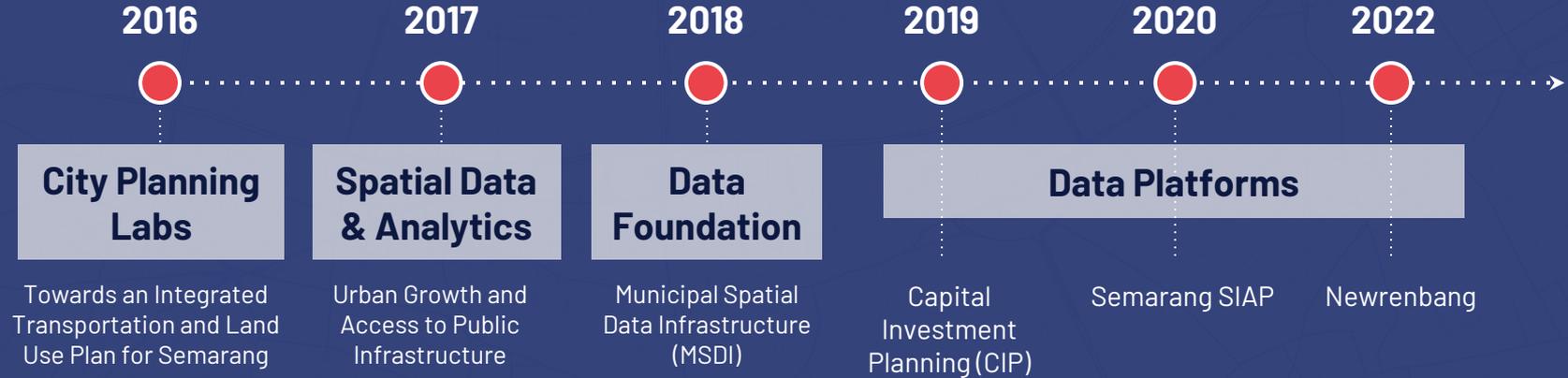


An aerial night view of a city park. The park is illuminated with green lights, and there are many trees and walkways. In the background, there are city buildings and streets with lights. The text is overlaid on the center of the image.

Semarang's journey towards data-driven planning for resilience

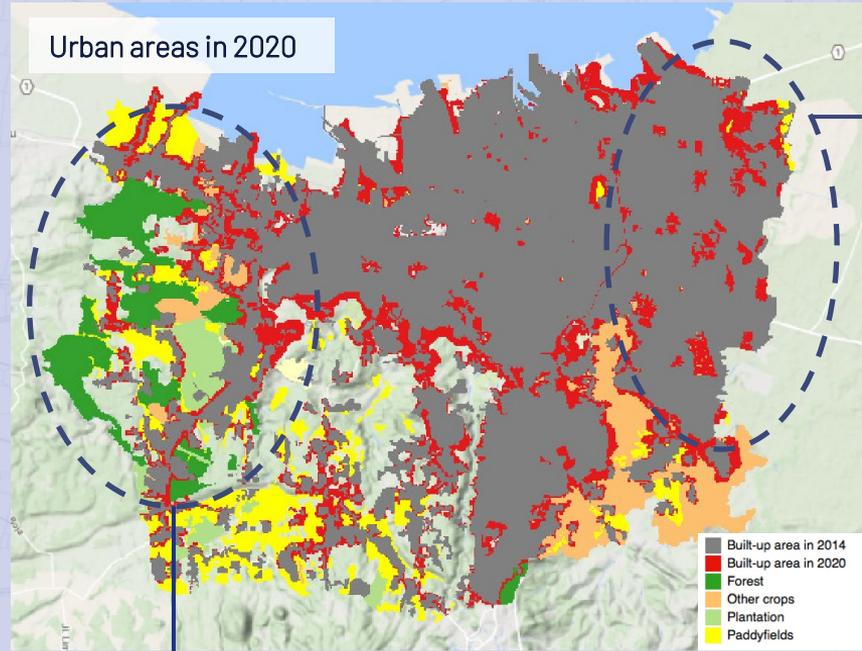
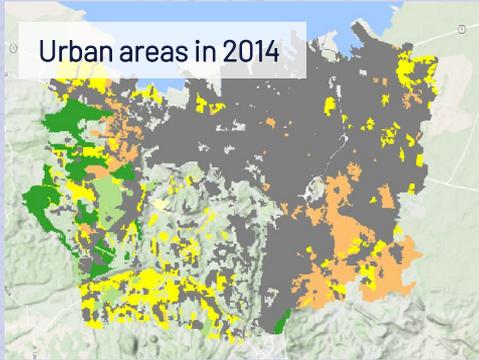
Our journey since 2016



Data & Analytics: Understanding Urban Growth

Predicting urban growth:

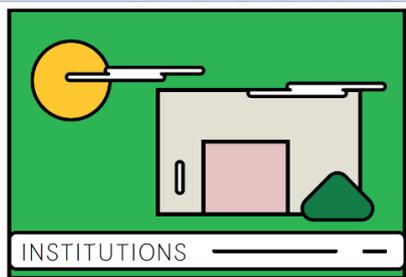
New urban areas in 2020 (in red) will mostly develop in the east, south-east and north-eastern parts of the city



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

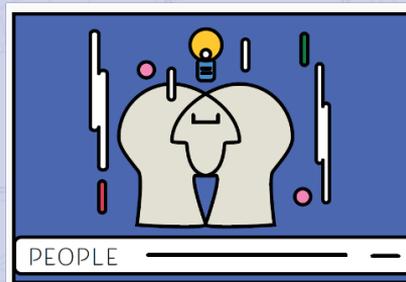
Development in the north-western region near National Route 1 will be **constrained by forest conservation zones and hilly terrain** to the south of this area.

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



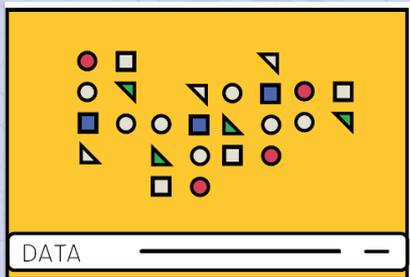
INSTITUTIONS

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



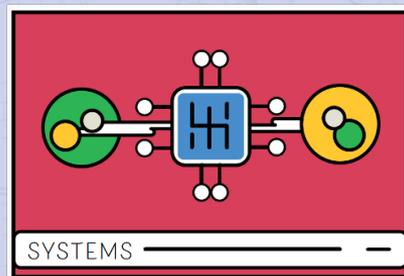
PEOPLE

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



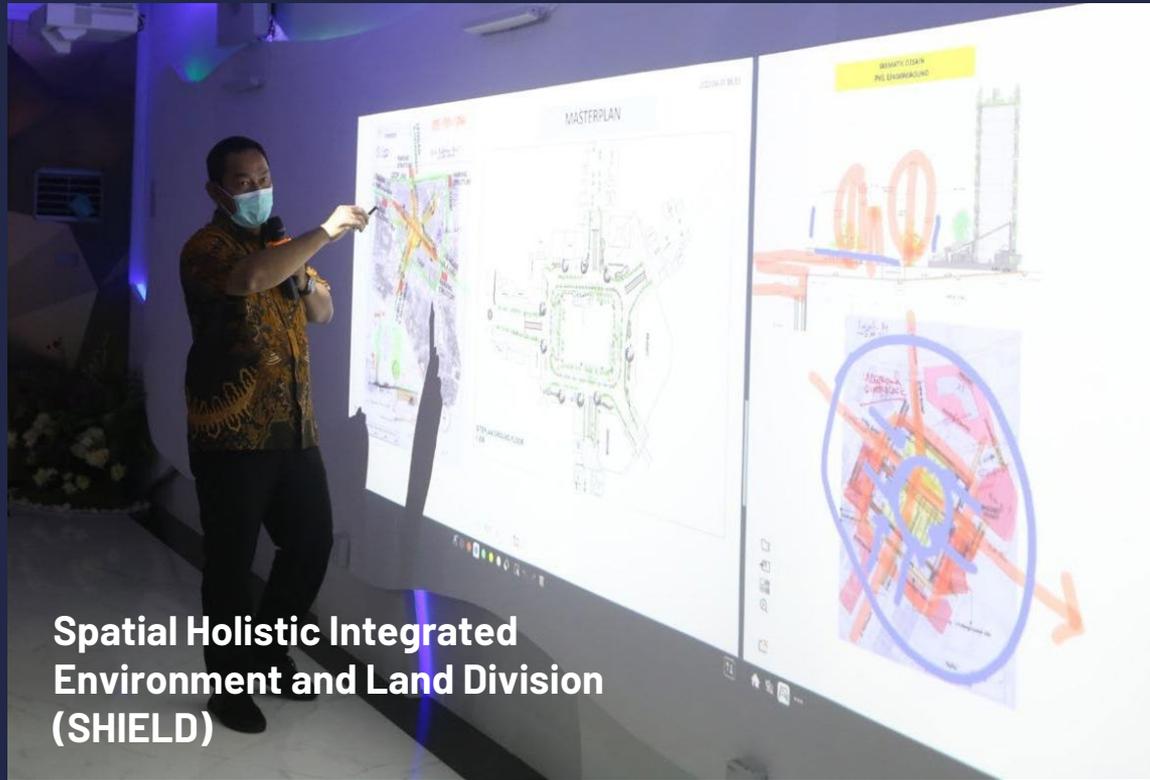
DATA

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



SYSTEMS

Establishment of **Semarang geoportal**



Spatial Holistic Integrated Environment and Land Division (SHIELD)



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

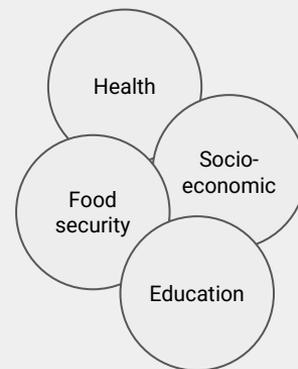
Input data collected in less than a week



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

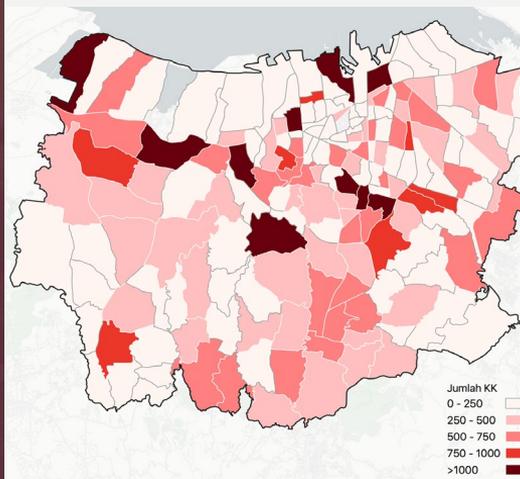
People received
assistance from
non-gov parties



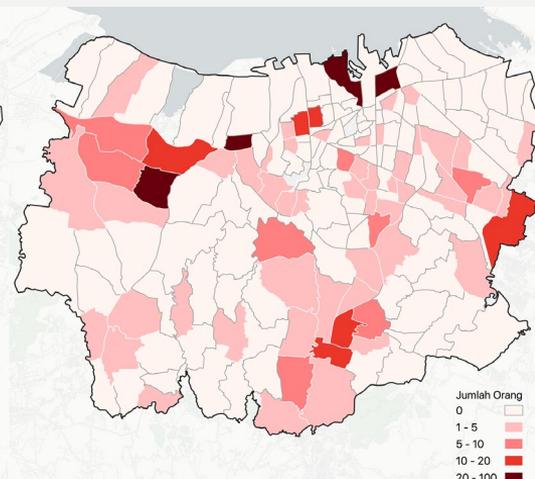
29,497

People received
supplements, masks,
& sanitizers

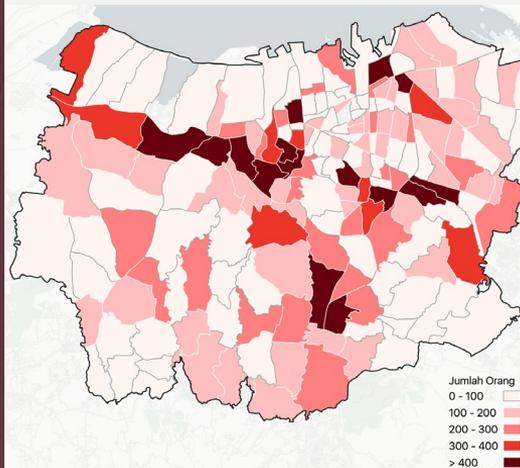
Number of households
receiving food/ social assistance



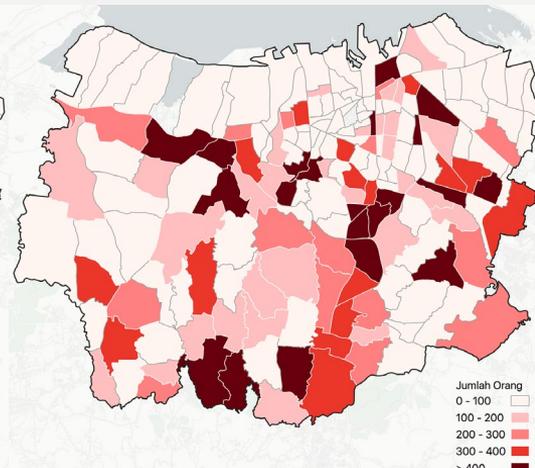
Number of people
receiving pre-employment cards



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 *

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 *

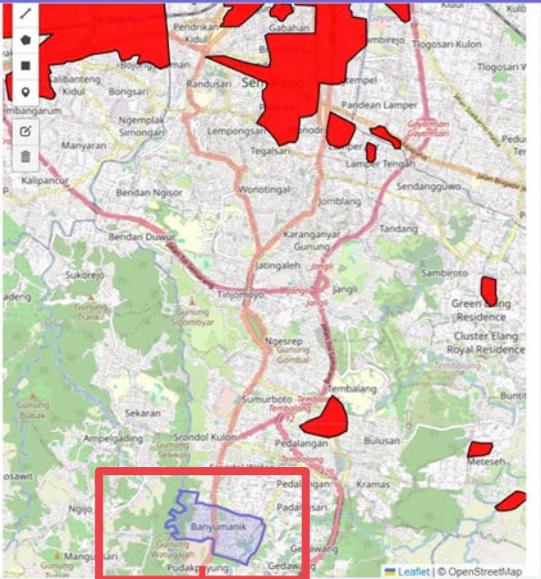
Description

Category *

Fisik Infrastruktur

Layers

- FloodRisk
- FloodRisk



Close Continue

Indicators linked to
project scoring

Displays available **spatial
layers and information**

Inputs **project proposal
location on the map**