

# Makassar Smart City Initiative

The 2nd ASEAN - Japan Smart Cities Network

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# PROFILE

CITY OF MAKASSAR

POPULATION

**1.525.677**

2020

TOTAL AREA

**175,77**

Km2

ECONOMIC GROWTH

**8,1%**

2020

HDI

**81,73**

2020

POVERTY

**4,3%**

2020

LIFE EXPECTANCY

**71,47%**

YEAR



# Earlier Makassar Smart City

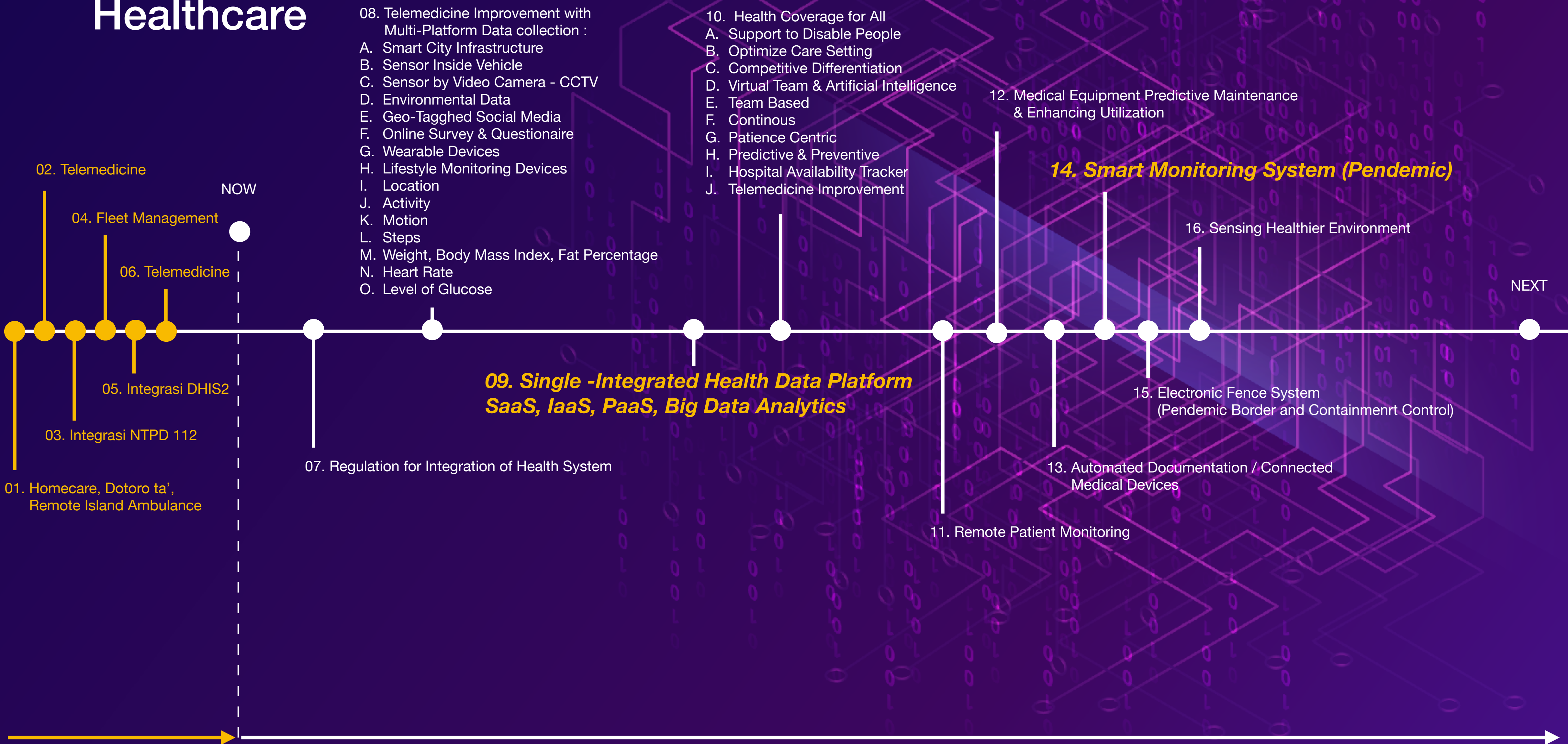




# Makassar Smart City

## Healthcare

FOCUS 01

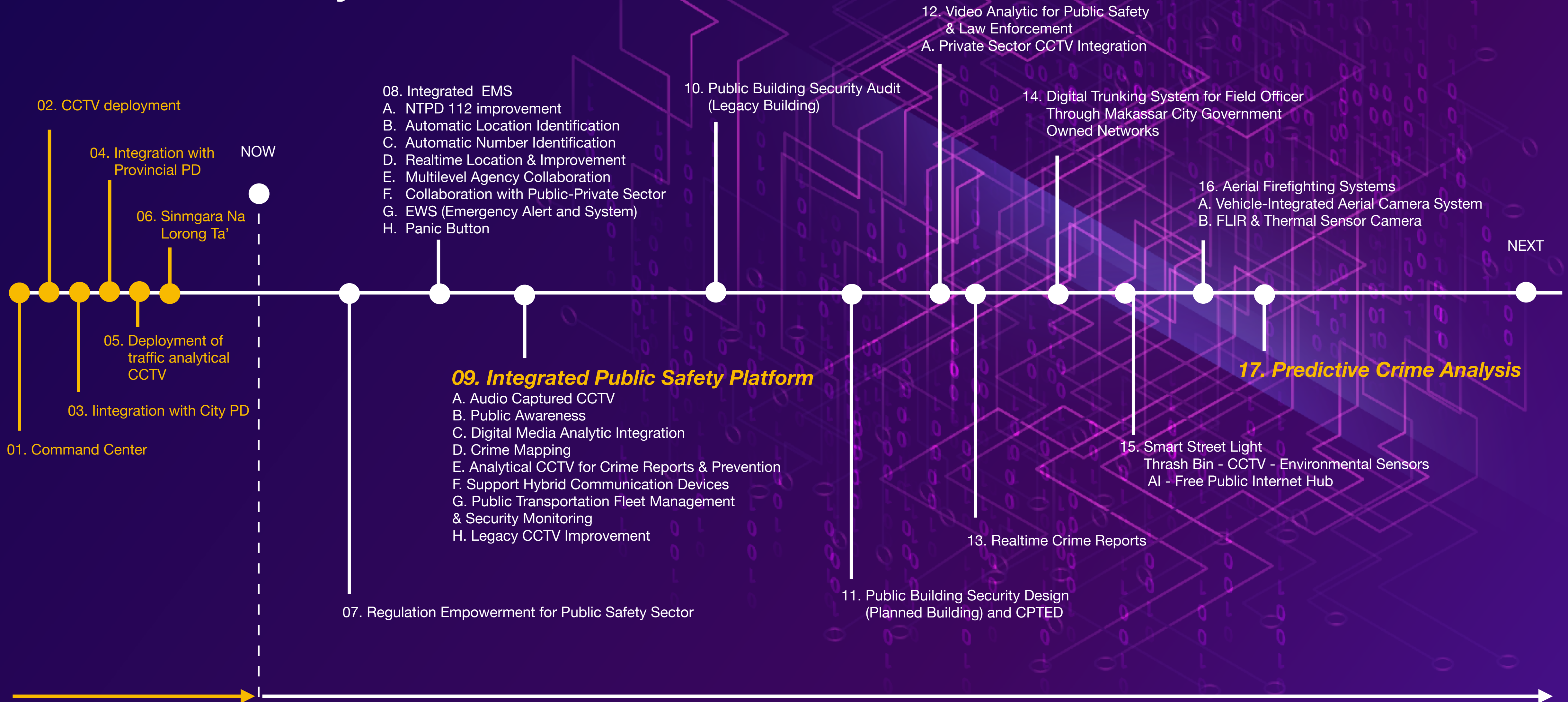




# Makassar Smart City

## Public Safety

FOCUS 02

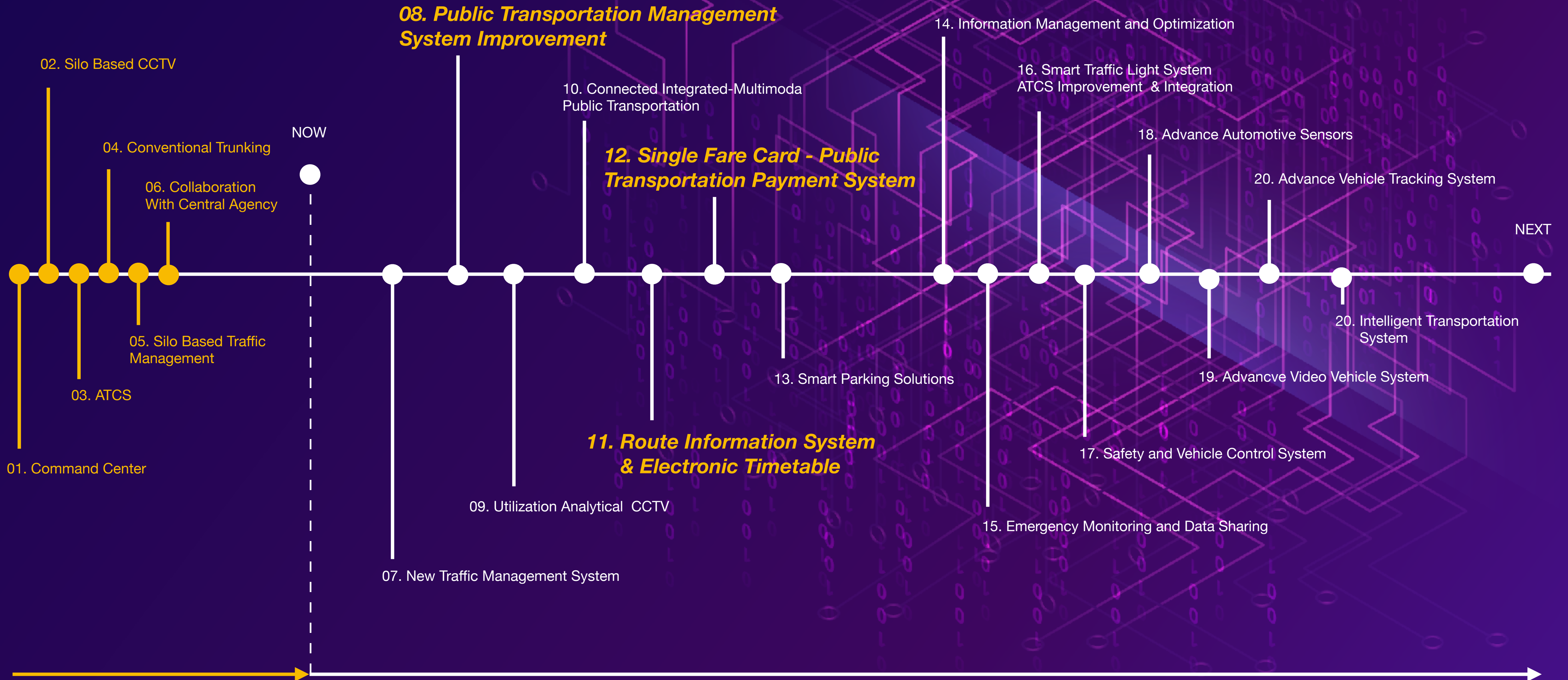




# Makassar Smart City

## Mobility

FOCUS  
03





1

### **DSS (Decision Support System)**

Establish autonomous Decision Support System  
Business Intelligence  
Data Analytic

2

### **Future Telecommunication Infrastructure**

City government owned infrastructure

3

### **Integrated Transportation System**

Smart public transportation  
Transportation infrastructure

4

### **e-TAX**

Property Tax Management System  
Establish integrated data and optimize  
Tax collection

5

### **Integrated Water Management**

Disaster management caused by sea level  
Issues  
Clean water distribution for citizens

7

### **Marine Tourism**

Tourism to embrace waterfront city tourism

6

### **Health Care**

Better health care for everyone





# E-TAX PLANNING

## Property Tax Management System

### INTRODUCTION

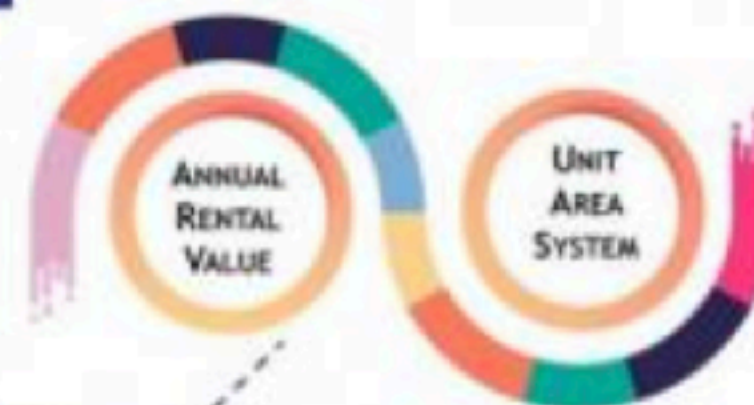
- Property tax is a system of taxation levied on any property owned by an individual or any other legal entity by the Urban Local Bodies (ULB) and is one of the most crucial sources of its revenue.
- Different municipal bodies have different methods to calculate property tax.

- The revenue collected through property tax is used to maintain local civil amenities.

### GMC & PROPERTY TAX

#### GMC Property Tax Calculation

Gross annual rent of the property is fixed by the municipal body and taxes would be levied based on the estimated value.



#### Why GIS based system?

**Location** is the essence of geographic data and is the top priority for home and property management.

Geo-referenced property information + Property Tax ULB data = better access, management and visualization of data.

Efficient administration property tax system

Efficiency of Tax collection can be increased when issues are modeled and understood on a spatial and statistical point-of-view

Interaction at scale of individual households, people, and units of real estate and at time-scales approaching "real time"

#### MAPPING & VISUALISATION

GIS stores data in databases and then represents in a map format.

In an increasingly tech-centric world, visuals can communicate things that an email or even a face-to-face conversation cannot.

#### DATABASE MANAGEMENT

Access to property Assessment and tax information in a timely, accurate, and cost-effective manner

Expandable to accommodate future changes in valuation, urban growth etc.

#### DECISION SUPPORT SYSTEM FOR PROPERTY TAX

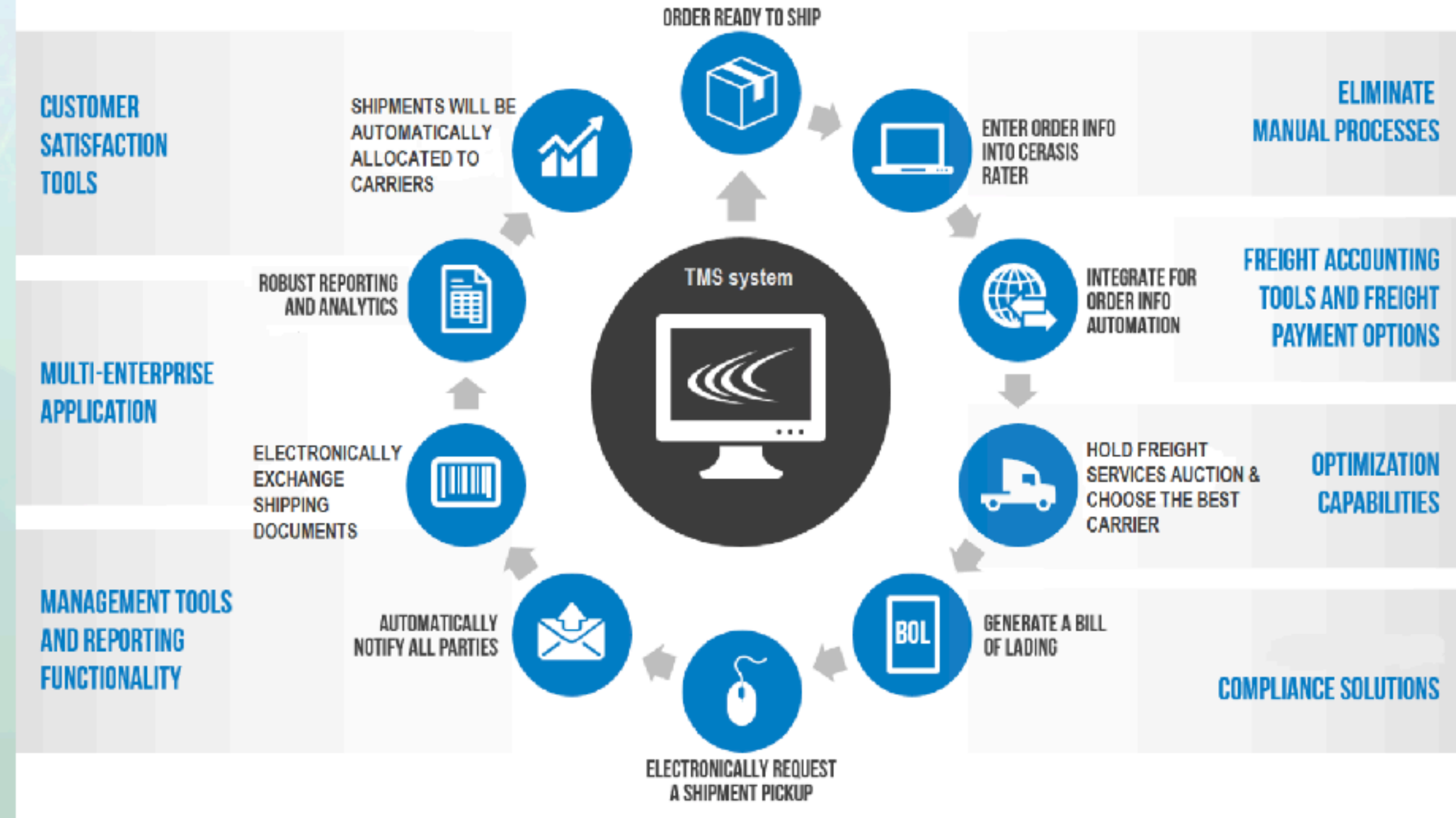
#### SPATIAL ANALYSIS & DEVELOPMENT

Find Spatial relations between various factors such as Built use, Facilities provided, Estimated & Collected Tax amount to analyze where changes are necessary in order to increase efficiency





## Transportation Management System (TMS)



## Monoreal

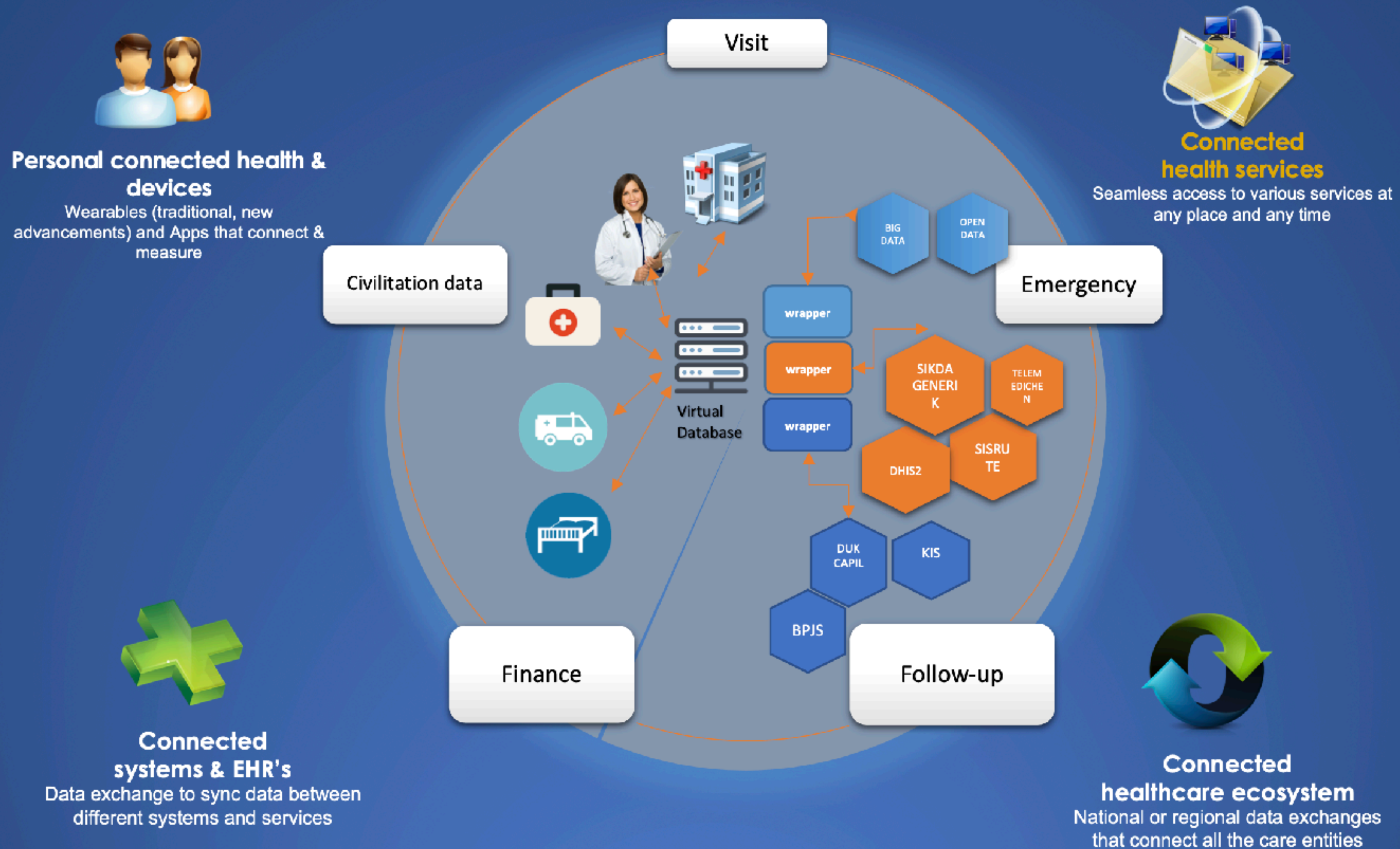
Monorel dengan sepanjang 25 km, setidaknya membutuhkan pendanaan hingga mencapai Rp 6 triliun, dalam waktu sekitar 3 tahun.



<https://investor.id/archive/lima-kota-segera-miliki-monorel>



# Health Services Planning





# Collaboration with JASCA

## Makassar city has been collaborating with JASCA.

1<sup>st</sup> HLM  
In Oct 2019

Smart City Conference  
with JASCA in Makassar  
In Feb. 2020

Video Conference  
& Detail Discussion  
In July. 2020

2<sup>nd</sup> HLM  
In Dec  
2020



1st HLM  
@ Yokohama



Photo Session



Signed Record of Discussion



Video Conference

What's Next?



Meeting  
Minutes with a  
member of  
JASCA  
(Transport and  
Health Sector)



Reception at the Governor's  
Official Residence



Infrastructure Tour



Mr. MIYAKAWA's visit to discuss enhancing  
collaboration through actual projects

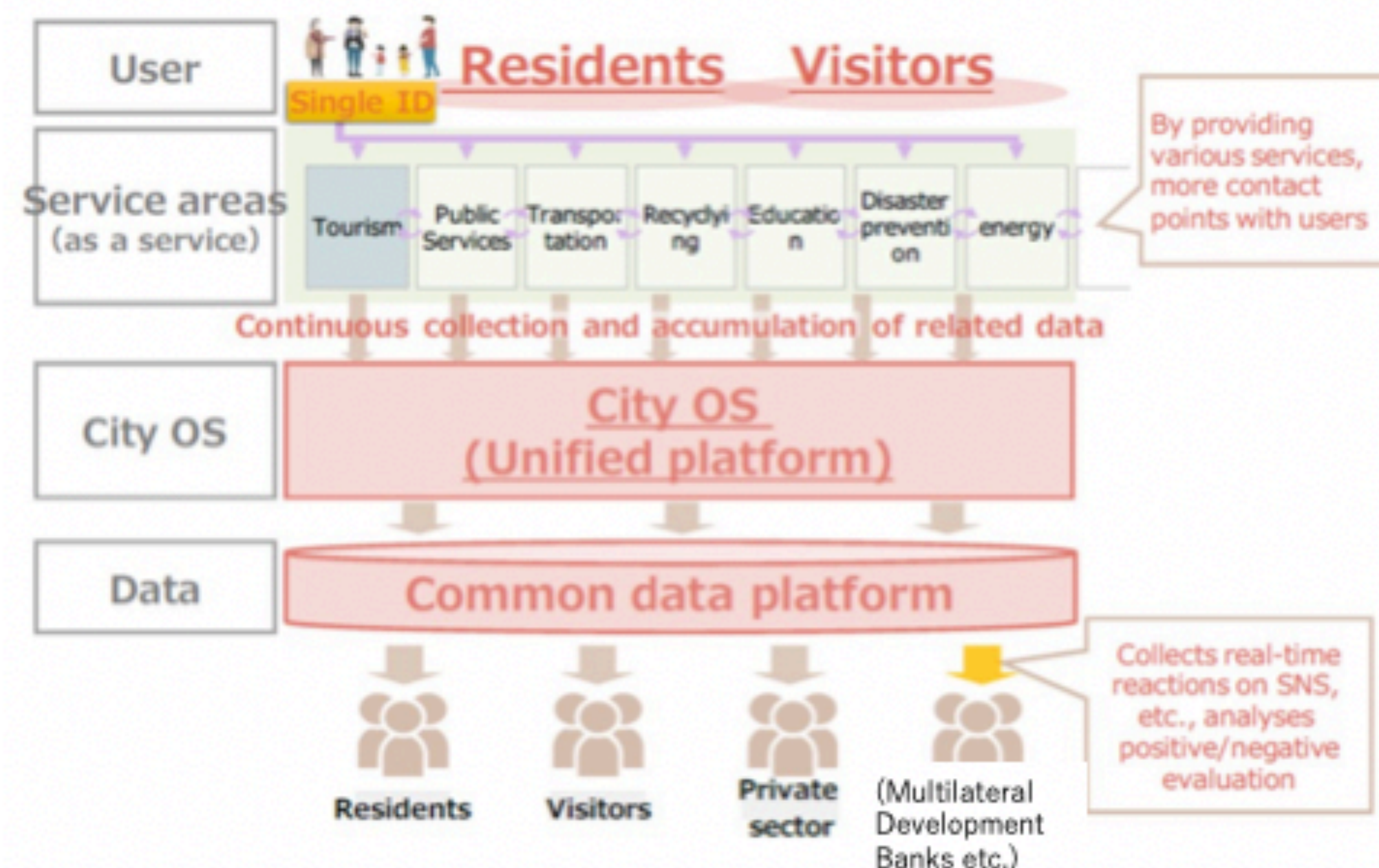


# Collaboration with JASCA

## A new project and partnership to start.

### Study for utilizing Unified Smart City Platform (City OS)

- ✓ Learn Japan's best practice
- ✓ Investigate how City OS is applicable to Makassar
- ✓ Identify how to upgrade public services and industrial promotion in Makassar
- ✓ Funded by MLIT, Executed by Accenture Japan.



### Memorandum of Cooperation (MOC) With **Accenture Japan**

- ✓ Designate Accenture Japan as the **"Smart City Promotion Partner"**
- ✓ Discuss how to promote smart in Makassar city (knowledge sharing, project incubation considering appropriate financial scheme, etc.)
- ✓ Enhance Collaboration with Local People/Companies

#### Principles for Digital Development





