



Semarang Municipality









KAB, KENDA

# **SEMARANG OVERVIEW**

Hill Area

**Capital City of** 

- Central Java Province
- 373.3 Km2
- 16 district
   177 sub district
- 1,8 Million Population



SEMARANG IS UNIQUE

FLOOD

Flood Risk Areas

LANDSLIDE

## **VULNERABLE RISK MAP**

### CLEAN WATER ACCESS

Mid Landslide Susceptibility

High Landslide Susceptibility

> Low Access h Clean Water

Water-related issues are becoming more apparent as sea level rises, land is further subsiding, rob floods and landslides increase in frequency, and rapid urbanization increases the need for clean water supply.

Water as Leverage, 2019

LAND SUBSIDENCE

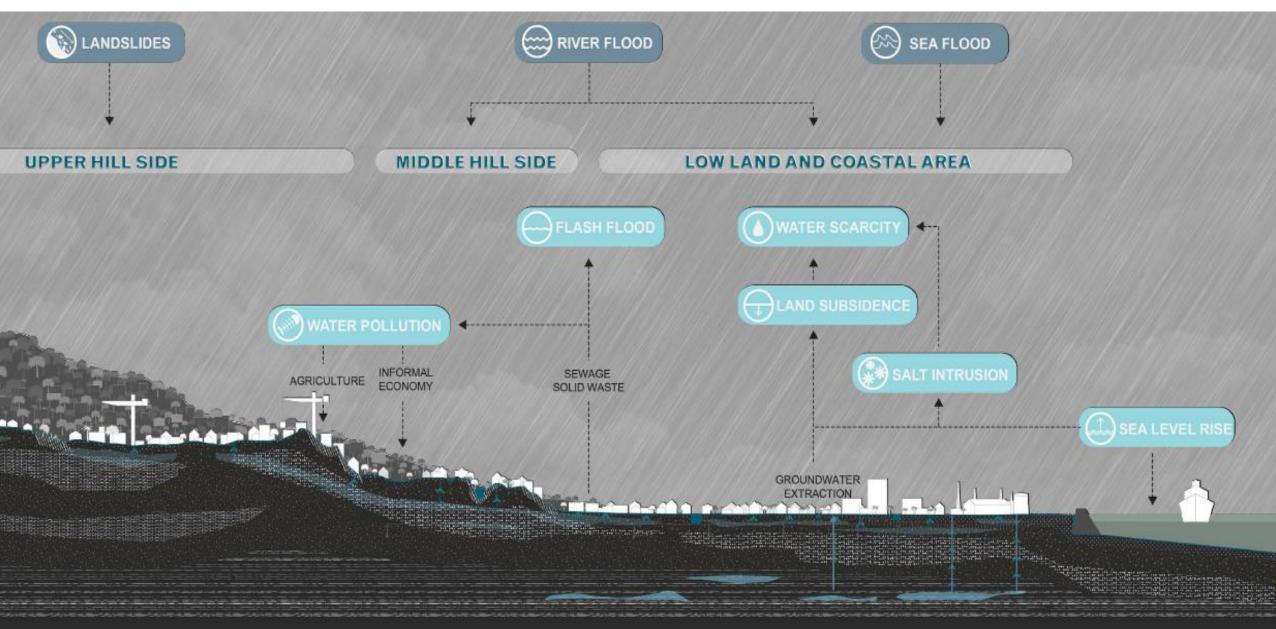
Subsidence Area

looded Aleas 2011

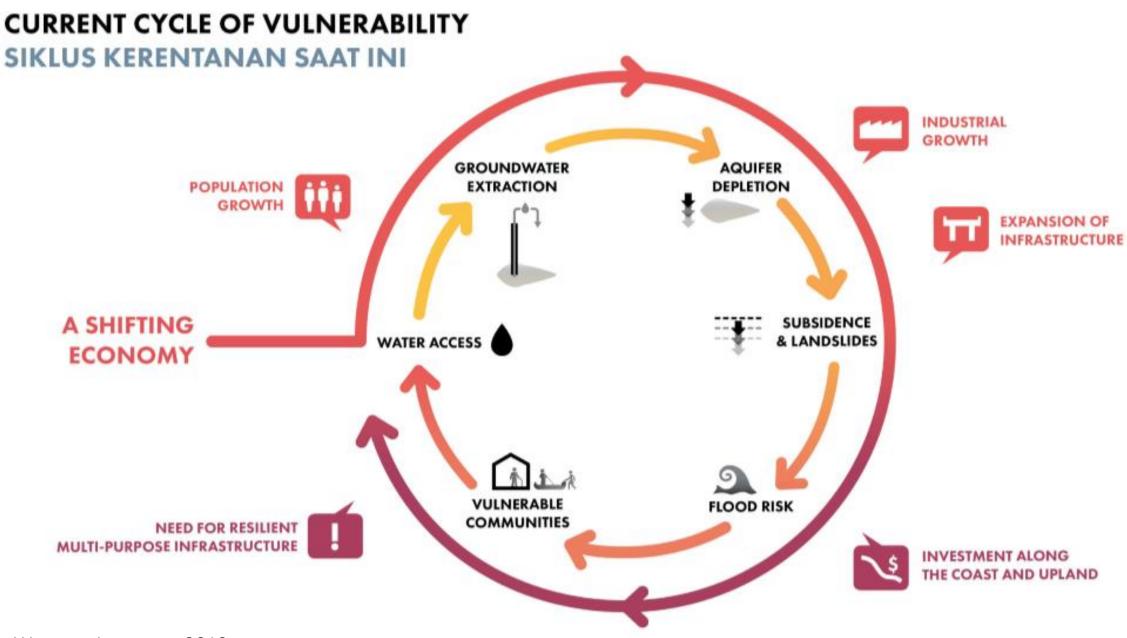
Clean Water Network

one resilient semarang

### CROSS SECTION OF WATER RELATED ISSUES



Water as Leverage, 2019



Tawang, Semarang Railway Station, 23 February 2021

Semarang Tawan

Subsidence in the northeast area of Semarang varies between 4 and 18cm per year. In the kampungs, streets are raised every few years, impacting entryways of buildings. Penurunan tanah di daerah timur laut Semarang bervariasi antara 4 sampai 18 cm per tahun. Di kampung-kampung, permukaan jalan ditingkatkan setiap beberapa tahun sekali, sehingga berdampak bagi jalan masuk ke rumah.

Water as Leverage, 2020

In upland, hilly areas of Semarang, unstable soils due to uncontrolled groundwater extraction lead to landslides and fluvial flooding compromising critical infrastructure. Di kawasan hulu, tanah yang tidak stabil akibat ekstraksi air tanah yang tidak terkontrol menyebabkan longsor dan banjir fluvial sehingga mengorbankan infrastruktur penting.

DILARANG MELINTAS GARIS POLISI

2000s

DILARANG MEL

DO NOT CROSS

# FRESH WATER SUPPLY PENYEDIAAN AIR BERSIH



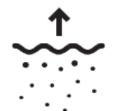
57.07% OF WATER LOSS in the PDAM piping water supply system **57.07% TINGKAT KEHILANGAN AIR** pada sistem penyediaan air perpipaan PDAM

Source: USAID & IUWASH (2010)



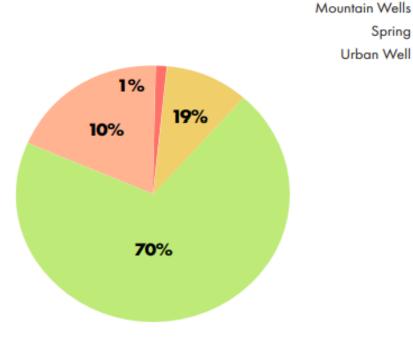
62.4% OF HOUSEHOLDS connected to PDAM piped water service 62.4% RUMAH TANGGA terhubung ke layanan air perpipaan PDAM

Source: City Resilience Strategy (2016); Semarang PDAM (2015)



### 64.03% OF HOUSEHOLDS use ground water as a source of clean water 64.03% RUMAH TANGGA menggunakan air tanah sebagai sumber air bersih

Source: Semarang Vulnerability Assessment (2010)



### PDAM MAIN WATER SOURCES

#### SUMBER AIR BAKU PDAM

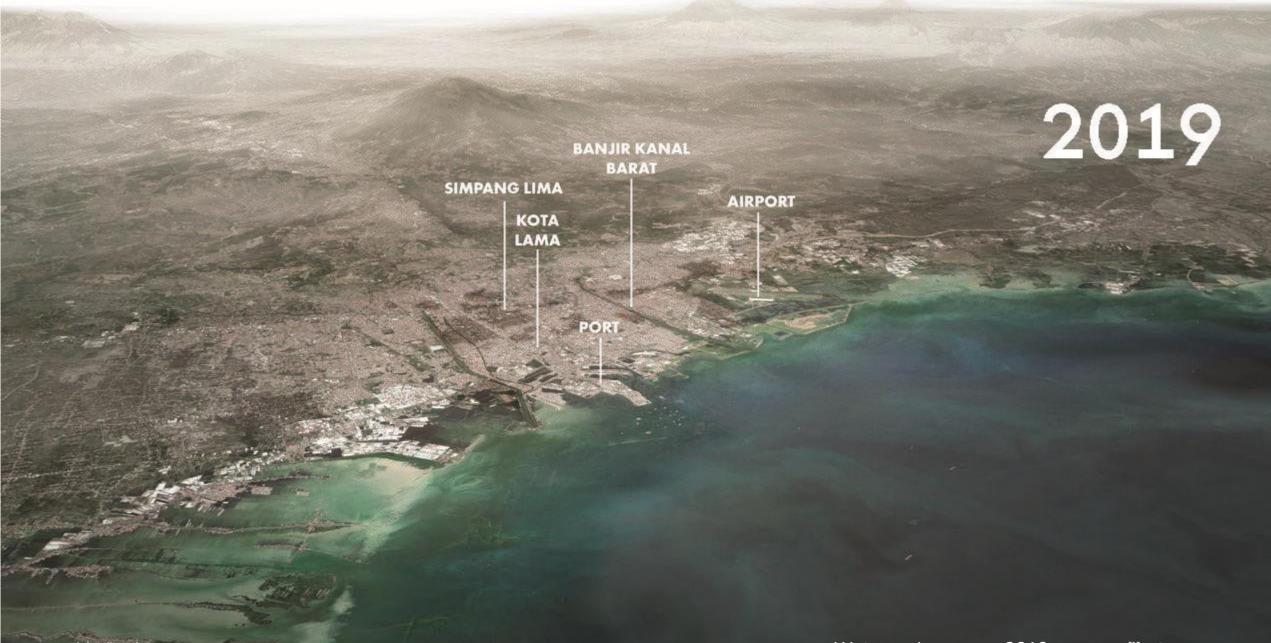
Source: Dokumen RISPAM Kota Semarang

Water as Leverage, 2019

Surface / River Water

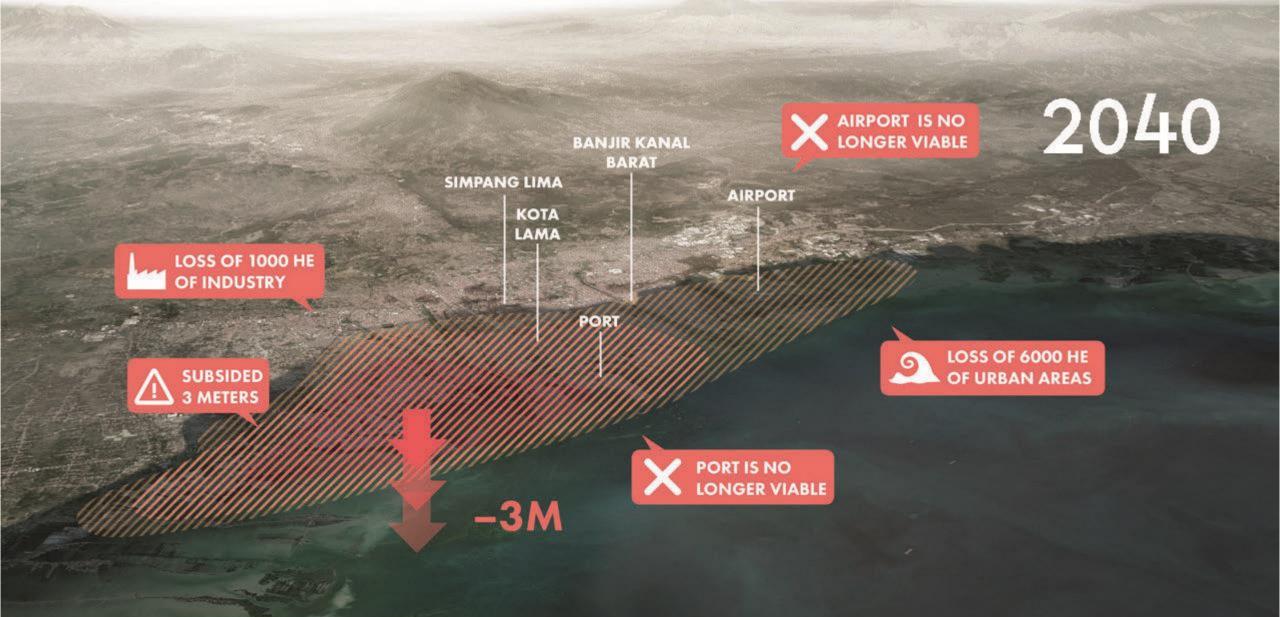
Spring

Urban Well



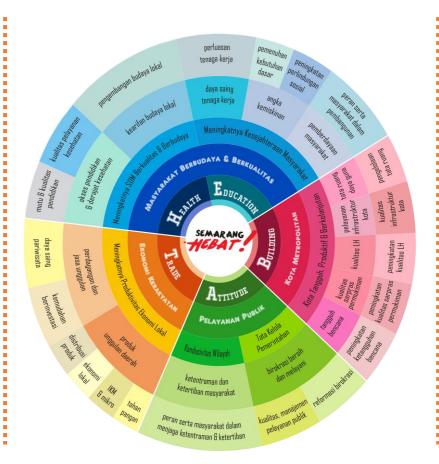
water(shed) as leverage

Water as Leverage, 2019 •ne resilient semarang



## URBAN RESILIENCE / CLIMATE ADAPTATION INTEGRATION INTO DEVELOPMENT PLANNING SYSTEM





MID-TERM DEVELOPMENT PLANNING (RPJMD) 2016-2021

MID-TERM DEVELOPMENT PLANNING (RPJMD) 2021-2026

SEMARAN

ACCES-

SIBILITY

INFRASTRUKTUR

Kota Tangguh, produktii dan Berkelanjutan

> PENINGR PENIANICK WAWASA

WAWASAN LINGKU

SPBE

# **Semarang Resilient Strategy**

Sustainable Water and Energy	New Economic Opportunities	Preparedness for Disaster and Disease Outbreaks	Integrated Mobility	Transparent Public Information and Governance	Competitive Human Resources
<ol> <li>Enhancing the performance of basic water management</li> <li>Promoting innovations in water provision</li> <li>Promoting environmentally friendly behaviors</li> </ol>	<ol> <li>Promoting entrepreneurship to increase the competitiveness of trade and services</li> <li>Developing environmentally- friendly and socially oriented innovative businesses</li> <li>Strengthening multi-stakeholder (academic, business, community, government) partnership to create job opportunities</li> </ol>	<ol> <li>Developing technology for disaster and disease management</li> <li>Enhancing the capacity of stakeholders in disaster and disease management</li> <li>Improving coordination in disaster risk reduction</li> </ol>	<ol> <li>Encouraging a change in behavior from using private vehicles to public transport</li> <li>Improving coordination and institutional management of public transport</li> <li>Integrating transportation planning</li> </ol>	<ol> <li>Optimizing Musrenbang (development planning forum) in the planning process</li> <li>Improving the integration of planning and city budgeting</li> <li>Optimizing the government's coordination of data integration and public information</li> </ol>	<ol> <li>Preparing the workforce for the current job market</li> <li>Promoting the value of pursuing higher education qualifications</li> <li>Improving nonformal education</li> </ol>
8 Initiatives	11 Initiatives	7 Initiatives	13 Initiatives	9 Initiatives	5 Initiatives

Sustainable Water and Energy

1. Enhancing the performance of basic water management

2. Promoting innovations in water provision

3. Promoting environmentally friendly behaviors Public Private Partnership (PPP) West Semarang Water Supply System





## **Jatibarang DAM**

#### New Economic Opportunities

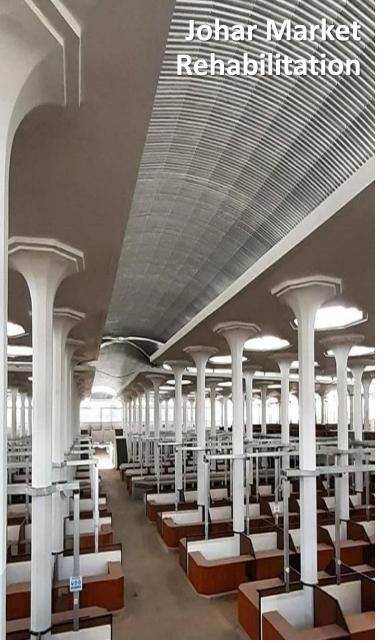
1. Promoting entrepreneurship to increase the competitiveness of trade and services

2. Developing environmentallyfriendly and socially oriented innovative businesses

3. Strengthening multi-stakeholder (academic, business, community, government) partnership to create job opportunities







#### Preparedness for Disaster and Disease Outbreaks

1. Developing technology for disaster and disease management

2. Enhancing the capacity of stakeholders in disaster and disease management

3. Improving coordination in disaster risk reduction

## **Collaboration with PMI (Indonesia Red Cross)**



# **MoU and Coalition Building for Resilient City**







# **MoU and Coalition Building for Resilient City**



## **Trans Semarang goes to World Class BRT**

#### Integrated Mobility

1. Encouraging a change in behavior from using private vehicles to public transport

2. Improving coordination and institutional management of public transport

3. Integrating transportation planning



### "Dedicated Lane, direct service, dan feeder system transforming Trans Semarang to become World Class BRT "



Transparent Public Information and Governance

1. Optimizing Musrenbang (development planning forum) in the planning process

2. Improving the integration of planning and city budgeting

3. Optimizing the government's coordination of data integration and public information  a district and subdistrict-level conference that provides a forum for residents, city officials and councilors to discuss problems in their areas and to make prioritazition on next year activities on city budget

 City government allocate
 specific budget to accommodate community priority under Mayor's Decree



#### Competitive Human Resources

 Preparing the workforce for the current job market

2. Promoting the value of pursuing higher education qualifications

3. Improving nonformal education



#### tidak masuk sekolah negeri ? INI SEKOLAH SWASTA GRATIS DI KOTA SEMARANG

TK PGRI 64	Jl. Purwosari Raya 9			
TK PGRI 115	Jl. Raya Walisongo Km. 9			
TK PGRI 23	Jl. Petek Kp. Bedas Utara No. 284			
TK PGRI 85	Jl. Muktiharjo Raya No. 52 Sendang Indah			
TK PGRI 02 Mlatiharjo	JL Ciamuk VIII			
TK Pertiwi 34	JI. Kamboja Raya			
TK Pertiwi 39	JI, Pramuka RT 01/RW 02			
The second s	George Participation and the second			
SD Budi Luhur	Jl. Gayamsari IV No.2 Pedurungan			
SD Islam Darul Huda	Jl. Wolter Monginsidi, 01/IV Genuk			
SD Kusuma Bhakti	Ji. Kebonharjo RT 10 RW VI Semarang Utara			
SD BINA PUTRA	Jl. Damarwulan I No.52, Karangayu Semarang Barat			
SD Marsudi Utami	Jl. Mayangsari Selatan I No.05 Ngaliyan			
SD Muhammadiyah 16	Jl. Singgalang Raya, Wanatingal Candisari			
SD Bangunsari	Jl. Lodan III, Bandarharjo Semarang Utara			
SD Bakti Pratiwi	Jl. Erowati IV / 12 A, Kec Semarang Utara			
SD Muhammadiyah 6	Jl. Cinde Utara No.40, Jomblang Candisari			
<b>SD</b> Pangudi Luhur Vicentius	Jl. Purwosari Raya, Tambakrejo Gayamsari,			
SD Gunung Brintik	Jl. Dr Sutomo 4 Semarang			
5D Islam Rohmaniyah	JI. Kramat Raya			
SD Hasanudin 03	Jl. Kalisasok Mangkang Welan Tugu			
SD Islam Diponegoro	Jl. Ngumpulsagi Raya No 12 Tembalang			
Server and the server and the	13-5			
SMP Al Islam	JI. Alastuo Bangeta			
SMP PGRI 2 Semarang	Jl. Hasanudin Rumah 🐂 🕐			
SMP Kuncup Melati	Jl. Gang Lambok No			
SMP Dondong Mangkang	JI. Raya Mangkang KM 13			
SMP Putra Nusantara	Jl. Pringgondani II			
SMP Purnama 1	Jl. Kedung Mundu raya No. 3			
SMP Taman Dewasa Citarum				
SMP Perintis 29	Jl. Karangbendo No. 4-5			
SMP IT Hidayatullah Gunung				
SMP Islam Cahaya Insani	Jl. Medoho Asri No.3			
SMP Muhammadiyah 2	Jl. Kasipah No 12			
SMP Purnama 2	Jalan Slamet Riyadi No.45			
SMP Hasanuddin 3	Jl. KH. Wahid Hasyim 390			
SMP Muhammadiyah 9	Jl. Lapangan Kalisasak No 9			
SMP Muhammadiyah 6	Jl. Brotojoyo Timur II No 22			
SMP Walisongo 2	JI. Dempelsari RT 03 RW 23			
SMP Islam Al Bisyri	JI. Sendang Pentul No 9			
SMP Purnama 3	Il Jend Sudirman 265 Jl. Sembungharjo HendrarPrihadi			
SMP Alhuda	Jl. Sembungharjo			

State & Private School Free of Charge Program

## Water as Leverage

Semarang Integrated Urban Water Management Program

Marine Village Tambaklorok



(2)RESILIENT KAMPUNGS

Integrated Toll Road–Sea Dyke Semarang - Demak



Conservation Area & Building Coverage Restriction in Spatial Plan

**MOUNTAIN TERRACE** 

RECHANNELING

THE CITY

Semarang River Revitalization



### Integrated Toll Road–Sea Dyke Semarang - Kendal

FEEDING



Water as Leverage, 2019

© Image produced by ONE Architecture & Urbanism





SIMPANG LIMA

LAWANG SEWU



**KAMPUNG PELANGI** 



**PELABUHAN TANJUNG MAS** 





**BANJIR KANAL BARAT** 

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