipalities where SCADA systems are in place. Reporting **Applies to Municipal Category** Readiness responsibility Tier 1 Metro Metro Yes (1) Number of Municipal works Municipal work (2) Total number **B1** Data C1 Data C4 unplanned order systems or management **B4 Source** of unplanned outages restored Source **Element** systems (work **Element** planned maintenance outages within x hours order systems) plans C2 Number of **B2 Frequency** Number of Frequency **C5** unplanned outages Quarterly **B5** Units Quarterly of collection outages Units logged on the collection system Sum of all occurrences of unplanned outages that were **C3** Total number of unplanned outages logged on the **B3** Definition restored within x hours as per the category of outage **Definition** system

C6 Notes

Technical indicator description sheet Improved **A2 Alignment** reliability of electricity service Reliability is a key pillar of service delivery. Interruptions result in: revenue loss to the utility; cost of unserved energy which in turn has an impact on **A7** the economy; impact on customer satisfaction. Rationale Minimising the average interruption duration for the customer is in the financial and service delivery Customer interests of the municipality. Average Interruption A1 Indicator short name Duration A3 Results-Outcome **Index** chain level A measure of the average time to restore service for a Α8 customer who suffered a sustained interruption in **Definition** their supply in minutes. (Sum of (1) Restoration time for customers per Α9 incident x logged * (2) Number of customers affected **INDICATOR** A4 Back to Indicator EE3.2 Service delivery by a sustained supply interruption) / (3) Total number **ASSIGNMENT Basics** pillar **Formula** of customers affected by any supply interruption incident IEEE Electric Power Distribution Reliability Indices and Average A10 A5 Unit of **A6 Frequency** Indicator Annual similar to ISO 37120 Energy indicator 7.7 Average interruption measurement of reporting minutes origin length of electrical interruptions (in hours) Only sustained interruptions should be included in this indicator. IEEE defines a sustained interruption as any interruption lasting one minute or more in duration. All municipalities may not have SCADA systems in place for their MV network; they should work towards A12 A11 Notes on Cumulative indicator, i.e. the figure reported for the year getting these systems in place. Until such systems are **Additional** calculation should be for the financial year. in place, workarounds may need to be utilised (track notes from when the customer calls in a fault for example). All municipalities should have customer network link diagrams in place. Where this is not the case, the municipality should ensure that these are put in place as this is very important information. Reporting **Applies to Municipal Category** Readiness responsibility Yes Tier 2 Metro Metro Municipal systems (2) Number of (perhaps NEPS -(1) Restoration Municipal customers Network and time for systems (perhaps Equipment **B1** Data C1 Data affected by C4 customers per **B4 Source** work Source sustained supply Element Element Performance incident x management System) and CNL interruption logged system) (Customer Network incident x link) C2 **B2 Frequency Frequency C5** Number of **B5** Units Minutes Annual Annual of collection Units customers collection

B3 Definition	customer who su	es to restore electricit iffered a sustained di the time it has been	C3 Definition			no faced a sustained during incident x	
B6 Notes		tricity Operations and ply division should be	C6 Notes			s and Maintenance or uld be able to provide	
D1 Data Element	(3) Total number of electricity customers affected by any sustained supply interruption incident	D4 Source	Municipal systems (perhaps NEPS - Network and Equipment Performance System) and CNL (Customer Network link)	E1 Data Element	-	E4 Source	-
D2 Frequency of collection	Annual	D5 Units	Number of customers	E2 Frequency of collection	-	E5 Units	-
D3 Definition	The number of customers who faced an interruption in their supply during any incident			E3 Definition		-	
D6 Notes		tricity Operations and ply division should be		E6 Notes		-	

	Tech	nical inc	dicator c	escrip	tion sheet	<u> </u>	
	Percentage of planned maintenance performed	A2 Alignment	Improved reliability of electricity service		Planned maintenance helps the utility to ensure that infrastructure is maintained and equipped to promote reliability and security of supply. Planned		
A1 Indicator short name		A3 Results- chain level	Output	A7 Rationale	maintenance that is of reduce the number of more cumbersome to reduce the total number the municipality, there	carried out a unplanned restore. I per of interr	as per plan should outages which are it should thus also uption minutes for
				A8 Definition	Actual planned/preven as a percentage of bu mainten		nned/preventative
INDICATOR ASSIGNMENT	EE3.21	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Actual number of maintenance hours for planned/preventative maintenance / (2) Budgeted number of maintenance hours for planned/preventative maintenance)*100		ce / (2) Budgeted hours for
A5 Unit of measurement	Percentage of planned/preventative maintenance hours	A6 Frequency of reporting	Quarterly	A10 Indicator origin	Similar to USDoE Industry O&M Indicators: Prevention Maintenance completion percentage		
A11 Notes on calculation		Year-to-date		A12 Additional notes	None		
	responsibility	Applies to Municipal Category Metro Yes		egory	Re	eadiness	
Metro		Me	etro		Yes		Tier 1
	letro	Me	etro		Yes		Tier 1
B1 Data Element	(1) Actual number of maintenance hours for planned/preventative maintenance	Me B4 Source	Municipal work order systems	C1 Data Element	(2) Budgeted number of maintenance hours for planned/preventative maintenance	C4 Source	Municipal work order systems or planned maintenance plans
	(1) Actual number of maintenance hours for planned/preventative		Municipal work		(2) Budgeted number of maintenance hours for planned/preventative	C4	Municipal work order systems or planned maintenance
Element B2 Frequency	(1) Actual number of maintenance hours for planned/preventative maintenance	B4 Source	Municipal work order systems Hours	C2 Frequency of	(2) Budgeted number of maintenance hours for planned/preventative maintenance	C4 Source C5 Units	Municipal work order systems or planned maintenance plans

B2 Frequency

of collection

Technical indicator description sheet Improved **A2 Alignment** reliability of electricity service Reliability is a key pillar of service delivery. Interruptions result in: revenue loss to the utility; cost of unserved energy which in turn has an impact **A7** on the economy; impact on customer satisfaction. Rationale Minimising the average interruption frequency for the system is in the financial and service delivery **System** interests of the municipality. Average Interruption A1 Indicator short name Frequency A3 Results-Outcome Index chain level Key measure from a systems perspective of how **A8** often the average customer experiences a sustained Definition interruption over a period of time in minutes. (Sum of (1) Number of customers interrupted by **INDICATOR** A4 Back to EE3.3 Service delivery **Indicator** sustained incident x) / (2) Total number of ASSIGNMENT **Basics pillar** Formula electricity customers IEEE Electric Power Distribution Reliability Indices A10 Average A5 Unit of **A6 Frequency** and similar to ISO 37120 Energy indicator 7.6 number of Indicator Annual of reporting Average number of electrical interruptions per interruptions origin customer per year Only sustained interruptions should be included in this indicator. IEEE defines a sustained interruption as any interruption lasting one minute or more in duration. All municipalities may not have SCADA systems in place for their MV network; they should work towards getting these systems in place. Until A12 A11 Notes on Cumulative indicator, i.e. the figure reported for the year Additional such systems are in place, workarounds may need should be for the financial year. calculation to be utilised (track from when the customer calls in notes a fault for example). All municipalities should have customer network link diagrams in place. Where this is not the case, the municipality should ensure that these are put in place as this is very important information. Reporting **Applies to Municipal Category** Readiness responsibility Metro Metro Yes Tier 2 Municipal (1) Number of systems (perhaps NEPS - Network electricity (2) Total number Municipal C1 Data **B1** Data customers and Equipment C4 **B4 Source** of electricty Customer & Billing affected by the **Element** Performance Element Source customers Database System) and CNL sustained incident x (Customer Network link) C2

Number of

customers

B5 Units

Annual

Frequency

of

collection

C5

Units

Annual

Number of

customers

B3 Definition	The number of customers who faced a sustained interruption in their supply during an incident x	C3 Definition	Total number of municipal customers that are registered on municipal database for receiving electricity services from the municipality
B6 Notes	Municipal Electricity Operations and Maintenace or Quality of Supply division should be able to provide	C6 Notes	Municipal Retail Services

Technical indicator description sheet Improved **A2 Alignment** reliability of electricity service Reliability is a key pillar of service delivery. Interruptions result in: revenue loss to the utility; cost of unserved energy which in turn has an impact on the economy; impact on customer **A7** satisfaction. Minimising the average interruption Rationale frequency for the customer is in the financial and service delivery interests of the municipality. This indicator is useful to identify chronological Customer Average trends in the reliability of the system **A1 Indicator** Interruption short name Frequency A3 Results-Outcome **Index** chain level **A8** The frequency of sustained interruptions for those Definition customers experiencing sustained interruptions **INDICATOR** Α9 (1) Total number of sustained supply interruption A4 Back to Indicator ASSIGNMEN EE3.4 Service delivery incidents that affected customers / (2) Total **Basics pillar** Formula number of distinct customers interrupted IEEE Electric Power Distribution Reliability Indices A5 Unit of Average A10 A6 Frequency and similar to ISO 37120 Energy indicator 7.6 measuremen number of Annual Indicator Average number of electrical interruptions per of reporting interruptions origin customer per year Only sustained interruptions should be included in this indicator. IEEE defines a sustained interruption as any interruption lasting one minute or more in duration. All municipalities may not have SCADA systems in place for their MV network; they should work towards getting these systems in place. Until A12 A11 Notes on Cumulative indicator, i.e. the figure reported for the year **Additional** such systems are in place, workarounds may need calculation should be for the financial year. notes to be utilised (track from when the customer calls in a fault for example). All municipalities should have customer network link diagrams in place. Where this is not the case, the municipality should ensure that these are put in place as this is very important information. Reporting **Applies to Municipal Category** Readiness responsibility Metro Metro Yes Tier 2 Municipal (1) Total Municipal systems systems number of (perhaps NEPS -(perhaps NEPS -(2) Total number sustained Network and Network and of distinct C4 **B1** Data supply C1 Data Equipment **B4 Source** electricity Sourc Equipment interruption Performance **Element Element** Performance customers incidents that System) and CNL System) and CNL interrupted affected (Customer Network (Customer customers link) Network link) C2 Number of **B2 Frequency** Frequenc **C5** Number of Annual **B5** Units sustained supply Annual Units of collection y of customers interruptions collection

B3 Definition	The number of times sustained supply interruptions took place in the municipality that had an impact on customers	C3 Definition	The number of customers who faced one or more sustained interruptions in their supply during an incident or incidents
B6 Notes	Municipal electricity Operations and Maintenace or Quality of Supply division should be able to provide	C6 Notes	Municipal electricity Operations and Maintenace or Quality of Supply division should be able to provide; Emphasis on distinct customers - thus if a customer faced two outages, he should still be counted only once.

1.9 EE4.12

1.9	4.12							
	Ted	chnical in	ndicator o	descrip	tion shee	et		
					_			
	To stall a d	A2 Alignment	Improved energy sustainability			encouraging SSEG (small scale		
A1 Indicator short name	Installed capacity of approved embedded generators on	A3 Results-	Output	A7 Rationale	embedded generation) among its customer sign that the municipality is evolving its b model as well as embracing the shift to clear energy.		volving its business	
	the municipal distribution network	chain level	Output	A8 Definition			G installations in the in mega-volt ampere	
INDICATOR ASSIGNMENT	EE4.12	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Sum of all SSEG installation capacities within municipal distribution network			
A5 Unit of measurement	Mega-volt ampere	A6 Frequency of reporting	Annual	A10 Indicator origin	Aligned to ISO 37120 Energy indicator 7.4 and SDG 7.2.1 and IAEA ECO 13			
A11 Notes on calculation	C	nce per municipal ye	ar.	A12 Additional notes	This will only include embedded generators located within the municipal distribution network			
					l			
	orting nsibility	Ар	plies to Munic	cipal Category Re			eadiness	
Me	etro	Metro		Yes		Tier 1		
B1 Data Element	(1) Sum of all SSEG installation capacities among municipal customer base	B4 Source	Municipal supplier database or energy trading databases	C1 Data Element	-	C4 Source	-	
B2 Frequency of collection	Annual	B5 Units	Mega-volt ampere	C2 Frequency of collection	-	C5 Units	-	
B3 Definition	The total capacity of the SSEG installations in the municipality in mega-volt ampere.			C3 Definition		-		
B6 Notes				C6 Notes		-		

	Technical indicator description sheet										
	Tec	illicai ii	idicator c	iescrip	ition snee	? L					
	Percentage	A2 Alignment	Improved energy sustainability	A7 Rationale	The purpose is to measure the percentage of potential revenue from Electricity Service through electricity units purchased and gener but not sold as a result of losses incurre through technical constraints, theft (illegal connections), non or inaccurate metering. I expected that implementation of the free basic sepolicy is included in the calculation for sale celectricity. Electricity losses have two components: technical						
A1 Indicator short name	total electricity losses	A3 Results- chain level	Outcome	A8 Definition	non-technical. Tec consist mainly of system compon- distribution lines, t systems. Non-techn external to the pow- electricity theft, f errors in accounting measure of unacc	conents: technical and soccur naturally and pation in electricity transmission and s, and measurement are caused by actions and consist primarily of courate meters, and keeping. Losses is a energy. Thus noned as losses.					
INDICATOR ASSIGNMENT	EE4.4	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1)Electricity Purchases in kWh) - ((2)Electricity sales in kWh)) / ((1)Electricity Purchases in kWh) x100						
A5 Unit of measurement	Percentage kWh	A6 Frequency of reporting	Annual	A10 Indicator origin	National Treasury - Section 71 reporting, first round BEPP indicators and similar to IAEA ECO 3: Efficiency of energy conversion and distribution						
A11 Notes on calculation	Calculated as at	the last day of the fin investigation	ancial year under	A12 Additional notes	The acceptable norm is between 7% and 10%						
	orting Isibility	Ар	plies to Munic	ipal Categ	jory	R	eadiness				
Me	etro	Me	tro		Yes		Tier 1				
		_									
B1 Data Element	(1) Electricity Purchases	B4 Source	Energy trading databases	C1 Data Element	(2) Electricity Sales	C4 Source	Customer care and billing databases				
B2 Frequency of collection	Annual	B5 Units	kWh	C2 Frequency of collection	Annual	C5 Units	kWh				
B3 Definition	Total electi	ricity sourced by the I	municipality	C3			municipality				
B6 Notes		-		C6 Notes	-						

2.1 ENV1.12

	Tec	chnical in	ndicator o	descrip	tion shee	et		
A1 Indicator	Percentage of AQ monitoring stations providing	A2 Alignment	Improved air quality	A7 Rationale	The presence of functional monitoria a municipal area is essential to pro on air quality throughout the mur presence of non-operational mon provides an indication of capacity monitor, a key municipality responsion of the provides are the monitoring stations may result in the being fairly represented in the capacity of the presented in the presented in the capacity of the presented in the presen		o provide information municipal area. The monitoring stations pacity to report and esponsibility. Faulty t in certain areas not	
adequate data over a	adequate data	A3 Results- chain level	Output	A8 Definition	The proportion of AQ monitoring stations which are sufficiently functional to provide an accurate indication of air quality over a full reporting year in the municipal area. This is currently defined as providing at least 80% of a full years' worth of anticipated data.			
INDICATOR ASSIGNMENT	ENV1.12	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1) Number of fully operational AQ monitoring stations / (2) Total AQ monitoring stations within metro) x 100			
A5 Unit of measurement	Percentage AQ stations	A6 Frequency of reporting	Annual	A10 Indicator origin	New, suggested by municipalities			
A11 Notes on calculation		None	A12 Additional notes	Agreement is needed from AQO's about definition of "fully operational" monitoring stations, but the intention is to ensure that the air quality in certain areas of the municipality are not underrepresented through data gaps or being completely absent. Additional input from municipalities is needed in terms of what level of data is required to provide a "complete" record of air quality from a particular monitoring station, with acceptable levels of downtime for necessary maintenance, over an annual reporting period.				
Reporting responsibility		0.0						
respor		Ар	plies to Munic	cipal Cated	jory	R	Readiness	
		-	etro	ipal Categ	yory Yes	R	Readiness Tier 2	
	nsibility	-		C1 Data Element	Yes (2) Total number of government owned (all spheres) monitoring stations within	C4 Source		
Me B1 Data	(1) Number of fully operational AQ monitoring	Me	Municipal Air	C1 Data	Yes (2) Total number of government owned (all spheres) monitoring	C4	Tier 2	
B1 Data Element	(1) Number of fully operational AQ monitoring stations Annual The number of gwhich provided eit information to significant data gap data gap is define	Me B4 Source	Municipal Air Quality Officer Number of AQ monitoring stations minimum quarterly ch there are no period. A significant % of missing data	C1 Data Element C2 Frequency of	Yes (2) Total number of government owned (all spheres) monitoring stations within municipal area Annual	C4 Source C5 Units	Tier 2 Municipal Air Quality Officer Number of AQ	

					While air pollution results in adverse environmental and
A1 Indicator short name	Number of days where PM2.5 levels exceeded guideline levels	A2 Alignment A3 Results- chain level	Improved air quality Outcome	A7 Rationale	health effects, PM10 and P2.5 (broadly referred to as particulate matter) are a specific source of concern for health reasons. By reducing air pollution levels, the burden of disease from stroke, heart disease, lung cancer, and both chronic and acute respiratory diseases, including asthma, can be reduced. Inhalable particles, or small particulates have been designated as a Group 1 carcinogen. There is a close, quantitive link between exposure to high concentrations of small particulates (both PM10 and PM2.5) and increased mortality or morbidity, both daily and over time. Small particulate pollution have health impacts even at very low concentrations. There are no established safe levels of exposure, so it is worth noting that the national standard is higher than the WHO and EU standard.
			A8 Definition	Number of days (per municipal financial year) where the levels of PM2.5 exceed the national standard, in excess of the permitted maximum of 4 exceedances per annual reporting period.	
INDICATOR ASSIGNMENT	ENV1.2	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	[(3) Count of the number of daily exceedances where (1) average daily concentrations of PM2,5 > (2) regulated standard for average daily concentrations of PM2.5] - 4; or 0 where the value is negative
A5 Unit of measurement	Number of days	A6 Frequency of reporting	Annual	A10 Indicator origin	New indicator, based on national AQ guidelines standards
A11 Notes on calculation	average levels of P over a 24-hour pe an average of mo sites per metro) ex should not be a	riod. The indicator app nitoring sites (assumin sceed the levels of PM a double-counting of d	eline national standard plies to each day were ng multiple monitoring 2.5 for that day. There	A12 Additional notes	Measurement of PM2.5 requires more sensitive measurement tools, which do not appear to be in use across all cities in SA yet. However, where there are measurement problems, it is possible to estimate PM2.5 levels from PM10 levels. The national standard was promulgated in Gazette 35463, in 2012. The annual guideline levels have not been used in this case, to provide an indication of acute incidences, while chronic air pollution is picked up in the MAQI. ISO8.1 is a subcomponent of this indicator.

-	orting nsibility	Ą	pplies to Municipal Category			Readiness			
Me	etro	M	etro	Yes		Yes		Tier 1	
B1 Data Element	(1) Average daily concentrations of PM2.5	B4 Source	Monitoring stations located within the municipality area. Ambient air quality data is available from the South African Air Quality Information System (www.saaqis.org.za), which contains data from all the available monitoring stations.	C1 Data Element	(2) Standard for the concentration of PM2.5 over a 24 hour averaging period	C4 Source	Gazette 35463, 29 June 2012		
B2 Frequency of collection	Daily	B5 Units	μg/m3	C2 Frequency of collection	n/a	C5 Units	μg/m3		

B3 Definition	a year, based or	r concentrations of PM n observations from co ations reporting to SA	C3 Definition	The maximum guideline standard for PM2.5 concentrations averaged over a 24-hour period			
B6 Notes	tools, which do no yet. The reference EN14907 according	PM2.5 requires more so to appear to be in use e method for the dete go to Gazette 35463, pu ears to be the same as	C6 Notes	The current standard is valid till 2029, after which the more stringent threshold of 25µg/m will come into effect. The WHO recommends guideline maximum levels for PM2.5 of 25µg/m3 for a 24-hour mean (or 10 µg/m3 annual mean).			
	(3) Count of the number of days		Monitoring stations available within the municipal area capable of				
D1 Data Element	where the 24- hour mean > guideline of 40 µg/m3	D4 Source	measuring PM2.5 or PM10 (which can be converted into PM2.5 using approved methodologies).	E1 Data Element	-	E4 Source	-
D2 Frequency of collection	Daily	D5 Units	Number of days	E2 Frequency of collection	-	E5 Units	-
D3 Definition	Number of days (per municipal financial year) where the levels of PM2.5 exceed the national standard.			E3 Definition		-	
D6 Notes		-		E6 Notes		-	

	Technical indicator description sheet									
A1 Indicator short name	Percentage of households experiencing a problem with noise pollution	households experiencing a problem with		A7 Rationale	acceptable levels of when loud noise is loud or unnatural not the environment. number of househollution during sun	of noise and acceptable. Dise from in The indicate olds reporte Yey to provide	y-laws regulating I the periods of time Sustained periods of dustry is disruptive to or seeks to use the dly affected by noise de an indication of the nin the municipality.			
	noise politicoli			A8 Definition	noise/noise pollution		that report "Excessive ivironmental problem community.			
INDICATOR ASSIGNMENT	ENV1.3	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of households experiencing noise pollution/ (2) Total number of households in the municipality X 100					
A5 Unit of measurement	Percentage of households experiencing a problem with noise pollution	A6 Frequency of reporting	Annual	A10 Indicator origin	ISO 8.7					
A11 Notes on calculation		None		A12 Additional notes	Technically the indicator would be better placed under a separate outcome because noise pollution is not an air quality issue. Nevertheless, it is included here for the time being.					
	orting nsibility	Ар	plies to Munic	cipal Cate	jory	R	eadiness			
Nati	ional	Metro			Yes		Tier 1			
B1 Data Element	(1) Number of households experiencing noise pollution	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Total number of households in the municipality	C4 Source	StatsSA General Household Survey			
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequency of collection	Annual	C5 Units	Number of households			
B3 Definition	The number of households that report "Excessive noise/noise pollution" as an environmental problem experienced in the community. C3 Definition This is the total number of households municipal area of jurisdiction									
B6 Notes		-		C6 Notes	The data element is understood to be specific to the survey item used to obtain the data by Statistics South Africa to avoid issues arising from non-response during the survey.					

2.4 ENV2.1

	160	ciiiiicai ii	idicator (aescrip	CHOIL SHEE	į L		
		A2 Alignment	Minimised solid waste		Many cities generat	e more soli	d waste than they can	
A1 Indicator short name	Tonnes of municipal solid waste sent to landfill per capita	A3 Results- chain level	Outcome	A7 adequate for coll waste often rem unsanitary landf methods, particu		en when municipal budgets are ction, the safe disposal of collected ins a problem. Open dumping and s are sometimes the main disposal arly in lower income cities. Sanitary e norm in a limited number of cities worldwide.		
				A8 Definition			solid waste that is anitary) landfills	
INDICATOR ASSIGNMENT	ENV2.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1)Tonnes of waste disposed of in a licensed landfill / (2) total population			
A5 Unit of measurement	Tonnes	A6 Frequency of reporting	Annual	A10 Indicator origin	Similar to ISO 16.4			
A11 Notes on calculation		None		A12 Additional notes		None.		
	orting nsibility	Ар	Applies to Municipal Categ			F	Readiness	
Me	etro	Metro		Yes		Tier 1		
B1 Data Element	(1) Tonnes of municipal solid waste disposed of in sanitary/licensed landfills	B4 Source	Metro Waste Management Officer	C1 Data Element	(2)Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate	
B2 Frequency of collection	Annual	B5 Units	Tonnes of solid waste	C2 Frequency of collection	Annual	C5 Units	Number of people	
Annual tonnes of municipal solid waste dis sanitary/licensed landfills			C3 Definition	Estimated population of the municipality in th		unicipality in the year		

Technical indicator description sheet Minimised solid **A2 Alignment** Many cities generate more solid waste than they can waste dispose of. Diverting recyclable materials from the waste stream is one strategy for addressing this municipal problem. A proper solid waste system can Δ7 foster recycling practices that maximises the life cycle Rationale of landfills and create recycling micro-economies, and it **Tonnes of** may help to provide alternative sources of energy that municipal help reduce the consumption of electricity and/or solid waste diverted from **A1** Indicator petroleum based fuels. short name A3 Results-Outcome landfill per chain level The tonnage of the city's solid waste that is recycled at capita centralised recycling centres, divided by the total population of the municipality. Recycled materials include those materials diverted from the waste **A8 Definition** stream, recovered and processed into new products following local government permits and regulations (International Solid Waste Association). **A9 INDICATOR** A4 Back to [(1)Tonnes of municipal waste diverted from landfill ENV2.2 Indicator Service delivery **ASSIGNMENT** through municipal facilities] / [(2)total population] **Basics pillar Formula** A10 A5 Unit of **A6 Frequency** Indicator Similar to ISO 16.3 Tonnes Annual of reporting measurement origin This may not capture the entire amount of waste A12 diversion in the waste chain, as it does not capture A11 Notes on **Additional** waste diversion via private facilities, but it will reflect None calculation notes the success of municipal efforts with regard to waste under their control. Reporting **Applies to Municipal Category** Readiness responsibility Metro Metro Yes Tier 1 (1) Tonnes of municipal waste Metro Waste (2)Total StatsSA Mid-Year **B1** Data accepted at C1 Data C4 **B4 Source** Management population of the **Element** recycling or **Element** Source Population Estimate Officer municipality material recovery centres C2 **B2 Frequency** Tonnes of solid Frequency **C5 B5** Units Annual Annual Number of people of collection Units waste collection Total municipal waste diverted from city landfill facilities C3 **B3** Definition Estimated population of the municipality in the year Definition through city waste diversion activities **B6 Notes C6 Notes**

Technical indicator description sheet Increased access **A2 Alignment** to refuse removal the percentage of households served by regular solid Α7 waste collection is an indicator of city health, Percentage of cleanliness and quality of life, and is recognised as a Rationale households right within the South Africa Constitution with basic **A1 Indicator** refuse removal A3 Results-Outcome services or chain level better Households with basic refuse removal services or better **A8** (defined as a minimum of once weekly collection as Definition defined in the Back to Basics framework) as a percentage of total municipal households (1) Number of households receiving at least once-Α9 INDICATOR A4 Back to Indicator ENV3.1 weekly refuse removal services / (2) Total number of Service delivery **ASSIGNMENT Basics pillar Formula** households CoGTA Back to Basics. ISO 6.1 is similar, but reports on A10 A5 Unit of Percentage of A6 Frequency Indicator a population basis. Stats SA GHS info reports on a Annual measurement households of reporting origin household basis. The wording of both the GHS and Back to Basics is ambiguous about the technical definition of "once A12 A11 Notes on Additional None weekly collection", which provides discretion for the calculation notes method of collection from households based on the context. Reporting **Applies to Municipal Category** Readiness responsibility **National** Metro Yes Tier 1 (1) Number of households who (2) Total number StatsSA General C1 Data **B1** Data C4 StatsSA General have their refuse **B4 Source** of households in **Element** Household Survey **Element** Source Household Survey removed at least the municipality once a week C2 **B2 Frequency** Number of Frequency **C5** Number of Annual **B5** Units Annual of collection households Units households of collection Basic refuse removal is based on the definition provided in the Back to Basics framework. This is aligned with the This is the total number of households (of all types -**C3** formal, informal, and traditional) within the municipal **B3** Definition number of households who have their refuse removed at Definition least once a week, as defined by the StatsSA General area of jurisdiction Household Survey. As a consistent information source is available, metros are The data element is understood to be specific to the

C6 Notes

survey item used to obtain the data by Statistics South

Africa to avoid issues arising from non-response during the survey.

encouraged to use the GHS data rather than their own

customer level information, where definitions and methodologies may differ between municipalities.

B6 Notes

Technical indicator description sheet Increased access **A2 Alignment** Solid waste collection is one of the core services that to refuse removal local government provides, and is a key element in both creating decent living conditions, and maintaining Percentage of A7 Rationale a healthy environment. It is not possible to provide known informal formal services to all informal dwellings, as this many settlements receiving integrated waste handling encourage the development of illegal settlements. This A1 Indicator indicator only reports on the presence of services A3 Resultsshort name Output provided to "recognised" informal settlements. chain level services The proportion of recognised informal settlements **A8** within the metropolitan area which are receiving Definition integrated refuse collection and cleaning services A9 (1) Number of informal settlements receiving INDICATOR A4 Back to ENV3.11 Service delivery Indicator integrated waste services / (2) Total number of **ASSIGNMENT Basics pillar** Formula recognised informal settlements Percentage of A10 A5 Unit of A6 Frequency informal Annual Indicator New- Proposed by metros of reporting measurement settlements origin A12 A11 Notes on End of the reporting period **Additional** 0 calculation notes Reporting **Applies to Municipal Category** Readiness responsibility Metro Tier 1 Metro Yes (1) The number of recognised (2) The total Metro Waste number of **B1** Data C1 Data informal C4 **B4 Source** Management recognised Metro settlements **Element** Source Flement Office informal receiving basic settlements waste services C2 Number of **B2 Frequency** Frequency **C5** Number of informal Annual **B5** Units informal Annual of collection of Units settlements settlements collection The number of recognised informal settlements within the **C3** Settlements which have been recognised by municipal **B3** Definition metropolitan area which are receiving integrated refuse **Definition** authorities as informal. collection and cleaning services **B6 Notes C6 Notes**

	A2 Alignment	Conserved and enhanced biodiversity	A7 Rational e	The presence of natural or near- natural areas, aslo defined here as biodiversity priority areas, is used as a proxy for species richness, which is a costly and time-consuming indicator to develop data for. This proposed indicator measures the total area of available habitats across a municipal area, irrespective of condition. The intention is to capture the pace at which the built urban environment is replacing undeveloped land capable of supporting biological functioning.		
Percentage of biodiversity priority area within the metro	A3 Results- chain level	Output	A8 Definitio n	Proportional share of land cover categories aggregated to relate to biological priority areas within the municipality, relative to the total municipal area. It indicates the presence of available habitats across a municipal area important for maintaining ecological processes, expressed in ha. A decline over time indicates a loss of land supporting biodiversity and local ecosystems. Biodiversity and local ecosystems. Biodiversity priority areas, or areas of high biodiversity importance, are defined by SANBI (2016) as "Natural or semi-natural areas in the landscape or seascape that are important for conserving a representative sample of ecosystems and species, for maintaining ecological processes, or for the provision of ecosystem services."		
ENV4.11	A4 Back to Basics pillar	Service delivery	A9 Indicato r Formula	(1) Total land area in hectares classified as "biodiversity priority areas" at the end of the current reporting period / (2) Total municipal area in hectares * 100		
Percentage of land in hectares	A6 Frequency of reporting	Annual	A10 Indicato r origin	Similar to SACN 144, Open Space, based on Ethekwini Indicator, and to data provided by SANBI's LUDS BGIS database information. http://bgis.sanbi.org/LUDS/Home/Sum maries		
			A12 Addition al notes	The intent is to capture all pockets of undeveloped land which can support biodiversity, irrespective of condition or status. The intention is to capture the pace at which the built urban environment is replacing undeveloped land capable of supporting biological functioning. For this reason, artificial natural environments may be included where relevant (such as an artificial wetland which has been created). ENV 4.11 is similar to ISO 19.1 Green area (ha) per 100 000 population. This however has a recreation focus, and includes only publicly accessible land. The intention of ENV 4.11 is to capture transformation of land from a biodiversity perspective over time, or loss of green space capable of supporting biological function to urban		
	biodiversity priority area within the metro ENV4.11 Percentage of land in hectares Calculated at the en	Percentage of biodiversity priority area within the metro ENV4.11 A4 Back to Basics pillar Percentage of land in hectares A6 Frequency of reporting	Percentage of biodiversity priority area within the metro ENV4.11 A4 Back to Basics pillar Percentage of land in bestarcs A6 Frequency of Annual	Percentage of biodiversity priority area within the metro A3 Results-chain level Output A8 Definition ENV4.11 A4 Back to Basics pillar Percentage of land in hectares Frequency of reporting A6 Frequency of reporting Calculated at the end of the period, comparing the change in the total area penalping as onen crace over the year in review. A7 Rational e		

	eporting oonsibility	А	Applies to Municipal Category					
	Metro	Metro		Yes		Tier 1		
			I		I			
B1 Data Element	(1) Total area of biodiversity priority areas	B4 Source	Municipal SDF, and its underlying strategic environmental assessment as required by SPLUMA. Ecosystem/vegetation type definition support available from SANBI, along with estimates of natural land in their LUDS tool. http://bgis.sanbi.org/LUDS/H ome/Summaries	C1 Data Element	(2) Total municipal area	C4 Source	Municipal GIS	
B2 Frequency of collection	Annual	B5 Units	ha	C2 Frequen cy of collectio n	n/a	C5 Units	ha	
B3 Definition	municipality which defined by SAN categories: protec ecosystems, CBAs, free-flowing river protected area exp	is capable of supp NBI 2016, this cate ted areas, critically ESA, FEPAs, strate s, priority estuarie pansion. Most notal	versity priority areas" in the orting ecological processes. As gory includes the following vendangered and endangered gic water source areas, flagships, focus areas for land-based biy it includes land ear-markeds not yet transformed.	C3 Definitio n	The total area falling within the boundaries of the municipality, expressed in ha			
B6 Notes	This is expected	to be constant, un municipal bo	eless there is a change in the undary	C6 Notes	This is expec there is a o	ted to be cor change in the boundary.		

	Technical indicator description sheet									
		A2 Alignment	Conserved and enhanced biodiversity	A7 Rationale	"biodiversity prior identified through r being of high biod	rity area" la municipal p liversity val	ne proportion of nd which has been lanning processes as ue and is protected			
A1 Indicator short name	Percentage of biodiversity priority areas protected	A3 Results- chain level	Output	A8 Definition	through some mechanism. The proportion of land identified through municip strategic environmental assessments and EMFs a biodiversity priority areas, which is protected through some mechanism. Mechanisms may include stewardship agreements, conventional protected areas, & biodiversity agreements, amon others.					
INDICATOR ASSIGNMENT	ENV4.21	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Area of biodiversity priority areas in hectares which is protected / (2) Total area of land in hectares which is identified as a biodiversity priority area x 100					
A5 Unit of measurement	Percentage of land in hectares	A6 Frequency of reporting	Annual	A10 Indicator origin	Agreed as part of Circular No.88 process					
A11 Notes on calculation		0		A12 Additional notes	types of protection is intended to be l area" status. The n	n which sho proader tha nechanism	ired regarding the uld be included, but n formal "protected should provide some protection.			
Repo respon	rting sibility	A	pplies to Municip	al Catego	ry	R	eadiness			
Me	tro	Metro			Yes		Tier 1			
B1 Data Element	(1) Area of priority biodiversity area which is protected	B4 Source	Municipal SDF, and its underlying strategic environmental assessment as required by SPLUMA.	C1 Data Element	(2) Total area identified as a priority biodiversity area	C4 Source	Municipal SDF			
B2 Frequency of collection	Annual	B5 Units	ha	C2 Frequency of collection	Annual	C5 Units	ha			
Total area identified as a priority biodiversity area which is protected through some mechanism, which may include stewardship agreements, conventional protected areas, & biodiversity agreements as defined in the SANBI 2016 Lexicon of Biodiversity Planning			C3 Definition	Total area identified as a priority biodiversity are within the municipal SEA & SDF. As defined by SANBI 2016, this category includes the following categories: protected areas, critically endangere and endangered ecosystems, CBAs, ESA, FEPAs strategic water source areas, flagship free-flowin rivers, priority estuaries, focus areas for land-based protected area expansion. Most notably if includes land ear-marked for development, but which is not yet transformed.						
B6 Notes		is required on the ty ould be immediately	/pe of protection, but this achievable.	C6 Notes	1 areas (critical la areas (ecological co	oiodiversity orridors, du	ude biodiversity core areas) and core 2 ne protection zones, support areas).			

Technical indicator description sheet Conserved The goal in the management of coastal systems is to **A2** and enhanced keep the resource suitable for all designated uses. The **Alignment** coastal recreational use of coastal marine water can be affected Δ7 resources A1 by aesthetic, safety and hygienic concerns. While all are Recreational Rationale Indicator important, the current indicator focusses on human water health risks stemming from the presence of short quality АЗ name microbiological indicator organisms. **Results-**Outcome The percentage of annual recreational water samples chain level **A8** taken which met the minimum requirement for Definition recreational water quality, namely sufficient or above. INDICATO A4 Back to A9 (1) Count of water samples which met the threshold Service ENV5.1 **Basics Indicator** criteria / (2) Total number of samples taken in the ASSIGNM delivery pillar **Formula** reporting year X100 **ENT A6** Based on current recreational water quality reporting to A5 Unit of A10 Frequency DEA: MCM as expressed in Indicator measurem Percentage Annual https://www.environment.gov.za/sites/default/files/legisla of ent origin reporting tions/water_qualityguidelines.pdf In SA the sufficient or fair category of exposure is **A11 Notes A12** considered to be minimum acceptable risk. Poor or on unacceptable microbiological samples have more than End of reporting period Additional calculatio 185 Enterococci count per 100ml, and over 500 E.Coli notes count per 100ml. Reporting **Applies to Municipal Category** Readiness responsibility Metro Tier 1 Metro Yes (2) Total number (1) Number of Metro department department of recreational **B1** Data C1 Data water samples C4 responsible for **B4 Source** responsible for coastal water **Element** classified as **Element** Source environmental quality samples environmental "sufficient" health taken annually health Will depend on frequency Will depend on of metro frequency of metro **B2** C2 sampling sampling Frequency Number of Frequency Number of water programme, **B5** Units programme, but C5 Units water samples samples but should at a should at a collection collection minimum be once minimum be every 2 weeks. once every 2 weeks The total number of water samples which met or exceeded the threshold for "sufficient or fair" water quality. This is defined as meeting the The total number of recreational coastal water quality following 3 criteria, (1) having at or below an В3 **C3** samples taken throughout the municipal jurisdiction over Definition 8.5% GI illness risk; (2) at or below am Definition the course of a reporting year. Enterococci count of 185 per 100ml; and (3) an E coli count of not more than 500 per 100ml. All 3 criteria have to be met. Based on methodology as specified in 2012 Based on methodology as specified in 2012 "South

C6 Notes

African water quality guidelines for coastal marine waters,

Volume 2: Guidelines for Recreational Use"

"South African water quality guidelines for

coastal marine waters, Volume 2: Guidelines for

Recreational Use"

B6 Notes

3.1 FE1.1

	Te	chnical i	ndicator de	escript	ion shee	t	
		A2 Alignment	Mitigated effects of emergencies				
A1 Indicator	Number of fire related deaths per			A7 Rationale	the effectiveness number of fire re	of a city's	sed to demonstrate fire services is the s that occur on an s.
short name	deaths per 1000 population	A3 Results- chain level	Outcome	A8 Definition	Incidence of reported deaths attributed to fi fire-related causes (e.g. smoke inhalation normalised per population.		moke inhalation)
INDICATOR ASSIGNMENT	FE1.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of reported deaths attributed to fire or fire-related causes / (2) Total population of the municipality * 1000		
A5 Unit of measurement	Ratio of deaths to population	A6 Frequency of reporting	Annual	A10 Indicator origin		ISO 10.2	
A11 Notes on calculation		None		A12 Additional notes	None		
	orting sibility	A	pplies to Municip	al Catego	ry	R	eadiness
Sha	red	ı	Metro		Yes	Tier 2	
				•			
B1 Data Element	(1) Number of reported deaths attributed to fire or fire-related causes	B4 Source	Municipal Fire Department	C1 Data Element	(2)Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate
B2 Frequency of collection	Annual	B5 Units	Deaths	C2 Frequency of collection	Annual	C5 Units	Number of people
B3 Definition			where the official cause of related causes (e.g. smoke on). C3 Definition Total population of the municipality in the			cipality in the year.	
B6 Notes		None		C6 Notes	None.		

		A2 Alignment	Mitigated effects of emergencies				verall compliance of average attendance
			emergencies	A7 Rationale	time of 14 minute urban areas from t at least 75% or m Category 1 Fire E SANS 10090. T minutes and secor respond to an init how protected a c	es for structural fire incidents in ime of call to time of attendance ore of the time as required for a Brigade Service as stipulated in the average response time (in ids) it takes a fire department to ial distress call is an indicator of ity's residents are from fires and ited emergencies.	
A1 Indicator short name	Percentage compliance with the required attendance time for structural firefighting incidents	A3 Results- chain level	Output	A8 Definition	Structural fire incidented fire outbreaks in the continuation of t	dents are dent habitable we approved structures to approved asures the pts receive a ndard. This the differer official call or reporting to the time of regal dicator ther tural firefigme was 14 structural fie is the different the time of ing response ident, (i.e.) at given adc personnel onds for the ber of fire cone year (de	efined as incidents of formal structures of the structures of the structures of the structure of the structu
INDICATOR ASSIGNMENT	FE1.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	attendance time Total number of	was less tha	incidents where the an 14 minutes / (2) inctural fire incidents 00
A5 Unit of measurement	Percentage of incidents	A6 Frequency of reporting	Quarterly	A10 Indicator origin	Sir	nilar to ISO	10.6
A11 Notes on calculation	for a quarter. A	Annually, all incidents	cumulative average value s over the four quarters annual average value.	A12 Additional notes			uth African National tection against Fire
Reno	orting			_			
=	sibility	A	pplies to Municip	al Category Readin			
Me	tro		Metro		Yes		Tier 2
B1 Data Element	(1) Number of structural fire incidents where the attendance time was less than 14 minutes	B4 Source	Municipal Fire Department	C1 Data Element	(2) Total number of distress calls for structural fire incidents received	C4 Source	Municipal Fire Department / Call Centre
B2 Frequency of collection	Quarterly	B5 Units	Structural fire incidents	C2 Frequency of collection	Quarterly	C5 Units	Distress calls
B3 Definition			ctural fire incidents where Il and the arrival time was ess.	C3 Definition	incidents received This refers only	at the call of to those in	ber of structural fire centre in the period. ncidents involving the urban edge.
B6 Notes		-		C6 Notes			e excluded as well as ame incidents.

				•				
A1 Indicator short name	Number of full-time firefighters per 1000 population	A2 Alignment A3 Results- chain level	Mitigated effects of emergencies Output	A7 Rationale	Fire response is one of the fundamental set that all cities provide in its role of protectin and property of its citizens. This indicator is for the extent to which the resourcing of function is appropriate to service a city's r normalised for its population. It is measured assumption that the full-time firefighting cap a municipality is adequately resourced a distributed appropriately to service the mul area. These are not assumptions that can be via the indicator, but would be the doma evaluation while the indicator is an output put the firefighting service of a municipality.			
				A8 Definition	employed by the population of the	municipalit ne municipal	Il-time firefighters normalised to the ity. This excludes firefighters.	
INDICATOR ASSIGNMENT	FE1.12	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Total number of full-time firefighters employed by the municipality / (2) Total municipal population * 1000			
A5 Unit of measurement	Ratio of firefighters to population	A6 Frequency of reporting	Annual	A10 Indicator origin	ISO 10.1			
A11 Notes on calculation		None		A12 Additional notes	None			
Repo respon	rting sibility	A	pplies to Municip	al Catego	ry	R	eadiness	
Sha	red		Metro	Yes		Tier 2		
B1 Data Element	(1) Total number of full- time firefighters employed by the municipality	B4 Source	Municipal Fire Department	C1 Data Element	(2)Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate	
B2 Frequency of collection	Annual	B5 Units	Firefighters	C2 Frequency of collection	Annual	C5 Units	Number of people	
B3 Definition		r of paid full-time fir lity at the end of the	efighters employed by the reporting period.	C3 Definition	Estimated population of the municipality in the y			
B6 Notes		None		C6 Notes	None.			

4.1 GG1.1

	Te	chnical i	ndicator o	descrin	tion shee	ıt .	
	10	ommour n	<u>laloator</u> t	<u> </u>	THOM SHOO	, ,	
A1 Indicator short name		A2 Alignment	Improved municipal capability		The percentage of the municipal skills developmer levy recovered is a proxy indicator of the successful throughput of municipal staff (permanent and		
	Percentage of municipal skills development	A3 Results-	Rationale contract) and codevelopment trail it is indicative of staff and coun	contract) and cound development training It is indicative of the	uncillors through on-going skills and ing and courses by the municipality. he municipal spend towards building llor capability and fostering lifelong learning.		
	levy recovered	chain level	00	A8 Definition	municipal skills dev financial year as a skills development	is a measure of the R-value of the development levy recovered for the sa percentage of the total municipal ent allocation which the municipality could have claimed.	
INDICATOR ASSIGNMENT	GG1.1	A4 Back to Basics pillar	Building capable local government institutions	A9 Indicator Formula	(1) R-value of municipal skills development levy recovered/ (2) R-value of the total qualifying value of the municipal skills development levy *100		
A5 Unit of measurement	Percentage of R-value	A6 Frequency of reporting	Annual	A10 Indicator origin	CoGTA Departmental Consultations		
A11 Notes on calculation		None		A12 Additional notes	There may be a recovery lag that can only be reported upon later.		
	Reporting responsibility		plies to Munic	ipal Category Reading		Readiness	
M€	etro	Me	etro	Yes		Tier 1	
B1 Data Element	(1) R-value of municipal skills development	B4 Source	Municipal Huma Resource	C1 Data	(2) R-value of the total qualifying value of the	C4	Municipal Huma Resource
	levy recovered		Department	Element	municipal skills development levy	Source	Department
B2 Frequency of collection	levy recovered Annual	B5 Units	Department Rands	C2 Frequency of collection	municipal skills	C5 Units	
	Annual The amount of mu	B5 Units unicipal skills developring the municipality in R-v	Rands	C2 Frequency of	municipal skills development levy Annual The amount of mun could have been clair	C5 Units	Department

	lec	hnical in	dicator o	descrip	otion she	et		
				_				
		A2 Alignment	Improved municipal capability		ability of a municip not mean there sh	bality to per sould not be	ent is central to the form well. This does exits, but that exits	
A1 Indicator short name	Top management stability	A3 Results-	Outcome	A7 Rationale	that there is a sean successors. arrangements a	a planned way, ideally ensuring nless handover to fully appointed Extended period of acting are not desired and negatively ed in this indicator.		
		chain level	Outcome	A8 Definition	(2000). This refers in which all of the t municipality are fill	er the Munion to the the mumber to the manage	Municipal Systems Act e number of working days anagement positions in the full-time employees not in g position.	
INDICATOR ASSIGNMEN T	GG1.2	A4 Back to Basics pillar	Building capable local government institutions	A9 Indicator Formula	((1)Total sum of standard working days, in the reporting period, that each S57 post was occupi by a fully appointed official (not suspended or vacant) with a valid signed contract and performance agreement)/ ((2)Aggregate workin days for all S57 posts) *100		77 post was occupied (not suspended or ed contract and)Aggregate working	
A5 Unit of measuremen t	Percentage of working days	A6 Frequency of reporting	Annual	A10 Indicator origin	New			
A11 Notes on calculation		None		A12 Additional notes	Where a new S56 or 57 post has been created this should be reflected in a pro-rata treatment of the reporting period. This indicator could be run just for the MM position as well.			
	orting sibility	Арр	olies to Munic	cipal Cate	gory	R	eadiness	
Me	etro	Me	etro		Yes Tier 2			
B1 Data Element	(1) Total sum of standard working days, in the reporting period, that each S56 and S57 post was occupied by a fully appointed official (not suspended or vacant) with a valid signed contract and performance agreement)	B4 Source	Municipal Human Resources Department	C1 Data Element	(2) Aggregate working days for all S56 and S57 Posts in the reporting period	C4 Sourc e	Municipal Human Resources Department	
	of standard working days, in the reporting period, that each S56 and S57 post was occupied by a fully appointed official (not suspended or vacant) with a valid signed contract and performance	B4 Source B5 Units	Human Resources		working days for all S56 and S57 Posts in the	Sourc	Resources	
Element B2 Frequency of	of standard working days, in the reporting period, that each S56 and S57 post was occupied by a fully appointed official (not suspended or vacant) with a valid signed contract and performance agreement) Annual S56 and S57 post (2001). Fully a either unfilled, va suspension or ext Contracts and per		Human Resources Department Working days nicipal Systems Act actude posts that neumbent is under ore than 2 weeks). ents are defined in	C2 Frequenc y of	working days for all S56 and S57 Posts in the reporting period Annual The sum of all st weekends or publ	C5 Units	Resources Department Working days king days (e.g. not in a year for all S56	

	Tec	hnical in	dicator o	descrip	otion she	et	
			T .				
A1 Indicator		A2 Alignment	Improved municipal capability			This indicator gives an indication of the municipality's progress towards building capable cal government. It shows the extent to which the required staff complement in the organisational structure is met.	
	a			A7 Rationale	local government. I required staff cor		
short name	Staff vacancy rate	A3 Results- chain level	Output	A8 Definition	organisational structi number of posts in t	unfilled posts in the municipal ture as a percentage of the total the municipality's organisational structure.	
INDICATOR ASSIGNMENT	GG1.21	A4 Back to Basics pillar	Building capable local government institutions	A9 Indicator Formula	((1)The number of employees on the approved organisational structure)-((2) The number of permanent employees in the municipality))/((1)The number of employees on the approved organisational structure)*100		
A5 Unit of measuremen	Percentage of posts	A6 Frequency of reporting	Quarterly	A10 Indicator origin	CoGTA Back to Basics monthly reports		
A11 Notes on calculation	vacancy rate she considered ap	r S57 posts should b ould be informed by oproved posts on the rmanent employees contracts).	whether they are organisational	A12 Additional notes	If a municipality lacks an approved organisational structure there is potential for this to be manipulated. The municipality should have an approved organisational structure as a pre-requisit for this indicator.		
•	orting esibility	Арр	olies to Munic	cipal Cate	gory	R	eadiness
Me	tro	Me	tro		Yes		Tier 1
B1 Data Element	(1) The number of employees on the approved organisational structure	B4 Source	Municipal Human Resources Department	C1 Data Element	(2)The number of permanent employees in the municipality	C4 Sourc e	Municipal Human Resources Department
B2 Frequency of collection	Quarterly	B5 Units	Employees	C2 Frequenc y of collection	Quarterly	C5 Units	Employees
B3 Definition		er of employees that ructure approved by municipality		C3 Definition	The number of employees on permanent contrac employed by the municipality appearing on the approved organisational structure.		y appearing on the
B6 Notes	Available fro	m the CoGTA Monthl Questionnaire	y Back to Basic	C6 Notes		the COGTA	Back 2 Basics

4.4 GG2.1

Technical indicator description sheet									
		A2 Alignment	Improved municipal responsiveness						
A1 Indicator short name	Percentage of ward committees that are functional (meet four times a year.	ward committees that are functional (meet four	A3 Results- chain level	Outcome	A7 Rationale This indicator shows the leve ward committees, how function for public participation are in they are active and p		ow function on are in the	ional formal mechanisms the municipality, and that	
	are quorate, and have an action plan)	cnain ievei		A8 Definition	to be 'functional' out of a Functional is defined asward committee action punder review and had at lethal ((1)Functional ward community ward) ((1)Functional ward committee action punder review and had at lethal ward) ((1)Functional ward committee action punder review and had at lethal ward) ((1)Functional ward committee action punder review and had at lethal ward) ((1)Functional ward committee action punder review and had at lethal ward)	it of all war d as- they h tion plan by	d committees that are deemed f all wards in the municipality. s- they have an agreed annual plan by end of Q1 of the year t least four quorate meetings in nat year.		
INDICATOR ASSIGNMENT	GG2.1	A4 Back to Basics pillar	Putting people first	A9 Indicator Formula	((1)Functional ward committees)/((2)Total number of wards)*100				
A5 Unit of measurement	Percentage of ward committees	A6 Frequency of reporting	Annual	A10 Indicator origin	CoGTA Back to Basics				
A11 Notes on calculation		None		A12 Additional notes	No additional notes				
	orting nsibility	Ар	plies to Munic	ipal Categ	ory	F	Readiness		
Me	etro	Me	tro		Yes		Tier 2		
					<u> </u>				
B1 Data Element	(1) Functional ward committees	B4 Source	Municipal Public Participation Unit	C1 Data Element	(2) Total number of wards	C4 Source	Municipal Public Participation Unit		
B2 Frequency of collection	Annual	B5 Units	Number of ward committees	C2 Frequency of collection	Annual	C5 Units	Number of wards		
B3 Definition	municipality that	of ward committees o hold at least four quo ving a ward committe	rate meetings per	C3 Definition	The total number of wards for which ward committees should be constituted in the municipality				
B6 Notes		-		C6 Notes		-			

	Technical indicator description sheet									
		A2 Alignment	Improved municipal responsiveness				e extent to which ward of filled representation,			
A1 Indicator	Percentage of ward committees with 6 or more ward			A7 Rationale	which is a proxy ind engagement in the formal structure s indicator shows the p	dicator for to public part uch as the vercentage of	he level of community icipation system via a ward committee. The of ward committees that leats available to them.			
short name	committee members (excluding the ward councillor)	A3 Results- chain level	Output	A8 Definition	The percentage of ward committees that had 6 or members, excluding the ward councillor, as a prop of the total number of wards at the last day of reporting period.		uncillor, as a proportion at the last day of the			
INDICATOR ASSIGNMENT	GG2.11	A4 Back to Basics pillar	Putting people first	A9 Indicator Formula			nittees with 6 or more er of wards)*100			
A5 Unit of measurement	Percentage of ward committees	A6 Frequency of reporting	Quarterly	A10 Indicator origin	Proposed based on	CoGTA dep	partment consultations			
A11 Notes on calculation	reporting period of	ould be reported as at f each quarter. The an as the performance for	nual performance is	A12 Additional notes	No	additional	notes			
						ı				
	orting nsibility	Ар	plies to Munic	ipal Categ	ory	ı	Readiness			
Me	etro	Me	tro		Yes		Tier 2			
B1 Data Element	(1) Total number of ward committees with 6 or more members	B4 Source	Municipal Public Participation Unit	C1 Data Element	(2) Total number of wards	C4 Source	Municipal Public Participation Unit			
B2 Frequency of collection	Quarterly	B5 Units	Number of ward committees	C2 Frequency of collection	Quarterly	C5 Units	Number of wards			
B3 Definition	The total number o	f ward committees in six or more members	' '	C3 Definition			which ward committees the municipality			
B6 Notes	No additional notes C6 Notes -									

	Ted	chnical ir	ndicator o	descrip	otion she	et	
		A2 Alignment	Improved municipal responsiveness		wards where at lea public participation	ast the mining with the el	ation of the extent of mum opportunity for ected representative
A1 Indicator	Percentage of wards where at least one councillor-			A7 Rationale	councillor should meeting in his/her	convene at ward as per	meeting. Each ward least one quarterly the provisions of the e Councillor Code of
short name	convened community meeting was held	A3 Results- chain level	Output	A8 Definition	The wards in the municipality in which at land community meeting has been convened councillor. Community meetings refer to an meeting for which public notice is given, he councillor's ward, and at which the ward convenes the meeting.		en convened by a gs refer to any public e is given, held in the n the ward councillor
INDICATOR ASSIGNMENT	GG2.12	A4 Back to Basics pillar	Putting people first	A9 Indicator Formula	convened communit	ty meeting v	least one councillor- vas held / (2) Number pality) * 100
A5 Unit of measurement	Meetings	A6 Frequency of reporting	Quarterly	A10 Indicator origin	Municipal Systems are expected to meetings with the o that "councillors communities and constituencies or	Act, 32 of 20 interact three community. It is must be act report back in council may fithe municipal control of the control of	de of Conduct in the 000, ward councillors ough report back The legislation states countable to local at least quarterly to tters, including the pality in terms of GTA Back to Basics
A11 Notes on calculation	Non-cumulative i	ndicator. The results per quarter.	should be reported	A12 Additional notes	No	additional r	notes
_	orting sibility	Ар	plies to Munic	cipal Cate	gory	R	eadiness
Me	tro	Me	etro		Yes		Tier 2
B1 Data Element	((1) Number of wards where at least one councillor-convened community meeting was held	B4 Source	Municipal Public Participation Unit	C1 Data Element	(2) Total number of wards	C4 Source	Municipal Public Participation Unit
B2 Frequency of collection	Quarterly	B5 Units	Number of wards	C2 Frequency of collection	Quarterly	C5 Units	Wards
B3 Definition	convened at lea Community meeti	of wards where the ast one quarterly con ngs need to be held uncillor with a public	nmunity meeting. within the ward, by	C3 Definition	The number or wards in the municipality		
B6 Notes		No additional notes	5	C6 Notes	No	additional r	notes

	Technical indicator description sheet								
A1 Indicator	Attendance rate of municipal council	A2 Alignment	Improved municipal responsiveness	- A7 Rationale	terms of official trace Municipal Structure and participation in of municipal respor	litional struct es Act of 19 Council me	officially recognised in ctures identified in the 98, their attendance etings is an indication their leadership and		
short name	meetings by all identified Traditional Leaders	A3 Results- chain level	Outcome	A8 Definition	The number of off acknowledged Trac municipal area in a Identified traditiona within identified trac	The number of officially identified and municipally acknowledged Traditional Leaders resident with the municipal area in attendance at Council meetings. Identified traditional leaders refers to those leaders within identified traditional structures in terms of the Municipal Structures Act.			
INDICATOR ASSIGNMENT	GG2.2	A4 Back to Basics pillar	Putting people first	A9 Indicator Formula	(1) Sum of the total attendance at Co number of Tra	number of ouncil meeti aditional Lea	Traditional Leaders in ngs/ ((2) The total aders within the r of Council meetings)		
A5 Unit of measurement	Percentage attendance rate	A6 Frequency of reporting	Annual	A10 Indicator origin	Proposed CoGT.	A departme	ntal consultations		
A11 Notes on calculation		None		A12 Additional notes	No	additional r	notes		
-	orting sibility	Арј	plies to Munic	cipal Cate	gory	R	eadiness		
Me	tro	Me	etro		Yes Tier 2				
B1 Data Element	(1) Sum of the total number of Traditional Leaders in attendance at Council meetings	B4 Source	Municipal Council Meeting Register	C1 Data Element	(2) The total number of Traditional Leaders within the municipality	C4 Source	Municipal Council Meeting Register		
	total number of Traditional Leaders in attendance at	B4 Source B5 Units	Council Meeting		number of Traditional Leaders within	_	•		
B2 Frequency of collection	total number of Traditional Leaders in attendance at Council meetings Annual The sum of the to identified traditio	B5 Units Intal number of Tradit Inal leadership structor Council meetings con period of time	Council Meeting Register Number of Traditional Leaders ional Leaders (fromures) in attendance	C2 Frequency of collection C3 Definition	number of Traditional Leaders within the municipality Annual The total number identified and ackn	C5 Units	Meeting Register Number of		
B2 Frequency of collection	total number of Traditional Leaders in attendance at Council meetings Annual The sum of the to identified traditio	B5 Units otal number of Tradit nal leadership structo Council meetings con	Council Meeting Register Number of Traditional Leaders ional Leaders (fromures) in attendance	C2 Frequency of collection	number of Traditional Leaders within the municipality Annual The total number identified and ackn	C5 Units	Meeting Register Number of Traditional Leaders al leaders officially by the municipality in		
B2 Frequency of collection	total number of Traditional Leaders in attendance at Council meetings Annual The sum of the to identified traditio	B5 Units Intal number of Tradit Inal leadership structor Council meetings con period of time	Council Meeting Register Number of Traditional Leaders ional Leaders (fromures) in attendance	C2 Frequency of collection C3 Definition C6 Notes E1 Data Element	number of Traditional Leaders within the municipality Annual The total number identified and ackn	C5 Units	Meeting Register Number of Traditional Leaders al leaders officially by the municipality in		
B2 Frequency of collection B3 Definition B6 Notes	total number of Traditional Leaders in attendance at Council meetings Annual The sum of the to identified traditio at each of the 0 (3) Total number of Council	B5 Units Ital number of Tradit nal leadership structicouncil meetings con period of time None	Council Meeting Register Number of Traditional Leaders ional Leaders (from ures) in attendance vened during the Municipal Council Meeting	C2 Frequency of collection C3 Definition C6 Notes	number of Traditional Leaders within the municipality Annual The total number identified and ackn	C5 Units of tradition owledged b nicipal Struct None	Meeting Register Number of Traditional Leaders al leaders officially by the municipality in		
B2 Frequency of collection B3 Definition B6 Notes D1 Data Element D2 Frequency	total number of Traditional Leaders in attendance at Council meetings Annual The sum of the to identified traditio at each of the 0 (3) Total number of Council meetings Annual	B5 Units Interpretation of Tradity of Tradity of Tradity of time of Tradity of time of Tradity of time of Tradity of Tra	Council Meeting Register Number of Traditional Leaders ional Leaders (from ures) in attendance vened during the Municipal Council Meeting Register Council meetings	C2 Frequency of collection C3 Definition C6 Notes E1 Data Element E2 Frequency of	number of Traditional Leaders within the municipality Annual The total number identified and ackn	C5 Units r of tradition rowledged b nicipal Struct None E4 Source E5	Meeting Register Number of Traditional Leaders al leaders officially by the municipality in		

	Technical indicator description sheet									
A1 Indicator short name	Audit Opinion	A2 Alignment A3 Results-	More effective city administration	A7 Rationale	indication of th administration and reporting and a	pinion of the Auditor-General give n of the credibility of the municipa on and provides assurance of fina and adherence to governance an administrative legislation.				
		chain level		A8 Definition	The Audit Opinion is defined by the Auditor-General. I is given across a qualitative, ordinal scale including: Unqualified with no findings; Unqualified with findings Qualified with findings; Adverse with findings;and Disclaimed with findings. For those who have not completed the process 'Outstanding audits' are recorded.					
INDICATOR ASSIGNMENT	GG3.1	A4 Back to Basics pillar	Good governance	A9 Indicator Formula			by the Office of the qualitative scale			
A5 Unit of measurement	Qualitative audit result	A6 Frequency of reporting	Annual	A10 Indicator origin	Office o	f the Audito	or-General			
A11 Notes on calculation	As at the ϵ	end of the previous fir	nancial year.	A12 Additional notes	delayed due to the l		cator will be one year ne it takes to undergo cess			
	orting nsibility	Ар	plies to Munic	ipal Categ	jory	R	Readiness			
Nat	ional	Me	tro		Yes		Tier 1			
B1 Data Element	(1) Audit opinion	B4 Source	Office of the Auditor-General Municipal Reports	C1 Data Element	-	C4 Source	-			
B2 Frequency of collection	Annual	B5 Units	N/A	C2 Frequency of collection	-	C5 Units	-			
B3 Definition	As defined b	by the Office of the Au	ditor-General	C3 Definition		-				
B6 Notes	The data will b	oe the audited figures financial year	for the previous	C6 Notes	-					

	Tec	hnical in	dicator	descrip	otion she	et	
		A2 Alignment	More effective city				overnance include . The AG annually
A1 Indicator short name	Number of repeat audit findings	A3 Results-	administration Output	A7 Rationale	indicates in the findings on compliance whether municipalities are complying with the financial legislation and regulations – it is assumed that when a municipality cannot even comply with the financial legislation, it will also not comply with other legislation applicable to municipalities. By tracking the number of "repeat" findings, a municipality needs to account for why it allows it administration to continue to repeat non-complian practices year on year. This includes all findings, both financial and non-financial. "Repeat" findings refer to those findings which ha persisted from one year of reporting to the next These are identified as repeat findings by the Auditor-General on the following administrative areas including but not limited to: i) annual financial statements and annual report ii) Strategic planning and performance iii) Consequence management iv) Human Resource management		
		chain level	σαφαί	A8 Definition			
INDICATOR ASSIGNMENT	GG3.11	A4 Back to Basics pillar	Good governance	A9 Indicator Formula	itemised by the in		er of "repeat" findings r-General's report of ality.
A5 Unit of measuremen t	Number of audit findings	A6 Frequency of reporting	Annual	A10 Indicator origin	Office o	f the Audito	or-General
A11 Notes on calculation	As at the e	nd of the previous fi	nancial year.	A12 Additional notes	The desired targe	et is No Find finding.	ling or "addressed"
-	orting sibility	Арр	olies to Munic	cipal Cate	gory	R	eadiness
Nati	onal	Me	etro		Yes		Tier 1
B1 Data Element	(1) Simple count of the number of "repeat" findings itemised by the Auditor-General in the audit report.	B4 Source	Office of the Auditor-General Municipal Reports	C1 Data Element	-	C4 Sourc e	-
B2 Frequency of collection	Annual	B5 Units	Repeat findings	C2 Frequenc y of collection	-	C5 Units	-
B3 Definition	following admini i) annual fina ii) Strate iii) C	lings by the Auditor- strative areas includ to: ncial statements and egic planning and pe onsequence manage man Resource mana	ing but not limited I annual report; rformance ement;	C3 Definition		-	
B6 Notes		None		C6 Notes		-	

	Те	chnical i	ndicator o	descrip	otion shee	et	
			More effective		According to the C	ouncillar Co	do of Conduct in the
A1 Indicator short name	Percentage of councillors who have declared their financial interests	A2 Alignment A3 Results- chain level	city administration Output	A7 Rationale	Municipal Systems A within 60 days of e declaration of inter writing. Any chan- financial interests o the municipal mana, regard entails an ar councillors. This p whether municipalit	ct, 32 of 200 lection or appests to the orage in the name of a councilloger annually noual declarations and	de of Conduct in the 00, all councillors must oppointment provide a municipal manager in ture or detail of the r must be declared to r. Good practice in this ation of interest by all updated indication of ast aware of potential erest.
				A8 Definition	The percentage of all councillors that have declare their financial interests for the financial year being reported against.		
INDICATOR ASSIGNMENT	GG3.12	A4 Back to Basics pillar	Good governance	A9 Indicator Formula	financial interests		t have declared their number of municipal 100
A5 Unit of measurement	Percentage of councillors	A6 Frequency of reporting	Annual	A10 Indicator origin	Municipal Systems A "When elected or al 60 days declare in the following financia a. shares and b. membersh c. inf d e f. other financial inte g. employi h. in j. subsidies, gra 7.2 Any change in ti interests of a counci the munic Proposed from Co	act, 32 of 20 oppointed, a writing to the securities in the securities in the securities in the securities in any cloterest in any entrests in any ment and reterest in procession; a sents and specorganisation on a nature on libr must be ipal manage GTA departited.	ps; ps; business undertaking; muneration; perty; nd onsorships by any n. detail of the financial declared in writing to er annually."
A11 Notes on calculation		None		A12 Additional notes	practice in this ind commensurate v frequency of declar interest made outsid	dicator, they with their in ation of inte	does not observe good or should set a target terpretation of the errests. Declarations of ancial year should not sed.
						30 001.0.00.	
-	orting nsibility	Ар	plies to Munic	ipal Categ	jory	R	leadiness
Me	etro	Me	etro		Yes		Tier 1
B1 Data	(1) Number of councillors that have declared	B4 Source	Municipal Council Registrar of	C1 Data	(2) Total number of municipal	C4	Municipal Council
Element	their financial interests		Interests	Element C2	councillors	Source	Register
B2 Frequency of collection	Annual	B5 Units	Councillors	Frequency of collection	Annual	C5 Units	Councillors
B3 Definition		r of councillors that h nterests in the year o		C3 Definition	that mu	ınicipal finar	
B6 Notes		None.		C6 Notes	the same financial ye councillors in that	ear, it shoul financial ye	ated and filled within d count the number of ear, even if multiple ied one seat.

Al Indicator short name attending council meetings. AS Built of measurement voluntees of a government of a government voluntees of a quarter should be reported at a cumulative average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a government voluntees of a quarter should be aggregated to reflect an annual average voluntees of a government voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a government voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to reflect an annual average voluntees of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarter should be aggregated to a government of a quarte		Tec	hnical in	dicator o	descrip	otion she	et		
A1 Indicator short name attending council meetings of councilors short name attending council meetings of councilors short name attending council meetings attended council meetings. A3 Bunit of measurement A5 Unit of measurement A5 Unit of measurement A5 Unit of measurement A6 Frequency councilors at council meetings over the four quarters should be appregated to reflect an annual average value. A1 Notes on calculation A1 Notes on calculation A1 Notes on calculation A1 Notes on calculation A1 Indicator should be reported as a cumulative average value. A2 This indicator should be reported as a cumulative average value. A3 Results-council meetings of the municipality of a quarter Annually, all meetings over the four quarters should be appregated to reflect an annual average value. A2 This indicator shows the level of engagement council meetings of the municipal council meetings of the founcil meetings									
A1 Indicator short name A2 Results-council meetings A3 Results-council meetings A3 Results-council meetings A6 A8 Definition The average percentage of members of the municipality of the business for which they were elected. A8 Definition The average percentage of members of the municipal council meetings. ((1) The sum total of all councillor attendance of all shorted properties attending council meetings. ((1) The sum total of all councillor attendance of all shorted properties and shorted properties are shorted by council meetings. A5 Unit of measurement A1 Notes on calculation A1 Notes on calculation A1 Notes on calculation A1 Notes on calculation A2 Percentage of councillors attendance as a cumulative average value. A1 Notes on calculation A2 Percentage of councillors are defined as a cumulative average value. A1 Notes on calculation A2 The indicator should be reported as a cumulative average value. A1 Notes on calculation A2 Percentage of councillors are defined as a cumulative average value. A1 Notes on calculation A2 The indicator should be reported as a cumulative average value. A1 Notes on calculation A2 The indicator should be reported as a cumulative average value. A2 The indicator should be aggingsted to reflect an animal average value. A2 The indicator should be aggingsted to reflect an animal average value. A3 Definition A5 Unit of meetings A6 Frequency of collection A7 The total number of council meetings A7 The total number of council meetings of collection A7 The total number of council meetings of collection A7 The total number of council meetings of collection A7 The total number of municipal councillors in the municipal total municipal collection A7 The total number of municipal councillors in the municipal t			A2 Alignment	council					
INDICATOR ASJGNMENT GG4.1		percentage of councillors attending council		Outcome		councillors have in and to what exten	n the affairs	s of the municipality s are participating in	
ASSIGNMENT GG4.1 A4 Back to Basics pillar Good governance Indicator Formula Council meetings C		meetings	cium ievei			The average pe municipal council	ercentage of that attende	f members of the ed council meetings.	
AS birt of measurement Processing of Councillors of reporting origin and processing and processi		GG4.1			Indicator	council meetings) / meetings * (3)The	((2)The to	tal number of council er of council members	
All Notes on calculation are indicator should be reported as a cumulative average value for quarters should be aggregated to reflect an annual overage value. Reporting responsibility Applies to Municipal Category Readiness Metro Metro Yes Tier 1 B1 Data Element Councillors at Councillors of Collection Collection Collection The total attendance by councillors at council meetings C3 Definition C3 The total attendance at all council meetings C6 Notes The total attendance at all council meetings C6 Notes This is the cumulative attendance at all council meetings C6 Notes The total attendance of all number of council meetings C7 Definition C9 Definitio				Annual	Indicator	CoG	TA Back to	Basics	
Metro Metro Yes Tier 1		value for a quarte	er. Annually, all meet d be aggregated to r	tings over the four	A12 Additional	No ad	ditional info	ormation	
Metro Metro Yes Tier 1	_		1						
Metro Metro Yes Tier 1	-	_	App	olies to Munic	cipal Cate	gory	R	eadiness	
B1 Data Element Councillor Councillor Council Register C1 Data Council C2 The total number of council meetings C3 C3 The total mumber of council meetings C4 Council records C3 C3 C4 C5 C5 C6 C6 C6 C6 C6 C6						13: 7			
B1 Data Councillor attendance of all council meetings C1 Data C2 The total number of council meetings	Me		Me	etro		Yes		Tier 1	
B2 Frequency of collection Annual B5 Units Councillors Councillors Frequency of collection The total attendance by councillors at council meetings during the period of data collection The total number of council meetings held by the council including where a quorum is reached C6 Notes This is the cumulative attendance at all council meetings C6 Notes C7 D1 Data Element C9 C1 C1 C1 C1 C2 C2 C3 C4 C4 C5 C4 C4 C5 C4 C5 C4 C5 C5	Me	etro	Me	etro		Yes		Tier 1	
B6 Notes This is the cumulative attendance at all council meetings C6 Notes This is the cumulative attendance at all council meetings C6 Notes - D1 Data Element Councillors in the municipality D2 Frequency of collection The total number of municipality D3 Definition The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipal total number of mun	B1 Data	(1) The sum total of councillor attendance of all		Municipal	C1 Data	(2) The total number of council			
D1 Data number of councillors in the municipality D2 Frequency of collection The total number of municipality The total number of municipality D3 Definition C3) The total number of council register council	B1 Data Element B2 Frequency	(1) The sum total of councillor attendance of all council meetings	B4 Source	Municipal Council Register	C1 Data Element C2 Frequency of	(2) The total number of council meetings	Source C5	Council records	
D1 Data Element number of councillors in the municipality D2 Frequency of collection Annual D5 Units Councillors Councillors E1 Data Element - Source - D2 Frequency of collection The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality	B1 Data Element B2 Frequency of collection	(1) The sum total of councillor attendance of all council meetings Annual	B4 Source B5 Units	Municipal Council Register Councillors	C1 Data Element C2 Frequency of collection	(2) The total number of council meetings Annual	C5 Units	Council records Meetings	
D1 Data Element number of councillors in the municipality D2 Frequency of collection Annual D5 Units Councillors Councillors E1 Data Element - Source - D2 Frequency of collection The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality The total number of municipality The total number of municipal councillors in the municipality The total number of municipal councillors in the municipality	B1 Data Element B2 Frequency of collection B3 Definition	(1) The sum total of councillor attendance of all council meetings Annual The total attenda during	B4 Source B5 Units ance by councillors at the period of data co	Municipal Council Register Councillors t council meetings offection	C1 Data Element C2 Frequency of collection C3 Definition	(2) The total number of council meetings Annual	C5 Units	Council records Meetings	
D2 Frequency of collection Annual D5 Units Councillors Frequency of collection The total number of municipal councillors in the municipality Frequency of collection The total number of municipality E3 Definition - - - - - - - - - - - - -	B1 Data Element B2 Frequency of collection B3 Definition	(1) The sum total of councillor attendance of all council meetings Annual The total attenda during This is the cumul	B4 Source B5 Units ance by councillors at the period of data co	Municipal Council Register Councillors t council meetings offection	C1 Data Element C2 Frequency of collection C3 Definition	(2) The total number of council meetings Annual	C5 Units	Council records Meetings	
municipality Definition -	B1 Data Element B2 Frequency of collection B3 Definition B6 Notes	(1) The sum total of councillor attendance of all council meetings Annual The total attenda during This is the cumul (3) The total number of councillors in	B4 Source B5 Units ance by councillors at the period of data councillors at a strength of the period of data councillors at a strength of the period of data councillors.	Municipal Council Register Councillors t council meetings ollection	C1 Data Element C2 Frequency of collection C3 Definition C6 Notes	(2) The total number of council meetings Annual	C5 Units of council ng where a q	Council records Meetings	
D6 Notes Register taken at the end of the reporting period E6 Notes	B1 Data Element B2 Frequency of collection B3 Definition B6 Notes D1 Data Element D2 Frequency	(1) The sum total of councillor attendance of all council meetings Annual The total attendaduring This is the cumul (3) The total number of councillors in the municipality	B4 Source B5 Units ance by councillors at the period of data counties attive attendance at a source	Municipal Council Register Councillors t council meetings ollection all council meetings Council register	C1 Data Element C2 Frequency of collection C3 Definition C6 Notes E1 Data Element E2 Frequency of	(2) The total number of council meetings Annual The total number	C5 Units of council ng where a quadrate a q	Council records Meetings	
	B1 Data Element B2 Frequency of collection B3 Definition B6 Notes D1 Data Element D2 Frequency of collection	(1) The sum total of councillor attendance of all council meetings Annual The total attendaduring This is the cumul (3) The total number of councillors in the municipality Annual	B4 Source B5 Units ance by councillors at the period of data councillors at the period of data councillors at the period of data councillors. D4 Source D5 Units	Municipal Council Register Councillors t council meetings collection all council meetings Council register Councillors	C1 Data Element C2 Frequency of collection C3 Definition C6 Notes E1 Data Element E2 Frequency of collection	(2) The total number of council meetings Annual The total number	C5 Units of council ng where a quadrate a q	Council records Meetings	

	Tec	hnical in	dicator o	descrip	otion she	et	
		A2 Alignment	Improved council functionality		business is del councillors fro	layed due to om council r	t extent municipal the absence of neetings or the
A1 Indicator short name	Number of agenda items deferred to the next council	A3 Results-	Output	A7 Rationale	items, which give which councillors a as elected repre: Functional councils resolutions or deci unfinished busin agenda items t	s an indicate fulfilling sentatives of will procest sions rather ess. Measur that are defined an indicate that are defined are	hout attending to all ion of the extent to their responsibilities if the municipality. It is agenda items with than defer or leave ing the number of erred to the next dysfunction.
	meeting	chain level	33,43	A8 Definition	The number of agenda items that deferred to the next council meeting council has failed to reach a quorur decisions on those items. Where m meetings have been held, this is the those items deferred. This does ragenda items referred to other strictums for which no decision or acti		neeting because the quorum or withheld ere multiple council s is the sum total of does not refer to her structures, only
INDICATOR ASSIGNMENT	GG4.11	A4 Back to Basics pillar	Good governance	A9 Indicator Formula		nber of all co	ouncil agenda items t meeting
A5 Unit of measurement	Number of council decisions	A6 Frequency of reporting	Quarterly	A10 Indicator origin	CoG	TA Back to	Basics
A11 Notes on calculation		umulative number of red in the reporting		A12 Additional notes	with this indicator senior municipal m and 57 of the M performance agree Circular No. 8 responsibility rest	which shou anager's (ir lunicipal Sys ment. This 88's provisions with the S	lications associated and not reflect in any terms of Section 56 stems Act) annual is unique in terms of ns because the ipeaker and Council management.
Repo respon		Арр	olies to Munic	cipal Cate	gory	R	eadiness
Ме	tro	Me	etro		Yes		Tier 1
B1 Data Element	(1) Sum total number of all council agenda items deferred to the next meeting	B4 Source	Council minutes	C1 Data Element	-	C4 Source	
B2 Frequency of collection	Quarterly	B5 Units	Agenda items	C2 Frequency of collection	-	C5 Units	-
B3 Definition	to the next cou	agenda items that h ncil meeting becaus a quorum or withheld matter.	e the council has	C3 Definition		-	
B6 Notes		None		C6 Notes		-	

	Tecl	nnical in	dicator o	descrip	otion she	eet	
		A2 Alignment	Zero tolerance of fraud and corruption	A7			nance require ninistration and
	Number of alleged fraud and			Rationale	provides a leadin	g measure	nds. The indicator of the incidence of n alleged incidents.
A1 Indicator short name	corruption cases reported per 100 000 population	A3 Results- chain level	Outcome	A8 Definition	corruption reporte period under revi the population. C the Preventior Activities Act 12 of criminal offence ti	dents of fraud and unicipality during the sed per 100 000 of defined broadly in ating of Corrupt apter 2(s3) and any within the ambit of the purposes of this	
INDICATOR ASSIGNMENT	GG5.1	A4 Back to Basics pillar	Good governance	A9 Indicator Formula	cases reported to		ud and corruption (2)Population of the 000
A5 Unit of measurement	Number of alleged cases	A6 Frequency of reporting	Annual	A10 Indicator origin	ISO) 11.4 deriv	ative
A11 Notes on calculation		None		A12 Additional notes	with the other i which this should to follow if sy	elated outc be a predict	wed in conjunction ome indicators of tor of consequences countability are priately.
Repo respon		Арр	lies to Munic	cipal Cate	gory	R	eadiness
Sha	red	Me	etro		Yes		Tier 2
B1 Data Element	(1) Number of alleged fraud and corruption cases reported to the metro	B4 Source	Metro legal services directorate	C1 Data Element	(2) Population: Number of persons who reside within the municipal boundaries.	C4 Source	StatsSA General Household Survey
B2 Frequency of collection	Annual	B5 Units	Allegations of fraud and corruption	C2 Frequency of collection	Annual	C5 Units	Population
B3 Definition	The data element is a simple count of the total number of alleged fraud and corruption cases reported to the municipality involving a representative of the municipality in his/her official capacity (whether an elected office-bearer or employee) for an act of corruption. Corruption is defined broadly in the Prevention and Combating of Corrupt Activities Act 12 of 2004 in Chapter 2(s3) and any criminal offence that may fall within the ambit of this definition is included for the purposes of this data element.					the municipal area	
B6 Notes	financial year an	lly to allegations rep d does not related t remain open from	o concluded cases	C6 Notes		None	

4.14 GG5.11

	Te	chnical i	ndicator o	descrip	tion shee	t			
		A2 Alignment	Zero tolerance of fraud and corruption	A7	without executing t the suspensions	heir municip lasting more	nue to receive salaries pal functions. Tracking than three months		
A1 Indicator	Number of active suspensions	·		Rationale	cases of alleged miso processing of adm	conduct. Thi	rocessing efficiency in is is one indicator of the ustice as it relates to rces.		
	longer than three months	A3 Results- chain level	Output	A8 Definition	time of reporting th	efers to the total number of active suspensions at th time of reporting that were initiated more than three months prior and had not yet been resolved.			
INDICATOR ASSIGNMENT	GG5.11	A4 Back to Basics pillar	Good governance	A9 Indicator Formula			of active suspensions in a three months		
A5 Unit of measurement	Number of suspensions	A6 Frequency of reporting	Quarterly	A10 Indicator origin	Proposed based on	CoGTA depa	artmental consultations		
A11 Notes on calculation		None		A12 Additional notes			tances of suspensions than three months.		
	orting nsibility	Ар	plies to Munic	ipal Categ	ory	ı	Readiness		
respor		_	<mark>plies to Munic</mark> tro	ipal Categ	ory Yes	ı	Readiness Tier 2		
respor	nsibility etro	_	•	ipal Categ		ı			
respor	nsibility	_	•	C1 Data Element		C4 Source			
respor Me	(1) Simple count of the number of active suspensions in the municipality lasting more than	Me	Human Resources	C1 Data		C4			
B1 Data Element	(1) Simple count of the number of active suspensions in the municipality lasting more than three months Quarterly Sum of the number	Me B4 Source	Human Resources Department Number of suspensions	C1 Data Element C2 Frequency of		C4 Source			

4.15 GG5.12 **Technical indicator description sheet** Zero tolerance of **A2 Alignment** fraud and Individuals on suspension continue to receive salaries corruption without executing their municipal functions. Tracking **A7** the salary bill of suspended officials provides an Rationale indicator of the extent to which enduring suspensions Quarterly salary bill of suspended officials are costing the municipality money without the benefit A1 Indicator of service. short name A3 Results-Output chain level The sum of the salary bill for all officials suspended **A8** from work or employment for the municipality for Definition misconduct during the reporting period. Α9 INDICATOR (1) Sum of the salary bill for all suspended officials for A4 Back to GG5.12 Good governance Indicator **ASSIGNMENT Basics** pillar the reporting period. **Formula** A10 A5 Unit of **A6 Frequency** Quarterly Indicator R-value salaries Proposed based on CoGTA departmental consultations measurement of reporting origin This target and performance should be set in relation A12 A11 Notes on The indicator should be reported as a cumulative value over to historic trend data and what is an acceptable cost to **Additional** calculation months within a quarter (not cumulative across quarters). the organisation on a quarterly basis. Ideally, the notes target should be R0, but this is unlikely. Reporting Readiness **Applies to Municipal Category** responsibility Tier 2 Metro Metro Yes (1) Sum of the salary bill for all Human **B1** Data C1 Data C4 suspended **B4 Source** Resources Source Element **Element** officials for the Department reporting period C2 Frequency **B2** Frequency **C5 B5** Units Quarterly R-value salaries of collection Units of collection

C3

Definition

C6 Notes

Sum of the salary bill of all suspended officials for the

reporting period

For suspensions effected from the middle of the month a pro-rata salary rate should apply in the calculation of the

cost to the municipality.

B3 Definition

B6 Notes

	Tec	chnical ir	ndicator	descrip	otion she	et	
		A2 Alignment	Zero tolerance of fraud and		Principles of good a	overnance i	require accountability,
			corruption	A7	clean administration	on and resp	onsible use of public a leading measure of
A1 Indicator	Number of dismissals for fraud and			Rationale			orruption based on
short name	corruption per 100 000 population	A3 Results- chain level	Outcome	A8 Definition	reported to the mu review, normalised Corruption is defin- Combating of Cor Chapter 2(s3) and a within the ambit of	ber of dismissals for fraud and corrupto the municipality during the period unormalised per 100 000 of the population is defined broadly in the Prevention ing of Corrupt Activities Act 12 of 200 ((s3)) and any criminal offence that make ambit of this definition is included for purposes of this indicator.	
INDICATOR ASSIGNMENT	GG5.2	A4 Back to Basics pillar	Good governance	A9 Indicator Formula			raud and corruption / ipality) x 100 000
A5 Unit of measurement	Number of dismissals	A6 Frequency of reporting	Annual	A10 Indicator origin	ISO	0 11.4 deriv	ative
A11 Notes on calculation		None		A12 Additional notes	the other related of should be a predic systems of ac	outcome indictor of conse	d in conjunction with icators of which this equences to follow if are functioning
	orting Isibility	Ар	plies to Munic	cipal Cate	gory	R	eadiness
Sha	red	Me	etro		Yes		Tier 2
B1 Data Element	(1) Number of dismissals for fraud and corruption at the metro	B4 Source	Municipal legal services directorate	C1 Data Element	(2) Population: Number of persons who reside within the municipal boundaries.	C4 Source	StatsSA General Household Survey
B2 Frequency of collection	Annual	B5 Units	Dismissals	C2 Frequency of collection	Annual	C5 Units	Population
B3 Definition	dismissals aris reported to the m the municipality elected office-bes broadly in the Activities Act 12 o offence that may	is a simple count of sing from fraud and conunicipality involving in his/her official caparer or employee). Conversion and Combrevention and Combrevention in Chapter 2(solution in Chapter 3) fall within the ambit the purposes of this	corruption cases a representative of pacity (whether an prruption is defined pating of Corrupt bi3) and any criminal of this definition is	C3 Definition	Number of people	e residing in	the municipal area
B6 Notes	This refers only to year and does n	o dismissals reported not related to conclud nain open from previo	within the financial ed cases or cases	C6 Notes		None	

Technical indicator description sheet									
		A2 Alignment	More effective poverty alleviation						
A1 Indicator short name	Percentage of the municipality's operating budget on free basic services to	A3 Results- chain level	Output	A7 Rationale	Measuring the percental budget spent on free basic of the portion of the budge alleviation and also of finemunicipa		ervices is indicative expended on poverty cial viability of the		
	indigent households	Chain level		A8 Definition	The amount municipal operating budget expended on free basic services to indigent households (R-value) as a percentage of the to operating budget of the municipality for the period.				
INDICATOR ASSIGNMENT	GG6.11	A4 Back to Basics pillar	Building capable local government institutions	A9 Indicator Formula	free basic servi		get expenditure on value of the total t *100		
A5 Unit of measurement	Percentage expenditure	A6 Frequency of reporting	Quarterly	A10 Indicator origin		ed on CoGT. consultation	A departmental s		
A11 Notes on calculation		None		A12 Additional notes		None			
	orting esibility	Арр	lies to Munic	cipal Cate	gory	Ro	eadiness		
Ме	etro	Me	tro		Yes		Tier 1		
B1 Data Element	(1) R-value of operating budget expenditure on free basic services	B4 Source	BAS	C1 Data Element	(2) Total operating budget for the municipality	C4 Source	Annual Budget		
B2 Frequency of collection	Quarterly	B5 Units	R-value	C2 Frequency of collection	Quarterly	C5 Units	R-value		
B3 Definition	expended on free registered wi	ount (R-value) of op basic services to in th the municipality free basic service a	digent households as well as any	C3 Definition	The total amount (R-value) of operating budget of the municipality for the period under review.				
B6 Notes		None		C6 Notes		None.			

	Tec	hnical in	dicator o	descrip	otion she	et		
		A2 Alignment	More effective poverty alleviation	A7	infrastructure progr	ammes are	nrough state funded an important means	
			A3 Results-chain level Output	Rationale	and other state or	gans within	ed by municipalities the municipal area.	
A1 Indicator short name				A8 Definition	The indicator measures the number of work opportunities created through state funded infrastructure programmes such as the Expanded Public Works Programme (administered by the municipality), the Community Works Programme (CWP) (administered by the Department of Cooperative Governance) and any other infrastructure-related work opportunities delivered by state organs within the municipal area.			
INDICATOR ASSIGNMENT	GG6.12	A4 Back to Basics pillar	Building capable local government institutions	A9 Indicator Formula	(1) Number of short-term work opportunities through the municipality for Expanded Public Works Programme + (2) the Number of short-term work opportunities through the Community Works Programme and other related infrastructure initiatives.			
A5 Unit of measuremen t	Number of work opportunities	A6 Frequency of reporting	Quarterly	A10 Indicator origin	CoGTA Back 2 Basics			
A11 Notes on calculation	11 Notes on None			A12 Additional notes	The indicator is a shared reporting responsibility because the work opportunities provided by the CWP and other infrastructure-related programmes delivered by state organs are the reporting responsibilities of non-municipal actors. Municipalities can report on EPWP work opportunities and make use of unverified data for the purposes of quarterly reporting even in the absence of the supply of the CWP work opportunities.			
						ı		
_	orting sibility	App	olies to Munic	cipal Cate	gory	R	eadiness	
Sha	red	Me	etro	Yes			Tier 2	
					(2) Number of		l	
B1 Data Element	(1) Number of short-term work opportunities provided through the municipality for Expanded Public Works Programme	B4 Source	Department of Infrastructure Delivery or related	C1 Data Element	short-term work opportunities provided through the Community Works Programme and other related infrastructure initiatives.	C4 Sourc e	Provincial Department of Local Government and/or Department of Cooperative Governance	
B2 Frequency of collection	Quarterly	B5 Units	Number of work opportunities	C2 Frequenc y of collection	Quarterly	C5 Units	Number of work opportunities	
B3 Definition	through the mu	short-term work opp unicipality for Expand ures can be unverifie for the period.	ded Public Works	C3 Definition	Simple count of short-term work opportunities provided through the municipality for CWP and any other infrastructure-related work opportunities delivered by state organs within the municipal area.		ality for CWP and any work opportunities	
B6 Notes	None C6 Notes There is not yet an agreed reporting prothis data element and so it remains placeholder while municipalities begin reperted. EPWP work opportunities in the interest of the placeholder while municipalities in the interest of the placeholder while municipalities begin reperted.				it remains as a			

5.1 HS 1.1

	Te	chnical	indicator de	escript	ion shee	t		
		A2 Alignment	Improved access to adequate housing	A7 Rationale	households residi with constitutiona	ng in adequ	ase the number of uate housing in line es and the strategic ium term.	
A1 Indicator short name	Percentage of households living in adequate housing	A3 Results- chain level	Outcome	A8 Definition	Adequate housing' has seven elements: legal security of tenure, services, affordability, habitability, accessibility, location and cultural adequacy. For the purposes of this indicator, adequate housing is defined as 'formal' housing in terms of the Statistics South Africa definition used in the General household Survey, which is "A structure built according to approved plans, i.e. house on a separate stand, flat or apartment, townhouse, room in backyard, rooms or flattle elsewhere", thereby excluding informal (whether in ininformal settlement or back yard) and traditional dwellings. The indicator is therefore the number of households residing in formal dwellings as a percentage of the total number of households within the municipality. ((1) Number of households in formal dwellings/			
INDICATOR ASSIGNMENT	HS1.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula				
A5 Unit of measurement	Percentage of households	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments. There is an Outcome 8 indicator labelled 'Number of households living in adequate housing'. This can be seen as the inverse of ISO 37120 indicator 15.1 titled "Percentage of city population living in slums" and the inverse of the MDG indicator 11.1.1 titled "Proportion of urban population living in slums, informal settlements or inadequate housing"			
A11 Notes on calculation			g both a numerator and tsSA General Household	A12 Additional notes		None		
Repo respon	_	A	pplies to Municip	al Catego	ry	R	eadiness	
Nati	onal	ı	Metro		Yes		Tier 1	
B1 Data Element	(1) Number of households that live in formal dwellings	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Total number of households in the municipality	C4 Source	StatsSA General Household Survey	
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequency of collection	Annual	C5 Units	Number of households	
B3 Definition	formal dwelling survey as a stru house on a sep room in backyard	g, defined in the Stat acture built according parate stand, flat or	d 'households' residing in tesSA General Household g to approved plans, i.e. apartment, townhouse, sewhere. Contrasted with tional dwelling.	C3 Definition	This is the total number of households (of all types			
B6 Notes		None		C6 Notes	the survey iten Statistics South Af	n used to ol rica to avoid	bood to be specific to obtain the data by d issues arising from the survey.	

Technical indicator description sheet Improved access to Municipalities accredited to perform some of the **A2 Alignment** adequate housing housing functions are able to construct housing units as part of the national housing programme **A7** using the Human Settlements Development Grant. Rationale Number of subsidised The indicator seeks to track an annual performance output for subsidised housing units constructed by **A1** Indicator housing units completed the metro. short name A3 Results-Output chain level The number of all subsidised housing units (in **A8** terms of minimum levels of service) completed by Definition the metro in the municipal financial year. Α9 **INDICATOR** A4 Back to Simple count of all (1) subsidised housing units Indicator HS1.11 Service delivery **ASSIGNMENT Basics pillar** completed by the metro in the financial year. **Formula** A10 The indicator originates with Outcome 8: Sub-A5 Unit of **A6 Frequency** Number of Annual Indicator outcome 1- Adequate housing and improved quality measurement housing units of reporting origin living environments. There may be other housing units built and A12 completed in the metro by provincial government. A11 Notes on None **Additional** It is important that the number of housing units calculation notes completed refer only to those that the metro has Reporting Applies to Municipal Category Readiness responsibility Metro Yes Tier 2 Metro (1) Number of subsidised **B1** Data Metro department C1 Data C4 housing units **B4 Source** Element responsible for housing **Element** Source completed by the metro. C2 **B2 Frequency** Number of housing Frequency **C5 B5** Units Annual of collection units Units collection The number of all serviced, subsidised housing units (in terms of minimum levels of service) completed by the metro within C3 **B3** Definition the municipal financial year. Excludes provincial housing **Definition** projects. **B6 Notes** As above. **C6 Notes**

Technical indicator description sheet Improved access to A basic level service for the core services of water, **A2 Alignment** electricity and sanitation is a prerequisite for 'adequate housing'. This indicator tracks the number of new sites to which the municipality has **A7** provided a minimum service level for the three Rationale basic services in terms of infrastructure provision (e.g. water, sanitation and electricity). Waste removal is a recurring service that is not based on infrastructure provision to a site and is therefore excluded. A site refers to a pre-determined area where basic services can be provided, there is some degree of security of tenure and to which a household can be Number of formal sites A1 Indicator situated or relocated and/or upgraded. This refers short name A3 Resultsto the number of all sites serviced with new serviced Output chain level connections for all three services of electricity. water and sanitation to a basic level within the municipality in the financial year. These sites do not **A8** include the construction of top structures. A basic Definition level of service is defined as an individual service to each site (not shared) meeting the national minimum standard (the Regulations in terms of the Water Services Act in the case of water and sanitation and the Policy Guidelines for the Integrated National Electrification Programme (INEP) 2016/17 in the case of electricity), or the minimum standards defined by the municipality, whichever is higher. A9 Indicator **INDICATOR** A4 Back to A simple count of all (1) sites serviced with all three HS1.12 Service delivery ASSIGNMENT **Basics pillar** of the basic services. **Formula** The indicator originates with Outcome 8: Suboutcome 1- Adequate housing and improved quality living environments. There is also an Urban A10 A5 Unit of Number of A6 Frequency Settlements Development Grant indicator- Number Indicator Annual measurement serviced sites of reporting of sites currently serviced with electricity, water origin (house connection) sewerage removal service and solid waste removal service (622) which corresponds to this indicator This indicator is also intended to support the realisation of improving access to adequate housing Sites lacking any one of the services, or below the minimum A12 by tracking the three core service A11 Notes on **Additional** standard for that service should be excluded. Communal connections/provisions as a pre-requisite. Serviced calculation servicing of informal settlements should be excluded. notes sites will be provided as part of the national housing programme, but may also be provided by the municipality using the USDG or other funding. Reporting **Applies to Municipal Category** Readiness responsibility Metro Yes Tier 1 Metro Municipal department **B1** Data (1) Number of C1 Data C4 **B4 Source** responsible for servicing Element sites serviced **Element** Source sites C2 Number of serviced **C5 B2 Frequency Frequency** Annual **B5** Units of collection sites of Units collection

B3 Definition	The number of all sites serviced with basic levels of electricity, water, sanitation and refuse removal that do note include the construction of top structures.	C3 Definition	-
B6 Notes	As above.	C6 Notes	-

Frequency of

collection

Annual

B5 Units

Technical indicator description sheet Increased security of **A2 Alignment** tenure Providing security of tenure to inhabitants of informal settlements is integral to the upliftment of communities. Security of tenure provides the household with a fixed asset, surety of location **A7** and the incentive to invest in the incremental Rationale upgrading of their property and wider community. Security of tenure is provided Percentage incrementally, with the first step being of households recognition by the municipality and then **A1 Indicator** targeting for upgrading. in informal settlements short name A3 Results-Outcome chain level targeted for upgrading The number of households living in dwellings in informal settlements that have been designated for permanent in-situ upgrade (ie. NUSP **A8** Definition Category A and B1) as a percentage of all households living in informal settlements within the municipality. ((1)Number of households living in informal **INDICATOR** Α9 A4 Back to settlements targeted for upgrading / (2)Number ASSIGNMEN HS1.3 Service delivery Indicator of households living in informal settlements in **Basics pillar** Formula the metro)*100 The indicator originates with Outcome 8: Suboutcome 1- Adequate housing and improved quality living environments. There is an Outcome 8 indicator labelled 'Number of Percentage of households in A5 Unit of A10 households living in adequate housing'. At the informal A6 Frequency measuremen Annual Indicator output level, there is an Urban Settlements settlements of reporting origin Development Grant Indicator labelled 'Number targeted for of households living in informal settlements upgrading targeted for upgrading', which informs this indicator. All settlements that have designated Category A and B1 in terms of NUSP guidelines, or A definitional issue arises as to whether municipalities are equivalent, should be included in the numerator actually tracking 'dwellings' or 'households' as per the of this indicator. Dwellings in informal definition here. Municipal consultations emphasised **A12** settlements that have not been explicitly A11 Notes on Additional 'households' and so this is retained. As a Tier 2 indicator, categorised as qualifying for in-situ upgrading calculation provision should be made to adjust the unit of notes should not be included in the numerator. This measurement from household to dwelling based on the both incentivises the categorisation of source data. settlements and the provision of security of tenure. Dwelling is used as a proxy for households in the absence of this enumeration. Reporting **Applies to Municipal Category Readiness** responsibility Metro Metro Yes Tier 2 (1) Number (2) Number of of households Enumeration of Enumeration of living in households C4 informal **B1** Data informal settlements C1 Data informal **B4 Source** living in Sourc settlements Element undertaken by Element settlements informal undertaken by municipality targeted for settlements municipality upgrading C2 **B2**

Number of

households

Frequenc

y of

collection

C5

Units

Annual

Number of

households

B3 Definition	The total number of households living in dwellings in informal settlements which have been recognised by the municipality and for which upgrading plans have been developed.		The number of households residing in all informal settlements in the metro.
B6 Notes	This data is already being reported upon in the Section 71 reports being submitted to National Treasury, although it is less well defined.	C6 Notes	This data is already being reported upon in the Section 71 reports being submitted to National Treasury.

B6 Notes

enumerated and classified the value of this indicator is limited

and it should be revised.

5.5 **HS1.31 Technical indicator description sheet** Increased security of Providing security of tenure to inhabitants of **A2 Alignment** informal settlements is integral to the upliftment of tenure communities. By classifying informal settlements according to the UISP the settlements are Number of informal Α7 comprehensively appraised, enumerated and Rationale marked for intervention in the form of upgrade or settlements relocation. This classification is an important preenumerated A1 Indicator requisite for incremental security of tenure on a and classified short name A3 Resultstenure spectrum. (in terms of Output chain level The number of designated informal settlements NUSP or within the municipal area enumerated and classified equivalent according to the NUSP categorisation, or classification) Δ8 equivalent. Enumeration includes the collection of Definition household level data of informal settlement residents, as well as the levels and status of services in the settlement Simple count of the (1) number of informal Α9 INDICATOR settlements enumerated and classified according to A4 Back to HS1.31 Service delivery Indicator ASSIGNMENT the UISP categorisation, or equivalent, in the period Basics pillar **Formula** under assessment. The indicator originates with Outcome 8: Suboutcome 1- Adequate housing and improved quality Number of A10 A5 Unit of **A6 Frequency** living environments. There is an Outcome 8 informal Annual Indicator indicator labelled 'Number of existing informal measurement of reporting settlements origin settlements assessed' and this is a pre-requisite to informal settlement upgrading. Settlements for which only a dwelling count is available should The indicator does not currently distinguish A12 A11 Notes on not be included. Settlements need to have been enumerated between the size of an informal settlement. It Additional and classified according to the NUSP classification, or calculation treats all designated informal settlements equally, notes equivalent, in the financial year in order to be counted. regardless of size. Reporting **Applies to Municipal Category** Readiness responsibility Metro Metro Yes Tier 1 (1) Number of informal settlements enumerated and Metro department **B1** Data C1 Data C4 classified **B4 Source** responsible for informal Element Element Source according to the settlements **UISP** categorisation, or equivalent C2 **B2 Frequency** Number of informal Frequency **B5** Units Annual of collection settlements Units collection The number of designated informal settlements within the municipal area enumerated and classified according to the UISP, **B3** Definition or equivalent classification, within the municipal area in the **Definition** period under assessment. Once all informal settlements in the metro have been

C6 Notes

Technical indicator description sheet

		A2 Alignment	Increased security of tenure		The Upgrading Informal Settlements Programme (UISP) and the process of participatory planning is one of the key Programmes contained in the National	
A1 Indicator short name	Percentage of informal settlements using a participatory approach to planning or implementing upgrading	A3 Results-	Output	A7 Rationale	Housing Code and highly prioritised by National Human Settlements strategic policy. The number of informal settlements identified for participatory upgrading is critical to providing fast-tracked tenure security to households, promoting health and security through the provision of basic necessity infrastructure and services, as well as empowering residents to take control of housing development directly.	
		chain level		A8 Definition	Percentage of informal settlements in which a participatory approach to planning or implementing upgrading is being used. A participatory approach is defined as including the settlement residents, the ward committee and ward councillor in a process in which they are able to influence the development priorities and the settlement layout. Involvement of the ward councillor or ward committee only, or processes that provide information about proposed municipal plans at public meetings do not qualify as participatory processes.	
INDICATOR ASSIGNMENT	HS1.32	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	The number of (1) informal settlements that are in the process of upgrading through participatory planning + (2) settlements which have been identified for future upgrading through participatory planning for which budget has been allocated for participatory processes in the MTREF / (3) the total number of discrete informal settlements within the municipality	
A5 Unit of measurement	Percentage of informal settlements	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with the Upgrading Informal Settlements Programme (UISP) introduced in the Comprehensive Plan for the Development of Sustainable Human Settlements ("Breaking New Ground") which emphasised the participatory nature of upgrading. Part 3 Volume 4 of the Housing Code, which describes this programme, states that "(t)he municipality must demonstrate effective interactive community participation".	
A11 Notes on calculation	application and part of a manuscript control provides				The indicator does not currently distinguish between the size of an informal settlement. It treats all designated informal settlements equally, regardless of size.	

Reporting responsibility		Applies to Municipal Category				Readiness		
Metro		Metro			Yes		Tier 1	
B1 Data Element	(1) Count of informal settlements in the process of upgrading using participatory planning	B4 Source	Metro department responsible for informal settlements	C1 Data Element	(2) A simple count of informal settlements that have been identified for upgrading through participatory planning processes and which have been allocated a budget for this process in the medium term review and expenditure framework.	C4 Source	Municipal medium term review and expenditure framework (MTREF)	
B2 Frequency of collection	Annual	B5 Units	Number of informal settlements	C2 Frequency of collection	Annual	C5 Units	Number of informal settlements	

B3 Definition			ramme phases 1-4 vation specified in	C3 Definition	Participatory planning towards upgrading may be undertaken outside of the Human Settlements programme and therefore may not necessarily be funded through the HSDG or be a UISP project. However for definitional purposes the identified project should be applicable to the policy intent and principles of the UISP programme as contained in the National Housing Code (2009) in order to qualify under this data element.			
B6 Notes	undertaken outside of and therefore may r HSDG or be a UI: purposes the identifi policy intent and p contained in the Nat	not necessarily be fu SP project. However led project should be principles of the UISF	C6 Notes	-				
D1 Data Element	(3) Count of all discrete informal settlements in the municipality	D4 Source	Municipal records	E1 Data Element	-	E4 Source	-	
D2 Frequency of collection	Annual	D5 Units	Number of informal settlements	E2 Frequency of collection	•	E5 Units	-	
D3 Definition	metadata) definit unplanned settlement	nt utilises the StatSA ion of an 'informal si on land that has no dential, consisting m dwellings.	ettlement' : An It been surveyed or	E3 Definition	-			
D6 Notes		-		E6 Notes		_		

B6 Notes

Technical indicator description sheet Improved functionality **A2 Alignment** This indicator is designed to track the creation of of the property market formalised, rateable, residential properties in a metro, relative to the total number of households. As an ongoing indicator it monitors the rate of Rateable formalisation against the rate of household growth Α7 residential properties as in a metro. It further assists in informing financial Rationale sustainability of the metro's rates income and cross subsidisation requirements. The closer the measured A1 Indicator a percentage A3 Resultspercentage is to 100%, the more formal properties short name of total Outcome households in the are available to house the metro population, which chain level is an indication of a functional property market. municipality This indicator measures the total number of formalised residential properties on the municipal **8**A valuation roll at a standard collection time. This Definition number is divided by the total number of households in the municipal area at the same point in time. Α9 ((1)Number of residential properties which are INDICATOR A4 Back to HS2.2 Service delivery Indicator contained on the valuation roll, for all values / **ASSTGNMENT Basics pillar Formula** 2)Total number of households in the metro) x 100 The indicator originates with Outcome 8: Suboutcome 2- A functionally equitable residential Percentage of A10 A5 Unit of property market. There is an indicator that seeks to A6 Frequency rateable Annual Indicator measurement residential of reporting measure the 'Number of rateable origin properties...entering the rates roll of municipalities' properties and this indicator is informed by this. The indicator should be calculated with data element 1 being A12 A11 Notes on Number of households do not correspond directly to collected at the same time as the household survey is conducted Additional calculation number of properties but are used as a proxy. within the municipality. notes Reporting **Applies to Municipal Category** Readiness responsibility **Shared** Yes Tier 1 Metro (1) Number of residential (2) Total number **B1** Data properties C1 Data C4 StatsSA General of households in **B4 Source** Municipal valuation roll **Element** contained on **Element** Source Household Survey the municipality the valuation roll C2 **B2 Frequency** Number of residential Frequency **C5** Number of Annual **R5 Units** Annual of collection property units Units households collection Refers to the number of self-identified 'households' This indicator measures all residential properties captured on the residing in all types of dwellings (inclusive of formal, **C3 B3** Definition municipal valuation roll once per annum, with sectional title informal and traditional dwellings) within the **Definition** properties counted individually municipality identified via the annual household survey

C6 Notes

The date of collection of the total number of rateable residential properties should coincide with the timing of the General

Household Survey

The data element is understood to be generic to the

total number of households within the municipality

and is not linked to a specific survey item.

	Technical indicator description sheet									
				<u> </u>						
A1 Indicator short name	Number of rateable residential properties in the subsidy housing market entering the municipal valuation roll	A2 Alignment A3 Results- chain level	Improved functionality of the property market Output	A7 Rationale	This indicator is designed to track the creation of formalised, rateable, residential properties subsidised by the state in a metro. A rateable residential property receives services from the metro and in return the metro collects revenue. This is an important component of a functional property market since the lack of services inhibit the value of the asset. A metro's financial viability also linked to its rates base. Tracking the formalisation of state subsidised housings onto the municipal valuation roll provides an indication of whether new housings are enhancing the financi viability of the metro and increasing the formal property market in the low-income band. The indicator is defined as the number of housings.					
				A8 Definition	units built within t that benefited fro					
INDICATOR ASSIGNMENT	HS2.21	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	A simple count of (1) all housing units completed within the municipal area using a state subsidy (on the HSS) and entering the municipal valuation roll within the period under assessment.					
A5 Unit of measurement	Number of subsidised residential properties entering the valuation roll	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Suboutcome 2- A functionally equitable residential property market. There is an indicator that seeks to measure the 'Number of rateable propertiesentering the rates roll of municipalities' and this indicator is informed by this at the functional output level.					
A11 Notes on calculation	roll and all con municipal area w Subsidised p	npleted housing units fill be required to det properties are usually	to the municipal valuation on the HSS within the ermine this simple count. It provided with rates red on the valuation roll.	A12 Additional notes	None					
Repo respon	orting sibility	A	pplies to Municip	pal Category Readiness						
Ме	tro	ı	Metro		Yes		Tier 1			
B1 Data Element	(1) Number of new subsidised residential properties completed by the metro entering the municipal valuation roll	B4 Source	Municipal valuation roll	C1 Data Element	-	C4 Source	-			
B2 Frequency of collection	Annual	B5 Units	Number of properties	C2 Frequency of collection	-	C5 Units	-			
B3 Definition	completed by th		residential properties g the municipal valuation assessment.	C3 Definition		-				
B6 Notes	A new subsidised the valuation roll	d housing unit delive	red by the metro entering uld only be counted if the	C6 Notes	-					

	Te	chnical ir	ndicator o	descrip	tion shee	t		
A1 Indicator	Average number of days taken to	number of days		A7 Rationale	time of the reside submitted to the mu of building plan app build new housing v become a detern Removing unnecess to the efficiency of b	This is an efficiency measure of the attime of the residential building plas submitted to the municipality. Delays of building plan applications affect the build new housing within the municipal become a deterrent to property of Removing unnecessary delays or uncto the efficiency of building plan applications and supports a functional property management.		
short name	process residential building plan applications	A3 Results- chain level	Output	A8 Definition	residential building p takes to be processed all required information of the initial adjudication average, per app process appeals o	easures the blan applicated, from the cition to the cation results lication. Except the initial defined as a	municipality. asures the number of days a an application to the municipality d, from the date of submission of on to the date of communication ion results of that application, on cation. Excludes time taken to the initial decision. Residential efined as all residential building	
INDICATOR ASSIGNMENT	HS2.22	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Sum of the number of days between the date of submission of a complete residential building plan application to the municipality and the communication of the adjudication result of the application, for all residential applications in the period of assessment /(2) Number of residential building plan applications adjudicated in the financial year to date			
A5 Unit of measurement	Number of days: Applications	A6 Frequency of reporting	Quarterly	A10 Indicator	The indicator's origin rests with municipalities already tracking this measure of efficiency as it relates to			
A11 Notes on calculation	basis. The quarterly year so that the 4t average processir year. If a building p at the time of repo number of buildin denominator shou	origin building plan application This indicator should ideally be considerable the description of the entire municipal financial in the standard plan application has not been adjudicated and the excluded from the total momentator should be excluded from the total momentator should cover the same period and the same of applications (i.e. residential only, or all applications).					be calculated for f 500 square meters or vailable data relates to building applications of th residential building and should be clarified Procedure of the	
	orting nsibility	Ар	plies to Munic	cipal Categ	jory	F	Readiness	
	etro	Me	etro	Yes		Tier 2		
B1 Data Element	(1) Number of days between submission and adjudication of residential building plan applications	B4 Source	Municipal building plan submission register	C1 Data Element	(2) Number of residential building plan applications adjudicated in the financial year to date	C4 Source	Municipal building plan submission register	
B2 Frequency of collection	Quarterly	B5 Units	Number of days	C2 Frequency of collection	Quarterly	C5 Units	Number of building plan applications	
B3 Definition	Sum of the number of days between the date of submission of a complete residential building plan application of 500 square meters or less to the municipality and the communication of the adjudication result of the application, for all applications in the year to date.			C3 Definition			pplications adjudicated lancial year to date	
B6 Notes	numerator in the course of the muni ideally be calcula square meters or I	ys for all building plar e equation. This is cur icipal financial year. T ted for residential bui ess only, if possible. I ing plan applications, proxy.	mulative over the his indicator should lding plans of 500 f the available data	C6 Notes	The total number is cumulative so the measure of the 4th quarter should provide the measure for the entire financial year. This indicator should ideally be calculated for residential building plans of 500 squar meters or less only, if possible. If the available data relates to all building plan applications, or building applications of a size most often associated with residential building plans, this is an adequate proxy			

	Te	echnical	indicator de	escript	ion sheet	t		
		A2 Alignment	Improved functionality of the property market A7 Rationale		options in a control accessibility and ho	ity are vital usehold ass	ental and ownership component's of set creation. The ratio a lead indicator on	
A1 Indicator short name	Percentage of households living in formal dwellings who rent	A3 Results- chain level	Outcome	A8 Definition	property price dynamics within a city. The total number of all households in the metro which regularly pay a sum of money or provide a service in return for a place of residence to a secon party for the use of residential purposes in formal dwellings as a proportion of all households living in formal dwellings. The tenure status in the General Household Survey will be the sum of the two categories: "1 = Rented from private individual" and "2 = Rented from other (incl. municipality and social housing institutions)".			
INDICATOR ASSIGNMENT	HS2.3	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1)Number of households described as 'renting' in formal dwellings/(2)Total number of households in formal dwellings within the municipal area)*100			
A5 Unit of measurement	Percentage of households in formal dwellings	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 2- A functionally equitable residential property market. There is not currently any indicator that addresses renting but tenure status is regularly collected by StatsSA.			
A11 Notes on calculation	The calculation	includes only housel formal dwellin	nolds listed as residing in gs.	A12 Additional notes		None		
-	orting sibility	A	Applies to Municip	al Catego	egory Readiness			
Nati	onal		Metro	Yes			Tier 1	
B1 Data Element	(1) Number of households in formal dwellings 'renting'	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Total number of households in the municipality	C4 Source	StatsSA General Household Survey	
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequency of collection	Annual	C5 Units	Number of households	
B3 Definition	Refers to the number of self-identified households living in formal dwellings whose tenure status is reflected as either: "1 = Rented from private individual" or "2 = Rented from other (incl. municipality and social housing institutions)". C3 Definition This is the total number of households living in formal, informal, and tradition municipal area of juriscent in the properties of the number of households living in formal dwellings whose tenure status is reflected as either: "1 = Rented from private individual" or "2 = Rented from other (incl. municipality and social housing institutions)".			tional) within the				
B6 Notes	This is a cross-ta	abulation of dwelling surveyed in the	type and tenure status as GHS.	C6 Notes	survey item used South Africa to a	to obtain the	d to be specific to the ne data by Statistics s arising from non- ne survey.	

	Te	chnical	indicator de	script	ion shee	t	
		A2 Alignment	Increased access to and utilisation of social and community facilities	A7	l ·	The provision of adequate recreation or component of enhancing living e	
	Square			Rationale	·	for residen	ts
A1 Indicator short name	meters of municipally owned or maintained public outdoor recreation space per capita	A3 Results- chain level	Outcome	A8 Definition	Square meters of municipally owned or maintaine active outdoor space intended for recreational purposes. Public recreation space is defined broad to mean land and open space available to the public for recreation. Recreation space shall incluonly space that primarily serves a recreation purpose. Includes: parks, outdoor sports facilitie and public open space. Does not include beache resorts and nature reserves. Does not include pedestrianised streets and sidewalks, but may include pedestrian walkways with primarily a recreational purpose. Facilities charging an access fee may still be regarded as 'public' provided that no other access criteria are applied (annual membership fee, club affiliations, etc.).		ed for recreational ace is defined broadly ce available to the on space shall include erves a recreation door sports facilities not include beaches, . Does not include sidewalks, but may so with primarily a scharging an access public' provided that a applied (annual
INDICATOR ASSIGNMENT	HS3.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	Sum of the (1) Square meters of muncipally owned or maintained outdoor recreational area / (2) Total municipal population		
A5 Unit of measurement	Ratio: Area of open space in square meters per capita	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments and is based on the ISO 37120 indicator 13.2 "Square metres of public outdoor recreation space per capita".		
A11 Notes on calculation	counted, exclu slopes. For mu	iding building area, p	or recreation should be parking areas and steep the portion of the land Il be counted.	A12 Additional notes		None	
Repo respon	_	A	pplies to Municip	pal Category Readiness			eadiness
Sha	red	I	Metro	Yes Tier			Tier 2
B1 Data Element	(1) Sum of area of all municipally owned or maintained public open space that is intended for recreational purposes and zoned accordingly.	B4 Source	Metro GIS	C1 Data Element	(2) Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate
B2 Frequency of collection	Annual	B5 Units	m ²	C2 Frequency of collection	Annual	C5 Units	Number of people
	A (tora) of municipally	owned public open crace	C3 Definition Estimated population of the municipality in the year			
B3 Definition			owned public open space purposes and zoned		Estimated population	on of the m	unicipality in the year

	Technical indicator description sheet										
		A2 Alignment	Increased access to and utilisation of social and community facilities				ls in a municipality is				
A1 Indicator short name	Number of community halls per 100 000 population	A3 Results- chain level	Outcome	Rationale A8 Definition	service provided to the community. The number of community halls per 100 000 population. A community hall is defined by the C Guidelines for the Provision of Social Facilities South African Settlements (2012) as a "Centre hall for holding public meetings, training, entertainment and other functions and having variety of facilities such as a kitchen, toilets, stor space, etc. which should be provided at nomin rates for hire, with rentals tied to socio-econon		halls per 100 000 s defined by the CSIR of Social Facilities in 012) as a "Centre or etings, training, ctions and having a schen, toilets, storage provided at nominal				
INDICATOR ASSIGNMENT	HS3.2	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1) Count of co	status of area to provide affordable service." ((1) Count of community halls/ (2) Municipal population) X 100 000					
A5 Unit of measurement	Ratio: Count of community halls per 100 000 population	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments.						
A11 Notes on calculation	Includes grade A=F community halls				None						
	orting isibility	A	Applies to Municip	al Catego	Category Readiness						
Sha	ared	ı	Metro	Yes Ti			Tier 1				
B1 Data Element	(1) Count of community halls	B4 Source	Municipal records	C1 Data Element	(2)Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate				
B2 Frequency of collection	Annual	B5 Units	Number of community halls	C2 Frequency of collection	Annual	C5 Units	Number of people				
B3 Definition	A simple count of community halls, defined as municipally owned enclosed spaces that serve as general meeting spaces for the public. C3 Definition Estimated population of the municipality owned the public.			unicipality in the year							
B6 Notes		No additional no	otes	C6 Notes	None.						

Technical indicator description sheet								
		A2 Alignment	Increased access to and utilisation of social and community facilities	A7			nunicipality is directly	
A1 Indicator	Number of public libraries per			Rationale		e level of this particular service ed to the community.		
	100 000 population	A3 Results- chain level	Outcome	A8 Definition	The number of lil	oraries per	100 000 population	
INDICATOR ASSIGNMENT	HS3.3	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1) Count of libraries/(2) Municipal population) X 100 000			
A5 Unit of measurement	Ratio: Count of libraries per 100 000 population	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments.			
A11 Notes on calculation	Includes	local and regional (re	eference) libraries.	A12 Additional notes	None			
	orting sibility	A	applies to Municip	al Catego	ry	R	eadiness	
Sha	red	ı	Metro		Yes		Tier 1	
B1 Data Element	(1) Count of libraries	B4 Source	Municipal records	C1 Data Element	(2)Total population of the municipality	C4 Source	StatsSA Mid-Year Population Estimate	
B2 Frequency of collection	Annual	B5 Units	Number of libraries	C2 Frequency of collection	Annual	C5 Units	Number of people	
B3 Definition	A simple count	of public libraries, ac public	ccessible by the general	C3 Definition	Estimated population of the municipality in the year			
B6 Notes		No additional n	otes	C6 Notes		None.		

	Te	chnical	indicator de	escript	ion shee	t		
		A2 Alignment	Increased access to and utilisation of social and community facilities	A7			of the supply and	
	Percentage			Rationale	demand for community facilities. It can be used to inform planning and performance of facilities.			
A1 Indicator short name	utilisation rate of community halls	A3 Results- chain level	Outcome	A8 Definition	community halls th		of available hours across all that are booked in a year.	
INDICATOR ASSIGNMENT	HS3.5	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Sum of hours booked across all community halls in the period of assessment / (2) Sum of available hours for all community halls in the period of assessment			
A5 Unit of measurement	Percentage of hours of community hall bookings	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments.			
A11 Notes on calculation			available hours should still der to incentivise booking n place.	A12 Additional notes	None			
_		1						
	rting sibility	A	pplies to Municip	al Catego	ry	R	eadiness	
Me	tro	ı	Metro		Yes Tier 2			
				L		L		
B1 Data Element	(1) Sum of hours booked across all community halls in the period of assessment	B4 Source	Municipal records	C1 Data Element	(2) Sum of available hours for all community halls in the period of assessment.	C4 Source	Municipal records	
B2 Frequency of collection	Annual	B5 Units	Number of hours	C2 Frequency of collection	Annual	C5 Units	Number of hours	
B3 Definition	The total number	r of hours public com for use.	nmunity halls are reserved	C3 Definition	Sum of the total number of possible booking hours for all community halls/centres			
B6 Notes	an integrated mu these vary signi	ınicipal record syster	t would be collected from m. However it is likely that netros. Whatever booking ould be included.	C6 Notes	each facility is ab	le to be bo	ed on the hours that oked. The available Ils should then be	

Technical indicator description sheet								
		A2 Alignment	Increased access to and utilisation of social and community facilities		Utilisation rate is indicative of the sup demand for community facilities such as			
A1 Indicator short name	Average number of library visits per library	ber of y visits	A7 Rationale		can be used to inform planning and performance of facilities. The number of visits is a direct measure of utilisation, whether to access books or to use the space for one of its other community functions.			
		chain level	G G G G G G G G G G G G G G G G G G G	A8 Definition	The average numb	oer of library year.	visits per library per	
INDICATOR ASSIGNMENT	HS3.6	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Total number of library visits / (2)Count of libraries			
A5 Unit of measurement	Number of visits per library per year	A6 Frequency of reporting	Annual	A10 Indicator origin	The indicator originates with Outcome 8: Sub- outcome 1- Adequate housing and improved quality living environments.			
A11 Notes on calculation		None		A12 Additional notes		None		
Repo respon		A	pplies to Municip	al Catego	ry	R	eadiness	
Ме	tro	ı	Metro	Yes Tier		Tier 1		
B1 Data Element	(1) Total number of library visits	B4 Source	Municipal records	C1 Data Element	(2) Count of libraries	C4 Source	Municipal records	
B2 Frequency of collection	Annual	B5 Units	Number of visits	C2 Frequency of collection	Annual	C5 Units	Number of libraries	
B3 Definition	doors, as measu	red by turnstyles or	sing through the library electronic counters, and s place on entry and exit, ss.	C3 Definition	A simple count of public libraries, accessible by the general public			
B6 Notes		-		C6 Notes	No	additional ı	notes	

6.1 TR1.12

Technical indicator description sheet								
		A2 Alignment	Modal shift from private to public transport and NMT	The progressive roll-out of scheduled public transport services to existing residential areas is a critical determination.			existing or new	
				A7 Rationale	availability and convenience, thus modal shift. Measuring the addition of transport access points is one way of determining whether municipal public transport networks are being expanded.			
A1 Indicator short name	Number of scheduled public transport access points added	A3 Results- chain level	Output	A8 Definition	which have been of in terms of the responsibilities (stations). A sche or multi-modal in City's approved Network, and which public transports frequency of 30 morning peak. T functional response	nsport access points and are operational lity's functional ing commuter rail c transport service RT station, taxi rank forming part of the Public Transport access to a scheduled a minimum service uring the workday oint should be the the municipality, rail stations in this		
INDICATOR ASSIGNMENT	TR1.12	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Simple count of scheduled public transport access points added			
A5 Unit of measurement	Number of scheduled access points	A6 Frequency of reporting	Annual	A10 Indicator origin	SDF 11.2, COGTA B2B Level 2 Indicators (155)			
A11 Notes on calculation	Measure	ed as at the end of the	ne financial year.	A12 Additional notes	None			
Repo respon		A	pplies to Municip	al Category Readine			eadiness	
Ме	tro	ı	Metro		Yes		Tier 1	
	(1) Scheduled							
B1 Data Element	public transport service access points added	B4 Source	City GIS	C1 Data Element	-	C4 Source	-	
B2 Frequency of collection	Annual	B5 Units	Number of scheduled public transport access points	C2 Frequency of collection	-	C5 Units	-	
B3 Definition	a BRT station, t part of the Ci Network, and v transport servi minutes during should be the	axi rank or multi-mo ity's approved Integi which provides acces ice with a minimum the workday mornin functional responsib	access point is defined as dal interchange forming rated Public Transport is to a scheduled public service frequency of 30 g peak. The access point lity of the municipality, rations in this instance.	C3 Definition	-			
B6 Notes		None.		C6 Notes		-		

	Technical indicator description sheet								
	Number of weekday		Reduced travel time	A7 Rationale	The number of scheduled passenger trips per weekday is a common and core indicator of the performance of the public transport system, whi in turn is critical to modal shift and reduction ir overall travel time.		ore indicator of the asport system, which ift and reduction in		
A1 Indicator short name	scheduled municipal bus passenger trips	A3 Results- chain level	Output	A8 Definition	The number of	passenger trips on scheduled ces, based on fare collection, per weekday.			
INDICATOR ASSIGNMENT	TR3.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	Sum total of (1) the number of passenger trips on scheduled municipal bus services on weekdays				
A5 Unit of measurement	Number of daily trips	A6 Frequency of reporting	Annual	A10 Indicator origin	ISO 18.3 and variation on Public Transport Performance Indicator 79. Annual number of passenger trips is an established performance metric for annual reporting by public transport services.				
A11 Notes on calculation	Measure	ed as at the end of th	ne financial year.	A12 Additional notes Additional notes Excludes minibus taxis, who do not goverifiable ticket sale data. This function indicator gauges the route coverage, freefficiency of public transport network. It to the more technically accurate but prindicator looking only at theoretical system which is based on arbitrary seat turn assumptions. The coverage, frequer efficiency of public transport netwo		is functional output erage, frequency and atwork. It is preferred ate but problematic tical system capacity, ry seat turnover e, frequency and			
-	orting sibility	Δ	Applies to Municip	al Catego	Category Readiness		eadiness		
Me	tro	ı	Metro	Yes			Tier 2		
B1 Data Element	(1) The number of bus passenger trips on scheduled municipal bus services on weekdays	B4 Source	City Transport	C1 Data Element	-	C4 Source	-		
B2 Frequency of collection	Annual	B5 Units	Number of bus passenger trips	C2 Frequency of collection	-	C5 Units	-		
B3 Definition			ps on scheduled municipal llection on weekdays	C3 Definition	-				
B6 Notes		blic transport that do t day and excludes w	pes not generate verifiable veekend trips.	C6 Notes		-			

Technical indicator description sheet								
		A2 Alignment	Improved satisfaction with municipal bus services	A7			us service on-time	
	Percentage of	Percentage of		Rationale		performance indicator indicates the reliability of the service, and directly impacts on the productivity and thus earnings potential of the commuter.		
A1 Indicator short name	scheduled municipal bus services 'on time'	A3 Results- chain level	Output	A8 Definition	service arrivals on- to the time at which a determination of event that a municij does track 'dep substituted uniform be specified in the S	time, per ye n the bus is of whether it pality does it partures', de aly across th	uled municipal bus ear. 'Scheduled' refers expected to arrive as t is 'on-time'. In the not track 'arrivals', but epartures may be e TID but this should perating Procedure for or.	
INDICATOR ASSIGNMENT	TR4.21	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula		ous arrivals ed bus arriv	on time / (2) Total als) x 100	
A5 Unit of measurement	Percentage of scheduled bus services reporting to municipalities	A6 Frequency of reporting	Annual	A10 Indicator origin	SDG 11.2 Provide access to safe, affordable and sustainable public transport for all, improving road safety, notably by expanding public transport			
A11 Notes on calculation	Measured as at the end of financial reporting period			A12 Additional notes	This only refers to buses within the municipal fleet.			
-	orting Isibility	<u> </u>	Applies to Municip	al Category Readiness			eadiness	
Me	tro	ı	Metro	Yes		Tier 2		
B1 Data Element	(1) Scheduled bus arrivals on time	B4 Source	Bus operator performance reports to municipalities. Municipal Transport department/entity.	C1 Data Element	(2) Total scheduled bus arrivals	C4 Source	Bus operator performance reports to municipalities	
B2 Frequency of collection	Annual	B5 Units	Number of arrivals	C2 Frequency of collection	Annual	C5 Units	Number of arrivals	
B3 Definition	The number of so is defined as or	cheduled bus services n or before the sched minute.	s arriving on time. On time duled arrival time, to the	C3 Definition	The total scheduled bus arrivals planned within the municipality over the entire reporting period.			
B6 Notes	does track 'depart across the TID	tures', departures ma	es not track 'arrivals', but ay be substituted uniformly pecified in the Standard the indicator.	C6 Notes	'arrivals', but doe may be substituted should be specif	s track 'dep uniformly a	ality does not track artures', departures cross the TID but this tandard Operating indicator.	

Technical indicator description sheet Improved access to Providing universally accessible public transport **A2 Alignment** services integrated with universally accessible NMT public transport and paths is an important contributor to public transport access. Upgrading buses for universal accessibility is an important step towards improving travel activity A7 Rationale by persons who have a disability. The indicator tracks the percentage of the municipal fleet that are Percentage of accessible for low-entry. This serves as a proxy for scheduled **A1** Indicator citizens actually accessing universal access services, municipal which is an assumption best tested via means of an short name buses that are A3 Results-Output evaluation low-entry chain level The number of operational, scheduled municipal buses in the municipal fleet that have low entry **A8** access, as a percentage of the total number of Definition buses in the municipal fleet. The municipal fleet is considered inclusive of both municipality-owned and municipality-contracted bus services. Α9 ((1) Number of buses that have low floor entry / (2) Total number of buses in the municipal fleet) * 100 **INDICATOR** A4 Back to TR5.21 Service delivery Indicator ASSIGNMENT Basics pillar **Formula** A10 A5 Unit of Percentage of **A6 Frequency** Indicator SDG 11.2, CCT Universal Access Policy Annual measurement buses of reporting origin The total municipal fleet includes all buses for which **A12** A11 Notes on the municipality is ultimately responsible, while the Additional None. calculation low-entry buses refer only to those that are notes operational and scheduled at the time of calculation. Reporting **Applies to Municipal Category** Readiness responsibility Metro Metro Yes Tier 1 (2) Total number (1) Number of **B1** Data C1 Data C4 of buses in the buses that have **B4 Source** City Transport City Transport Element **Element** Source municipal fleet low floor entry C2 **B2** Frequency Frequency **C5** Annual **B5** Units Number of buses Annual Number of buses of collection of Units collection Number of buses that have low floor entry. Low floor entry is considered indicative of universal access. Buses include only Number of buses which are operated by the **C3 B3** Definition those that are operational and scheduled for service. This municipality or companies contracted to the Definition includes part of the municipality-owned fleet or part of those municipality provided by companies contracted by metro to provide service. The municipal fleet is considered inclusive of all **B6 Notes C6 Notes** Refers to operational buses only. municipality-contracted buses.

	T	echnical	indicator de	script	ion sheet			
		A2 Alignment	Improved quality of municipal road network					
A1 Indicator short name	Percentage of unsurfaced road graded	A3 Results-	Output	A7 Rationale		unsurfaced of municip	I roads increases the al roads	
	3	chain level		A8 Definition			ad which has been erall unsurfaced road	
INDICATOR ASSIGNMENT	TR6.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1) Kilometers of municipal road graded / (2) Kilometers of unsurfaced road) * 100			
A5 Unit of measurement	Percentage of unsurfaced road network, by length	A6 Frequency of reporting	Annual	A10 Indicator origin	SDG 11.2 Provide access to safe, affordable and sustainable public transport for all, improving road safety, notably by expanding public transport			
A11 Notes on calculation	period, cumulat	e end of financial reporting ancial year. However, the start of the financial year.	A12 Additional notes		None			
-	orting Isibility	A	Applies to Municip	al Category Readines			eadiness	
Me	etro	ı	Metro	Yes		Tier 1		
B1 Data Element	(1) Kilometers of municipal road graded	B4 Source	City Transport	C1 Data Element	(2) Kilometers of unsurfaced road network	C4 Source	City transport dept.	
B2 Frequency of collection	Annual	B5 Units	Km of road	C2 Frequency of collection	Annual	C5 Units	Km of road	
The distance (in KMs) of unsurfaced municipal road (class 3-5) which has been graded. This includes road that has only been graded once in the entire financial year.			C3 Definition	The total length of the municipal road network classified as unsurfaced in km				
B6 Notes		at the end of the final ulative for the entire	ncial reporting period as financial year.	C6 Notes	Measured as at th	e start of th period.	e financial reporting	

	Technical indicator description sheet										
		A2 Alignment	Improved quality of municipal road network								
	Percentage of surfaced municipal			A7 Rationale		naintenance of municipal roads increases the safety of roads					
A1 Indicator short name	road lanes which has been resurfaced and resealed	A3 Results- chain level	Output	A8 Definition	The distance of surfaced municipal road lanes (cla 3-5) in kilometres which has been resurfaced and resealed in terms of the total network length. Tot network length is measured on a per lane basis, a road that is four-lanes wide for 1 km has a total network length of 4kms for the purpose of this indicator.						
INDICATOR ASSIGNMENT	TR6.12	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	and resealed / (2)	((1) Kilometers of municipal road lanes resurfaced and resealed / (2) Kilometers of surfaced municipal road lanes) * 100					
A5 Unit of measurement	Percentage of surfaced road lanes	A6 Frequency of reporting	Annual	A10 Indicator origin	SDG 11.2 Provide access to safe, affordable and sustainable public transport for all, improving road safety, notably by expanding public transport						
A11 Notes on calculation	financial reporting	g period, cumulative	neasured as at the end of for the financial year. The the network length at the al year.	A12 Additional notes	None						
Repo respon	orting sibility	A	applies to Municip	al Catego	ry	R	eadiness				
Me	tro	ı	Metro		Yes		Tier 1				
B1 Data Element	(1) Kilometers of municipal road lanes resurfaced and resealed	B4 Source	City Transport	C1 Data Element	(2) Kilometers of surfaced municipal road lanes	C4 Source	City transport dept.				
B2 Frequency of collection	Annual	B5 Units	Km of road	C2 Frequency of collection	Annual	C5 Units	Km of road				
B3 Definition	`	(Ms) of surfaced mur	nicipal road lanes (class 3- ed and resealed	C3 Definition			ength of road lanes ed in km.				
B6 Notes	Measured as a		ncial reporting period as	C6 Notes	classified as surfaced in km. Measured as at the start of the financial reporting period.						

7.1 WS1.1

Technical	indicator	descript	ion sheet

	1,0	cillical	illulcator de	Script	ion snee	<u>. </u>		
			Improved access to					
A1 Indicator short name Percentage of households with access to basic		A2 Alignment A3 Results-	sanitation		development which having access the dedicated basic se was initiated in backlogs. The tan Africa to have sanitation facility be not met and a ne	n has result to basic san ervices deve 1994 to era get was for access to a y 2014. This w target da	nistory of separate ed in many areas not itation services. A lopment programme dicate the historic all people in South functioning basic is target was however te of 2019 has been in Term Strategic	
	sanitation	chain level		A8 Definition	toilet facility that basic sanitation of municipality. Mir defined as a either and/or flush toilet	meets mini out of all ho nimum stand a flush toild	ccessing ("using") a mum standards for useholds within the dards are currently et (sewerage system) x), and/or a pit toilet tion (VIP).	
INDICATOR ASSIGNMENT	WS1.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1) Number of households using a flush toilet (connected to sewerage system) + (2) Number of households using a flush toilet (with septic tank) + (3) Number of households using pit toilets with ventilation (VIP) / (4) Total number of households in the municipality) * 100.			
A5 Unit of measurement	Percentage of households	A6 Frequency of reporting	Annual	A10 Indicator origin	MTSF Outcome 9- Sub-outcome Members of society have sustainable and reliable access to basic services MBI indicator			
A11 Notes on calculation					The MBI code for this performance indicator is SD127.			
	orting sibility	A	pplies to Municip	al Catego	ry	R	eadiness	
National		ı	Metro		Yes		Tier 1	
B1 Data Element	(1) Number of households using a flush toilet (connected to	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Number of households using a flush toilet (with septic tank)	C4 Source	StatsSA General Household Survey	

	sewerage system)							
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequency of collection	Annual	C5 Units	Number of households with access to flush toilets (with septic tank).	
B3 Definition	Number of househ	nolds with access to a sewerage syste	C3 Definition	Number of households with access to flush toilets (with septic tank).				
B6 Notes	None.			C6 Notes	None.			
				<u>'</u>				
D1 Data Element	(3) Number of households using a pit toilet with ventilation (VIP)	D4 Source	StatsSA General Household Survey	E1 Data Element	(4) Total number of households in the municipality	E4 Source	StatsSA General Household Survey	
D2 Frequency of collection	Annual	D5 Units	Number (No.) of households	E2 Frequency of collection	Annual	E5 Units	Households	
D3 Definition	Number of households with access to pit toilets with ventilation (VIP).			E3 Definition	This is the total number of households (of all ty - formal, informal, and traditional) within the municipal area of jurisdiction			
D6 Notes	None.			E6 Notes	survey item used South Africa to	to obtain th	d to be specific to the ne data by Statistics arising from none survey.	

	Technical indicator description sheet										
A1 Indicator short name new	Number of new sewer connections meeting minimum A2 Alignment A3 Results-chain level	Improved access to sanitation Output	A7 Rationale	development which having access to dedicated basic see was initiated in backlogs. The tar Africa to have a sanitation facility by not met and a new	nistory of separate ed in many areas not itation services. A lopment programme dicate the historic all people in South functioning basic s target was however te of 2019 has been m Term Strategic						
	minimum standards	Chain level		A8 Definition	The total number of new sewer connect (defined as connections to a flush toilet to to the sewerage system or a septic tank of toilet) made as part of state-subsidised has settlements development. This is inclusive sewer connections to communal facilities the basic sanitation standards.		lush toilet connected septic tank or a VIP -subsidised human is is inclusive of new al facilities that meet				
INDICATOR ASSIGNMENT	WS1.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	The (1) number of new sewer connections to consumer units + (2) the number of new sewer connections to communal toilet facilities.						
A5 Unit of measurement	Number of sewer connections	A6 Frequency of reporting	Quarterly	A10 Indicator origin	IWA aligned indicator MBI indicator						
A11 Notes on calculation	sewer connection	ons to either of the f	requirements) includes ollowing: (1) Flush toilet t (septic tank) or a (3) pit on pipe.	A12 Additional notes	The indicator measures connections and not the total number of delivery points (toilets) that may benefit from a single connection.						
		<u> </u>									
_	rting sibility	A	pplies to Municip	al Catego	ry	R	eadiness				
Me	tro	ı	Metro		Yes		Tier 1				
B1 Data Element	(1) Number of new sewer connections to consumer units	B4 Source	WSA	C1 Data Element	(2) Number of new sewer connections to communal toilet facilities.	C4 Source	WSA				
B2 Frequency of collection	Quarterly	B5 Units	Number of sewer connections	C2 Frequency of collection	Quarterly	C5 Units	Number of sewer connections				
B3 Definition	Total number of new sanitation connections to consumer units meeting basic standards (defined as connections to a flush C3 Total number of new sanitation con communal toilet facilities meeting base			eting basic sanitation te-subsidised human							
B6 Notes	and not the tota		ctions per consumer unit points (toilets) that may connection.	C6 Notes	the total number	of delivery	connections and not points (toilets) that le connection.				

				<u> </u>				
A1 Indicator short name	Percentage of households with access to basic water supply	households with access to		Improved access to water	A7 Rationale	development whi areas not having A dedicated b programme was the historic back people in South functioning basis target was howe date of 2019 ha	ch has resu access to b asic service initiated in klogs. The t a Africa to h c water sup ver not met is been set,	istory of separate leted in many rural asic water supply. If sevelopment 1994 to eradicate arget was for all leave access to a ply by 2014. This and a new target as per the 2014. Framework.
		chain level	Outcome -	A8 Definitio n	water supply, def source of drinkir inside dwelling/ho yard, and/or pi	ined as the ng water is ouse, piped	ith access to basic household's main piped (tap) water (tap) water inside to a community m.	
INDICATOR ASSIGNMEN T	WS2.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of households with the main source of drinking water (1) piped (tap) water inside dwelling/institution + (2) Number of households with the main source of drinking water piped (tap) water inside yard + (3) Number of households with the main source of drinking water piped (tap) water on community stand: distance less than 200m from dwelling/institution / (4) Total number of households in the municipality * 100			
A5 Unit of measuremen t	Percentage of households	A6 Frequency of reporting	Annual	A10 Indicator origin	MTSF Outcome 9- Sub-outcome Members of society have sustainable and reliable access to basic services MBI indicator			
A11 Notes on calculation	(3) Access to water: Piped (tap) water on community stand:				The MBI code for	this perfor SD126.	mance indicator is	
	orting	Δι	pplies to Municip	al Catego	orv	Re	eadiness	
	nsibility ional		Metro		Yes		Tier 1	
1100	.iviiui	<u> </u>	метго				1101 1	
B1 Data Element	(1) Number of households with the main source of drinking water	B4 Source	StatsSA General Household Survey	C1 Data Element	(2) Number of households with the main source of	C4 Sourc e	StatsSA General Household Survey	

	(1) piped (tap) water inside dwelling/institutio n				drinking water piped (tap) water inside yard					
B2 Frequency of collection	Annual	B5 Units	Number of households	C2 Frequenc y of collection	Annual	C5 Units	Number of households			
B3 Definition	Number of househo (1) piped (ta	olds with the main sap) water inside dw	C3 Definitio n	Number of households with the main source or drinking water piped (tap) water inside yard						
B6 Notes		None.	C6 Notes	None.						
D1 Data Element	(3) Number of households with the main source of drinking water piped (tap) water on community stand: distance less than 200m from dwelling/institutio	D4 Source	StatsSA General Household Survey	E1 Data Element	(4) Total number of households in the municipality	E4 Sourc e	StatsSA General Household Survey			
D2 Frequency of collection	Annual	D5 Units	Number of households	E2 Frequenc y of collection	Annual	E5 Units	Households			
D3 Definition		olds with the main so on community sta m from dwelling/in	E3 Definitio n	This is the total number of households (of types - formal, informal, and traditional) with the municipal area of jurisdiction						
D6 Notes		None.		E6 Notes	to the survey ite Statistics South	m used to o Africa to av	tood to be specific obtain the data by void issues arising ng the survey.			

Technical indicator description sheet Improved access to **A2 Alignment** water South Africa comes from a history of separate development which has resulted in many rural areas not having access to basic water supply. A dedicated basic services development programme was initiated in 1994 to eradicate the historic **A7** Rationale backlogs. The target was for all people in South Africa to have access to a functioning basic water **Number of** supply by 2014. This target was however not met new water and a new target date of 2019 has been set, as per A1 Indicator connections the 2014 Medium Term Strategic Framework. short name meeting A3 Results-Output minimum chain level standards Total number of new water connections meeting minimum standards (supply of water is Piped (tap) water inside dwelling/institution, Piped (tap) water inside yard, and/or Community stand: <200 m) as **A8** part of state-subsidised human settlements Definition development. This is inclusive of new water connections to communal facilities that meet minimum standards. A9 Indicator The (1) number of new water connections to piped INDICATOR A4 Back to Service delivery WS2 11 (tap) water + (2) number of new water connections **ASSIGNMENT Basics pillar Formula** to public/communal taps Number of A10 A5 Unit of A6 Frequency IWA aligned indicator water Quarterly Indicator MBI indicator measurement of reporting connections origin Acceptable water meeting minimum standards includes access A12 The indicator measures connections and not the A11 Notes on to either of the following: (1) Piped (tap) water inside **Additional** total number of delivery points (taps) that may calculation dwelling/institution, (2) Piped (tap) water inside yard, and/or notes benefit from a single connection. (3) Community stand: <200 m. Reporting **Applies to Municipal Category** Readiness responsibility Tier 1 Metro Metro Yes (1) Number of (2) Number of new water new water C1 Data **B1** Data C4 connections to **B4 Source** WSA connections to WSA Element Source **Element** piped (tap) public/communal facilities water C2 **B2 Frequency** Number of water Frequency **C5** Number of water Quarterly **B5 Units** Quarterly of collection connections of Units connections collection Total number of new water connections to piped (tap) water as Total number of new water connections to part of state-subsidised human settlements development. This **C3 B3** Definition public/communal taps as part of state-subsidised is inclusive of piped (tap) water in the dwelling/institution or in Definition human settlements development. the yard. The data element measures connections and not

C6 Notes

the total number of delivery points (taps) that may benefit from a single connection.

This does not include borehole water or water in a neighbours

B6 Notes

		A2 Alignment	Improved quality of water and sanitation services		to-day activities nece infrastructure and ec	tenance typically includes the day- ssary for the water services system juipment to perform their intended applish this, the municipality must		
A1 Indicator short name	Frequency of sewer blockages	A3 Results- chain level	Outcome	A7 Rationale	operate the systems and equipment responsibly and maintain them properly. Maintaining infrastructure in sound condition is a key element of providing sustainable municipal services. If a poor maintenance regime is followed, an asset may not reach its design life and will have to be replaced early. Since 1994 the focus of Government has been on the provision of basic water and sanitation infrastructure. The effective operation and maintenance of this infrastructure is an essential part of service delivery that has been much neglected. An assessment of 1689 water schemes found that at least 10% were dysfunctional, while a further 20 to 24% were experiencing serious water security problems, and 48% needed urgent refurbishment. Functionality issues can mostly be ascribed to poor management. In order to ensure long term effective water services delivery, an asset management approach must be followed.			
				A8 Definition	length per year. Blo logged blockages tha flow which may be ca	es in sewers per 100km of sewer ckages are defined as reported or it result in an obstruction of system aused by roots, obstructive items or pipeline disruption.		
INDICATOR ASSIGNMENT	WS3.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of blockages in sewers that occurred during the assessment period / [(2) Total sewer length at the reference date/100]			
A5 Unit of measurement	Number of blockages	A6 Frequency of reporting	Annual	A10 Indicator origin		IWA indicator MBI indicator		
Pumping station blockages shall not be included. Include blockages only where these are the responsibility of the wastewater undertaking entity. This PI may be assessed for periods shorter than one year, but it is recommended that it be used only where data for the variables have been collected for at least a year. Where it has been used for shorter time periods, special consideration is required when used for comparisons, either internal or external to the undertaking.			A12 Additional notes	The IWA code for this performance indicator is wOp34. The MBI code for this performance indicator is OM5. MBI formula: OM5 (%) = wD38 / (wC1/100)				
Reporting Applies to Municipal Responsibility					ory	Readiness		
Me	etro	Me	etro		Yes	Tier 1		

B1 Data Element	(1) Number of sewer blockages (wastewater)	B4 Source	WSA	C1 Data Element	(2) Total sewer length (wastewater) in KMs	C4 Source	WSA
B2 Frequency of collection	Annual	B5 Units	Number sewer blockages	C2 Frequency of collection	Annual	C5 Units	KMs of sewers
B3 Definition	Number of block	ages that occurred in assessment period.	C3 Definition	Total length of sewers managed by the undertaking entity at the reference date. Service connections are excluded.			
B6 Notes	The MBI code to Pumping station blockages in serv	for this performance in for this performance in blockages shall not be ice connections only w of the wastewater und	dicator is wD38. included. Include there these are the	C6 Notes	The IWA code for this performance indicator is The MBI code for this performance indicator is It does not include lengths associated with proconnection sewers or conduits carrying treated e		

	Techn	ical inc	licator (descri	ption she	eet		
		A2 Alignment	Improved quality of water and sanitation services		Service quality or customer satisfaction is measured through customer surveys and the monitoring of complaints/ protests, continuity of supply, affordability and service level indicators. Municipalities face significant challenges as they strive to increase the quality and manage the cost			
A1 complaints/callo	(sanitation/	A3 Results- chain level	Output	A7 Rationale	of services to the protests have become African life. Poor sufficial to attract I and will limit job. Protest and unressufacing to percesuincome from service running a banknon grants. Resolvir	ir customer ome a regul services can business or o opportunit t is bad for eptions of in ces, the mu upt business on these characteristics.	s. Service delivery ar feature of South therefore make it industry to an area ies for residents. the local economy, stability. Without nicipality will either s or be highly reliant allenges thus brings	
				A8 Definitio n	direct economic benefits to a municipality Percentage complaints/callouts (outages log with the municipality) responded to within hours (sanitation/wastewater). Responded means that someone is on site and has initiat process of resolving the matter within 24 ho This does not mean the complaint/callout w resolved, only that the matter was logged appraised and responded to within 24 hours notification.			
INDICATO R ASSIGNME NT	WS3.11	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of complaints/callouts (outages logged on the municipal system) responded to within 24 hours (sanitation/wastewater)/ (2) Total wastewater/sanitation complaints/callouts received * 100			
A5 Unit of measurem ent	Percentage of outages	A6 Frequency of reporting	Annual	A10 Indicator origin	MBI indicator IWA aligned indicator			
A11 Notes on calculation	Measured at the end of have manual systems a difficult to verify initi progress this indicator to than 'respo	and measuremen ally. There are as	ts but may be spirations to esolution' rather	A12 Addition al notes	The IWA code for this performance indicator i wQS27. Formula: wQS27 (%) = wF20 / wF12 x 100. The MBI code for this performance indicator i SD124. Formula: SD124 (%) = wF20 / wF12 x 100. A suggestion was made to include a measure interruptions.			
Reportin	g responsibility	Арр	lies to Mur	nicipal Ca	tegory	R	eadiness	
	Metro	Me	tro		Yes		Tier 2	
					(2) T : :	and the same of th		
B1 Data Element	(1) Number of callouts/complaints responded to within 24 hours (sanitation/ wastewater)	B4 Source	WSA	C1 Data Element	(2) Total number of complaints/callou ts (sanitation/waste water)	C4 Source	WSA	
B2 Frequency of collection	Annual	B5 Units	Number of sanitation/wa stewater service complaints responded to	C2 Frequenc y of collectio n	Annual	C5 Units	Number of sanitation/waster water service complaints/callout s logged	
B3 Definition	Total number of compla 24 hours relating to we during the assessment direct, telephone, and them from the time of confirming an on site a	performance, ble includes all ats and tracks ntil a response	C3 Definitio n	complaints of qua	lity of servi	ne, and written ce logged with the essment period.		

The IWA code of this data element is wF20.
The MBI code of this data element is wF20.
The MBI code of this data element is wF20.
The MBI code for this data element is wF12.
The MBI code for this data element is wF12.

Technical indicator description sheet Improved quality of Operations and maintenance typically includes **A2 Alignment** water and sanitation the day-to-day activities necessary for the water services system infrastructure and services equipment to perform their intended function. To accomplish this, the municipality must operate the systems and equipment responsibly and maintain them properly. Maintaining infrastructure in sound condition is a key element of providing sustainable municipal services. If a poor maintenance regime is followed, an asset may not reach its design life and will have to be replaced early. Since 1994 Α7 the focus of Government has been on the Rationale provision of basic water and sanitation infrastructure. The effective operation and maintenance of this infrastructure is an essential part of service delivery that has been Frequency of water mains A1 Indicator much neglected. An assessment of 1689 water short name schemes found that at least 10% were A3 Resultsfailures Outcome dysfunctional, while a further 20 to 24% were chain level experiencing serious water security problems, and 48% needed urgent refurbishment. Functionality issues can mostly be ascribed to poor management. In order to ensure long term effective water services delivery, an asset management approach must be followed. Number of water mains failures per 100km of mains pipe per year. "Mains" refers to all **8**A transmission and distribution pipes for water, Definition the ownership of which is vested in the municipality for the purpose of conveying water to consumers. (1) Number of water mains failures during the Α9 **INDICATOR** A4 Back to assessment period (including failures of valves WS3.2 Service delivery Indicator and fittings) / [(2)Total mains length in KMs/ **ASSIGNMENT Basics pillar** Formula 1001 A10 A5 Unit of Number of **IWA** indicator A6 Frequency Indicator Annual mains failures MBI indicator of reporting origin It is recommended that this indicator is not assessed for periods shorter than one year, since it may lead to misleading conclusions. If a shorter assessment period cannot be avoided, special care is required in result The MBI code for this performance indicator is interpretation. External comparisons on such time bases OM4. must be avoided. If mains failures are to be used for Formula: $OM4 = D28 / C8 \times 100$ Δ12 A11 Notes on regulating objectives, the use of a complementary indicator, Additional calculation similar to IWA Op31 but excluding failures by third parties The IWA code for this performance indicator is notes is advisable, as they are not a direct fault of the water Op31. undertaking. Number should exclude repairs under active Formula: $Op31 = D28 / C8 \times 100$ leakage control. Only consider pipelines under the control of or managed by the municipality. Reporting **Applies to Municipal Category** Readiness responsibility

Me	tro	Metro		Yes			Tier 1	
B1 Data Element	(1) Number of mains pipes' failures (water)	B4 Source	WSA	C1 Data Element	(2) Total mains length (water) in KMs	C4 Source	WSA	
B2 Frequency of collection	Annual	B5 Units	Number mains failures	C2 Frequency of collection	Annual	C5 Units	KM mains length	
B3 Definition		ins failures during t ing failures of valve	the assessment period, es and fittings.	C3 Definition	included), at the reference date.			
B6 Notes	The IWA	A code for this data	element is D28.	C6 Notes	The MBI code Mains that are no out of service on	for this dat	a element is C8. a element is C8. e or have been put at basis shall not be or.	

Technical indicator description sheet Improved quality of Service quality or customer satisfaction is A2 water and sanitation measured through customer surveys and the **Alignment** services monitoring of complaints/ protests, continuity of supply, affordability and service level indicators. Municipalities face significant challenges as they strive to increase the quality and manage the costs of services to their customers. Service delivery protests have become a regular feature of South African life. **A7** Rational Poor services can therefore make it difficult to attract business or industry to an area and will Percentage of complaints/callou ts responded to within 24 hours limit job opportunities for residents. Protest and unrest is bad for the local economy, A1 Indicator leading to perceptions of instability. Without short name income from services, the municipality will A3 Results-Output either be running a bankrupt business or be (water) chain level highly reliant on grants. Resolving these challenges thus brings direct economic benefits to a municipality. Percentage complaints/callouts (outages) responded to within 24 hours (water). Responded to means that someone is on site **A8** and has initiated a process of resolving the **Definitio** matter within 24 hours. This does not mean n the complaint/callout was resolved, only that the matter was logged, appraised and responded to within 24 hours of notification. (1) Number of complaints/callouts (outages) INDICATOR ASSIGNMEN A9 Indicator responded to within 24 hours (water)/ (2) Total A4 Back to WS3.21 Service delivery Basics pillar water service complaints/callouts received * **Formula** A5 Unit of **A6** A10 MBI indicator Percentage of Frequency Indicator measureme Annual IWA aligned indicator of reporting origin nt The MBI code for this performance indicator is Measured at the end of each year. Some municipalities have SD123. manual systems and measurements but may be difficult to A11 Notes A12 Formula: SD123 (%) = $F137 / F15 \times 100$. verify initially. There are aspirations to progress this indicator Addition on calculation to a measure of 'resolution' rather than 'response' in the al notes A suggestion was made to include a measure future. of interruptions. Reporting **Applies to Municipal Category** Readiness responsibility Yes Tier 2 Metro Metro (1) Number of (2) Total water C4 **B1** Data callouts/complaints C1 Data service WSA WSA **B4 Source** Sourc responded to within complaints/callou **Element Element** е . 24 hours (water) ts C2 Number of **B2** Number of water Frequenc **C5** water service **B5** Units Frequency of collection Annual service complaints y of collectio Annual Units complaints responded to logged n Total number of complaints/callouts responded to within 24 hours relating to water system performance, during the Number of direct, telephone, and written **C3 B3** assessment period. This variable includes all direct, telephone, complaints of quality of service during the **Definitio Definition** and written complaints and tracks them from the time of assessment period. n official capture until a response has been logged on the system. he IWA code for this data element is F15. The MBI code for this data element is F137. The MBI code for this data element is F15. C6 Notes **B6 Notes** In the case of multi-function municipalities, only the service

complaints related to water supply activities shall be

considered.

In the case of multi-function municipalities,

only the service complaints related to water

supply activities shall be considered

		A2 Alignment	Improved quality of water and sanitation services		Service quality or customer satisfaction is measured through customer surveys and the monitoring of complaints/ protests, continuity of supply, affordability and service level indicators.	
A1 Indicator short name	Frequency of unplanned water service interruptions	A3 Results- chain level	Outcome	A7 Rationale	Municipalities face significant challenges as they strive to increase the quality and manage the costs of services to their customers. Service delivery protests have become a regular feature of South African life. Poor services can therefore make it difficult to attract business or industry to an area and will limit job opportunities for residents. Protest and unrest is bad for the local economy, leading to perceptions of instability. Without income from services, the municipality will either be running a bankrupt business or be highly reliant on grants. Resolving these challenges thus brings direct economic benefits to a municipality.	
				A8 Definition	Number of interruptions averaged per 1000 service connections per year. Interruptions are understood as occuring at the source and do not include the number of consumer units affected by an interruption.	
INDICATOR ASSIGNMENT	WS3.3	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1)Number of interruptions during the assessment period / [(2)Total number of water service connections/1000]	
A5 Unit of measurement	Number of service interruptions	A6 Frequency of reporting	Annual	A10 Indicator origin	IWA indicator MBI indicator	
A11 Notes on calculation			tribution systems). vice connections bution systems and . e duration of er than 12 hours is		The IWA code for this performance indicator is QS14. Formula: QS14 (%) = D36 / C24 x 1000. The MBI code for this performance indicator is SD11_1. Formula: SD11_1 (%) = D36 / C24 x 1000.	

Reporting responsibility		Applies to Municipal Category					Readiness	
Metro		Metro		Yes		Tier 1		
B1 Data Element	(1) Number of water service interruptions	B4 Source	WSA	C1 Data Element	(2) Total number of water service connections	C4 Source	WSA	

B2 Frequency of collection	Annual	B5 Units	Number of service interruptions	C2 Frequency of collection	Annual	C5 Units	Number of service connections
B3 Definition	assessment pe occurring at the s	water service interru riod. Interruptions ar ource and do not incl its affected by a singl	e understood as ude the number of	C3 Definition	Total number of service connections, at the reference date. The authorised pipe connecting the main to the measurement point or to the customer stop-valve, as applicable.		
B6 Notes	In this context, of un-notified water duration (measure than 12 hours, or supply system measures, shall planned interrul Interruptions inhe	ode for this data elen ode for this data eler only the unplanned (e supply interruption to ed to full restoration aused by bursts or fa a and the subsequent be accounted for. In ptions that exceed the erent to a systematic t be accounted in this	even if notified) or o customers with a of supply) of more illures in the water repair/renewal cludes also those e notified period. intermittent supply	C6 Notes	The MBI code Where several reg occupied premises tapping off the mai will still be regarde purposes of the a configuration and n All active service co connections to regis non-residential, te irrigation and fire h authorised con connected to the	for this data istered custs is share a ph in (e.g. apar ed as the or pplicable PI umber of cu nnections si stered custo morary co ydrants, pu sumption p mains. Inac	a element is C24. be element is C24. comers or individually ysical connection or trent buildings), this is econnection for the particular of the particular of the istomers or premises. The istomers or premises in the accounted formers (residential and innections included), blic taps or any other points not directly tive connections to be accounted for.

	Te	chnical	indicator de	escript	ion shee	t	
A1 Indicator short name	Percentage of drinking water compliance to SANS 241	A2 Alignment A3 Results- chain level	Improved quality of water (incl. wastewater) Outcome	A7 Rationale	will contribute to unsafe living envir of drinking water h monitoring wal identifying any exis could emerge in supply and sanitati levels of diarrhoea, Southern Africa a total social cost of 1% of the GDP in 2010 General Hous were over 60,000 month and appro	provided is of a poor quality, it the creation of unhealthy and menents. Monitoring the quality elps protect health, and regularly er quality is a crucial part of ing problems, or any issues that the future. Inadequate water on is a direct contributor to high dysentery and other diseases in da 1997 study found that the diarrhoeal disease was at least South Africa (R3.4 billion). The ehold Survey showed that there ases of childhood diarrhoeal perkimately 9,000 child diarrhoeal aths in the year.	
				A8 Definition	The percentage of water samples measure comply with the SANS 241 requirements ov month period. See the SANS 241 requirements detailed breakdown of the various tests in		juirements over a 12 41 requirements for a
INDICATOR ASSIGNMENT	WS4.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of water samples that complied with SANS 241 requirements / (2) Total number of water samples tested * 100		
A5 Unit of measurement	Percentage of tested samples	A6 Frequency of reporting	Annual	A10 Indicator origin	MBI indicator		
A11 Notes on calculation	, ,				The MBI code for this performance indicator is PQ6. Formula = PQ6 (%) = (D114 / D113) \times 100		
	orting sibility	A	applies to Municip	al Category Readiness			eadiness
Me	tro	Metro		Yes		Tier 1	
B1 Data Element	(1) Number of water sample tests complying with SANS 241 requirements	B4 Source	WSA	C1 Data Element	(2) Total number of water samples tested	C4 Source	WSA
B2 Frequency of collection	Annual	B5 Units	Number of water sample tests	C2 Frequency of collection	Annual	C5 Units	Number of tests conducted
B3 Definition	Total number of tests conducted on water samples that comply with the numerical limits of SANS 241, during the assessment period. If present at certain unacceptable levels these determinants can result in an immediate health risk or consequence.			C3 Definition	Total number of water sample tests during the assessment period.		•
B6 Notes	The data eleme	I code for this data ent does not include ements associated v	operational data as per	C6 Notes	The MBI code f	or this data	element is D113.

		A2 Alignment	Improved quality of water (incl. wastewater)				capacity, are in poor lue to inadequately
A1 Indicator short name	Wastewater quality compliance according to the water use license	A3 Results- chain level	Outcome	A7 Rationale	trained operator Growing water scareuse of treated edischarge standa Furthermore, wa located downstry works, and untread then used as rateratment works. Neffluents from wast protect health, and pollution impacts to high levels of codiseases in Souther that the total social at least 1% of the billion). The 201 showed that the childhood diarrhoed	arcity (and associated increased ffluent) will mean that effluent and become more important. ter treatment works might be aem of wastewater treatment ted or poorly treated effluent is wwater input to these water Monitoring the quality of treated ewater treatment facilities helps aids identification and control of the environment. Inadequate sanitation is a direct contributor diarrhoea, dysentery and other in Africa and a 1997 study found I cost of diarrhoeal disease was he GDP in South Africa (R3.4.0 General Household Survey re were over 60,000 cases of a per month and approximately arrhoeal deaths in the year.	
				A8 Definition	Percentage of Wastewater Quality Compliance to specified licence/permit/authorisation requirements tested during the municipal financial year. The percentage is calculated on the basis of aggregated results per Water Use License determinant.		
INDICATOR ASSIGNMENT	WS4.2	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	Sum of the (1) Number of wastewater samples tested per determinant that meet compliance to specified water use license requirements / (2) Total wastewater samples tested for all determinants over the municipal financial year * 100		
A5 Unit of measurement	Percentage of tested samples	A6 Frequency of reporting	Annual	A10 Indicator origin		ormed by IS 20.3, 20.4 a	50 37120 indicators and 20.5
A11 Notes on calculation		None		A12 Additional notes	The MBI code for this performance indicator is PQ27. Formula: PQ27 (%) = ((wD172 / wD171) x 100) MBI also considers the following: Wastewater quality compliance: ALL determinants (ALL determinants tested that comply to specified licence/permit/authorisation requirements / total determinants tested, during the assessment period) (%) (PQ16).		
Reno	orting						
-	sibility	A	pplies to Municip	al Catego	ry	R	eadiness
Ме	tro	I	Metro		Yes		Tier 1
	(A) 1:						
B1 Data Element	(1) Number of wastewater samples tested per determinant that meet compliance to specified water use license requirements	B4 Source	WSA	C1 Data Element	(2) Total wastewater samples tested for all determinants over the municipal financial year	C4 Source	WSA

B2 Frequency of collection	Annual	B5 Units	Number of compliant tests	C2 Frequency of collection	Annual	C5 Units	Total number of tests conducted
B3 Definition	and any other v	tests conducted for water use licensing ded for that are deem	C3 Definition	Oxygen Demand (licensing determ	(COD) and a	ucted for Chemical any other water use ements during the rriod.	
B6 Notes	The MBI	code for this data e	C6 Notes	The MBI code fo	r this data e	element is wD171.	

	Technical indicator description sheet										
		A2 Alignment	Improved water sustainability				is to determine the revenue from water				
A1 Indicator short name	Percentage of non-revenue water	on-revenue	Outcome	A7 Rationale	service through kilolitres of water purchased not sold as a result of losses incurred through (illegal connections), non- or incorrect meterir wastage as a result of deteriorating water infrastructure. Water consumption is currently too high and to is poor water use efficiency, and little water conservation and demand management implementation. In particular, the increase percentage of the population with access tow services (as the current backlog is addressed), the expected improvement in the standard of it is likely to result in a greater per capita water consumption. New water augmentation schemil also be costly and are likely to be detrimed to the environment. Effective water conservation and demand management brings about the required change to current water use manager practices, and there are opportunities to increwater use efficiency in all water use sectors.						
				A8 Definition	Non-revenue water is defined as the sum of unbilled authorized consumption, apparent losses (unbilled unauthorised consumption and meter inaccuracies) and real losses (from transmission mains, storage facilities, distribution mains or service connections).						
INDICATOR ASSIGNMENT	WS5.1	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	((1)Number of Kilolitres Water Purchased or Purified - (2)Number of Kilolitres Water Sold) / (1)Number of Kilolitres Water Purchased or Purified * 100						
A5 Unit of measurement	Percentage of kilolitres	A6 Frequency of reporting	Annual	A10 Indicator origin	DWS indicator, Pre	vious genei	ration BEPP indicator				
A11 Notes on calculation	Calculated as	at the last day of th investigation	ne financial year under n	A12 Additional notes	It is expected that implementation of the free basic service policy is included in the calculation for sale of water.						
Reno	orting										
	sibility	A	Applies to Municip	al Catego	ry	R	eadiness				
Me	tro		Metro		Yes		Tier 1				
B1 Data Element	(1)Number of Kilolitres Water Purchased or Purified	B4 Source	WSA	C1 Data Element	(2) Number of kilolitres of water sold	C4 Source	WSA				
B2 Frequency of collection	Annual	B5 Units	Number of kilolitres	C2 Frequency of	Annual	C5 Units	Number of kilolitres				

		collection	
B3 Definition	Kilolitres of bulk water supplied is measure bulk water from a water board, Departm Sanitation or internal depart	nent of Water and	es of water sold throughout the to all end users
B6 Notes	None	C6 Notes	-

	Tec	hnical in	dicator o	descrip	otion she	et	
		A2 Alignment	Improved water sustainability		poor water us	is currently too high and there is e efficiency, and little water and demand management	
A1 Indicator short name	Total water losses	A3 Results- chain level	Outcome	A7 Rationale	implementation percentage of the services (as the cu the expected impro is likely to result consumption. New valso be costly and a environment. Eff demand manager change to current vand there are opp	. In particular, the increased population with access to water rrent backlog is addressed), and vement in the standard of living, in a greater per capita water water augmentation schemes will are likely to be detrimental to the ective water conservation and ment brings about the required vater use management practices, ortunities to increase water use in all water use sectors.	
				A8 Definition		I real) losses, expressed in terms lost per service connection per day.	
INDICATOR ASSIGNMENT	WS5.2	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	Sum total of water losses [((1) System input volume (2) Authorised consumption volume) in m³ x 1000) / (365 x (2) Number of service connections)]		
A5 Unit of measurement	Liters per connection per day	A6 Frequency of reporting	Annual	A10 Indicator origin		7120 Indicator 21.7 MBI indicator IWA indicator	
Water losses can be calculated as the S Volume (see data element 2) minus the Consumption (see data element This indicator is adequate for urban distrib Used if service connections density is > 20 IWA Op24 shall be used if service connect < 20 / km of mains (e.g. rural distributic bulk supply systems). IWA PI is L/connec converted to L/connection/day as this is m used in practice. Although IWA/MBI specify m³/connection traditionally requires this performance indic L/connection/day. Therefore, in order to performance indicator, a unit conversion is m³ to L. To do this, the Water Losses in m		is the Authorised ment 3). istribution systems. > 20 / km of mains. Inections density is oution systems or nnection/year but is more commonly ection/year, DWS indicator in units of ret o calculate this on is required from in m³ is multiplied	A12 Additional notes	The IWA code for this performance indic Op23. The MBI code for this performance indic WDM11. IWA (and MBI) alternatively specify Water different units to DWS, notably Water lo (m³/connection/year). Water losses (m³/connection/year) can be cusing the following formula: (Water losses X 365 / assessment period) / of service connections.			
	by a 1000 to	convert this to Wate	er Losses in L.				
Repo respon		Арј	olies to Munic	cipal Cate	gory	Readiness	
Me	tro	Me	etro	Yes		Tier 1	

B1 Data Element	(1) Total system input volume	B4 Source	WSA	C1 Data Element	(2) Total authorised consumption	C4 Source	WSA
B2 Frequency of collection	Annual	B5 Units	m³	C2 Frequency of collection	Annual	C5 Units	m³
B3 Definition	assessment peri	e input of the global od. System input sho imported water (raw A3).	C3 Definition	Total volume of metered and/or non-metered water that, during the assessment period, is taken by registered customers, by the water supplier itself, or by others who are implicitly or explicitly authorised to do so by the water supplier, for residential, commercial, industrial or public purposes. It includes water exported.			
B6 Notes	The MBI of periods shorted periods shorted misleading concurrence cannot be avoid interpretation. Experior many construction of the performance indicated and a conversion.	code for this data elected for this data elected that this variable in than one year, sinclusions. If a shorter add, special care is reternal comparisons of must be avoided. This data element is a Conservation and Decators can be specified might be required we performance indicators.	C6 Notes	The IWA code for this data element is A14. The MBI code for this data element is A14. Note that authorised consumption may include items such as fire fighting and training, flushing of mains and sewers, street cleaning, watering of municipal gardens, public fountains, frost protection, building water, etc. These may be billed or unbilled, metered or unmetered, according to local practice. Traditionally, this data element is recorded in m³, however, Water Conservation and Demand Management performance indicators can be specified in either m³ or L and a conversion might be required when calculating the performance indicator.			
D1 Data Element	(3) Service connections (water)	D4 Source	WSA	E1 Data Element	-	E4 Source	-
D2 Frequency of collection	Annual	D5 Units	Number of service connections.	E2 Frequency of collection	-	E5 Units	-
D3 Definition	date. The author	f service connections orised pipe connectin oint or to the custom applicable.	g the main to the	E3 Definition		-	
D6 Notes	The MBI of Where several occupied premises off the main (e.g. regarded as the applicable PI, number of cust connections stregistered custo temporary con hydrants, p consumption poil	ode for this data eler ode for this data eler registered customer s share a physical co g. apartment building one connection for the irrespective of the co- tomers or premises. In all be accounted for omers (residential an enections included), in ublic taps or any oth hts not directly connections to vacant build accounted for.	res or individually innection or tapping is), this will still be ne purposes of the onfiguration and All active service: connections to dinon-residential, rrigation and fire er authorised acted to the mains.	E6 Notes		-	

		A2 Alignment	Improved water sustainability		revenue water for	ster scarce country. Current non- South Africa is estimated to be d water losses are 37%. Current	
A1 Indicator short name	Total per capita consumption of water	A3 Results- chain level	Outcome	A7 Rationale	Africa approximately R7 billion Annual. Average per capita consumption is approximately 223 litres which is high for a water scarce country. Water consumption is currently too high and there is poor water use efficiency, and little water conservation and demand management implementation. In particular, the increased percentage of the population with access to water services (as the current backlog is addressed), and the expected improvement in the standard of living is likely to result in a greater per capita water consumption. New water augmentation schemes will also be costly and are likely to be detrimental to the environment. Effective water conservation and demand management brings about the required change to current water use management practices and there are opportunities to increase water use efficiency in all water use sectors.		
				A8 Definition	The total system input volume minus the total exported (raw and treated) water per population pay of the assessment period.		
INDICATOR ASSIGNMENT	WS5.3	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula		olume – Exported [(2)raw + (3) 1 ³ x 1000) / (365 x (4) Municipal population)	
A5 Unit of measurement	Liters per capita per day	A6 Frequency of reporting	Annual	A10 Indicator origin		7120 indicator 21.5 IWA indicator MBI indicator	
A11 Notes on calculation In order to calculation conversion is required.		ter is the sum of both raw exported and reated exported water. ulate this performance indicator, a unit lired from m³ to L. To do this, the water is multiplied by a 1000 to convert this to L.		A12 Additional notes	The IWA code for this performance indicator is CI70. The MBI code for this performance indicator is WDM2.		
	orting sibility	Арј	olies to Munic	ipal Cate	jory	Readiness	
Sha	red	Me	tro		Yes	Tier 1	

B1 Data Element	(1) System input volume	B4 Source	WSA	C1 Data Element	(2) Exported raw water	C4 Source	WSA
B2 Frequency of collection	Annual	B5 Units	m³	C2 Frequency of collection	Annual	C5 Units	m³
B3 Definition	assessment peri	e input of the global od. System input sho all imported water (r	C3 Definition	Total volume of raw water transferred to other water undertaking or to another system from the same supply area during the assessment period.			
B6 Notes	Traditionally, however, Water (performance indic and a conversion	MBI code for this data this data element is r Conservation and Der cators can be specifie might be required wi performance indicato	C6 Notes	The IWA and MBI code for this data element is A5. Traditionally, this data element is recorded in m³, however, Water Conservation and Demand Management performance indicators can be specified in either m³ or L and a conversion might be required when calculating the performance indicator.			
D1 Data	(3) Exported	D4 Source	WSA	E1 Data	(4)Total population of the	E4	StatsSA Mid-Year
D2 Frequency of collection	treated water Annual	D5 Units	m³	Element E2 Frequency of collection	municipality Annual	E5 Units	Population Estimate Number of people
D3 Definition	undertaking or to area during the a occur anywhere d	treated water export o another system from assessment period. The ownstream of the tre the water is assumed water undertaking.	n the same supply hese transfers can atment plants or at	E3 Definition	Estimated population	on of the m	unicipality in the year
D6 Notes	Traditionally, however, Water (performance indic and a conversion	MBI code for this data this data element is r Conservation and Der cators can be specifie might be required wl performance indicato	E6 Notes		-		

Technical indicator description sheet								
A1 Indicator short name	Percentage of total water connections metered	A2 Alignment A3 Results- chain level	Improved water sustainability Output	A7 Rationale	Water consumption is currently too high and there is poor water use efficiency, and little water conservation and demand management implementation. In particular, the increased percentage of the population with access to water services (as the current backlog is addressed), and the expected improvement in the standard of living, is likely to result in a greater per capita water consumption. New water augmentation schemes will also be costly and are likely to be detrimental to the environment. Effective water conservation and demand management brings about the required change to current water use management practices, and there are opportunities to increase water use efficiency in all water use sectors.			
				A8 Definition	percentage of the til (1) Number of (1) Number of connection of connect	netered water connections as a total number of connections in the municipality.		
INDICATOR ASSIGNMENT	WS5.31	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Number of water connections metered / [(1)Number of connections metered + (2) Number of connections unmetered] * 100			
A5 Unit of measurement	Percentage of water connections	A6 Frequency of reporting	Annual	A10 Indicator origin	MBI Indicator			
A11 Notes on calculation	None			A12 Additional notes	The MBI code for this performance indicator is SD101. Formula: SD101 (%) = CI54_1 / (CI54_1+CI54_2) x 100. There will be instances when unmetered connections are unknown and not accounted for in this indicator. However, the intention is to reduce and potentially eliminate these over time.			
	orting sibility	A	pplies to Municip	Municipal Category Readiness				
Me	tro	ı	Metro		Yes Tier 1		Tier 1	
B1 Data Element	(1) Number of water service connections - metered	B4 Source	WSA	C1 Data Element	(2) Number of water service connections - unmetered	C4 Source	WSA	
B2 Frequency of collection	Annual	B5 Units	Number of water services connections	C2 Frequency of collection	Annual	C5 Units	Number of water services connections	
B3 Definition	Total number of service connections that are metered, at the reference date.			C3 Definition	Total number of water service connections that are unmetered, at the reference date.			
B6 Notes	The MBI code for this data element is CI54_1. Metered services allow the municipality to determine the volume of water used by a customer and therefore bill accordingly. Ideally all connections should be metered.			C6 Notes	The MBI code for this data element is CI54_2. Where services are unmetered, the municipality is unable to determine the volume of water used by a customer and needs to estimate volumes accordingly.			

Technical indicator description sheet							
		A2 Alignment	Improved water sustainability		use efficiency, and I	urrently too high and there is poor water ittle water conservation and demand lentation. In particular, the increased	
A1 Indicator short name	Percentage of water reused	A3 Results- chain level	Outcome	A7 Rationale	percentage of the population with access to water services (as the current backlog is addressed), and the expected improvement in the standard of living, is likely to result in a greater per capita water consumption. New water augmentation schemes will also be costly and are likely to be detrimental to the environment. Effective water conservation and demand management brings about the required change to current water use management practices, and there are opportunities to increase water use efficiency in all water use sectors.		
				A8 Definition		ter recycled and reused as a percentage total water withdrawal.	
INDICATOR ASSIGNMENT	WS5.4	A4 Back to Basics pillar	Service delivery	A9 Indicator Formula	(1) Volume of water recycled and reused (VRR) / (2) Volume of total freshwater withdrawal (TWW) * 100		
A5 Unit of measurement	Percentage of water	A6 Frequency of reporting	Annual	A10 Indicator origin	AMCOW indicator MBI indicator		
A11 Notes on calculation	Volume of water recycled and reused (VRR) is the sum of (appropriately treated) reused water volumes from each of the two types listed below (two data elements pertaining to agriculture drainage and irrigation usage are excluded from the AMCOW definition to suit the South African context). AMCOW suggests that countries should report the percentage value for any given year, as well as the percentage change over time using the formulas below: Percentage of water recycled and reused (PRR) = VRR / TWW x 100 Percentage change = (PRRi - PRR2015) / PRR2015 x 100 Where 'i' is the given year. For each parameter, specify whether the values are metered or estimated. If estimated, the estimation method should be specified.			A12 Additional notes	The AMCOW code for this performance indicator is I-2.2a. The MBI code for this performance indicator is WDM29. Note that while this target is an explicit part of SDG-6.3, there is no SDG indicator on recycling and reuse. The main challenge for this indicator lies in defining the parameters to be included. For transparency it is suggested that the sectors used are: municipal, industrial and agricultural. Total withdrawals by these sectors are reasonably reported on by African countries. However, it is not possible reliably measure the direct use of agriculture drainage water or direct use of nont treated municipal wastewater for irrigation purposes, as originally provided for in the AMCOW based definition. These data elements have therefore been excluded in the calculation and may be introduced at a later stage. 'Safe' reuse refers to water that is of a quality that is 'fit for purpose'. i.e. is generally treated, but the levels of treatment (i.e. primary, secondary, tertiary) may vary depending on use. All parameters as defined in AquaStat http://www.fao.org/nr/water/aquastat/data/glossary/search.html. For each parameter, countries should specify whether values are measured, modelled or estimated (surface and groundwater), and provide information on the processes used to derive the values, and the year of last assessment. If values or estimates are not available for any of the parameters, they should be left blank. Note that this indicator does not cover water recycling and reuse that is not connected to the public water supply systems, e.g. in some cases of mining, energy, and large/remote industry. In these cases, companies and organisations are encouraged to report on the equivalent indicator under the Global Reporting Initiative (https://g4.globalreporting.org/specific-standarddisclosures/environmental/water/Pages/G4-EN10.aspx) following the GRI G4 Sustainability Reporting Guidelines.		
Repoi respons	_	A	pplies to Mu	nicipal Ca	tegory	Readiness	
Met		Me	tro		Yes	Tier 2	

B1 Data Element	(1) Volume of water recycled and reused (VRR)	B4 Source	WSA	C1 Data Element (2) 1.a Direct use of treated municipal wastewater (not including irrigation)		C4 Source	WSA	
B2 Frequency of collection	Annual	B5 Units	10 ⁹ m³	C2 Frequency of collection	Annual	C5 Units	Treated municipal wastewater (primary, secondary, tertiary effluents) directly used, i.e. with no or little prior dilution with freshwater during most of the year, for any purpose other than irrigation.	
B3 Definition	reused (not fir after ensuring it is fit for purpo a.Direct use of including irriga	of water which has st discharged to the has been treated t se. This is consider treated municipal ation); and b. Direct astewater for irrigat	e environment), o a standard that ed inclusive of: wastewater (not t use of treated	C3 Definition	Treated municipal wastewater (primary, secondary, tertiary effluents) directly used, i.e. with no or little prior dilution with freshwater during most of the year, for any purpose other than irrigation.			
B6 Notes	The MBI code for this data element is A119. Volume of water recycled and reused (VRR) is the sum of (appropriately treated) reused water volumes from each of the two types listed in data elements 2 and 3.			C6 Notes	The MBI code for this data element is A120.			
D1 Data Element	(3) Direct use of treated municipal wastewater for irrigation purposes	D4 Source	WSA	E1 Data Element	(4) Total freshwater withdrawal (TWW)	E4 Source	WSA	
D2 Frequency of collection	Annual	D5 Units	10º m³	Frequency of collection	Annual	E5 Units	10 ⁹ m³	
D3 Definition	Treated municipal wastewater applied artificially (irrigation) and directly (i.e. with no or little prior dilution with freshwater during most of the year) on land to assist the growth of crops and fruit trees, for recreational areas, and for landscaping and forestry.			E3 Definition	Total freshwater withdrawal (TWW) is the volume of freshwater extracted from its source (rivers, lakes, aquifers) for agriculture, industries and municipalities.			
D6 Notes	The MBI cod	de for this data eler	nent is A123.	E6 Notes	The MBI code for this data element is A124. It is estimated at the country level for the following three main sectors: agriculture, municipalities (including domestic water withdrawal) and industries. Freshwater withdrawal includes primary freshwater (not withdrawn before), secondary freshwater (previously withdrawn and returned to rivers and groundwater) and fossil groundwater. It does not include non-conventional water, i.e. direct use of treated wastewater, direct use of agricultural drainage water and desalinated water. TWW is in general calculated as being the sum of total water withdrawal by sector minus direct use of wastewater, direct use of agricultural drainage water and use of desalinated water.			