Global Smart City Partnership Program Introduction and Case Studies

Information session for the World Bank Group teams April 20, 2022







Defining Smart City

A city that makes the **best use of data**, **technologies**, and other resources to improve city planning, management, service delivery, citizen engagement and accountability.

Data & Digital Taskaslagy		
Data & Digital Technology	Institutional enablers	
 Data management and analytics Connectivity Interoperability and standards Security and privacy Urban platforms Disruptive technologies 	 Policy, legislation and regulation Leadership and governance City-wide planning (spatial, strategic/ economic, smart city, etc.) Business model and financing Innovation and collaboration platform 	 Education & training Upskilling Technology adoption and outreach Citizen engagement & participation
Impro	oved city infrastructure and service de	eliveries
Built environment Transport, mob Telecommu	ility and logistics Water and wastewater managem nications Health Education and skills Economic	nent Solid waste management Energy c Development
	Smart City	

Smart City Development Process







7th Call for EOIs

April 5th - 29th

Our support: Just-in-time (JIT) Support (Up to 30 days) Operational Support (Up to 60 days)

Expert services may include:

- Technical assessment
- Transfer of expert knowledge and global best practices
- Development of smart city strategy, roadmap and action plans
- Identification of smart city investment options
- Capacity building of the clients
- Virtual or field mission

The GSCP directly funds time and travel of global experts and other administrative costs of agreed activities - not to the project budget.

Building Capacity and Providing Implementation Support to Operationalize the Regional Digital Program in Central Asia-South Asia

Task team's request:

- Provide technical assistance on high-priority Smart City solutions
- Strengthen Smart City capacity-building

Activities by GSCP experts:

- Regional roadshow of engagement workshops
- Assessing Smart City readiness and barriers in each country

Outputs:

- Technical notes of the project readiness assessment
- Advance policy and technical recommendations
- Long-term roadmap to build sustainable Smart City solutions
- Case studies from Dhaka and Korea

	Institutional level:	Regio	nal	cities		
	Location:	Kyrgy Tajiki	rat A vz Re istar	epubli , anc	ic, Uzbekistan, I Kazakhstan	
	Parent project:	The D Asia I	Digit Regi	al Ce onal I	ntral Asia-South Program	
	Support period:	Janua	ary Z	2020 -	present, suppor	t
		in Taj	jikis	tan		
Sma	art City Model					
	Building Blocks	ا ل	> _	Domain	s	
	Data & Digital Technolo	gy		- Tran	sport, mobility &	
	Institutional			- Tele	communications	
	People & Skills					
Dev	elopment Process					
	Assessment	Planr	ning		Prioritization	
	M&E	mpleme	ntati	on	Investment	

Designing a Smart City Strategy and Action Plan for Medellin

Task team's request:

- Defining a strategy to integrate and scale-up the use of digital solutions
- Identify a pipeline of sub-projects and the business models and financial mechanism for the implementation

Activities by GSCP experts:

- Virtual mission to define a strategy and actions
- Share international best practices
- Identify a set of practical project investments
- Support the development of the city master plan

Outputs:

- Smart City maturity assessment
- Smart City initiatives review
- An inventory of opportunities
- A portfolio review of investable projects
- Digital portfolio capture
- Strategic framework and roadmap
- Case studies

Institutional level:	City
Location:	Medellin, Colombia
Parent projects:	Upstream
Support period:	June 2020 - February 2021
art City Model	



Countering Crime and Violence through Geo-referenced Citizen Engagement Tools in Kinshasa

Task team's request:

- Identify how Kinshasa City can apply a Smart City approach to city planning and management with the aim of developing a digital Smart City platform
- The scope was eventually narrowed down to addressing crime and violence cases in the city

Activities by GSCP experts:

- Analyze the market for a digital smart city platform and determine the ideal platform for Kinshasa
- Identify and analyze stakeholder roles
- Conduct rapid assessment of current crime and violence, and propose a reporting application
- Support the development of a Smart City Lab

Outputs:

- Rapid assessment of Smart City readiness and urban crime and violence
- Two Smart City cases as benchmarks
- Concept for the citizen engagement application and the Smart City Lab

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Institutional level: Location: Parent projects:	City Kinshasa, DRC Kinshasa Multisectoral Development and Res <u>ilience</u>
	Project (P171141)
Support period:	October 2019 - March 2021
mart City Model	
Building Blocks	Domains
Data & Digital Technolo	ogy - Urban Safety
Institutional	
People & Skills	
evelopment Process	
Assessment	Planning Prioritization
M&E	Implementation Investment Design

Strengthening Bangladesh's Digital Infrastructure and Capacity to Build Back Better After the Pandemic

Task team's request:

 Guidance and advisory support to Bangladeshi cities to improve their understanding of the impacts of COVID-19, integrate COVID-response systems into Smart City platforms and track the economic and social recovery

Activities by GSCP experts:

- Support the development of project remote monitoring and supervision
- Create an urban COVID-19 response and recovery platform

Outputs:

- An ICT baseline questionnaire created and survey performed
- An assessment and conceptualization of a Management Information System (MIS)
- The conceptual setup of a Disaster Response Coordination Platform
- ToR for hiring firm(s)
- Guidance note and template for cities to integrate COVID responses into their municipal data management system



Institutional level: Location:	Cities and local governments Bangladesh
Parent projects:	Local Government COVID-19 Response and Recovery Project (P174937)
Support period:	October 2020 - March 2021
Smart City Model	
Building Blocks	Domains
Data & Digital Technolo	egy - Health - Telecommunications
Institutional	
People & Skills	
Development Process	
Assessment	Planning Prioritization
M&E	Implementation Investment Design

Using a 3D Cadaster and Digital Twin for Smart Land and Infrastructure Management in Indonesia

Task team's request:

- Phase 1: Diagnose the status of Indonesia's existing spatial data a nd cadastre maps and identify the opportunities and constraints in leveraging 3D geospatial solutions
- Phase 2: Further develop the 3D cadastre business model, technical architecture, and gov capacity to design a Digital Twin

Activities by GSCP experts:

- Performed a rapid assessment and conceptualization of the Digital Twin for 3D cadaster
- Conducted a workshop to deliver the proposed framework and ideas and capture government's requests
- Prepared a comparative benchmarking of global best practices, in cluding business models

Outputs:

- A technical report assessing Indonesia's capabilities with data, maps, systems, and services
- Business model options and technical architecture definition
- Case studies from Korea, Singapore, and Thailand



Mobilizing Smart City Solutions to Ensure Clean and Efficient Water Supply in **Ekurhuleni**

Task team's request:

• Support for developing a Smart City strategy with the City of Ekurhuleni (CoE) and reducing its non-revenue water

Activities by GSCP experts:

- Reviewed existing materials developed by CoE to support Smart City approaches
- Conducted introductory and follow-up sessions with CoE Smart City teams and relevant officials, presenting international experiences from relevant benchmarking cities
- Provided a model/framework, process and criteria to identify priority initiatives and investments
- Facilitated initial discussions with CoE regarding the possible deployment of Smart City solutions to help reduce the percenta ge of Non-revenue Water (NRW).
- Provided technical inputs to support the preparation of a Terms of Reference document (ToRs) for hiring a consultancy firm

Outputs:

- Problem definition and potential digital solutions to NRW
- Case studies from Seoul (Korea) and Kinabalu (Malaysia)
- Refined ToR for consultancy assignment

	Institutional level	: City	
	Location:	Ekurhuleni, South Africa	
	Parent projects:	Technical Support for Smart Cities and a Technology-Driven COVID-19 Response	
	Support period:	September 2020 - March 2021	
Smo	art City Model		
	Building Blocks	Domains	
	Data & Digital Techno	logy - Water Management	
	Institutional		
	People & Skills		
	alonmont Process		
Jev			
	Assessment	Planning Prioritization	
	M&E	Implementation Investment Design	

7th Call for EOIs

Deadline: April 29

We look forward to your EOIs!

WORLD BANK GROUP



Ministry of Land, Infrastructure and Transport

We support:

Upstream Engagement

- Readiness assessment
- Planning & prioritization

Project Design

- Technical assessment
- Solution design

Project Implementation

- Technical input/oversight to procurement
- Data analytics

Annex: EOI Template



1	Partnership P	
3.	Scale and type of entities to be supported	Development process: Upstream engagement/project design downstream/implementation
4.		Scale: Global Regional National City/Municipality National and City
		Type: Government Private Sector Civil Society Academia
5.	Type of support	Check relevant topics under any of the three building blocks of the smart
	needed	city model (multiple choices allowed) and describe what specific elements
		of each building block apply to your proposal and what city infrastructure
		services your proposal intends to improve.
		Data & Digital Technology:
		People and Skills:
		Urban infrastructure and services:
6.	Level of support needed	☐ Just-in-time (up to 30 days of expert time for 6 months) ☐ Operational support (up to 60 days of expert time for 1 year)
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Global Smart City Expression of Interest (EOI) to Partnership Program Global Smart City Partnership Program Phase 2 🗆 a. Data & Digital Technology b. Institutional enablers Expected outputs: c. People and Skills Activity 3 Name: Description: Check relevant building block(s) 🗌 a. Data & Digital Technology b. Institutional enablers Expected outputs: c. People and Skills SECTION E. Results and Impact Describe how the proposed activities will contribute to the vision of GSCP - to improve city planning,

Describe how the proposed activities will contribute to the vision of GSCP – to improve city planning, management and service delivery, engage citizens and enhanced accountability – by making the best use of data, technologies and other resources such as existing systems and infrastructure as inputs. Complete the results chain below, spelling out inputs, activities, outputs and outcomes of the proposed activities. Providing a convincing argument of what good results would look like in the broader engagement context and how the GSCP-supported activities and outputs would contribute to that is key to final selection.

Inputs	Activities	Outputs	Outcomes	Vision	
Data	Activity 1	Output 1	Outcome 1	Improved city planning, management and service delivery	
Technologies	Activity 2	Output 2	Outcome 2	Citizen engagement	
Other resources	Activity 3	Output 3	Outcome 3	Enhanced accountability	

Annex: Selection Criteria

CRITERIA	CORE QUESTION	GUIDING QUESTIONS
LINKAGE TO SMART CITY DEVELOPMENT	How much is the EOI linked to smart city?	 Does the EOI propose use of data and/or technology (ICT)? Does the EOI promote innovation? (Even without explicit use of data and ICT) Does the EOI promote collaboration or an integrated approach (preferably through better use of data and technology)? Does the EOI output include any of the following? Smart city strategy, roadmap, action plan Development or improvement of an ICT system Strengthening of data analytics and ICT capacity Introduction and/or application of specific solutions
FEASIBILITY	How feasible is it to deliver on the EOI?	 Is the EOI clearly linked to analytics, lending, and investment (in its description not merely through the link to p-code)? Is the objective of the EOI clear? Are the proposed activities and deliverables clear and specific enough? Is it feasible to deliver and achieve the objective within the proposed time and with the level of support requested? Has the team thought through the results chain and spelled out the anticipated outcomes well?
READINESS FOR GSCP SUPPORT	How ready is the EOI for implementation?	 Are there existing national or local Smart City initiative(s)? Does the EOI specify the counterpart for this assignment? Does the context of EOI call for smart city engagement? Is the EOI clear about the scope of work and required support from GSCP? Is the overall quality of EOI adequate?
CONTRIBUTION TO GSCP	What does EOI contribute to GSCP? Can GSCP support it?	 Does the EOI contribute to SDGs or any of the GSCP's key smart city elements (Efficiency, Innovation, Resilience, and Inclusion)? Can this EOI benefit from the previous GSCP support experiences? Can this EOI enrich the global knowledge on smart cites (e.g., a good case-study) once successfully implemented? Can the proposed approach of the EOI be replicated in other countries/projects? Can the GSCP pool of experts and/or support modality provide immediate support