



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

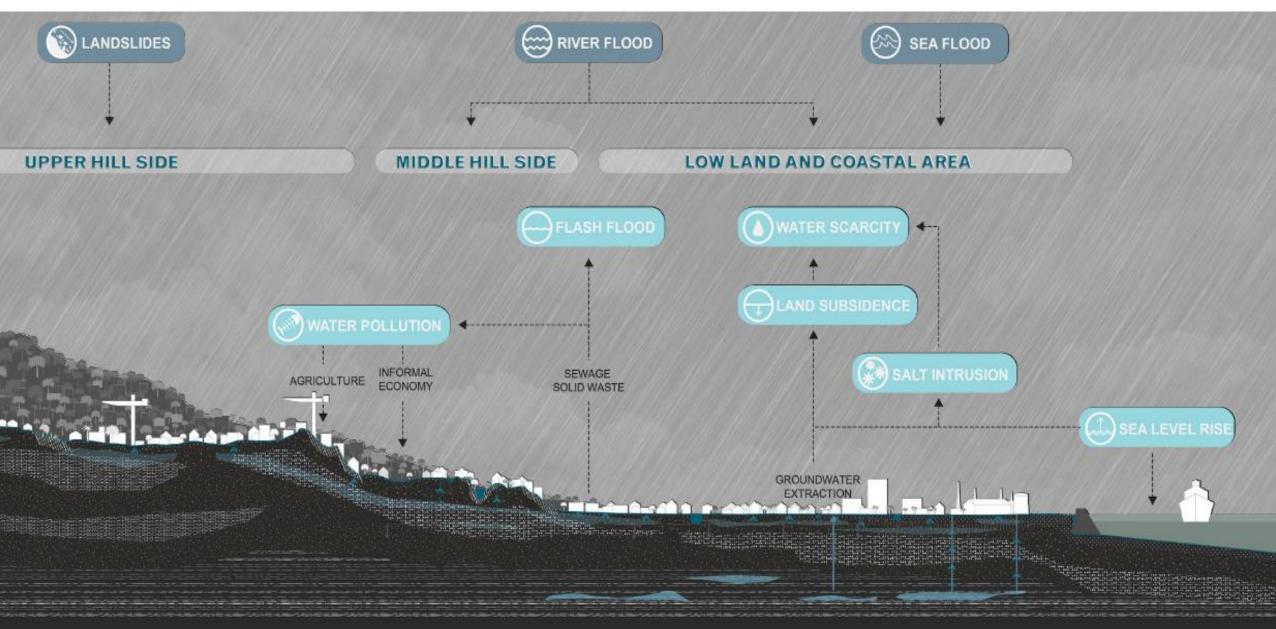
Subsidence Area

looded Aleas 2011

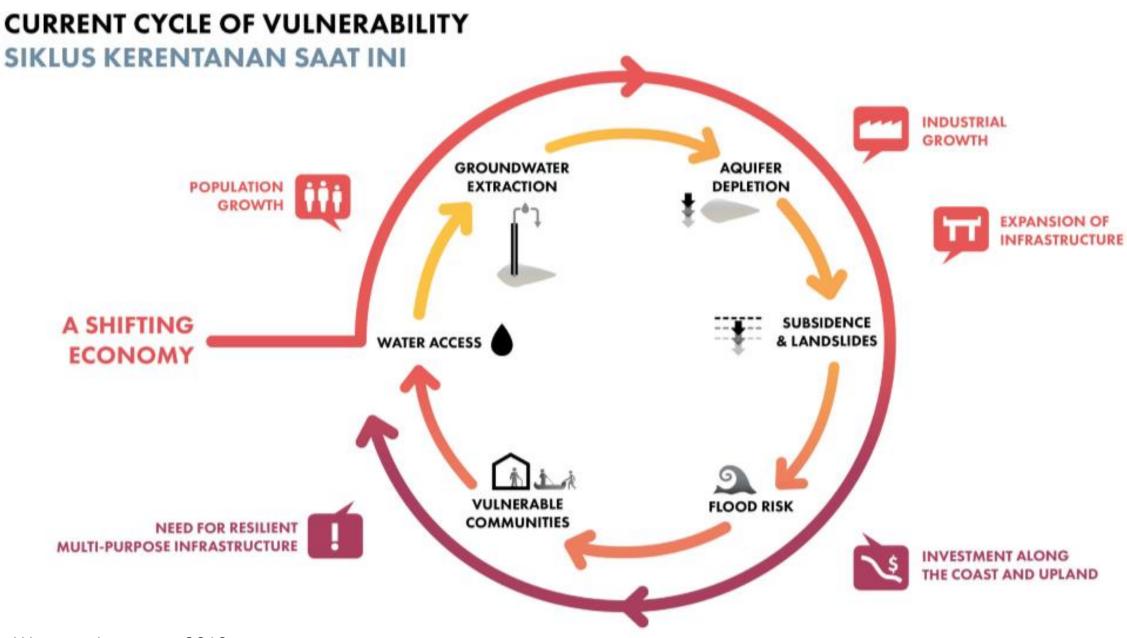
Clean Water Network

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



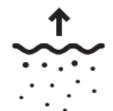
57.07% OF WATER LOSS in the PDAM piping water supply system **57.07% TINGKAT KEHILANGAN AIR** pada sistem penyediaan air perpipaan PDAM

Source: USAID & IUWASH (2010)



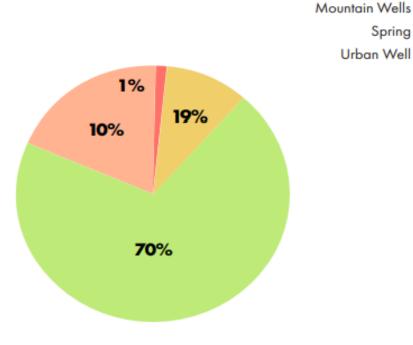
62.4% OF HOUSEHOLDS connected to PDAM piped water service 62.4% RUMAH TANGGA terhubung ke layanan air perpipaan PDAM

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

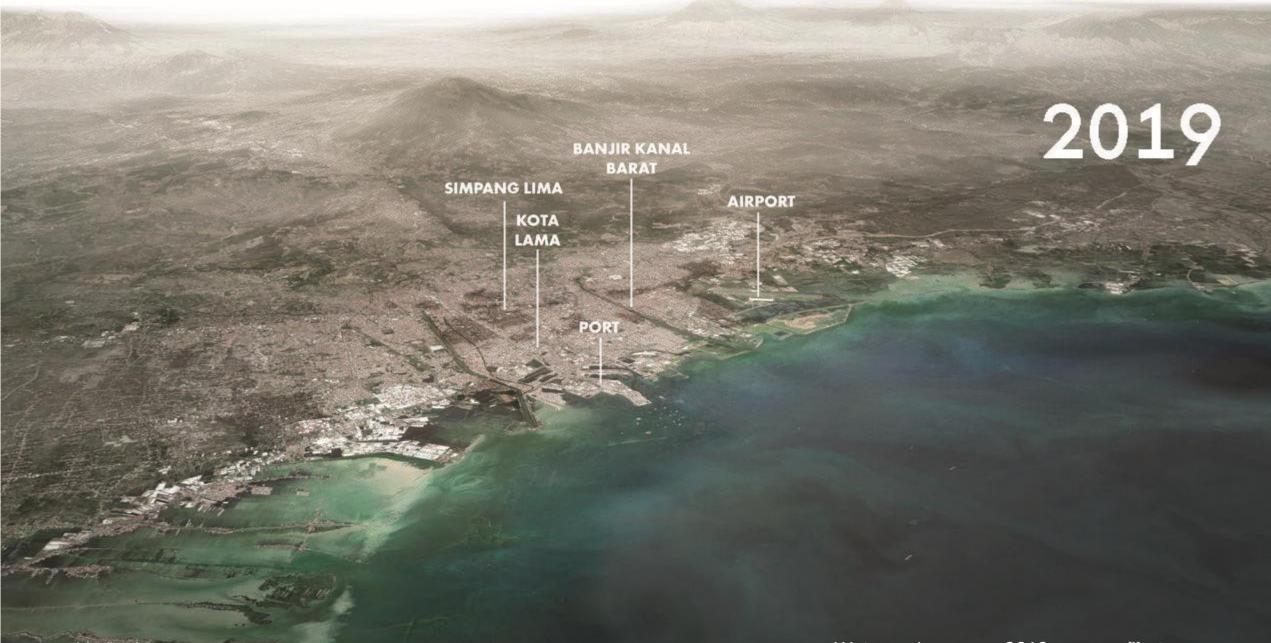
Source: Dokumen RISPAM Kota Semarang

Water as Leverage, 2019

Surface / River Water

Spring

Urban Well



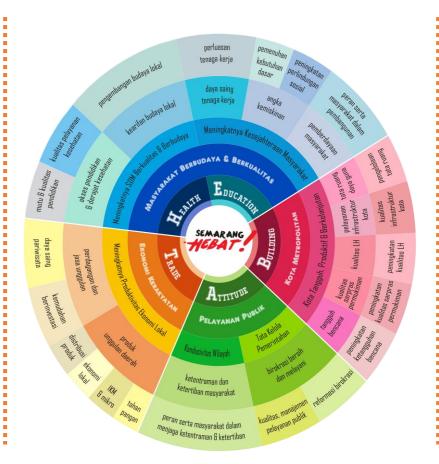
water(shed) as leverage

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 |
|---|---|---|--|---|--|
| Enhancing the performance of basic water management Promoting innovations in water provision Promoting environmentally friendly behaviors | Promoting entrepreneurship to increase the competitiveness of trade and services Developing environmentally- friendly and socially oriented innovative businesses Strengthening multi-stakeholder (academic, business, community, government) partnership to create job opportunities | Developing technology for disaster and disease management Enhancing the capacity of stakeholders in disaster and disease management Improving coordination in disaster risk reduction | Encouraging a change in behavior from using private vehicles to public transport Improving coordination and institutional management of public transport Integrating transportation planning | Optimizing Musrenbang (development planning forum) in the planning process Improving the integration of planning and city budgeting Optimizing the government's coordination of data integration and public information | Preparing the workforce for the current job market Promoting the value of pursuing higher education qualifications Improving nonformal education |
| 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

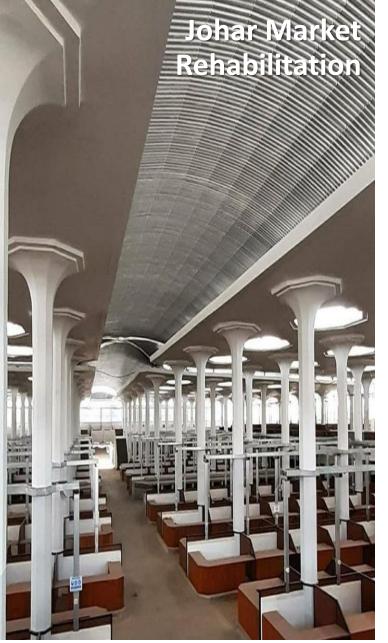
1. Promoting entrepreneurship to increase the competitiveness of trade and services

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 | | | |
| SD 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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