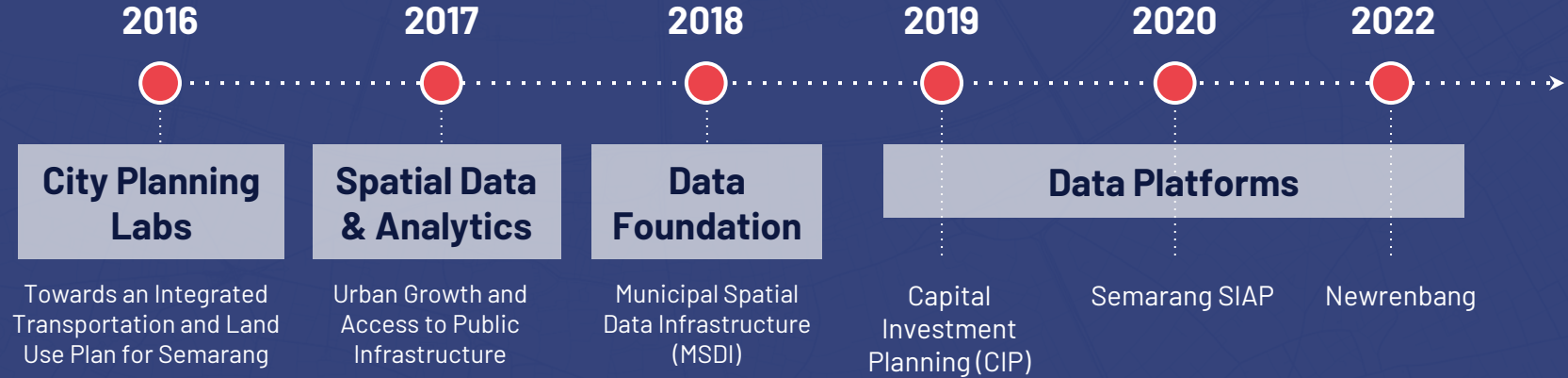


# Semarang's journey towards data-driven planning for resilience

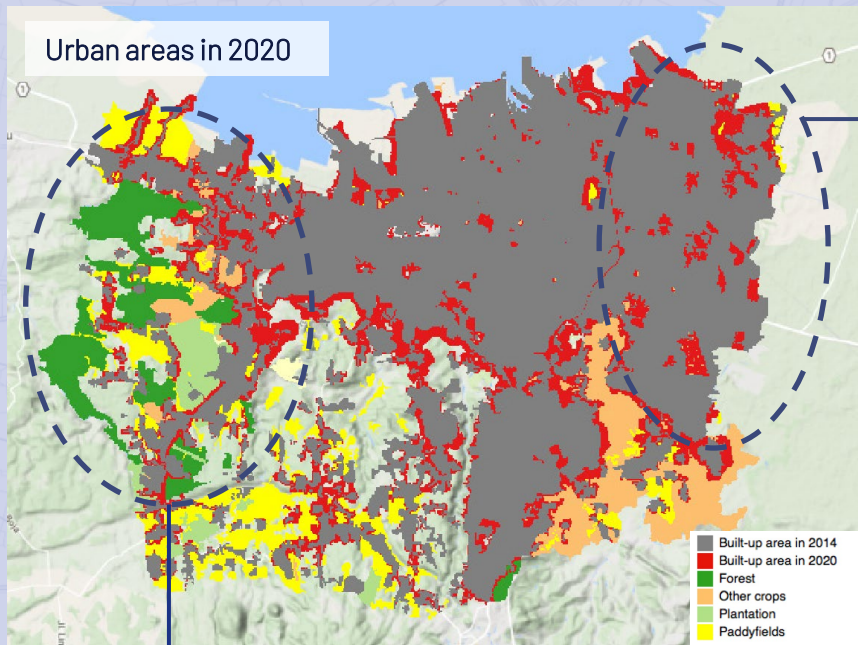
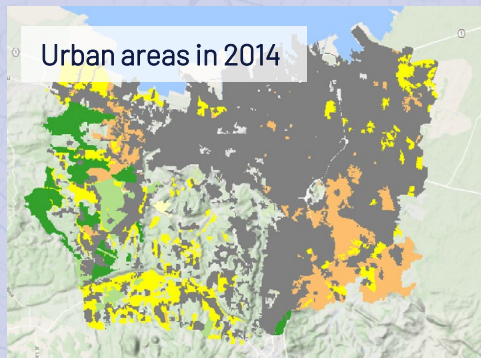
# Our journey since 2016



# Data & Analytics: Understanding Urban Growth

## Predicting urban growth:

New urban areas in 2020 (in red) will mostly develop in the east, south-east and north-eastern parts of the city

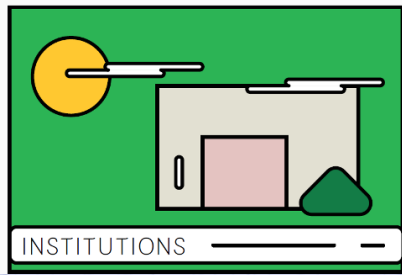


Urban growth in the east is predicted to **reach the administrative boundary** as the existing paddy fields get converted into settlements.

Development in the north-western region near National Route 1 will be **constrained by forest conservation zones and hilly terrain** to the south of this area.

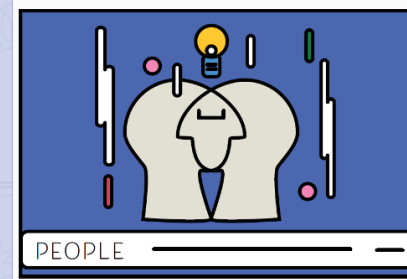


# Building Data Foundation through Municipal Spatial Data Infrastructure (MSDI) Roadmap in 2017



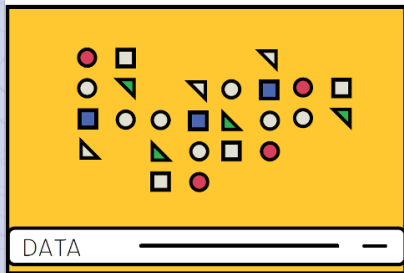
## INSTITUTIONS

Mayoral Decrees on  
**Integrated Data  
Management System** and  
**One Data Implementation**



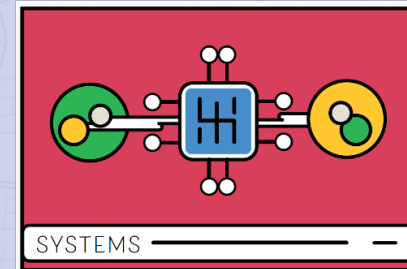
## PEOPLE

- **Geospatial Competency Framework**
- **Geo/Knowledge Communities**



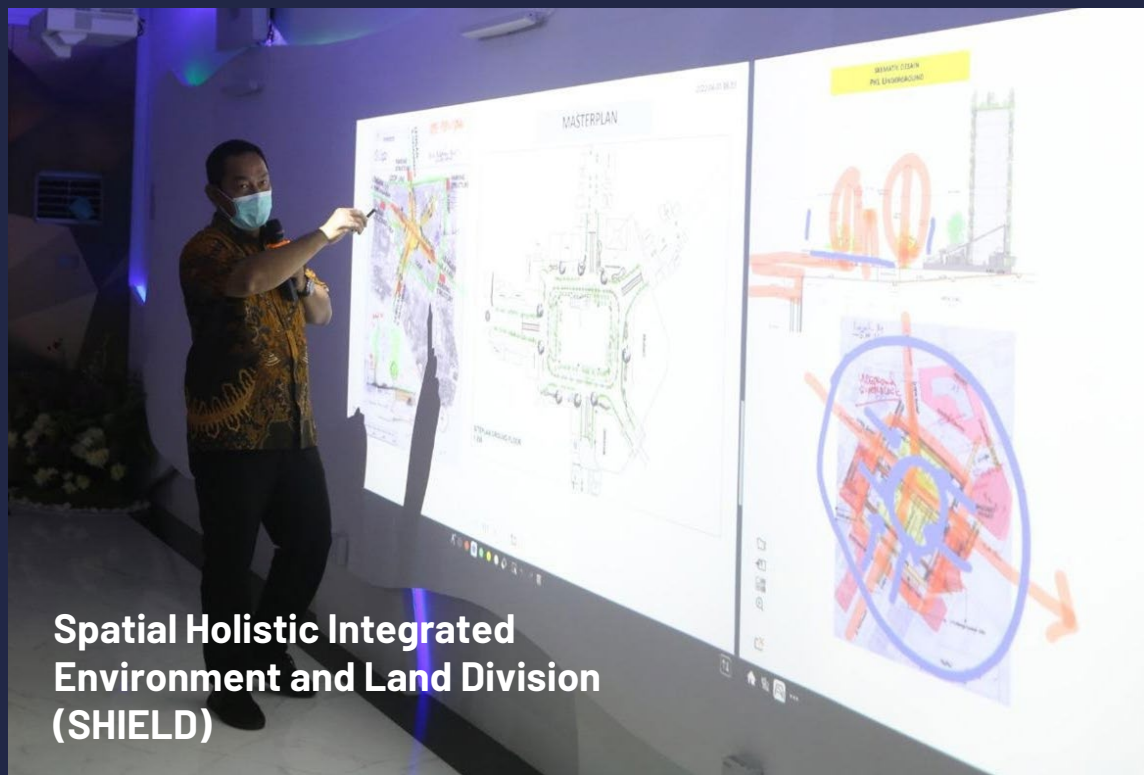
## DATA

- Adoption of **data standards**
- **Fundamental data sets** assessment and **identification of data gaps and priorities**



## SYSTEMS

Establishment of  
**Semarang geoportal**



**Geoportal of Semarang**

# Digital Platform: Semarang SIAP



Data collection platform that is adjustable, responsive, & rapid



## Fast remote data collection

Easily create short surveys and register inputs on digital maps.



## Massive data management

Obtain real time data and manage it through a simple and intuitive interface.



## Automatic analytics

All information collected to spot insights and trends in the COVID-19 emergency and recovery phase.

## Engagement Snapshot in 1 Week



**7,800**

**Registered users**



**11,400**

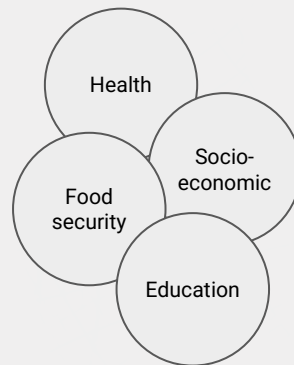
**Input data collected in less than a week**



**4,600**

**Data points accrued**

Data collected:





# Digital Platform: Semarang SIAP



## Social Assistance



**63,208**

Households received  
food/ social assistance



**561**

Recipients of pre-  
employment cards



**27,281**

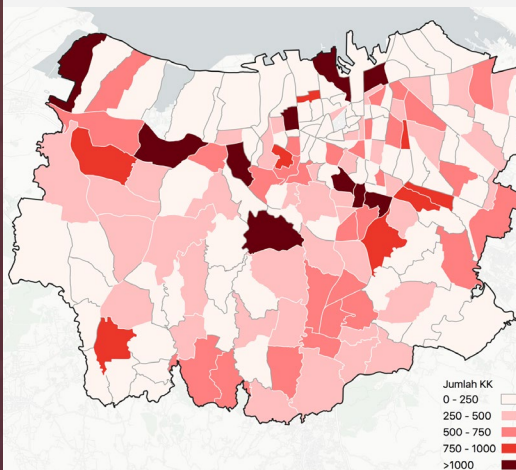
People received  
assistance from  
non-gov parties



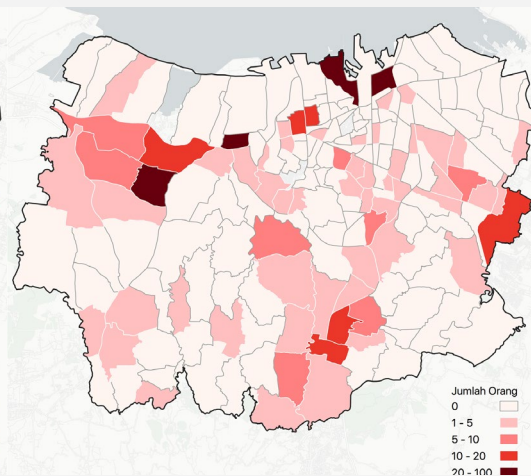
**29,497**

People received  
supplements, masks,  
& sanitizers

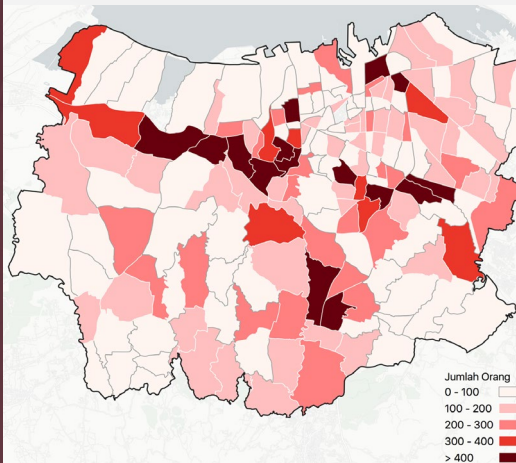
Number of households  
receiving food/ social assistance



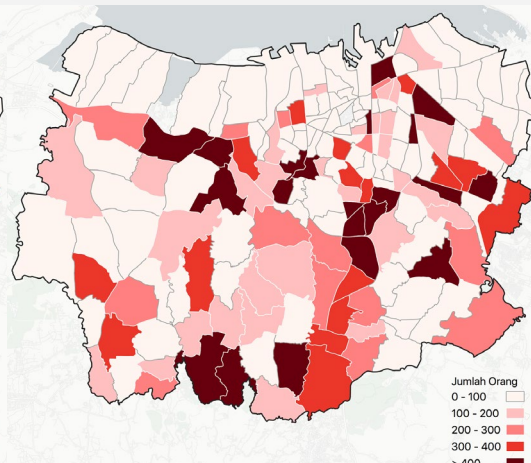
Number of people  
receiving pre-employment cards



Number of recipients of  
non-government social assistance



Number of recipients of  
supplement, mask & sanitizers



# Digital Platform: Newrenbang

Digital participatory planning platform for investment decision process

Provides proposers with **data and indicators of prevalent issues** in their areas

New project

Value: 0.69%

Local population who are affiliated to a social program

Extreme Poverty

Priority

Low

Value: 0.00%

Local population living in extreme poverty

Tax compliance

Priority

High

Value: 72.36%

Percentage land and building tax payment compliance

Stunting

Priority

Low

BANYUMANIK

Name \*

Name

Select indicators (optional)

- ☐ The proposal will reduce flood exposure
- ☐ The proposal will contribute to substandard housing upgrade
- ☐ The proposal will increase clean water access
- ☐ The proposal will reduce wastewater hazards

Description \*

Description

Category \*

Fisik Infrastruktur

Layers

- ☐ FloodRisk

Indicators linked to project scoring

Displays available spatial layers and information

Inputs project proposal location on the map