

K-City Network : Global cooperation Program 2021 Smart Solution Planning Project

K-City Network Solution Program Secretariat
Korea Agency for Infrastructure Technology
Advancement



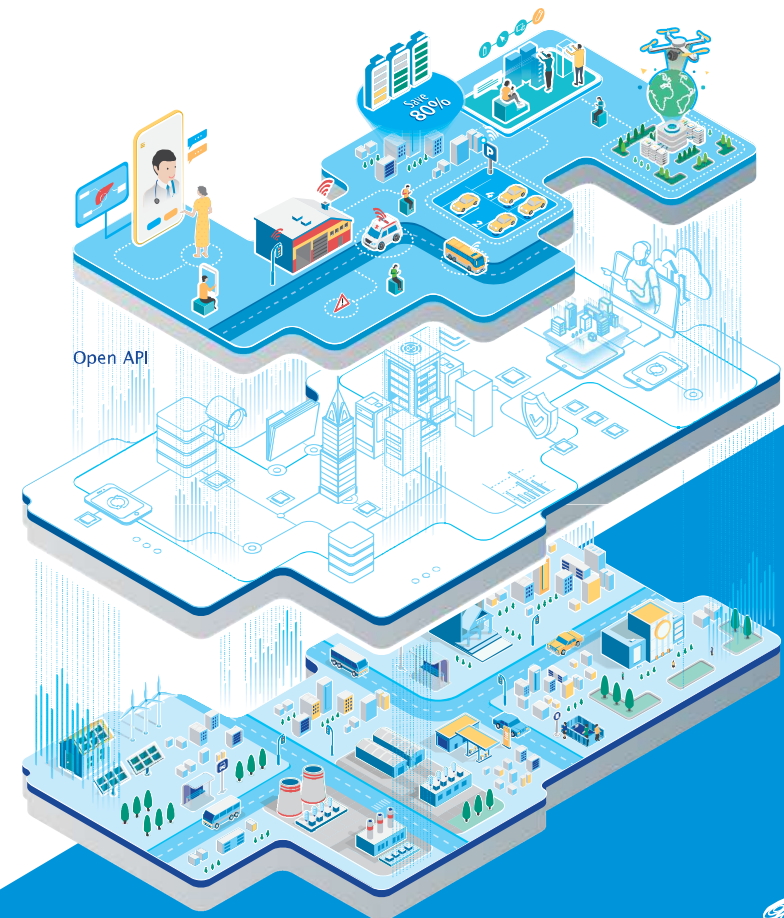
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DEAP CITY

스마트시티 혁신성장동력 프로젝트 사업단



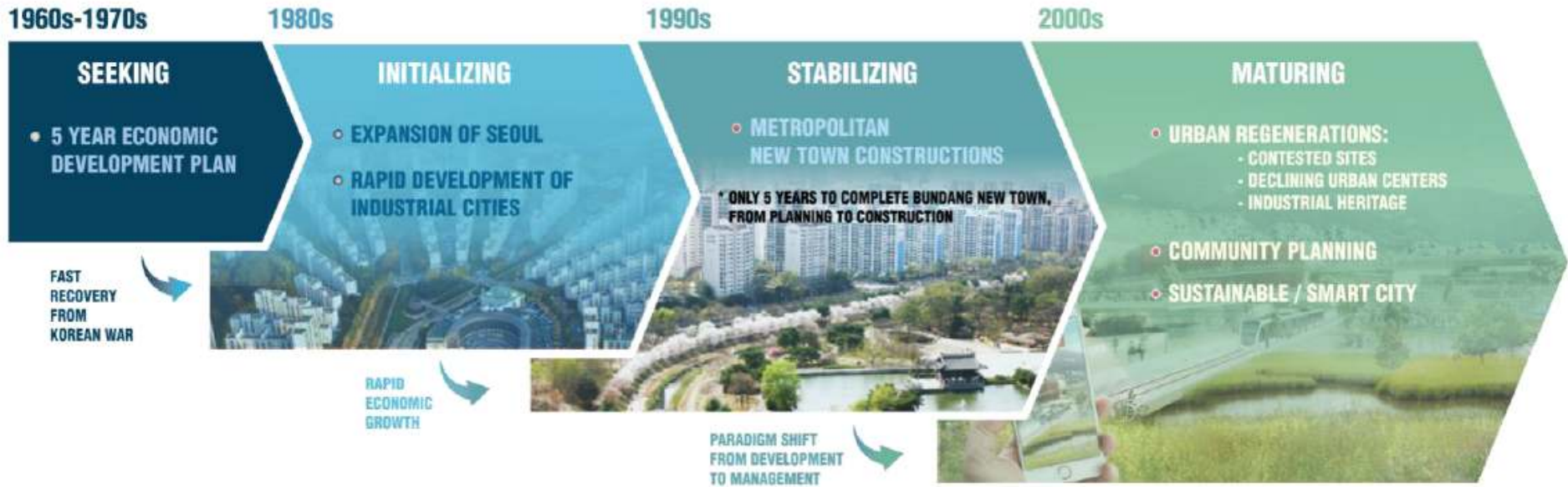
K-City Network : Global Cooperation Program 2021
Smart Solution Planning Project & Smart Solution Demonstration Project



K-City Network Overview

1 K-City Network Overview

Smart Cities of Korea



STAGES OF CITY DEVELOPMENT IN KOREA

CITY DEVELOPMENT IN KOREA PASSES INTO THE MATURITY STAGE

KOREA HAS ACCUMULATED KNOWLEDGE ABOUT SOLUTIONS TO RELEVANT URBAN ISSUES FOR BOTH MATURED CITIES & NEW CITIES

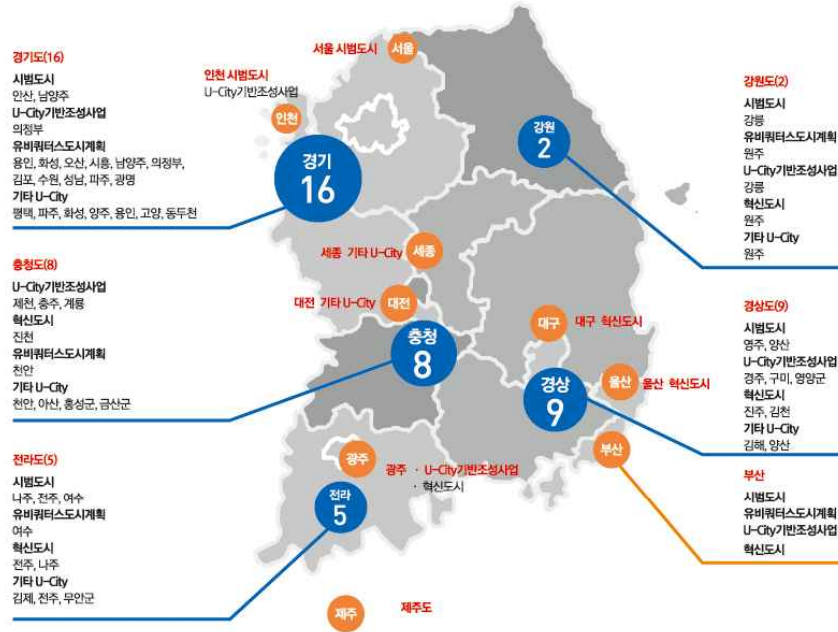


- A city where ubiquitous services are provided through city infrastructure using ubiquitous city technologies
- A city that promises to provide an environment-friendly urban milieu with advanced ubiquitous infrastructures and services for residents and visitors
- A customized city based on the convergence of ICT (Information and Communication Technology) with city development & management

1 K-City Network Overview Smart Cities of Korea

For new cities, ubiquitous city solutions have been adopted since 2004. Smart grid technology and IoT service solutions were experimented in several sites

Ubiquitous City



* 국토교통부, 행정자치부 등 U-City 사업을 추진 또는 계획 중인 지자체는 총 73개 도시로 파악됨 (13.8월 기준)

사업명	수행기간	담당부처	지자체수
U-시범도시사업	09~13	국토교통부	15
혁신도시사업	07~	국토교통부, 행정자치부	11
U-City 계획	~15	국토교통부	25
기반조성사업	05~09	행정자치부	10
기타	~12	국토교통부, 행정자치부, 산업통상자원부	14

Smart City



IoT TestBed



What is K-City Network?

K-City Network is a global cooperation program that offers packaged support, including **identification and development of a Korean smart city project** and **technology transfer for cities overseas**, on the basis of **inter-governmental cooperation**.



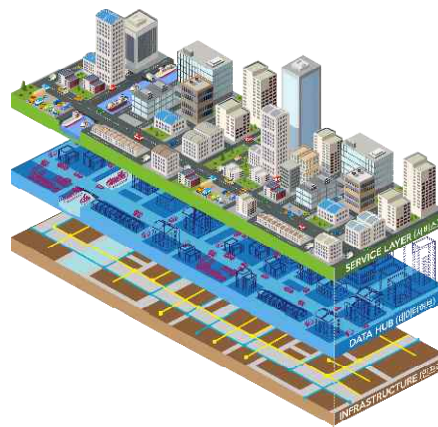
Definition of Smart City Solution

Smart solutions refer to technologies to provide services and related platforms or systems in the areas of transportation, energy, environment, security, urban administration, etc.



Service

Applications designed for the benefit of citizen convenience and administrative efficiency (e.g. smart parking services)



Platform

Combination of the software to collect, store and transfer data with the server to deal with such process (e.g. video monitoring platform)



System

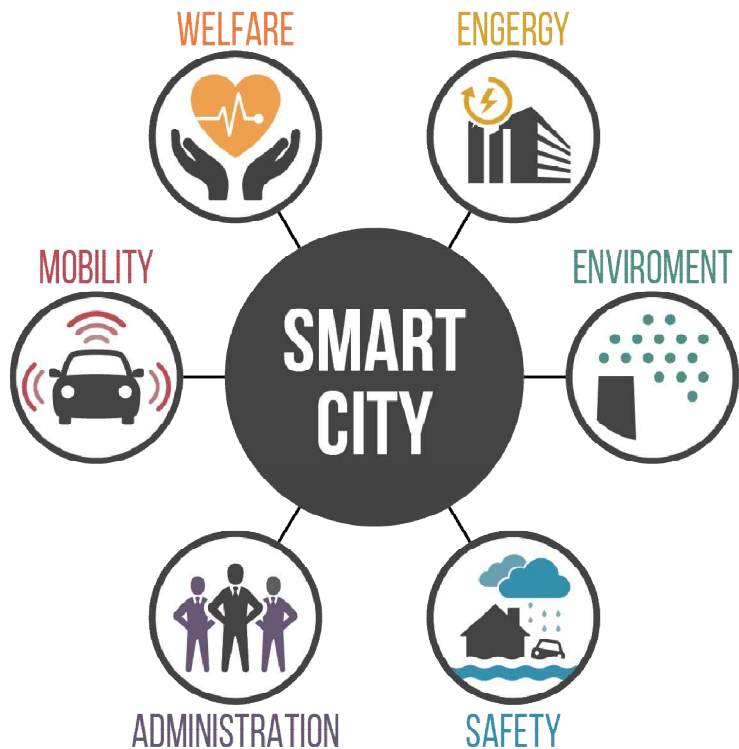
A set of various sensors, devices and physical infrastructure installed on the basis of data platform to carry out specific functions (e.g. transportation card system)

1 K-City Network Overview

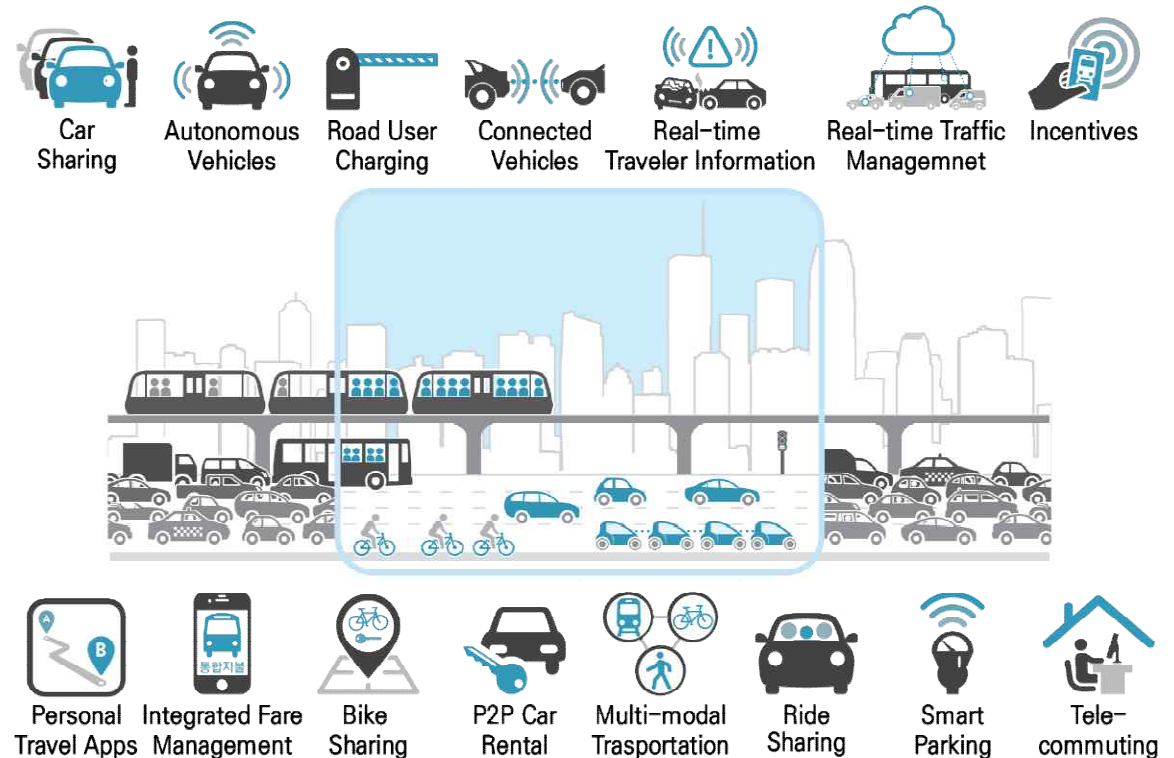
Definition of Smart City Solution

Solution Program formulates a plan to develop and operate a **standalone or packaged solution** to address **urban issues** in fields such as **transportation, energy, and the environment in cities overseas.**

Smart City Domains



Examples of Smart City Solutions



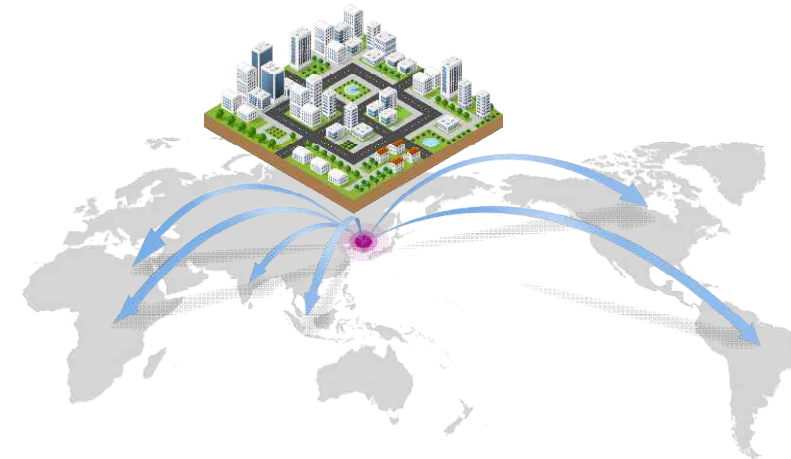
K-City Network : Solution Program

K-City Network : Solution Program is intended to share smart city experiences with cities outside Korea willing to adopt Korean-style smart city development and **support outstanding smart city solutions** developed by Korean businesses to access international markets



Solution Planning Project

Analysis of project conditions of the candidate city, **recommending suitable solutions**, reviewing project details, and considering **feasibility for project implementation**

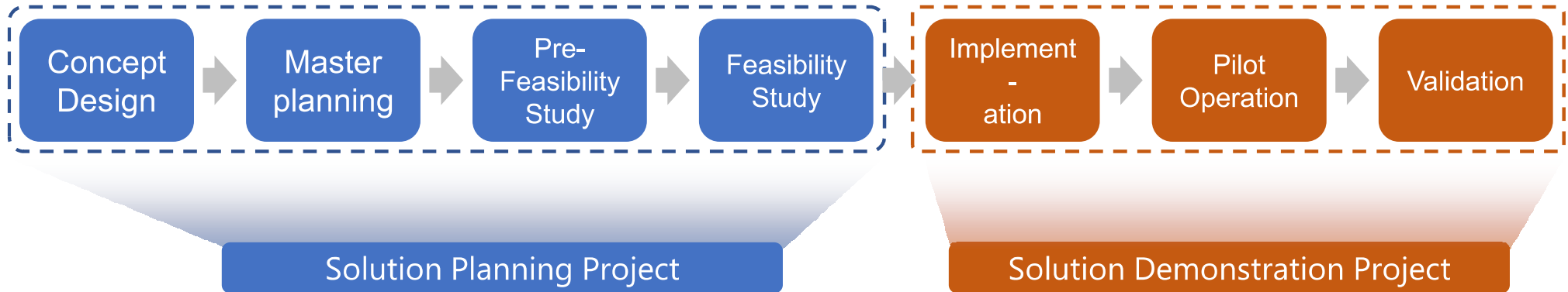


Solution Demonstration Project

Smart city technologies which has already proven its effectiveness or been commercialized in and outside Korea will be **implemented and demonstrated** in oversea cities.

K-City Network : Solution Program

Process of Smart City Projects



Target Projects	smart city solutions projects (services, platforms, or systems)	Overseas demonstration project of domestically commercialized smart city solutions
Applicants	Central governments and local authorities overseas	Korean organizations and businesses (must include an international partner in the consortium)
Scale of Support	Approximately KRW 200 – 300 mil. per project / For up to 4 projects	Approximately KRW 400 – 600 mil. per project / For up to 3 projects
Project Period	Up to 10 months	Up to 11 months



DEAP CITY

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K-City Network : Global Cooperation Program 2021
Smart Solution Planning Project & Smart Solution Demonstration Project

Smart Solution Planning Project



2 Smart Solution Planning Project

Solution Planning Project

What is Solution Planning?

This project supports planning to develop and apply Korean smart city solutions for smart city projects that are to be considered or carried out by foreign governments.

What are the main Goals?

- I **identify smart city cooperation projects** in order to develop a concrete plan for urban problem solutions
- II **share and disseminate each other's best technologies** and practices among partner countries for mutual benefits and prosperity

Who can apply?

Cities overseas that need planning to **deploy Korean smart city solutions** or are interested in adopting and demonstrating smart city solutions developed in Korea.

→ Departments, agencies and public bodies of central, federal and local government

Target Projects

Smart city project of the candidate country, which aspires to learn from **Korea's smart city experiences and deploy smart solutions to solve urban problems**

-  Simple infrastructure development projects or R&D projects
-  has a comprehensive plan as to smart city solutions (e.g. concept design, master plan, feasibility study etc.)
-  has a secured budget
-  May link the proposed project with another smart city collaboration project being or to be implemented in partnership with a Korean public institution or corporation.

Past Projects of 2020 - Transport Management Systems (Bogota - Columbia)

- Location
Bogota-Guarduas Expressway (119km) and Traffic control center
- Project concept
Feasibility study on constructing traffic control center and traffic management facilities on arterial roads as a pilot model of national Intelligent Transport Systems(ITS) project
- Scale of support // Project period
288 million KRW // from 15/Jul/2020 to 21/Jan/ 2021 (5 months)
- Partner country
The Ministry of transportation of Columbia



Past Projects of 2020 - Integrated Management Center (Gaziantep - Turkey)

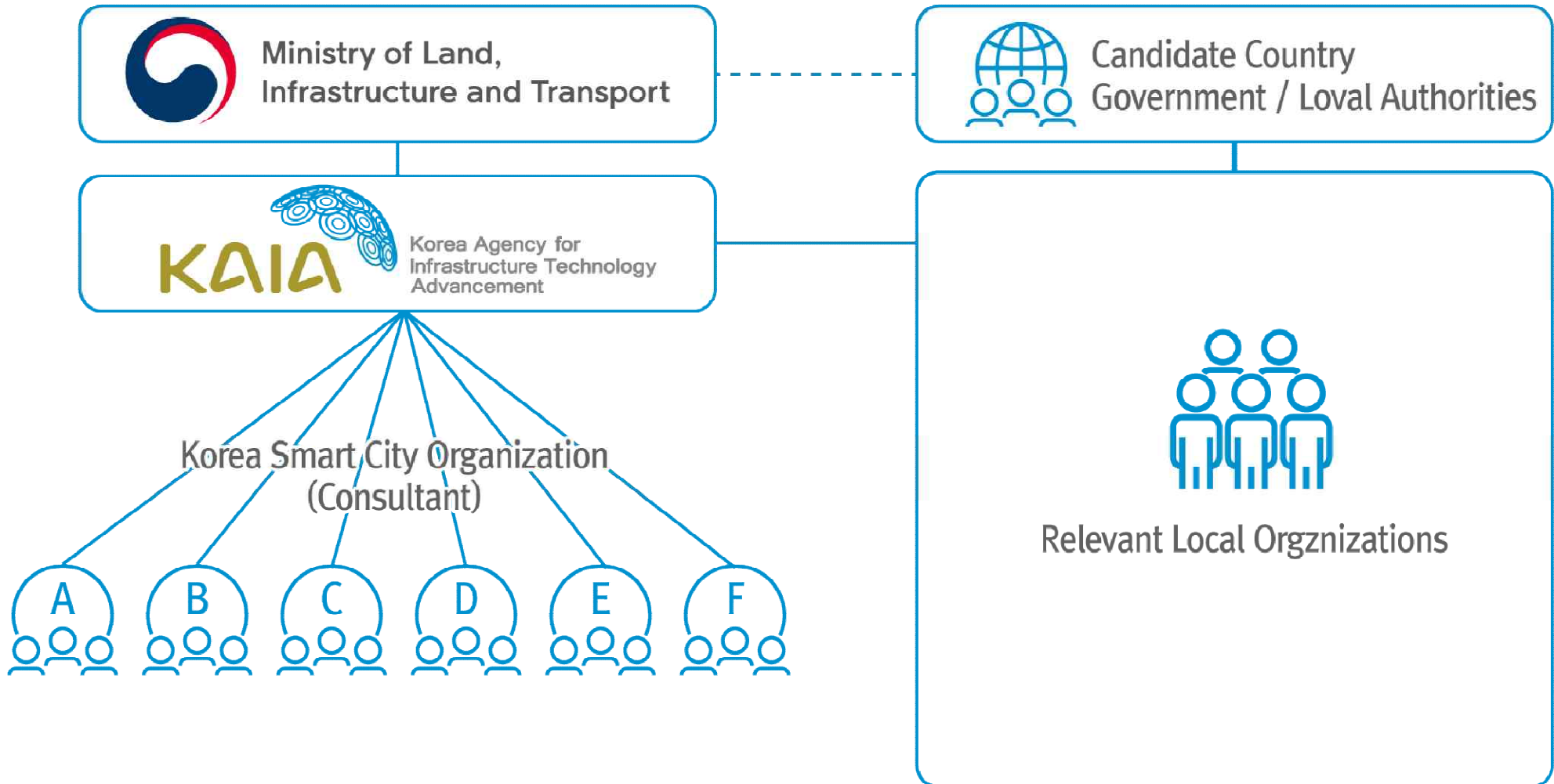
- **Location**
Renovated science museum in Gaziantep located in southeastern Turkey
- **Project concept**
To integrate and operate existing decentralized city management centers, devise a smart service related action project and plan of integrated management center platform
- **Scale of support / Project period**
286 million KRW / from 15July to 21Dec 2020 (5 months)
- **Partner country**
Information Technology department of Gaziantep City



2 Smart Solution Planning Project

Implementation Structure

How is this project organized?



Scale of Support

Up to 300 million KRW (300,000 USD) per project,
for up to **4 cities overseas**

Description of Support

Project Planning assistance to develop smart city solutions(services, platforms, or systems) of the candidate city, which aims to tackle critical urban problems in fields such as transportation, environment etc.

- Based on the status and condition analysis of the city, a smart solution will be presented to resolve major urban issues, and a feasibility study will be supported

Follow-up Support

According to the result of feasibility study, **projects with high potential and feasibility will be granted incentives** when applicant applies for a smart city solution demonstration project next year

Deadline

The applications must be submitted to the K-City Network Solution Program Secretariat (Korea Agency for Infrastructure Technology Advancement (“KAIA”)) before **6 p.m. April 20, 2021 (Tuesday), KST** via electronic documents sent over **e-mail**

Contacts

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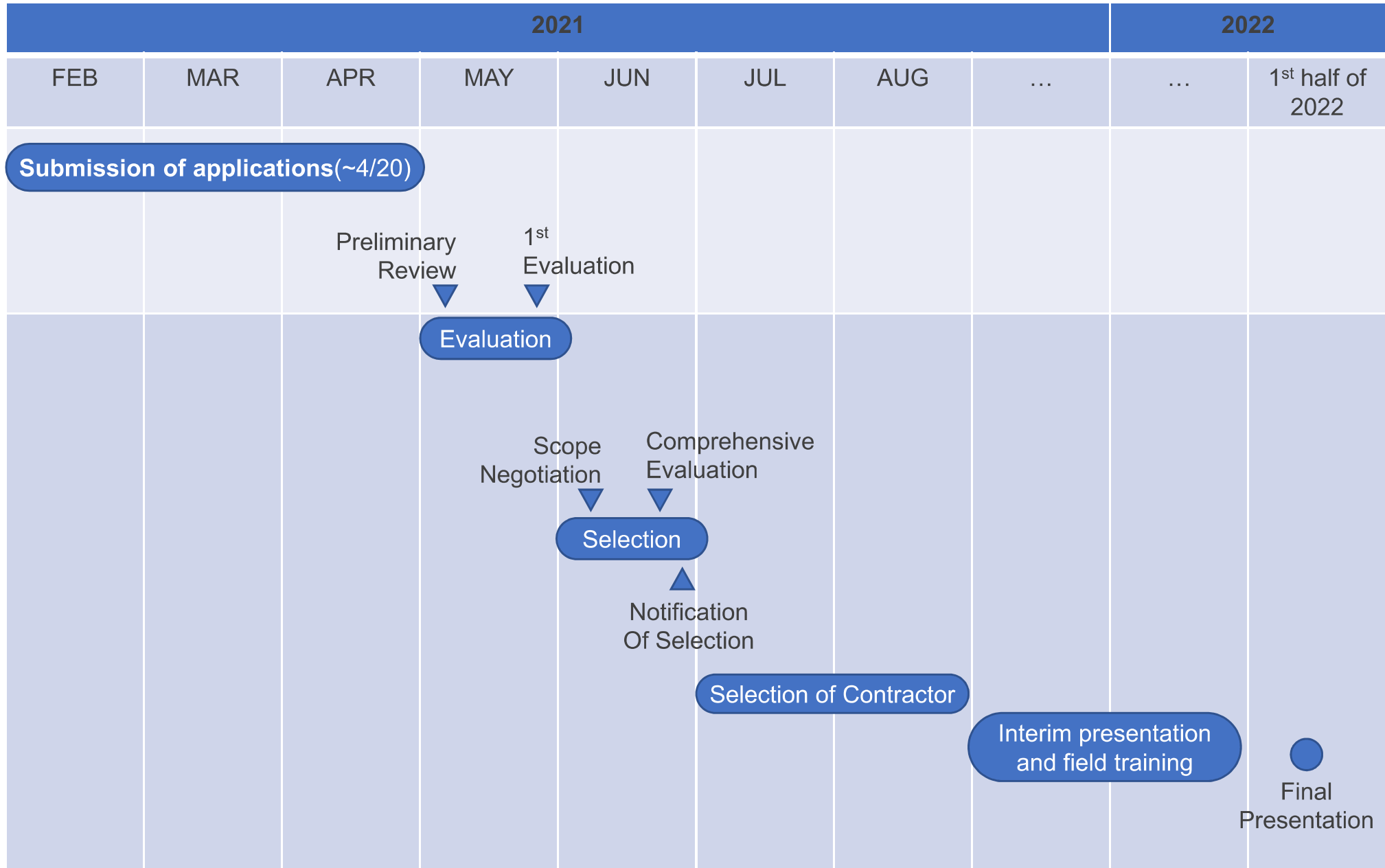
Required Documents

Required documents below shall be submitted on or before the deadline.

- ✓ The Application (signed or sealed by the head of the organization)
- ✓ The Proposal
- ✓ Collaboration Commitment among Relevant Organizations
- ✓ The Consent to the Relevant Information Sharing and Cooperation
- ✓ Document Checklist

2 Smart Solution Planning Project

Application & Evaluation Process



2 Guide for Applicants - Project proposal contents

1. Solution Planning Project Overview

- 1.1 Project name
- 1.2 Project overview
- 1.3 Areas of cooperation with the country for the project
- 1.4 Relevant department/agency of the country

2. Need for and Feasibility of the Project

- 2.1 Smart city-related policy or implementation strategy
- 2.2 Current state and major issues of the candidate city
- 2.3 Background and need for the project
- 2.4 Related smart technologies and infrastructure deployed in the city
- 2.5 Goals and implementation strategy of the project

3. K-City Network Application Overview

- 3.1 Type of smart solution
- 3.2 Application field and the scope of work
- 3.3 Measures for cooperation with Korea to

demonstrate the solution and requests to be made to Korea

4. Smart solution development plan

- 4.1. Estimated project budget
- 4.2. Project implementation structure
- 4.3. Funding plan including private funds for solution demonstration down the road
- 4.4. Target site selection for the solution project
- 4.5. Timeline going forward

5. Others

- 5.1. Relevant Korean government department and partner organization (corporation)

- The proposal shall be up to 30 pages(summary up to 2 pages)
- Recommended to write in English

2 Guide for Applicants - Tell us about your city

- What is Smart city-related policy or implementation strategy of the city?
 - smart city-related policy or national implementation plan of the country
- What is Smart solution development plan of the city?
 - Project plan to be implemented after or in connection with the K-City Network Program.
 - Funding plan including private funds for solution demonstration down the road
- Why the smart solution of Korea are needed?
 - The need, rationale, and urgency for a smart city solution project.
 - The need for cooperation with the Korean government

Q1

Is there a limit on the number of project proposals for each country?

A1

There is no limit on the number of applications by country, but the evaluation process will be conducted in consideration of equity in case of excessive application.

Q2

Are project expenses distributed directly to overseas country/organization?

A2

The project expenses will be distributed directly to the project consultant, and the budget allocated for international organization will be given through the consultant.

Q3

We are already working on a project with consultant in Korea. Is it possible for the consultant we are working with to be selected through the bid process?

A3

Contractors will be selected basically through the open competitive bid process. We are working on preparing the evaluation criteria and scope of work for contractors to be selected, which will be notified later.

Thank you

K-City Network Solution Program Secretariat
Korea Agency for Infrastructure Technology
Advancement

