

Annex 11 Monitoring and evaluation plan

Monitoring					
Data/Source	Collection Tool	Frequency	Indicator	Reference	Indicative Budget
Reports MINAE (DCC) based on surveys and measurements	Survey/questionnaire	Year 1 of full operations (year 6)	tCO ₂ e reduced or avoided – low emission gender-sensitive transport	See monitoring manual chapter 2	See below
INCOFER annual reports	Document review	Year 3 and year 6	Number of green jobs created for construction and operations (gender disaggregated)	Reports of SPV to INCOFER	
Reports MINAE (DCC) based on surveys and measurements	Survey/questionnaire	Year 1 of full operations (year 6)	a. tPM _{2.5} reduced b. tNO _x reduced c. tSO ₂ reduced	See monitoring manual chapter 2	
Reports INCOFER based on ticketing and surveys (for gender split)	Ticketing and survey	Year 1 of full operations (year 6)	Number of additional female and male passengers using low-carbon transport as a result of Fund support	See monitoring manual chapter 2	
Reports INCOFER	Government data/records	Year 6	Number of technologies and innovative solutions transferred or licensed to support low-emission development as a result of GCF support	See monitoring manual chapter 2	
Reports INCOFER based on gender disaggregated surveys with trip distance per mode baseline and project	Survey/questionnaire	Year 1 of full operations (year 6)	a). LRT passenger baseline mode share (in %) b). LRT passenger trip distance (in km)	See monitoring manual chapter 2 (parameters MSB and TDB)	
Reports by MOPT, MINAE, 3rd parties	Government data/records	Year 1 of full operations (year 6)	Rail based mode share in % of all trips Includes as additional explanatory variable the extent of bus route restructuring realized to attract passengers to the LRT	See monitoring manual chapter 2	

Reports INCOFER based on gender disaggregated surveys with trip distance per mode baseline and project	Survey/questionnaire	Year 1 of full operations (year 6)	a). passenger km of cycle way users b). cycle way user baseline mode share	See monitoring manual chapter 3	
Reports by MOPT, MINAE, 3rd parties	Government data/records	Year 1 of full operations (year 6)	Cycling mode share in % of all trips	See monitoring manual chapter 3	
Reports INCOFER based on updated inec statistics	Survey/questionnaire	Year 1 of full operations (year 6)	Number of residents in catchment areas of intervened stations	See monitoring manual chapter 4	
Reports INCOFER based on updated inec statistics	Survey/questionnaire	Year 1 of full operations (year 6)	GHG emissions per resident per year intervened area for transport	See monitoring manual chapter 4	See below
Report INCOFER based on passenger survey and comparison with baseline	Survey/questionnaire	Year 1 of full operations (year 6)	Average trip time of LRT passengers compared to trip time prior LRT relative to mode used in absence of the LRT	See monitoring manual chapter 2	See below
Report INCOFER based on passenger survey and comparison with BAU accidentality	Reports and baseline data	Year 1 of full operations (year 6)	a). reduced number of accidents b). reduced number of injured persons c). reduced number of deaths	Reports of SPV to INCOFER	See below

The same questionnaire is used for different purposes. The same company and staff is used for all monitoring parameters. Disaggregation is therefore not possible. Annex 4 has the full cost with details for monitoring, which has been reproduced below.

Evaluation			
Type	Timing	Independent/Self-evaluation	Indicative Budget
<i>Summative</i>	Year 3	Self-Assessment	See below
<i>Impact</i>	Year 6	Independent	See below
<i>Ex-poste</i>	Year 6	Self-Assessment	See below

Main Activities of Company Contracted for M&E

Year 2

1. Annual Project Report (APR) for GCF

Year 3

2. Annual Project Report (APR) for GCF

Year 4

3. Annual Project Report (APR) for GCF
4. Prepare and support mid-term evaluation of GCF

Year 5

5. Annual Project Report (APR) for GCF
6. Set up monitoring framework structure for LRT, NMT and Connectivity
7. Install automated counting equipment on cycle lanes

Year 6

8. Realize passenger survey on LRT
9. Realize report on GHG and SD impact of LRT
10. Realize surveys of cycle and micromobility users
11. Realize countings on cycle lanes
12. Realize monitoring report on 1st year full operations cycle lanes incl. calculations on GHG and SD impact
13. Realize survey in project area and control group area
14. Realize monitoring report on connectivity/accessibility incl. calculations on GHG and SD impact

15. End of project implementation report for GCF

16. Prepare and support final evaluation of GCF

17. Knowledge products incl. Webinar on GHG and SD impact of LRT, NMT and connectivity measures; guidelines for NMT and connectivity interventions

18. Outreach activities: workshops and seminars on experiences with NMT and connectivity interventions

Budget							
Item	Quantity	Unit cost	Total cost in USD				
National staff	17	6,500	107,250				
International consultants	10	24,000	228,000				
Surveys LRT	1	70,000	70,000				
Surveys NMT	2	40,000	80,000				
Surveys connectivity	4	50,000	200,000				
Monitoring equipment cycling ways	1	50,000	50,000				
Workshops @ average 30 participants	5	3,000	15,000				
Knowledge products: guidelines NMT and connectivity interventions	2	10,000	20,000				
International travel	4	4,000	16,000				
Per diems international	35	300	10,500				
Administration		10%	79,675				
Contingency		10%	87,643				
Total			964,068				
<i>Unit cost staff is per month</i>							
Cost per annum (rounded to 10,000)							
yr 1	yr 2	yr 3	yr 4	yr 5	yr 6	total	
18,453	18,453	25,108	36,905	113,740	709,060	921,718	
20,000	20,000	30,000	40,000	110,000	710,000	930,000	
Units per item							
Item	yr 1	yr 2	yr 3	yr 4	yr 5	yr 6	total
National staff person-months	0.5	0.5	0.5	1.0	2.0	12.0	17
International consultants person months	0.5	0.5	0.5	1.0	1.0	6.0	10
Surveys LRT	0	0	0	0	0	1	1
Surveys NMT	0	0	0	0	0	2	2
Surveys connectivity	0	0	0	0	0	4	4
Monitoring equipment cycling ways	0	0	0	0	1	0	1
International travel int. Consultants (to be contracted)	0	0	1	0	1	2	4
Per diems international (days)	0	0	5	0	10	20	35
Unit Costs							
Item	Cost in USD						
National staff person-months	6,500						
International consultants person months	24,000						
Surveys LRT	70,000						
Surveys NMT	40,000						
Surveys connectivity	50,000						
Monitoring equipment cycling ways	50,000						
International travel	4,000						
Per diems international (days)	300						