Outline of the Incheon Free Economic Zone

ifez

Project duration
2003 ~ 2030

(2001.03) New Airport Opening
(2003.08) Designated as the first
free economic zone in Korea

Size
122.43 km²

Planned Population
545,803

Budget
$ 36.1 Billion

CHEONGNA

YEONGJONG

SONGDO

SONGDO in 2003 ·········· CHEONGNA Now

IFEZ Specialized Business Areas

Perfect Infrastructure
- **Incheon International Airport**
- **Incheon New Port**
- **International Cruise Terminal**
- **Global Campus**

Highly qualified workforce
- **IT(Information Tech) workforce**
- **BT(Bio Tech) workforce**
- **NT(Nano Tech) workforce**

International City
- **Optimal business environment**
- **The best settlement area for foreigners**

Transportation Tourism/Leisure Logistics Education Healthcare

WHY 1
Why do it?
What's the need?

WHAT 2
What should it do?

HOW 3
How will it get done?

Global Leading
Smart U-City 송도!

Why "Smart City"?

through "Smart City",
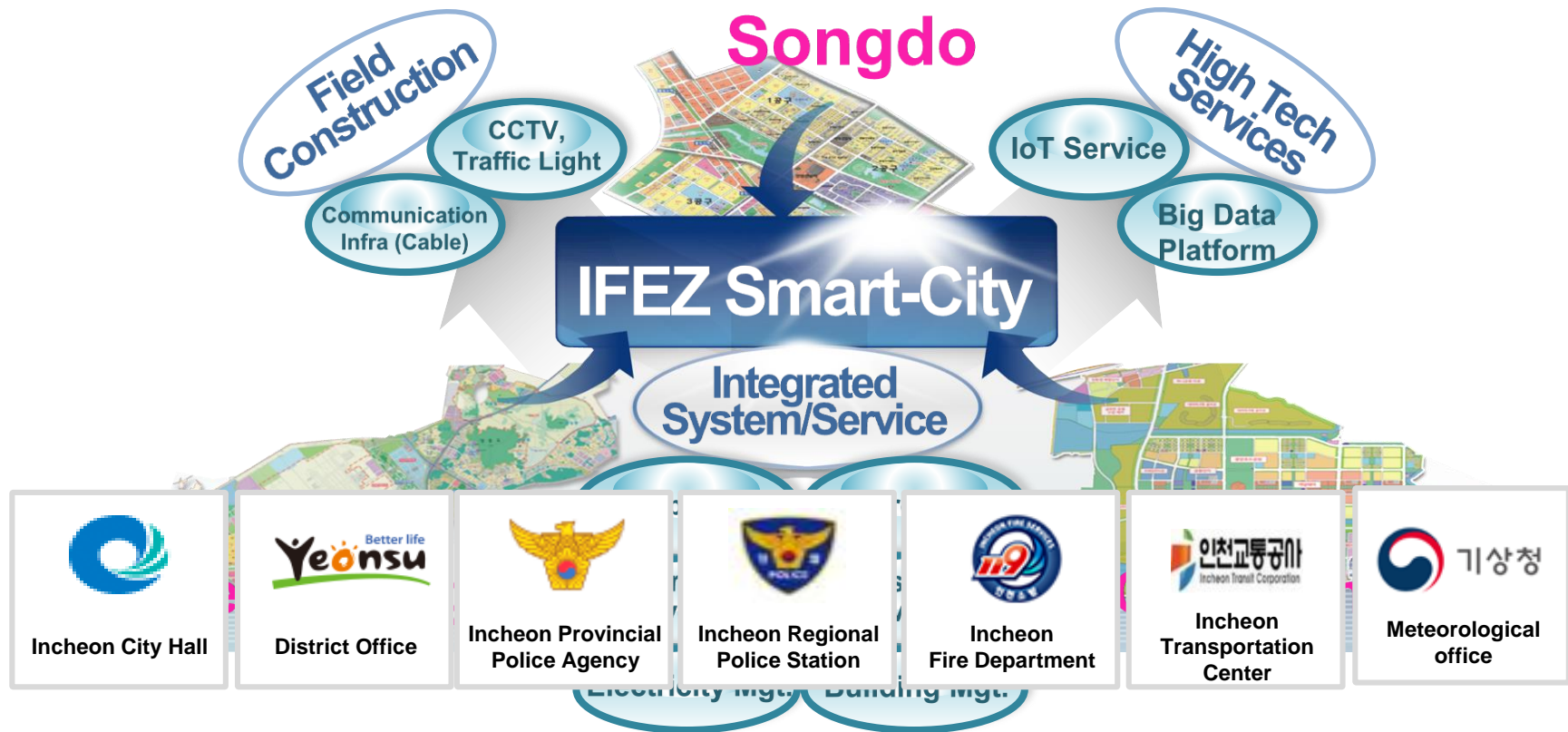## services that were previously configured individually are integrated into one

Conventional

Non-Conventional

Public Safety
Public transport
Mobility
Shopping
Internet of Things
Healthcare
Energy & Grid
Lighting, Appliances, Equip
Energy Utilities & Water
Education
Parking
Government
Homes
Environment
Waste
Buildings
Industry

SMART CITY

Smart Parking
Public Safety
Smart Buildings
Smart Health
Waste Management
Open Data
Education
Traffic Management
Electromagnetic Emissions
Smart Environment
Internet of Things
Smart Energy
Gas & Water Leak Detection
Smart Street Lights
Air Pollution
Water Quality
Electric Vehicle Charging
Smart Home
Intelligent Shopping

Structure of IFEZ Smart City

Songdo

Field Construction
- CCTV, Traffic Light
- Communication Infra (Cable)

High Tech Services
- IoT Service
- Big Data Platform

IFEZ Smart-City

Integrated System/Service

| Incheon City Hall | District Office | Incheon Provincial Police Agency | Incheon Regional Police Station | Incheon Fire Department | Incheon Transportation Center | Meteorological office |

1 WHY
Why do it?
What's the need?

2 WHAT
What should it do?

3 HOW
How will it get done?

Global Leading
Smart U-City 송도!

How to build "Smart City"?

"Smart-City" has changed the way to solve urban problems.

Conventional	Non-Conventional
� **Large-scale investment**	◆ **The right investment at the right place**
◆ **Long-term plan**	◆ **Step by step plan**
◆ **Physical infrastructure**	◆ **Maximization of investment efficiency**
◆ **Residential space**	◆ **Services based on city data**

"Smart City" Components

Smart City Approach 5 Layers

3 Core Elements

| Service |
| Platform |
| Infrastructure |

The Second Focal Area

Smart Service *evolved by Public & Private Service*
- E-Government, Smart Home IoT

Smart Space *combined by IT*
- GIS, Facility, Equipment

Smart Infrastructure *combined by IT*
- Energy, Traffic, Communications system

Basic Infrastructure
- Land, road, water, electricity, etc.

Urban Planning (Real Estate Development)

The First Focal Area

- **Urban Utilization Side**
- **Consumer-centered**
- **Commercial, Cultural and Business**

- **New Town Development Side**
- **Provider-centered**
- **Residential and public services**

ifez 인천경제자유구역 Incheon Free Economic Zone
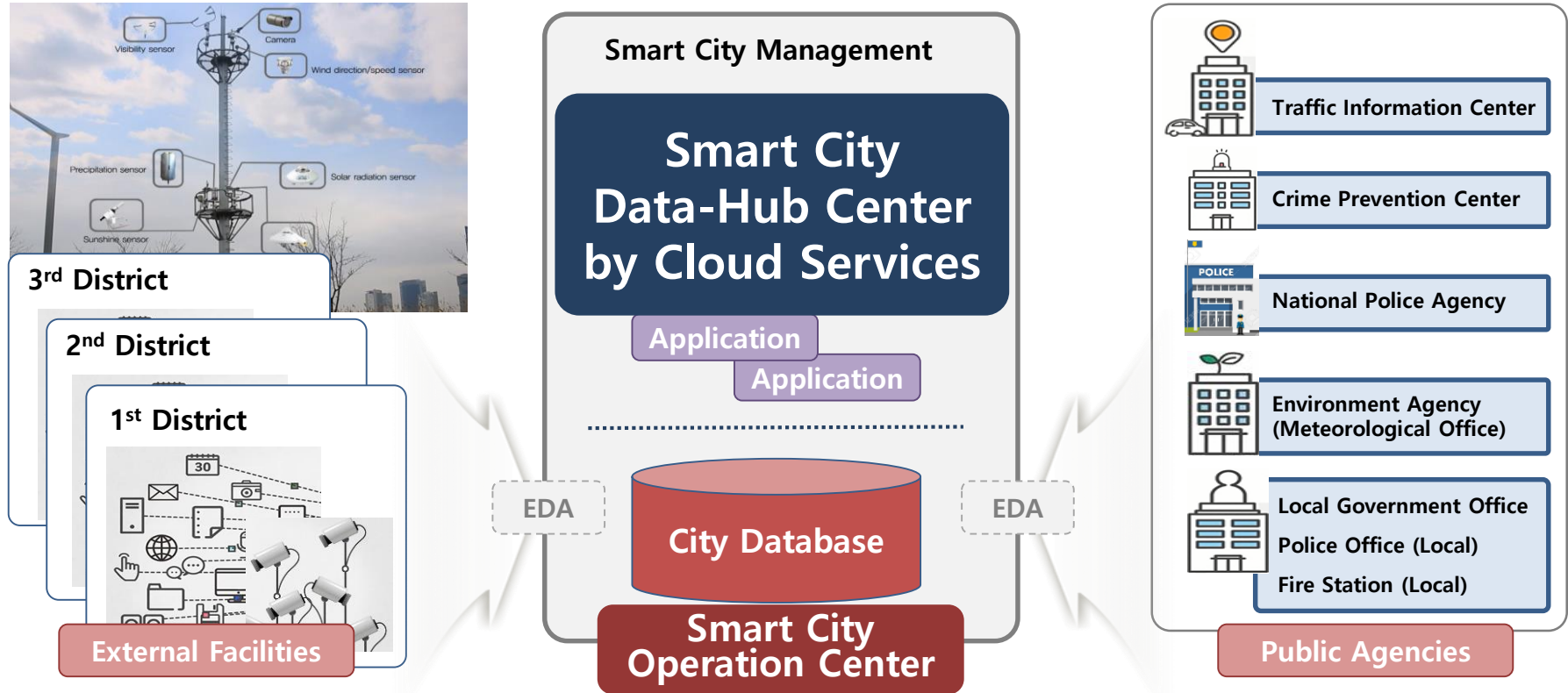
인천스마트시티 INCHEON SMART-CITY CORPORATION

The infrastructure and services are linked to each other in the center of **the Smart City Platform**.

The City Integrated Operation Center is equipped with a technology drive system centered on core technology, a data driven system for integration between areas, and a governance system for continuous implementation
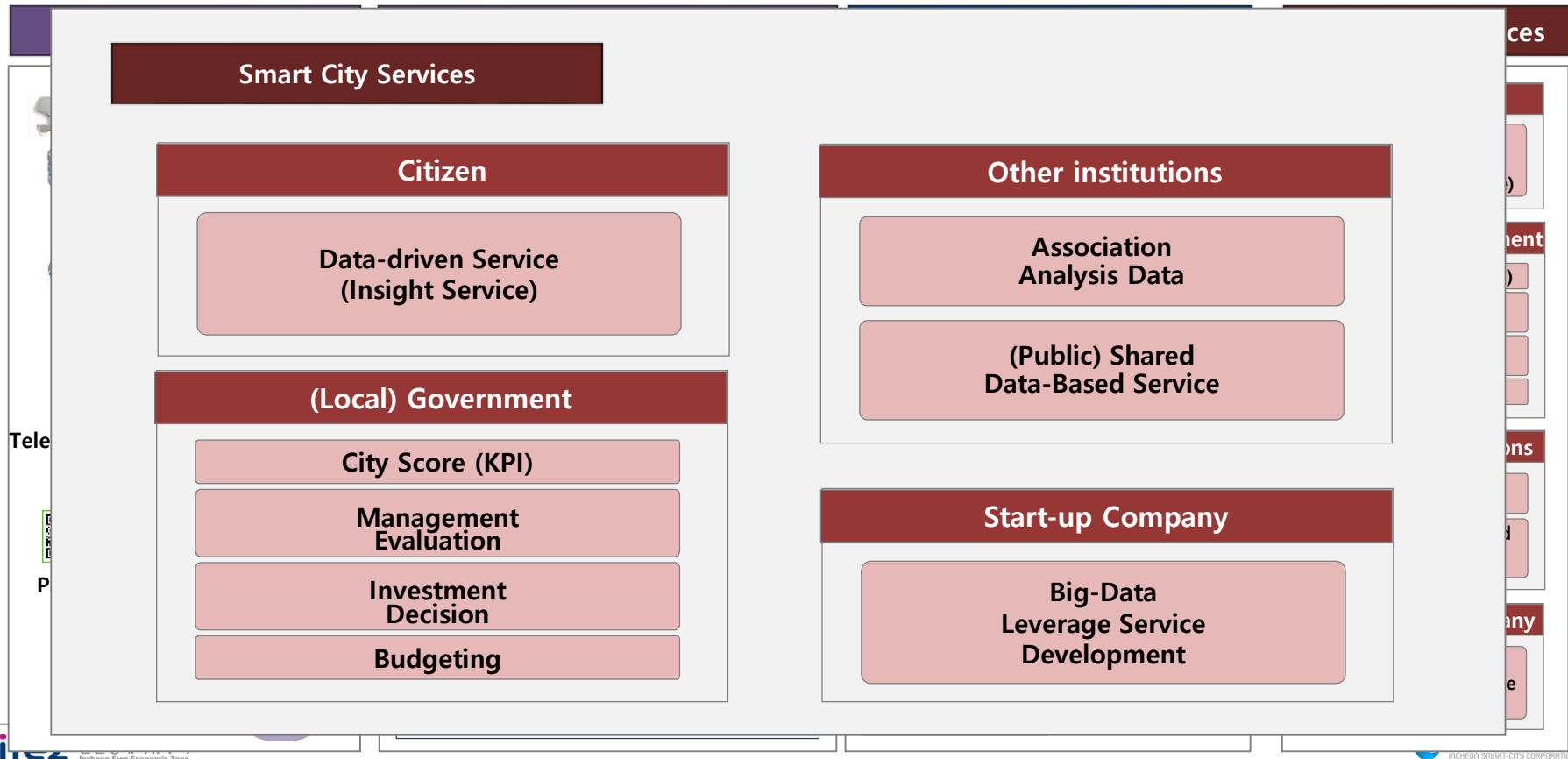
3 Core Elements

Service

Feedback ⬇⬆ *Data*

Smart-City Platform

Decision Making ⬇⬆ *Data*

Infrastructure

How to Collect many different data and information

How to Store and Manage data and information How to Transform those to service

How to Provide service to citizens
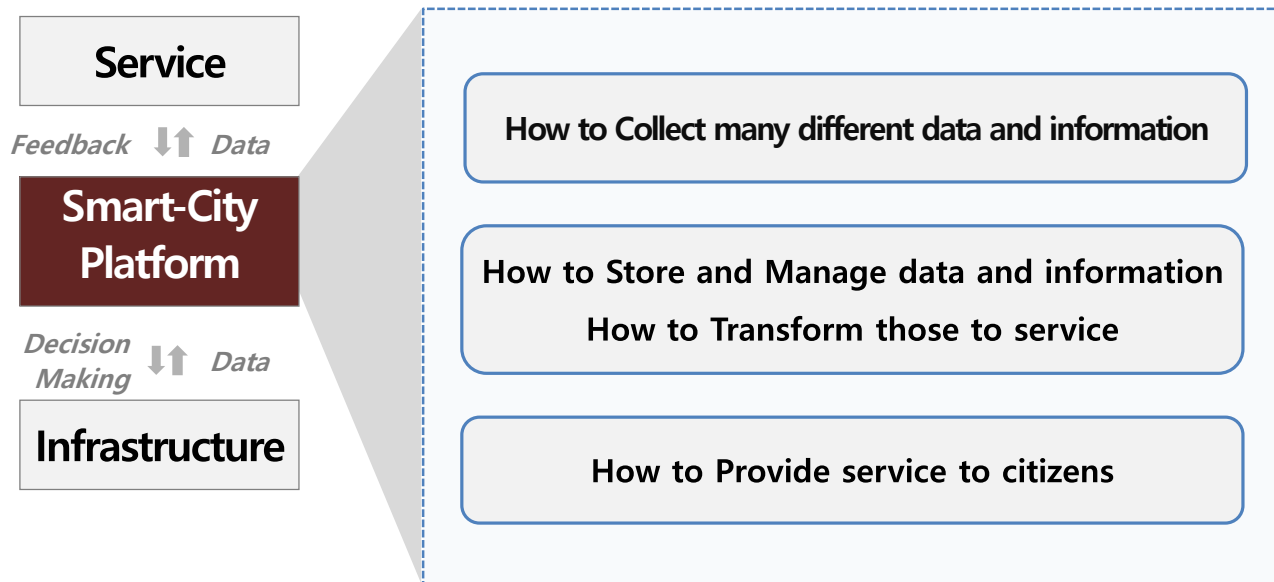
"Smart City" Main Components

Smart City Management

Smart City Data-Hub Center by Cloud Services

Application

Application

EDA

City Database

Smart City Operation Center

3rd District

2nd District

1st District

External Facilities

EDA

Traffic Information Center

Crime Prevention Center

National Police Agency

Environment Agency (Meteorological Office)

Local Government Office

Police Office (Local)

Fire Station (Local)

Public Agencies

IFEZ SMART CITY IOC (Intelligent Operation Center)

Data-Hub Center with Big Data

Smart City Services

Citizen

Data-driven Service
(Insight Service)

(Local) Government

City Score (KPI)

Management
Evaluation

Investment
Decision

Budgeting

Other institutions

Association
Analysis Data

(Public) Shared
Data-Based Service

Start-up Company

Big-Data
Leverage Service
Development

Smart City Sustainable Program

Provision of a new Startup environment

based on smartcity data and 4th industrial revolution technology.

Creation of a Startup self-sustaining ecosystem

with the participation of citizens, enterprises, organizations, etc.

Big-data Based Biz Support	High-Tech(AI) Biz Support	Commercialization Consulting

Data Processing

Analysis

Visualization
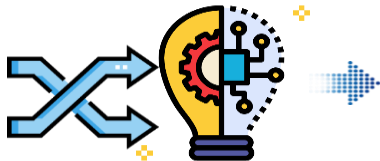
Vision

"Global Leading Smart City"

**Anytime,
Anywhere,
Anyone
with Smart City Services**

- Convenient City Service
- Better Quality Of City Life
- 24 hrs City Control
- The Safest City
- Private-Public Profit Model

Strategy

"Simple & Complete Smart City"

One Space

IFEZ Smart City
Operation Center

One System

IFEZ Smart City
H/W Platform

One Service

IFEZ Smart City
S/W Platform

Development Plan

"Comprehensive & Efficient Smart City"
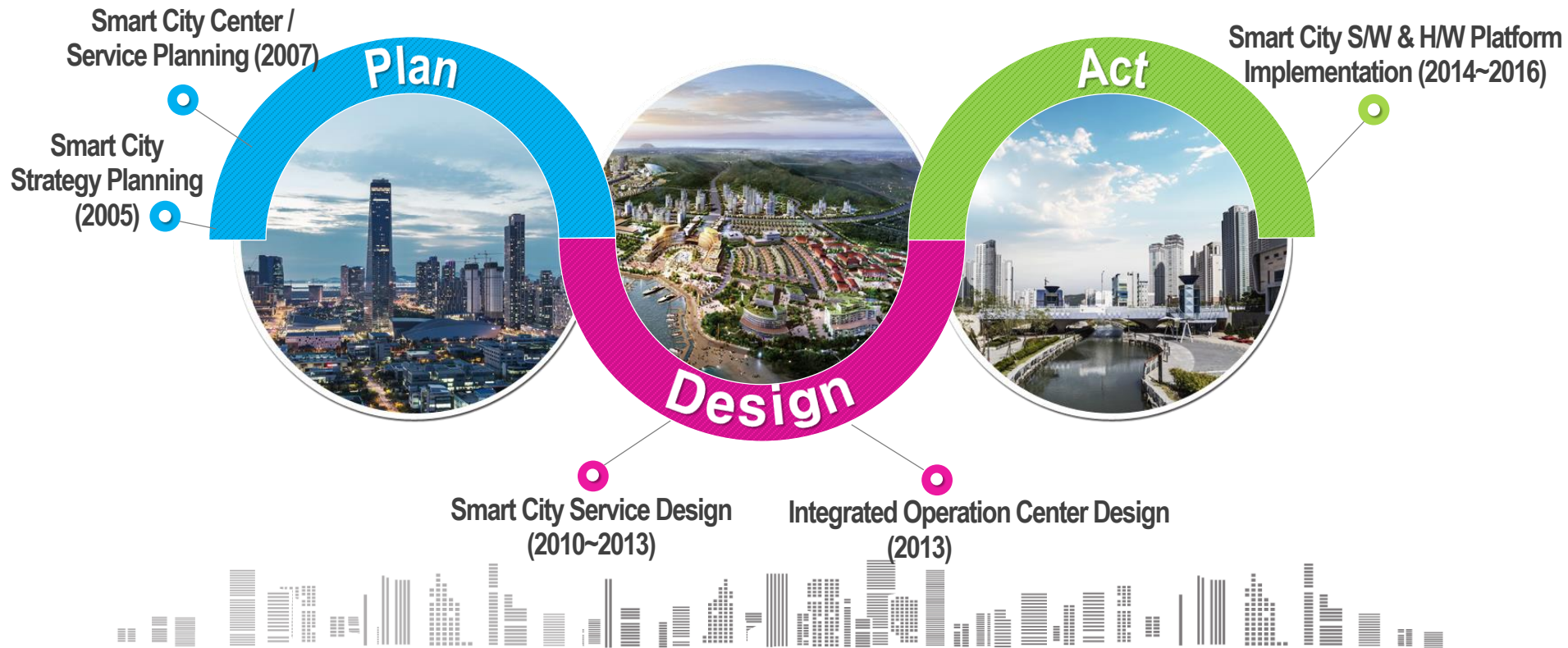
Smart City Center / Service Planning (2007)

Smart City Strategy Planning (2005)

Plan

Smart City S/W & H/W Platform Implementation (2014~2016)

Act

Design

Smart City Service Design (2010~2013)

Integrated Operation Center Design (2013)

Progress

"Step by Step Smart City"

1st step
Construction of Smart-City Infra
2003~2009

· Establishment of information strategy
· Construction of communications infra

1st	2nd	3rd	4th
Mechanization, water power, steam power	Mass production, assembly line, electricity	Computer and automation	Cyber physical system

2nd step
Implementation of Smart-City Service
2010~2016

· Progression of 3-Areas Smart-City project
· Integration of Smart City in 3-Areas into one IFEZ Smart City

3rd step
Upgrading the Smart-City & Expanding new services
2017~2022

· Advancement of IFEZ Smart-City Platform
· Development of new Smart-City Services
  (with IoT, Big-data skills & Cloud technique)

Services

"Integrational & Equivalent Smart City"

Public Service

U-Traffic	U-Crime Prevention
U-Facility	U-Disaster
U-Green	U-Traffic Facility

Private Service

U-Home	U-Store
U-Education	U-Building
U-Healthcare	U-Office

Smart City Expected Effects
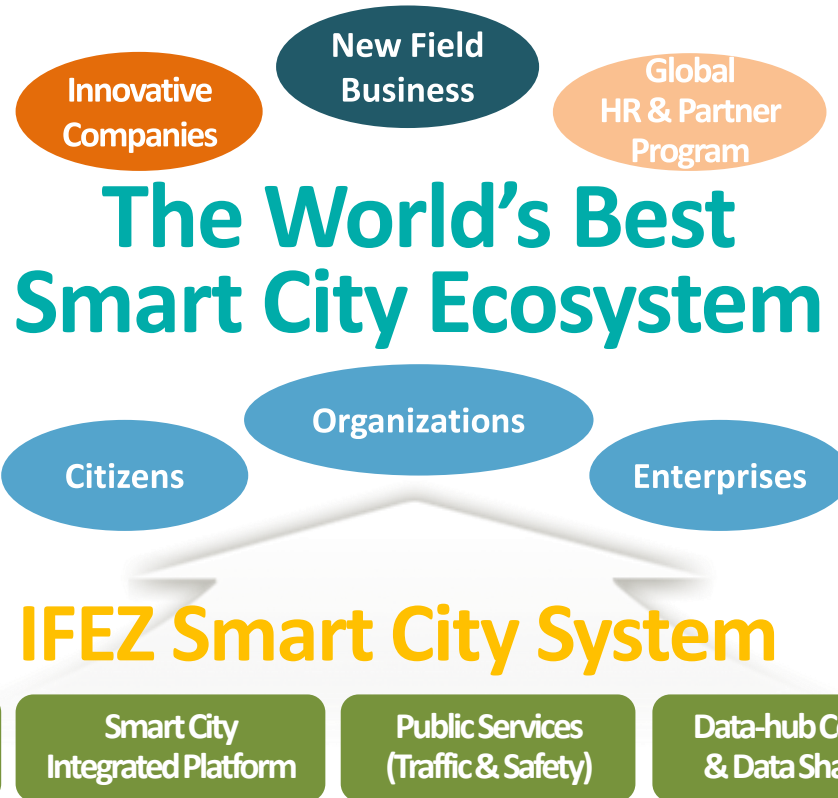
Characteristic of IFEZ SMART CITY

Planning

Why? → **Smart-City Concept**

Execution

How? → **Smart-City Platform**

Benefit

What? → **Smart-City Service**