

Smart City Implementation of Society 5.0



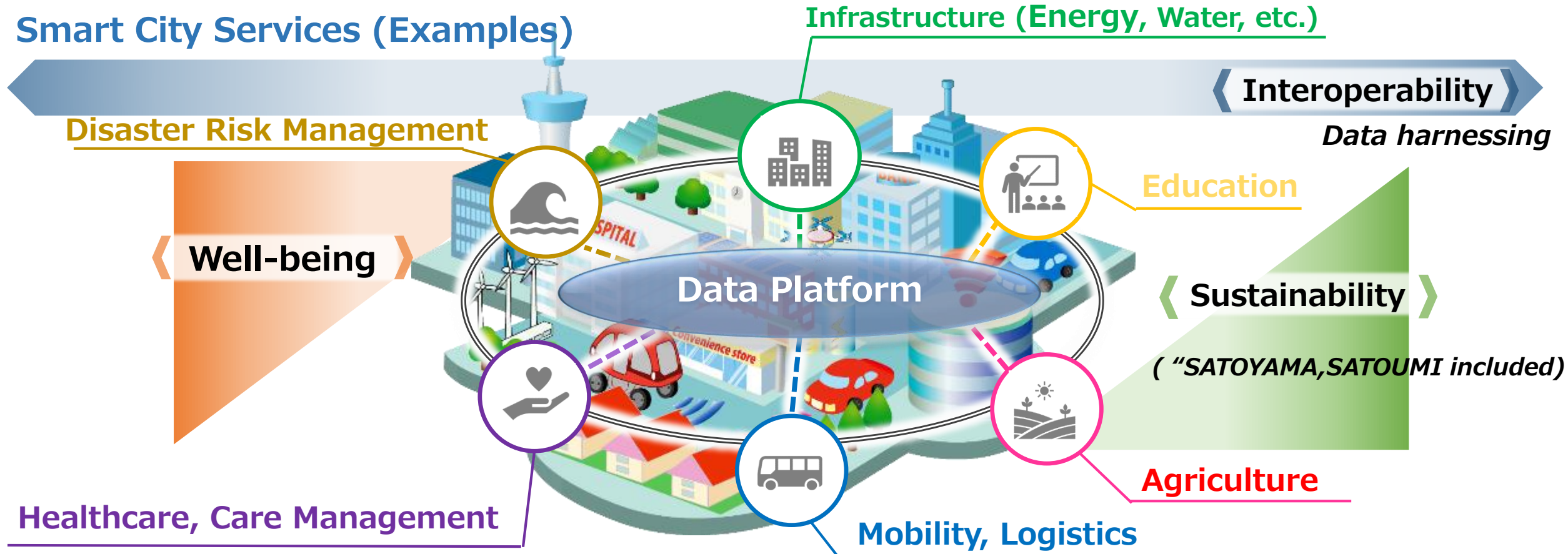
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Smart City in Japan

Smart City is:

- An initiative to solve urban & regional issues and create new value by utilizing advanced technology & management
- A comprehensive showcase of Society 5.0

Smart City Services (Examples)



(Cabinet Office)

Smart City in Japan = Place for advanced implementation of Society 5.0

Society 5.0 with the National Data Strategy

We will realize a citizen-centric society that balances efficiency and trust.

We aim to realize a sustainable human society. It is the human-centric society that creates new value by achieving both economic development and solving social issues. It is achieved through a digital twin by using data.

It is consistent with the vision of Society 5.0 that is the future vision of Japan. Our society values trust and safety. It is essential to realize high efficiency and hospitality services at the same time.

Philosophy

Vision

Principle

(Digital Agency)

Principle of Data strategy

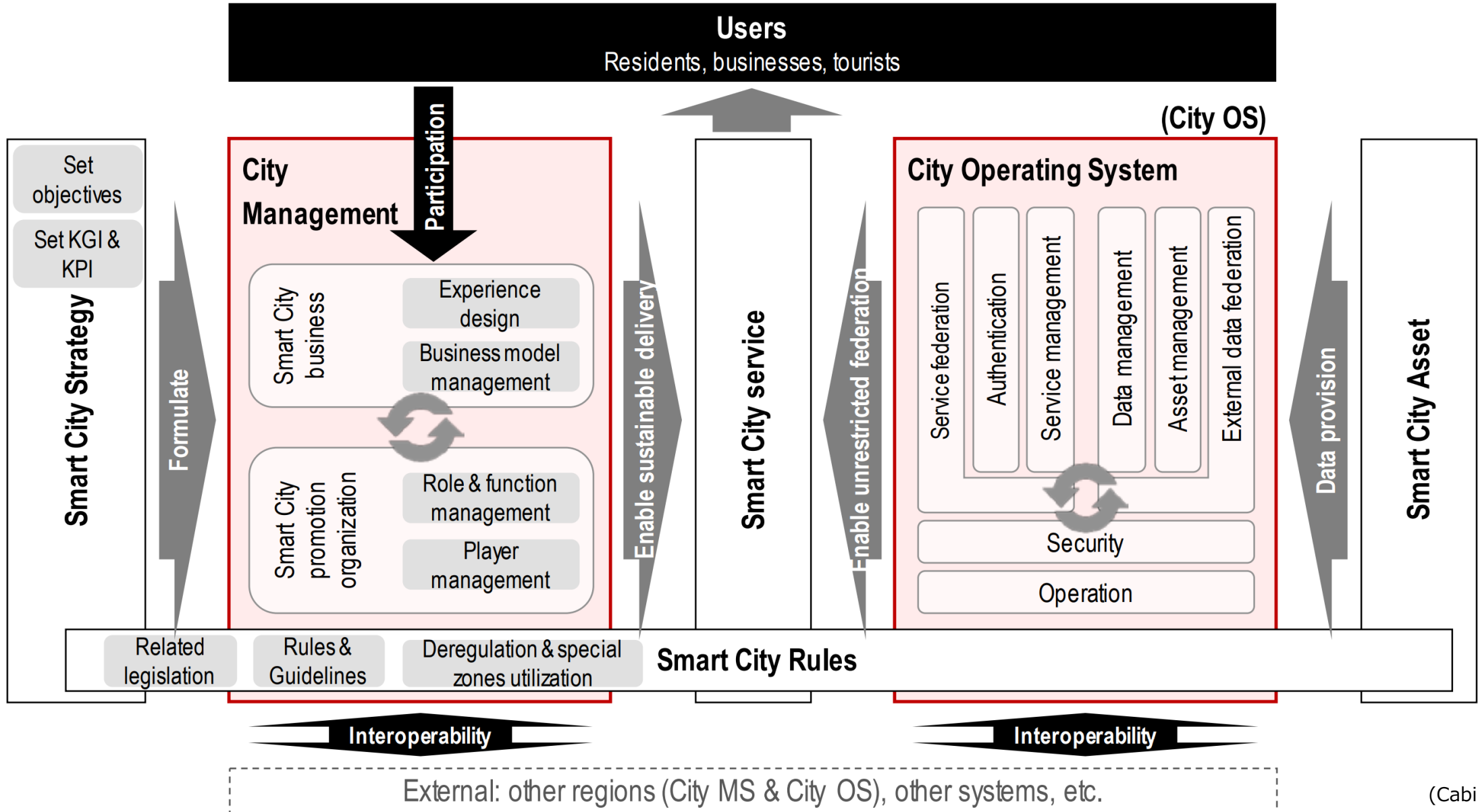
Control your data yourself	Connect	Use Anytime, anywhere	Safe	Create together
<ul style="list-style-type: none">• controllability• Privacy	<ul style="list-style-type: none">• Interoperability• Efficiency	<ul style="list-style-type: none">• Availability• Quickness• Cross-boarder	<ul style="list-style-type: none">• Security• Trust• Quality	<ul style="list-style-type: none">• Co-creation• Creation of new value

Principle of ministry's action

Evidence Based administration	Data ecosystem	Maximize the value of data
<ul style="list-style-type: none">• Identify the priority data• EBPM• Business transformation• Data management and open data• Cultural change	<ul style="list-style-type: none">• Data engineering for data ecosystems• Data standards• Data quality management• List of data asset in the administrations	<ul style="list-style-type: none">• Rule management for data access• Chanel management for the various data accesses• Open data

Launched the Digital Agency on 1st, September toward Digital Society

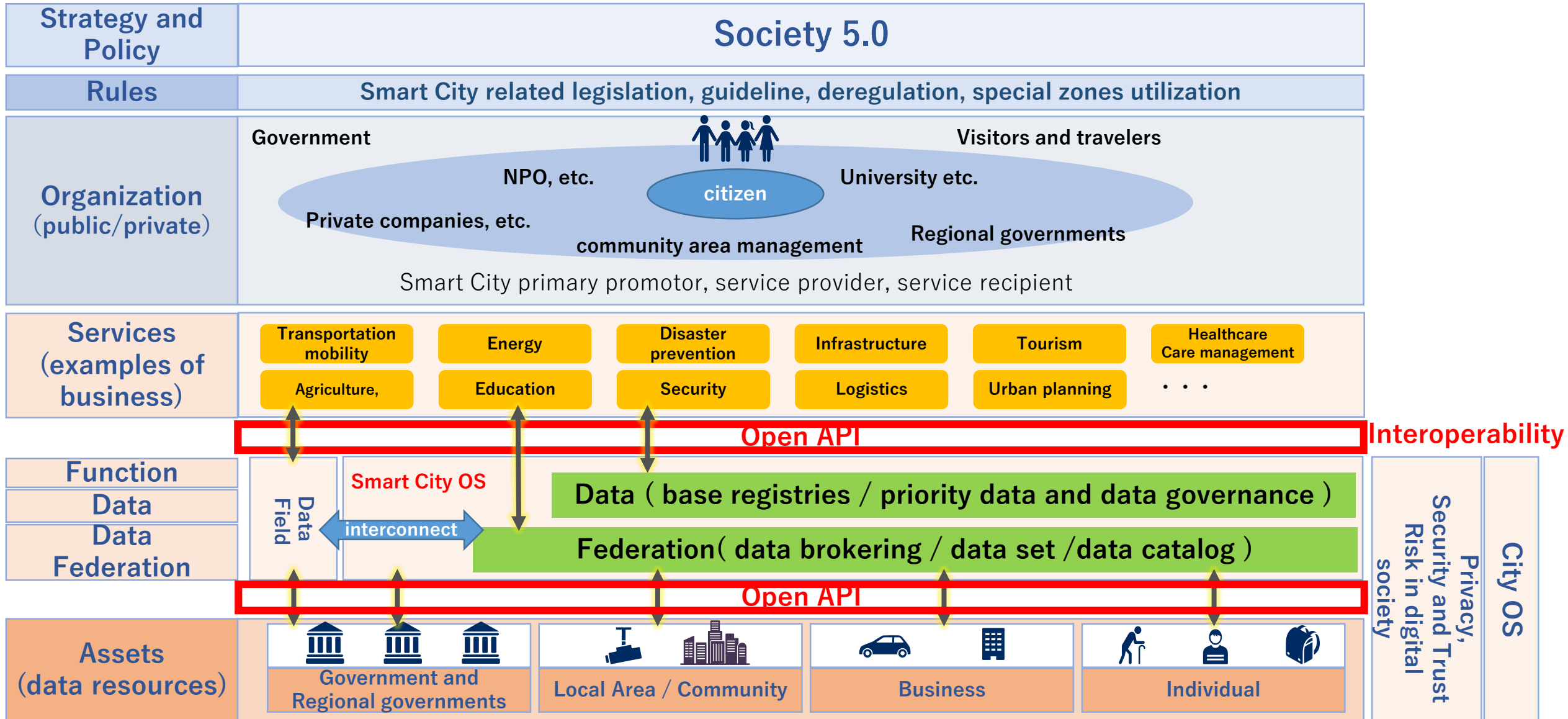
Overall picture of Smart City Reference Architecture



(Cabinet Office)

“City management” and “City OS” are like two wheels on an axle for Smart City

Summary of Smart City Reference Architecture



(COCN / Cabinet Office)

Defined these Items in Smart City Reference Architecture with Open API

Social Issues and Priority Areas

《 Social Issues 》

Aging Society

- Healthy Life Expectancy
- Diversification of Mobility
- Medical & Welfare Service

Decreasing Population

- Security of Household for Childcare
- Vitalization by Accessibility & Quality of Service
- Vitalization by Tourism

Disaster Management

- Resilience
- Risk Assessment & Alarming System
- Initial Response & Evacuation

Aging Infrastructure

- Efficiency on Infrastructure Inspection & Maintenance
- Efficiency on Building Management

《 Examples of Priority Areas 》

Healthcare/Care management



Disaster Risk management



DATA Platform

Smart city



Infrastructure



Education



Agriculture



(Digital Agency / Cabinet Office)

Economic development and solving social issues will be expected at the same time

Smart City Projects in Japan

FY2017-2020

about **200** Demonstration projects
in about **160 areas** were done

Implementation of City OS projects
are in progress in **23 areas**
(at September 2020)

Hokuriku region
7 areas, 11 projects

Kansai region*
26 areas, 29 projects

(*incl Osaka)

Chugoku region
17 areas, 19 projects

Shikoku Region
10 areas, 12 projects

Kyushu region
16 areas, 16 projects

Implementation **100 areas**
by **FY2025**

Hokkaido region
9 areas, 12 projects

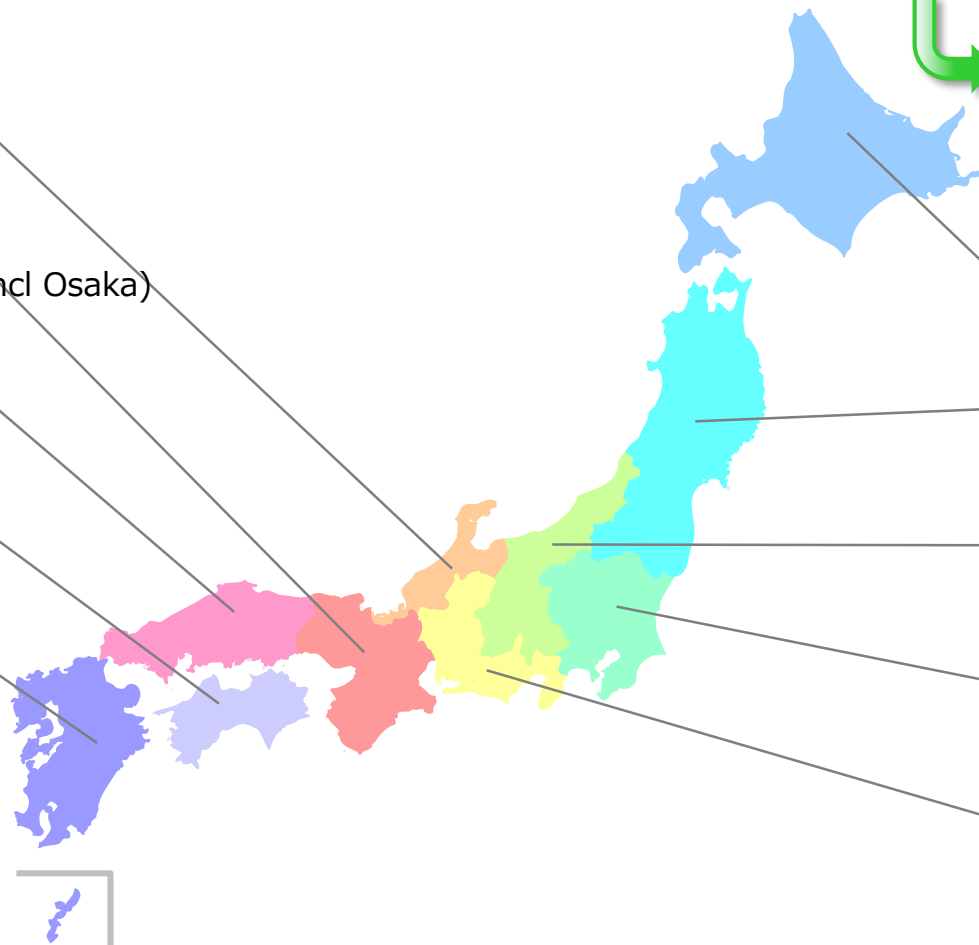
Tohoku region
7 areas, 10 projects

Shin-etsu region
5 areas, 7 projects

Kanto region**
44 areas, 58 projects

(**incl Tokyo)

Tokai region
19 areas, 26 projects

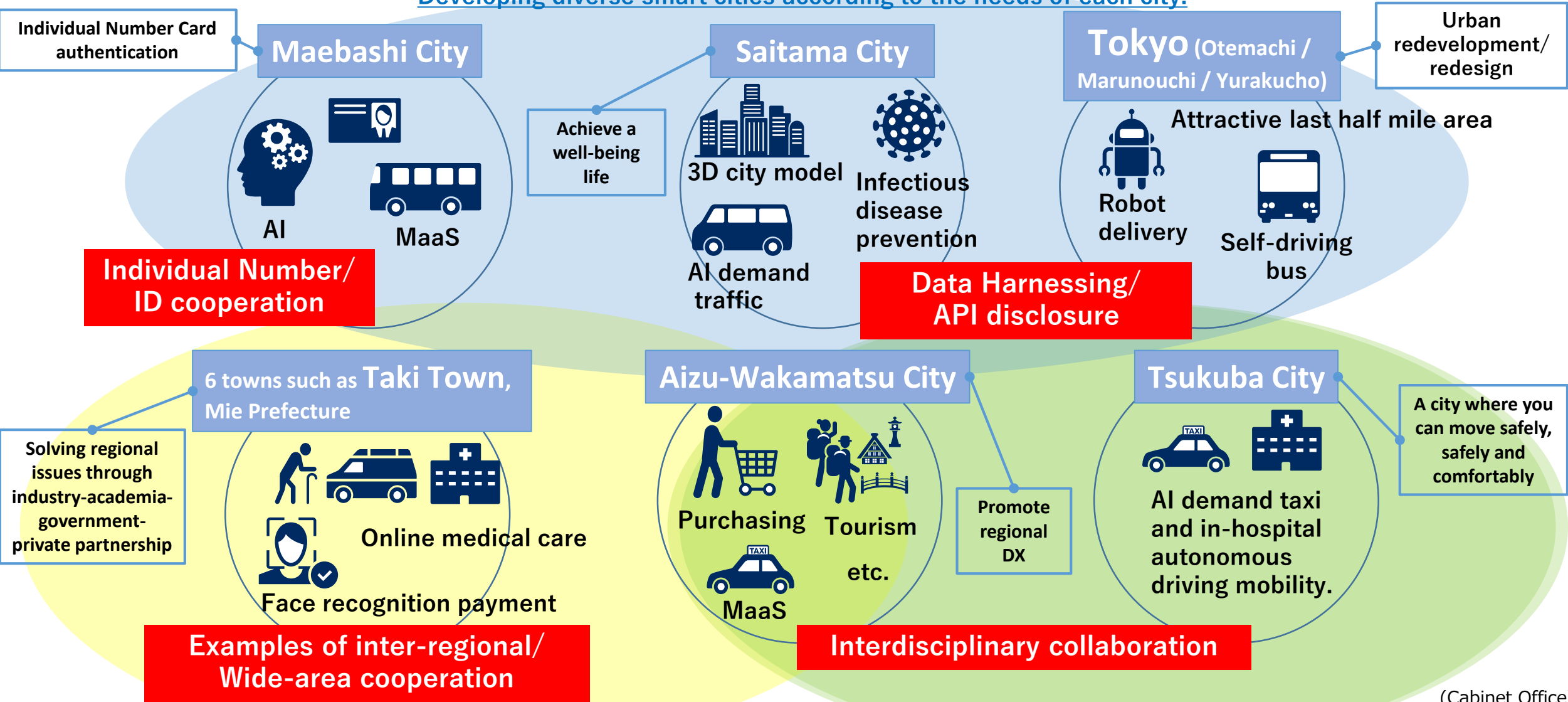


(Cabinet Office)

Smart city FY2021 Projects = Started in 62 areas with government's support

Diverse Smart City Projects in progress FY2021

Developing diverse smart cities according to the needs of each city.



(Cabinet Office)

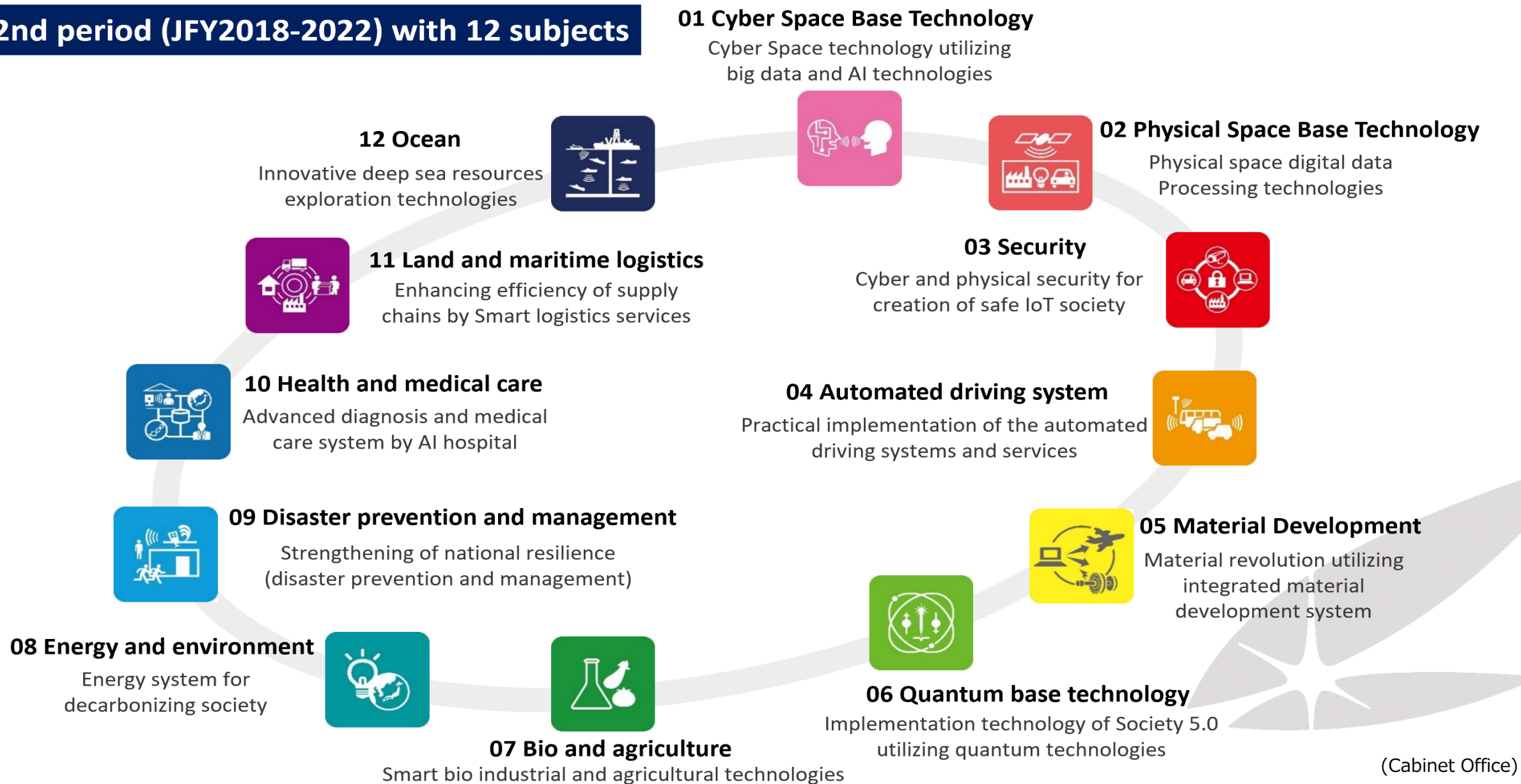
Developing a smart city by diverse participants.

Developing an open and highly transparent smart city.

Smart city strategy = Proceeded from distillation of central issue of each region

Strategic Innovation Promotion Program for realizing Society5.0

2nd period (JFY2018-2022) with 12 subjects



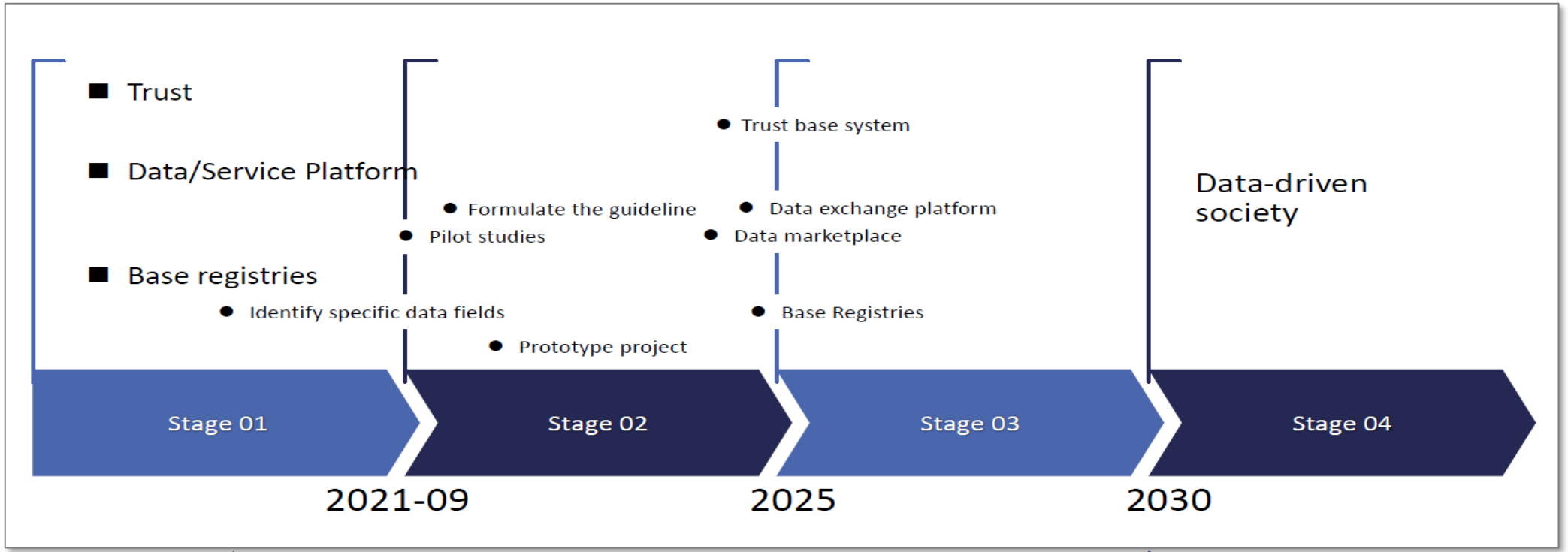
(Cabinet Office)

SIP Programs = Development and Promotion of Smart city Services

Roadmap

DATA STRATEGY

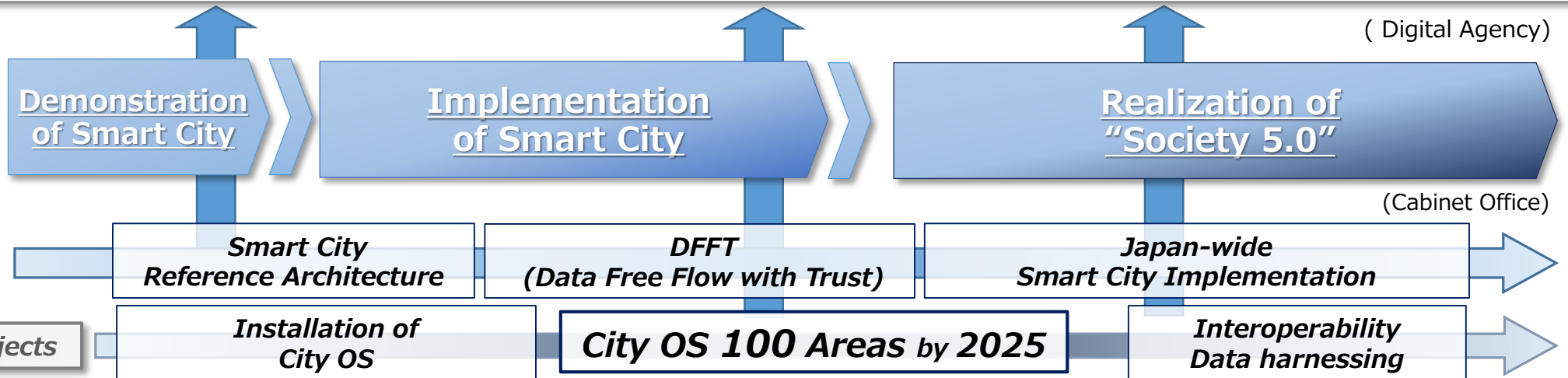
Digital Agency



SMART CITY

SIP Program

Implementation Projects



Determination of major goals, mid & sub goals toward Realizing of Society 5.0

Reference

- Japan's Smart City (brochure)
<Main report>
[https://www.kantei.go.jp/jp/singi/keikyou/pdf/Japan's Smart Cities-1\(Main Report\).pdf](https://www.kantei.go.jp/jp/singi/keikyou/pdf/Japan's_Smart_Cities-1(Main_Report).pdf)
<Cases and Examples>
[https://www.kantei.go.jp/jp/singi/keikyou/pdf/Japan's Smart Cities-2\(Cases and Examples\).pdf](https://www.kantei.go.jp/jp/singi/keikyou/pdf/Japan's_Smart_Cities-2(Cases_and_Examples).pdf)
- How to Use Smart City Reference Architecture (Installation Guidebook)
https://www8.cao.go.jp/cstp/stmain/a-guidebook1_200331_en.pdf
- Smart City Reference Architecture White Paper -excerpt
https://www8.cao.go.jp/cstp/stmain/a-whitepaper1_200331_en.pdf
- Smart City Guidebook (Information and cases on promoting Smart City) **NEW**
- English Version is in preparation and to be released on the Cabinet Office website.
<https://www.cao.go.jp/index-e.html>

Smart city Guidebook will be released on the Cabinet Office website

Thank you for your kind attention

