

D7.6: Reporting to the SCIS System (2)

+CityxChange | Work Package 7, Task 7.3 & 7.4

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List of Acronyms

API	Application Programming Interface
DCS	Data Capturing Sheets
DPEB	Distributed Positive Energy Block
DPED	Distributed Positive Energy District
DST	Decision Support Tool
eMaaS	eMobility as a Service
GHG	Greenhouse Gasses
GWh	Gigawatt hour
ICT	Information and Communication Technology
KPI	Key Performance Indicator
LHC	Lighthouse Cities
M&E	Monitoring and Evaluation
MERT	Monitoring and Evaluation Reporting Tool
MWh	Megawatt hour
NOX	Nitrous Oxides
RES	Renewable Energy Sources
SCD	Sub-city District level
SCIS	Smart Cities Information System
SRT	Self-Reporting Tool
UFA	Usable Floor Area



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Executive Summary

Monitoring and Evaluation (M&E) in the +CityxChange project prescribes in *Task 7.3 - Data Collection and Management*, and *Task 7.4 - Developing practical recommendations and guideline reports based on +CityxChange results* of the Description of Actions that project monitoring data be captured, managed and disseminated. This is primarily done using an M&E dashboard developed for the project and the Smart Cities Information System (SCIS).

By the time of submitting this deliverable, very little monitoring data is available, and hence this deliverable does not contain detailed reporting on the monitoring data that will in future be shared through the +CityxChange Monitoring and Evaluation Reporting Tool (MERT) and the SCIS Self-Reporting Tool (SRT). Project monitoring data will be reported to the MERT once the prototype tool is able to accept data at the start of Month 13 of the project. This deliverable however provides an update on the process to get monitoring data captured in the MERT and the way data will be transferred to the SRT. The project monitoring data from the full set of 33 KPIs is set to be captured in the MERT, where it will be modelled, displayed and made available for export and external use in a summary '.pdf' report and a more detailed data driven '.csv' download. This method will include the full set of all project KPIs.

Through ongoing refinement of the data capturing process it has been confirmed that, as it stands, monitoring data from only six of the 33 Key Performance Indicators (KPI) will be reported to the SRT. As the SRT was designed to capture data from multiple smart city projects, it employs a rigid data capturing structure to accommodate data inputs across certain data capturing themes from a host of different sources. As such, the KPIs specifically designed for the project (e.g. KPI 1 - Number of APIs connected to the DST, or KPI 28 - Number of citizen observatories established) can not be reported to the SRT. Other KPIs currently have a mismatch in data capturing and calculation requirements between the MERT and SRT. The availability of data later on in the project will prompt a review of the data capturing capabilities of the SRT and the definition of the project KPIs, highlight adjustments to be made to the KPIs and the MERT and setup of Fields of Action (FoA) of the SRT in order to ensure that data is captured, modelled and shared efficiently.

The process will need to be completed using a manual data capturing method where data is submitted annually according to the requirements in FoA developed for each compatible KPI of the project within the SCIS system. To simplify the data transfer process, the FoA developed in the SRT, will be emulated in the MERT. This will enable partners to submit data in the MERT in the same format as required in the SRT, which will then require less processing and additional overhead to get data submitted to the SRT.



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1 Introduction

This report serves as a subsequent revision of *Deliverable 7.2: Reporting to the SCIS System*¹ (D7.2) that was submitted in Month 6 of the +CityxChange project. This revision will include an update on the processes and actions taken by the task lead, Future Analytics Consulting (FAC), in conjunction with all the Key Performance Indicator (KPI) owners, data owners and other partners involved in the Monitoring and Evaluation (M&E) process. The data points used in the M&E of +CityxChange interventions and demonstration projects are based on the 33 KPIs defined in *Deliverable 7.1: Approach and Methodology for Monitoring and Evaluation*² (D7.1).

Due to the lack of actual monitoring data available to report on in D7.2 (month 6) and this revision of the deliverable, this deliverable will include details on the processes followed up to the submittal of D7.6 in an effort to elaborate on the data to be submitted to the SCIS at a later stage of the project.

Subsequent revisions of this deliverable will include relevant feedback from the usage of the reporting tools, together with output reports from the SCIS system and the +CityxChange MERT.

2 M&E in +CityxChange

2.1 Measuring impact in +CityxChange

As detailed in D7.1, the measuring of project impacts is conducted using a KPI framework that defines the indicator, proposed calculation method, reporting frequency, reporting scale and other important factors to be considered in measuring the impact that project interventions have on the participating cities.

The table below lists the KPIs that are currently used to develop the M&E process.

Table 1: KPI Overview with Expected Impacts and Baselines

Theme	KPI ID	KPI Type	KPI Definition	Expected / Targeted Impact	Baseline
Integrated Planning and Design	1	Decision/planning support	No. of APIs connected to the Decision Support Tool (DST)	20	0

¹ D7.2 available at: <https://cityxchange.eu/knowledge-base/reporting-to-the-scis-system/>

² D7.1 available at: <https://cityxchange.eu/knowledge-base/approach-and-methodology-for-monitoring-and-evaluation/>



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	2	Decision/planning support	Number of use case stories in the Information, Communication Technology (ICT) Ecosystem repository	15	0
	3	Training and skills development	No. of municipal staff trained to use the DST	40	0
	4	Enabling DPEB/DPEDs ³	No. of new DPEB/DPED-enabling prototypes	30	0
	5	Enabling DPEB/DPEDs	No. of study visits by regulatory authorities	60	0
	6	Enabling DPEB/DPEDs	No. of politically approved Bold City Visions (BCV) with guidelines, roadmaps, and action plans	7	0
	7	Impact on regulation	No. of changes in regulation	15	0
	Common Energy Market	8	Greenhouse gas (GHG) emissions	Tonnes of CO ₂ -equivalent emission reduction per year	12.801 tonnes/year
9		Air quality	Tonnes per year Nitrogen Oxides (NOX) emissions reduction	6.2 tonnes/year	N/A
10		RES share	The percentage of total Renewable Energy Sources (RES) self-supply	Limerick: 100 Trondheim : 75	N/A
11		RES Integration	Increase in new renewable energy system integration	4,538 GWh/year	N/A
12		District level optimized self-consumption	Percentage district level production versus total energy consumption	47.7 % new production	N/A
13		Replication	No. of new DPEBs realised	7	0
14		Energy efficiency	kWh/m ² usable floor area (UFA) per year improved energy efficiency (final energy demand)	62 kWh/m ² / year	N/A
15		RES efficiency	Net useful thermal recovery/year (GWh)	2,134 (GWh) net increase/year	N/A
16		Reduction in energy grid investment	€million reduction compared to planned investment	€20M	0
17		RES curtailment	Percentage of energy grid failures	<1%	N/A

³ DPEBs/DPEDs - Distributed Positive Energy Blocks / Distributed Positive Energy Districts



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	18	RES traded	Percentage of the total Distributed Energy Resources (DER) capacity traded	10%	0
	19	RES flexibility	Percentage of peak load reduction (<30 hours)	20%	N/A
	20	RES storage	Increase in installed RES storage capacity	1.65 MWh	0
	21	Increased uptake of e-mobility solutions	Percentage modal shift from fossil-fuel vehicles to eMobility as a Service (eMaaS) (vehicles/bikes)	24 % increase	N/A
	22	Replication	No. of new or existing buildings participating in the energy markets	60	0
	23	Investment	Total new investments generated (€M)	€40M	0
	24	Investment	Percentage reduction in simple payback periods (years)	20% decrease	N/A
	25	Investment	Annual return on investment (%)	10% annual ROI	N/A
	26	Investment	No. of new jobs created	900	0
Communit yxChange	27	Community participation	No. community participation events organized across all +CityxChange cities	15	0
	28	Community participation	No. citizen observatories established	5	0
	29	Community participation	No. of community participation events/actions	55	0
	30	Innovation	No. of innovation labs/playgrounds contributing to the creation of DPEB	5	0
	31	Training and skills development	No. of Positive Energy Champions trained	20	0
	32	Behaviour influence	No. of organisations with new sustainable energy approaches	60	0
	33	Replication	No. of demonstration projects implemented in Follower Cities	35	0

*Where baselines have not been established/finalised yet they have been left as N/A.



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3 Monitoring Data

In *Deliverable 7.3: Data Collation, Management and Analysis Methodology Framework*⁴ (D7.3), it is stipulated that monitoring data generated by the execution of project interventions are captured by KPI and/or data owners at the necessary intervals in order to provide data at the reporting intervals defined for the KPI. Where necessary, the data is processed to prepare the data points according to the requirements of a KPI. As discussed in *D7.3*, the process of accumulating, processing and submitting data to the M&E tools are managed by the KPI and/or data owners assigned to the KPI. The partners will manage the initial flow of data where it is captured in the partner's repository until it is transferred to the MERT.

3.1 Data Capturing

As described in *D7.3*, KPI/data owners will be able to submit monitoring data to the MERT using two methods:

1. Automated Data Collection: automated through the use of Application Programming Interfaces (API). The APIs will enable a link between the MERT and live systems or online project data repositories specified by project partners from where data will be pulled and stored in the MERT repository.
2. Manual Data Collection: KPI/data owners will access data capturing sheets through the online MERT interface where monitoring data from each intervention is captured and stored in the MERT repository.

Whether data is to be modelled, displayed and disseminated through the MERT or SRT, partners will use the MERTs data capturing methods to capture all the monitoring data for each of the 33 KPIs. As described in Section 3.2.1 below, data will be transferred to the SRT at the applicable stage during the M&E procedure.

3.2 Reporting Tools

The KPI data is submitted for analysis, display and dissemination to two platforms: the SCIS SRT and the +CityxChange MERT.

3.2.1 The SCIS SRT

As discussed in *D7.2*, the setup of the SRT's FoA (FoA - criteria used in the creation of data collection fields in the online manual data collection pages of the SRT) are specifically defined to capture smart city project data across common themes, and do not allow tailoring to fit the specific +CityxChange KPI data requirements. Through ongoing refinement of the data collection process with KPI/data owners, as well as feedback from the SCIS on the capabilities and features of the SRT, it has been confirmed that, currently,

⁴ D7.3 available at:

<https://cityxchange.eu/knowledge-base/data-collation-management-analysis-methodolgy-framework>



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six KPIs will be reported to the SRT, while an ongoing effort will be made to match as many as possible KPIs to the SRT data requirements in an effort to increase the number reported. These KPIs are listed in the table below, together with an initial gap analysis of collection and calculation approaches.

Table 2: KPIs to report to the SRT

KPI	Definition	KPI owner	Calculation defined by	Section	Potential SRT option	Calculation Gaps
8	Tonnes of CO ₂ -equivalent emission reduction per year	LCCC, TK, MAI, MP, SB, SMO, YORU	SCIS KPI Guide	2.2.3	Potentially, TBC	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
9	Tonnes per year Nitrogen Oxides (NOx) emissions reduction	LCCC, TK, MAI, MP, SB, SMO, YORU	Project Defined		Potentially, TBC	Need to confirm calculation and variables for modelling in the MERT
10	The percentage of total Renewable Energy Sources self-supply	LCCC, TK, MAI, MP, SB, SMO, YORU	SCIS KPI Guide	2.1.3	Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target
11	Increase in new renewable energy system integration	MPOWER, SV, TE	Project Defined		Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target
12	Percentage district level production versus total energy consumption	MPOWER, SV, TE	SCIS KPI Guide	2.1.3	Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
14	kWh/m ² (URA) per year improved energy efficiency (final energy demand)	MPOWER, SV, TE	SCIS KPI Guide	2.1.2	Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
15	Net useful thermal recovery/year (GWh)	MPOWER, SV	Project Defined		Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target
16	€M reduction compared to planned investment	MPOWER, SV, TE	Project Defined		Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target
17	Percentage of energy grid failures	MPOWER, SV, TE	SCIS KPI Guide	2.4.1	Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
18	Percentage of the total Distributed Energy Resources capacity traded	MPOWER, POW	Project Defined		Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target
19	Percentage of peak load reduction (<30 hours)	MPOWER, NTNU, SV, TE	SCIS KPI Guide	2.4.5	Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
20	Increase in installed HES storage capacity	TE, MPOWER	SCIS KPI Guide	2.4.6	Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
21	Percentage modal shift from fossil-fuel vehicles to eMaas (vehicles/bikes)	LCCC, ABG, TK	Project Defined		Yes	Need to confirm calculation and variables for modelling in the MERT; potential option for SRT - KPI owners need to confirm if SRT inputs are available AND if it would work in the calculation of performance vs target. How can we use the SRT variables to calculate and display data in the MERT?
23	Total new investments generated (€M)	MPOWER, SV, TE, all partners (tentative)	SCIS KPI Guide	2.3.1	Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target. If SRT option is not agreed, we need KPI/data owner input to confirm if proposed calculation is correct/relevant
24	Percentage reduction in simple payback periods (years)	ABG, GKN, MPOWER, TE, SV, NHP, all partners (tentative)	SCIS KPI Guide	2.3.4	Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target. If SRT option is not agreed, we need KPI/data owner input to confirm if proposed calculation is correct/relevant
25	Annual return on investment (%)	ABG, GKN, MPOWER, TE, SV, NHP (tentative)	SCIS KPI Guide	2.3.5	Potentially, TBC	Need to confirm if SRT option will work AND if it will work for the calculation of performance vs target. If SRT option is not agreed, we need KPI/data owner input to confirm if proposed calculation is correct/relevant
26	No. of new jobs created	All 32 partners	Project Defined		Potentially, TBC	Determining the appropriate multipliers to be applied to calculate indirect/induced jobs created



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The KPIs that are not closely aligned to the SRT requirements are KPIs that were defined by the project to measure interventions with outcomes very particular to the project, and which do not correlate with the themes in which project monitoring data is captured in the SRT. The table below provides a list of these KPIs. Some of these, even if they are project-specific, may be used in an aggregate way to support SCIS reporting.

Table 3: KPIs not reporting to the SRT

KPI	Definition	KPI owner	Calculation defined by
1	No. of APIs connected to the Decision Support Tool (DST)	IESRD	Project Defined
2	Number of use case stories in the ICT Ecosystem repository	NTNU, UL	Project Defined
3	No. of municipal staff trained to use the DST	LCCC, TK, MAI, MP, SB, SMO, VORU	Project Defined
4	No. of new DPEB/DPED-enabling prototypes	LCCC, TK, MP, SMO, MAI, SB, VORU	Project Defined
5	No. of study visits by regulatory authorities	LCCC, MAI, MP, SB, SMO, TK, VORU	Project Defined
6	No. of politically approved Bold City Visions with guidelines, roadmaps, and action plans	LCCC, MAI, MP, SB, SMO, TK, VORU	Project Defined
7	No. of changes in regulation	LCCC, TK, MAI, MP, SB, SMO, VORU	Project Defined
13	No. of new DPEBs realised	LCCC, TK	Project Defined
22	No. of new or existing buildings participating in the energy markets	MPOWER, POW	Project Defined
27	No. community participation events organized across all +CityxChange cities	LCCC, TK, MAI, MP, SB, SMO, VORU	SCIS / Project defined
28	No. citizen observatories established	LCCC, TK	SCIS / Project defined
29	No. of community participation events/actions	LCCC, TK	SCIS / Project defined
30	No. of innovation labs/playgrounds contributing to the creation of DPEB	LCCC, TK, MAI, MP, SB, SMO, VORU	SCIS / Project defined
31	No. of Positive Energy Champions trained	LCCC, MAI, MP, SB, SMO, VORU	SCIS / Project defined
32	No. of organisations with new sustainable energy approaches	LCCC, TK, MAI, MP, SB, SMO, VORU	SCIS / Project defined
33	No. of demonstration projects implemented in Follower Cities	MAI, MP, SB, SMO, VORU	SCIS / Project defined

If the KPI/data owners data are able to deliver the data inputs required for the SRT, the MERT will be set up to capture data points in the SRT format. This way, there will only be one point at which data is collected. As the SRT only allows annual data reporting, the data submitted for these KPIs will be processed (if necessary where KPIs reporting frequency is more regular) for submittal to the SRT.

As part of D7.2, and the process of determining the data input requirements of the SRT to be in line with the KPI specifications, the FoA in the SRT were designed as best possible to accommodate the KPI specification. FoA are designed for each city and data will be added through a manual process to the fields. The captured data will then be displayed in the 'Project Data Visualisation' section of the SCIS website, and is filtered according to the location (country, city, demosite), project (+CityxChange, or other projects reporting to SCIS) and type of intervention (i.e. building level energy analysis, energy system integration, and mobility and transport). The SCIS website is open to the public and visually displays an aggregate of the data captured, while also offering a '.csv' format download of the project data, with filters applied, captured for the particular project. The +CityxChange data that will be available on the SCIS will be the data captured for the KPIs listed in Table 2 above.

3.2.2 The +CityxChange MERT

Current functionality and features of the MERT allows for all 33 KPIs' data to be captured in the MERT. Through an ongoing process of engagement with KPI/data owners, the



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calculations for KPIs in the MERT have been refined using the detail captured in D7.1 and data capturing sheets developed for each KPI. The data captured in the MERT will be modelled and displayed in an overall KPI summary dashboard as well as an individual interface for each KPI. Project partners and users from the public will have access to the MERT dashboards, where data can be filtered to view particular datasets and downloaded for external use. Users from the public and project partners will have access to a summary report of each KPI in '.pdf' format, and will have the additional ability to export detailed datasets in '.csv' format.

3.3 Data Availability

As mentioned in D7.3, it is not yet clear for all KPIs when data will be available for M&E. Not all KPI's monitoring data will be available simultaneously and is dependent on the type, scale, and planned timing of the intervention's implementation. Reporting of measured KPI data to the MERT will commence after interventions have been executed, and will be reported at the frequency defined for each KPI. The SRT, in comparison, only accommodates annual data reporting and will therefore only capture the first data annually after an intervention is executed and monitoring data has been aggregated to reflect a year's performance. The KPIs reporting to the SRT will however be able to accumulate more frequent data submissions (monthly, bi-annually) in the MERT, where it will be aggregated to annual figures when submitted to the SRT.



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4 Reporting to the SCIS

As mentioned in Section 3.2.1 of this report, the SCIS SRT provides the overall European platform where project monitoring data from SCC-01 Lighthouse projects and others is captured, stored and processed. The subsection below describes the process of how data is added to the SCIS SRT from the +CityxChange MERT.

4.1 Reporting Monitoring Data

Data is added to the SRT through the SRT interface in the SCIS website. The FoA for each KPI able to report to the SRT is designed by FAC in conjunction with project partners, and set up in a capturing page of the SRT interface for each participating city (as detailed in D7.2). The FoA is then saved and an annual reporting page is created for each KPI. Each reporting page can be accessed to input the monitoring data for annual reporting. The SRT FoAs that were developed for capturing KPI data (for the KPIs listed in Table 2) were designed in the following thematic fields:

- KPI 12 - Energy Systems Integration
- KPI 14 - Refurbished buildings (and new buildings available if necessary)
- KPI 17 - Information and Communication Technologies
- KPI 19 - Information and Communication Technologies
- KPI 20 - Energy Systems Integration
- KPI 21 - Mobility and Transport

This process is followed in order to capture data for a variety of smart city projects using similar themes, enabling the comparison of data between different projects, locations and timeframes. The KPI calculation and data collection framework of the SCIS (SCIS, 2018) does however limit its use for the measurement of interventions specific to a project. This limitation is therefore the cause that currently only six of the +CityxChange KPIs' data can be captured in the SRT. Through engagement with the SCIS it has been confirmed that the design of the FoA, the data capturing method, and the reporting frequency of the SRT can not be altered.

This potentially has an effect on the efficiency of data capturing in the SRT as it would require a manual process. The proposal for automated data sharing from the MERT to the SRT using XML or JSON format APIs was also declined due to the infrequent reporting frequency to the SRT. The SRT is however also an evolving tool, and is subject to change and updates that would take effect throughout the +CityxChange project lifecycle. The different data sharing and capturing capabilities of the SRT will therefore be reviewed periodically to determine how reporting can be streamlined.



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4.2 Reporting Insights and Additional Information

As part of Deliverable 7.5: Data Collection and Management Guideline Report, insights from the monitoring data, feedback from project partners, review of project activities, and evaluation of project interventions will be collated and shared as a deliverable, and also report lessons learned to the SCIS. Feedback from the KPI/data owners and other project partners involved in the KPI measurement process on the use of the reporting tools and data management approaches will be collected and reported on. Ongoing engagement with partners and review of project deliverables will also highlight key challenges faced and how these were addressed in the implementation of interventions, which can be shared with the SCIS section on Lessons Learned in the smart city project themes that the SCIS monitor.



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5 Conclusion

This deliverable is the second revision in a series of reports to be delivered bi-annually through the 5-year cycle of the +CityxChange project. Due to very little project monitoring data being available it is not possible at this stage to report actual monitoring data of the interventions executed. The trajectory for data availability is, however, difficult to determine, and not all KPI/data owners are able to confirm when data will be made available. Partners will be able to submit KPI monitoring data to the MERT in Month 13 of the project. For the limited data that is available, the input to the MERT can be assigned to specific periods or dates to reflect the period in which data was captured. The same approach will be followed for data that is captured in the MERT for transference to the SRT.

Once data is made available it will be captured in the MERT in accordance with the KPI framework developed for the project, from where currently six KPI's data will be reported annually to the SRT, while ongoing effort and collaboration with KPI/data owners will endeavour to increase the number of KPIs reporting to the SRT. A periodic review of the SRTs functionalities will also inform on additional system capabilities and efficiencies that can be applied to improve the data capturing process. The internal data capturing process will see partners able to upload data to the MERT repository using a manual or automated process, while the data shared to the SRT can only be done through a manual process. The MERT will be able to capture project monitoring data at the intervals defined for each KPI from where the data will then be displayed in the KPI summary dashboards and the individual KPI interfaces, as shown in D7.4. This will enable the dissemination and use of project data to partners and the public.

The next revision of this deliverable in month 18 will include more detail on the actual monitoring data, how it has been captured in the MERT and SRT and how data is made available through these platforms. Other points to be discussed for the next revision of this deliverable are tabled below.

Table 4: Points to be addressed

Topic	Points to be addressed	Actions needed
SRT configuration	Setup of the SRT FoA to be in line with how +CityxChange KPIs should be monitored	Ongoing engagement with project partners to get alignment on the SRT FoA and if the proposed FoA would sufficiently calculate what the KPI is measuring.
Data availability	Partners to provide the data points required by the SRT	Ongoing engagement with KPI/data owners to confirm whether they will be able to provide the data required for KPI calculation in the SRT.



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Data modelling	Modelling of data points in the MERT to display the KPI data in the MERT interfaces	Engagement with KPI/data owners, relevant project partners and the SCIS to configure a way to use the SRT format data in the MERT to display KPI performance
		Need to derive new calculations for the KPI
		Need to adjust the frequency of reporting
		Need to adjust data visualisation in the MERT
SCIS	General collaboration	Ongoing engagement with the SCIS to discuss improvements in the SCIS data monitoring capabilities, changes to the SRT, reconfiguration of SRT data input fields, data visualisation options in the SCIS

As these points are resolved, the learnings and decisions made will be applied in the design of SRT data input fields and the way data is exchanged between the MERT and the SRT to ensure that data is sufficiently reported.



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6 References

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