

JUGGLING JAKARTA: PATHWAYS TOWARDS RESILIENT METROPOLITAN JAKARTA



Speaker

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Pathways Towards Resilient Metropolitan Jakarta

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Deputy Governor of DKI Jakarta For Spatial Planning and Environment
Chief Resilience Officer (CRO) of Resilient Jakarta

Centre for Liveable Cities of Singapore, March 13, 2019

- **Issues of Jakarta**
- **Grand Design**
- **Collaborative Approach**
- **Pillars of Jakarta City Resilience Strategy**
- **Metropolitan Challenges**
- **Metropolitan Resilient Strategy**

As a center of South East Asia largest metropolis, Jakarta faces enormous challenges of basic services provision and extremely complex governance management.

Urban Issues



Water/Waste water



Waste

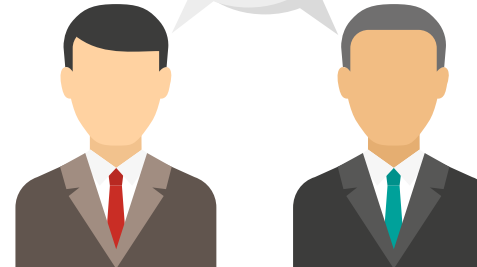


Transit Infrastructure



Inequality

Governance Issues



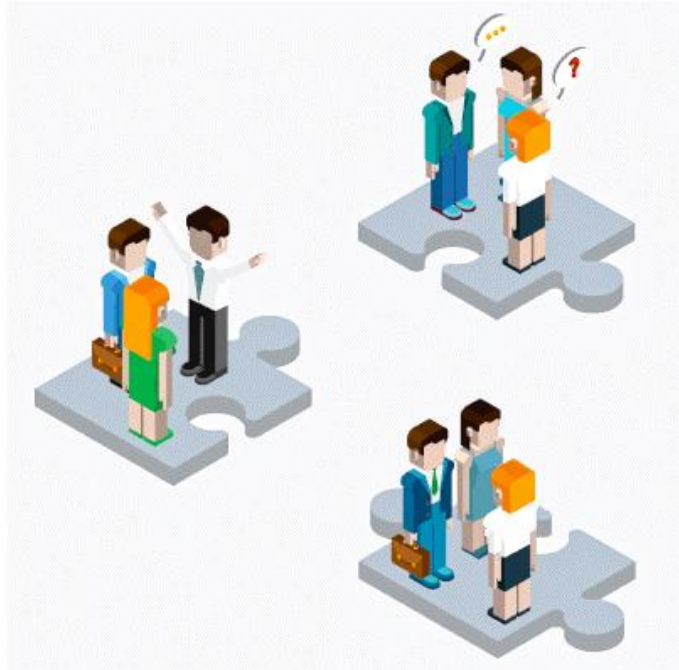
Fragmented
Governance



Working
In Silo

What have been done to cope with these problems...?

“Functional fragmentation among city departments has been a critical public administration problem and so does in Jakarta.”



No coordination



They work separately

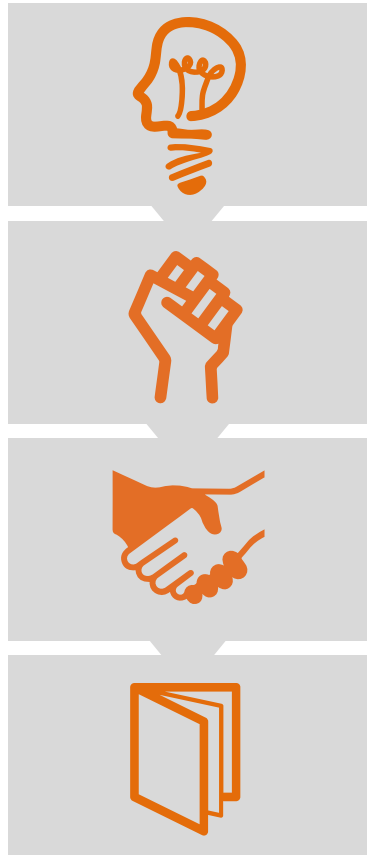


Incomprehensive Solution

There is a need for an instrument that can bound all stakeholders with the spirit of collaboration and commitment for improvement. Is this kind of “magic” instrument exist?

Grand Design is not technical guidance nor a master plan. It's instead can be a reference to formulate the master plan or strategy. Grand Design is naturally an ad hoc initiative arise from collective commitment to deal with **certain issue**.

Collaborative Approach



Common Understanding

Commitment

Consensus

Grand Design



Grand Designs for Jakarta

Launched

Grand Design Green Building

Grand Design Child-Friendly City

Grand Design Water and Domestic Waste Water

Grand Design Urban Farming

Grand Design Waste Management

On-going

Grand Design Community Based Disaster Risk Reduction

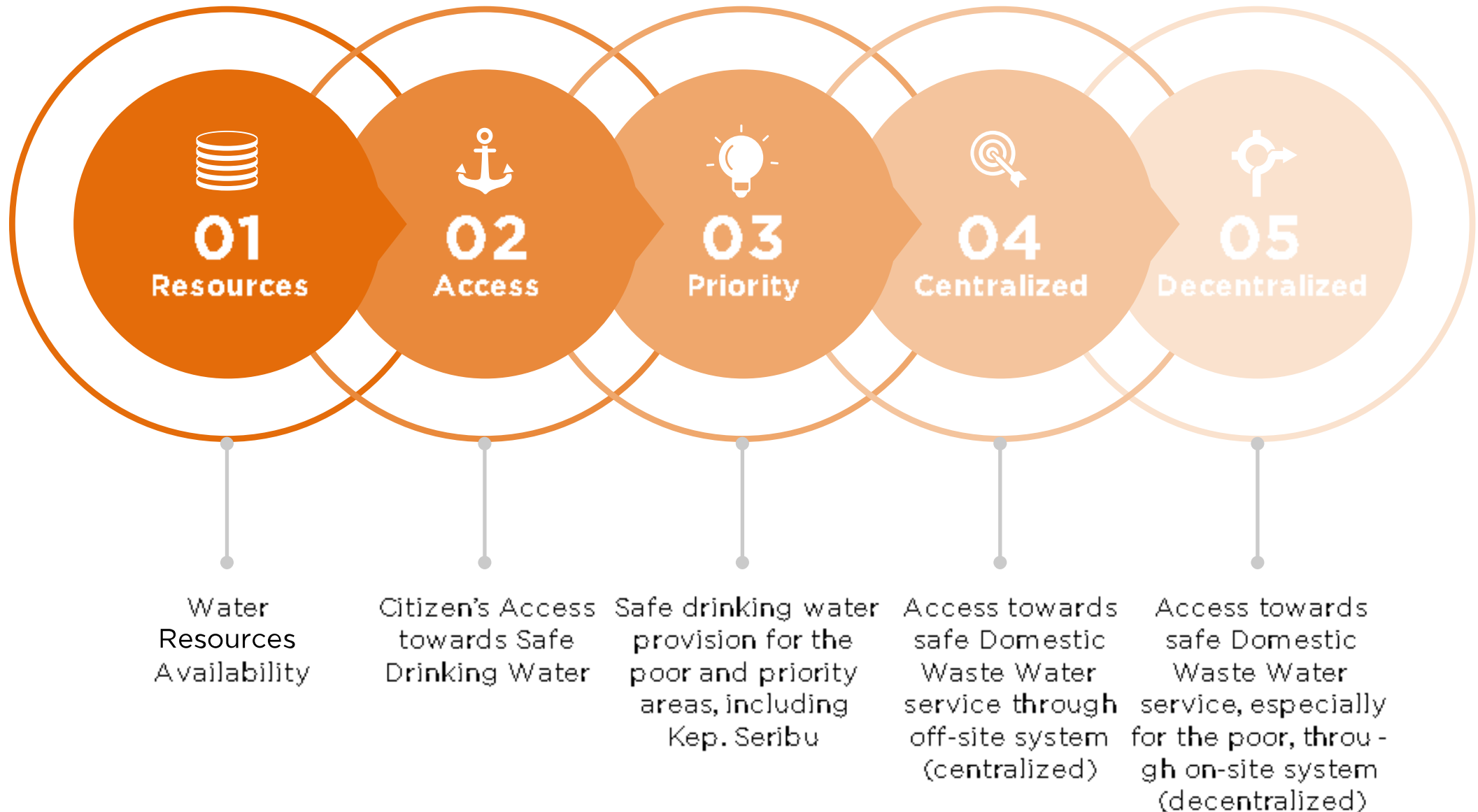
Grand Design Slums

Grand Design Groundwater

Grand Design Air Pollution

5

Strategic Issues



4

Function of Grand Design



Direction for
Collaboration



Reference for
Stakeholders



Reference for Sectoral
Mid-term Planning



Acceleration of
Implementation

Variables within Grand Design

Overview of the
Issue

Strategy of
Intervention

Monitoring &
Evaluation

Objective &
Milestone

Programs &
Activities

Jakarta found its momentum to build city-wide collaboration to transform Jakarta into resilient city. How is the process?
Who's involved? What's the output?

Jakarta's Method

Towards Resilient Jakarta

Is conducted with

Collaborative Approach

1 Paradigm Shift & Raising Awareness

Reinforcing knowledge on city resilience concepts

By

- Initiating **Resilience Forum**
- **Socializing** resilience concepts and practices

Through

- *Workshops*
- Seminar
- Engaging stakeholders
- *Social media and Website*

2 Internalization of City Resilience Concept

Formulating **city resilience strategy as method and collaborative approach** in dealing with various urban issues.

Integration into

- RPJMD (mid-term development plan)
- RKPD (Annual development/work plan)
- Strategic Plan
- City planning document (zoning and land use/RDTR & RTRW)
- Global Agenda (SDGs, NUA, LCMT, *Ambitious City Promises*)

Collaborative governance allows government agencies directly invite stakeholders to **make decisions jointly in a forum that is formal, consensus-oriented, and freedom-oriented**, which aims to create or implement public policies or manage public programs and assets (Ansell dan Gash, 2007)

Government

Private Sector

Academician

Civil Society

This citywide collaboration then results a Jakarta Resilience Strategy with three main pillars embody the most pressing and crucial issues...

The three main pillars of Resilient Jakarta are equipped with two cross cutting issues; Governance & Social Cohesion



Jakarta is well prepared to face any stresses and shocks, including risks of disasters and impacts of climate change.



A healthy city which guarantees accessibility to services of clean water, waste water, and sustainable solid waste management.



An integrated transportation system which accessible for all and may improve quality of mobility and connectivity of the citizen.

Governance & Social Cohesion

What are challenges that Jakarta face in order to build Ready, Healthy, and Connected city?

Sinking City & Sea Level Rise

#DeltaCityChallenge #ClimateChangeJakarta

Land subsidence: why bother?



Main messages:

- Land subsidence outranges climate-driven sea level rise
- Most of the problematic land subsidence is human-induced
- Solutions are available and need to be found locally

“Jakarta is one among other delta cities that is exposed to risk of sea level rise and land subsidence (some areas of Jakarta is sinking up to 20 cm/year). Jakarta is even considered as one of most vulnerable cities impacted by climate change (EEPSEA, 2009; accessed at:

Source :

10 augustus 2015

<https://www.idrc.ca/sites/default/files/sp/Documents%20EN/climate-change-vulnerability-mapping-sa.pdf>)”

Deltares

From regular shocks to regular stresses **#Shocks&StressesChallenge #JakartaPrepared**



“In the past five year (2014-2018), Jakarta had 6.754 fire incidents with an estimate of ± 4 incidents/day (Fire and Rescue Jakarta Provincial Government, 2019).”

“In 2018, Jakarta was ranked first as city with worst air quality in Southeast Asia. The daily air quality average in Jakarta was 45.3 micrograms pollutant particles per cubic meter while the standard set by World Health Organization (WHO) is 25 micrograms per cubic meter daily (Study by Greenpeace & AirVisual IQ, 2018).”



Clean Water, Sanitation, & Waste #HealthyCityChallenge #JakartaHealthy



“In 2017, Jakarta produces 7.147 tons of waste per day with 10% goes untreated (Jakarta Environmental Agency, 2017)”



“In 2017, At 90 survey points of 20 rivers in Jakarta, 12% is lightly polluted, 17% is moderately polluted, and 61% is heavily polluted (Jakarta Environmental Agency, 2018).”



“Waste Water service coverage is still at the rate of 4-5% (PD PAL Jaya, 2018).”



“Clean water for Jakarta is 97% supplied by water sources from outside Jakarta and clean water provision only serve 60% of the city (PAM Jaya, 2018).”

Public Transportation and Connectivity #UrbanTransit #JakartaConnected

“In 2017, Jabodetabek has approximately 2 million commuters come to Jakarta everyday with total number of trips more than 47 million in the whole metropolitan. Out of these 47 million trips, 30% are using public transportation and the rest rely on private vehicles (BPTJ, 2018).”



“Newly finished MRT Jakarta that will be operated for the first time on March 2019 has 16 km operation length, while we need not less than 200 km to break Jakarta congestion. (Vice President of Indonesia, Jusuf Kalla, 2019).”

Jakarta various stresses and shocks #ResilientChallenges #ResilientJakarta



Drought



Riot



Food
Safety

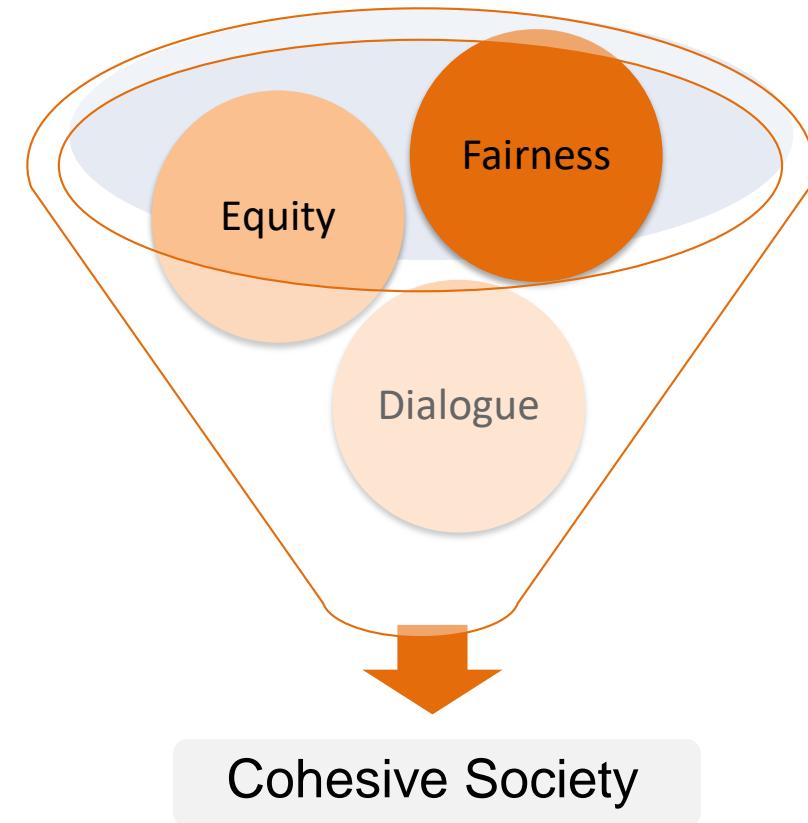


Disease
Outbreak

Governance



Social Cohesion

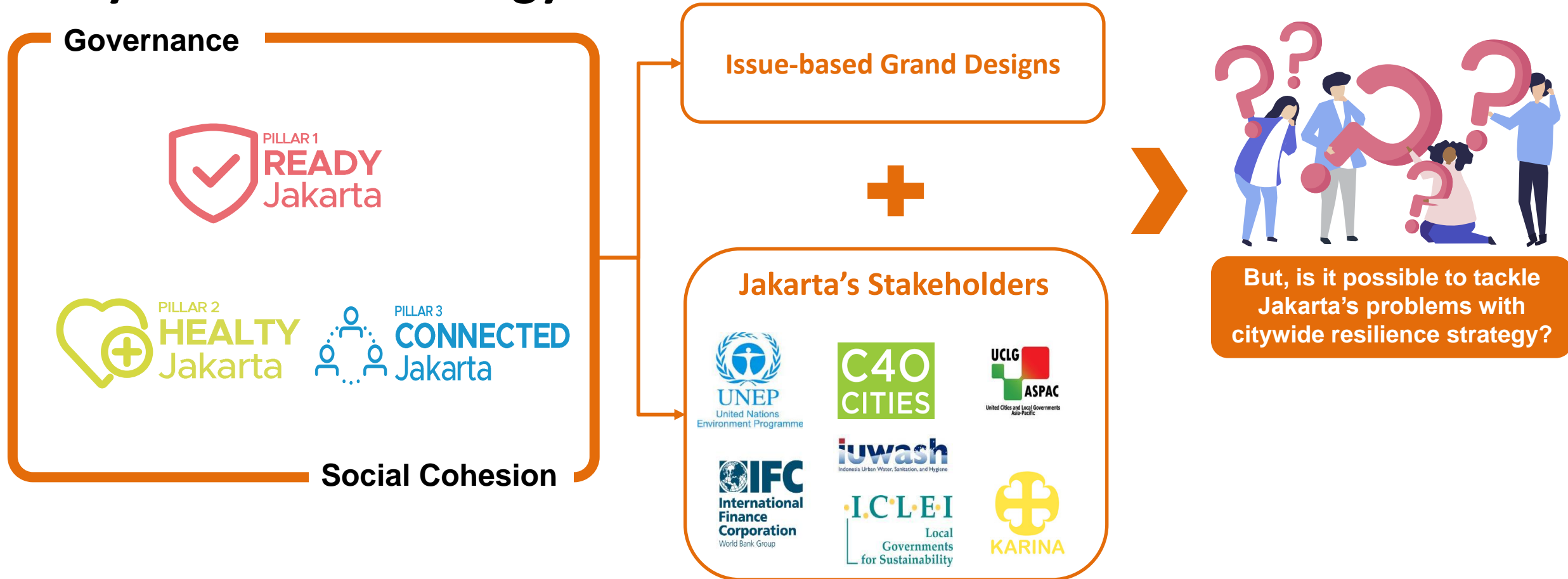


“The increasingly complex resilience-related problems require cross-cutting principles to be mainstreamed into our city resilience strategy.”

City Resilience Strategy as An Umbrella

Jakarta resilience strategy becomes an umbrella encompassing relevant existing efforts, plans, and initiatives so it can further developed to be reference for Jakarta administration formulating its midterm (5-year) development plan.

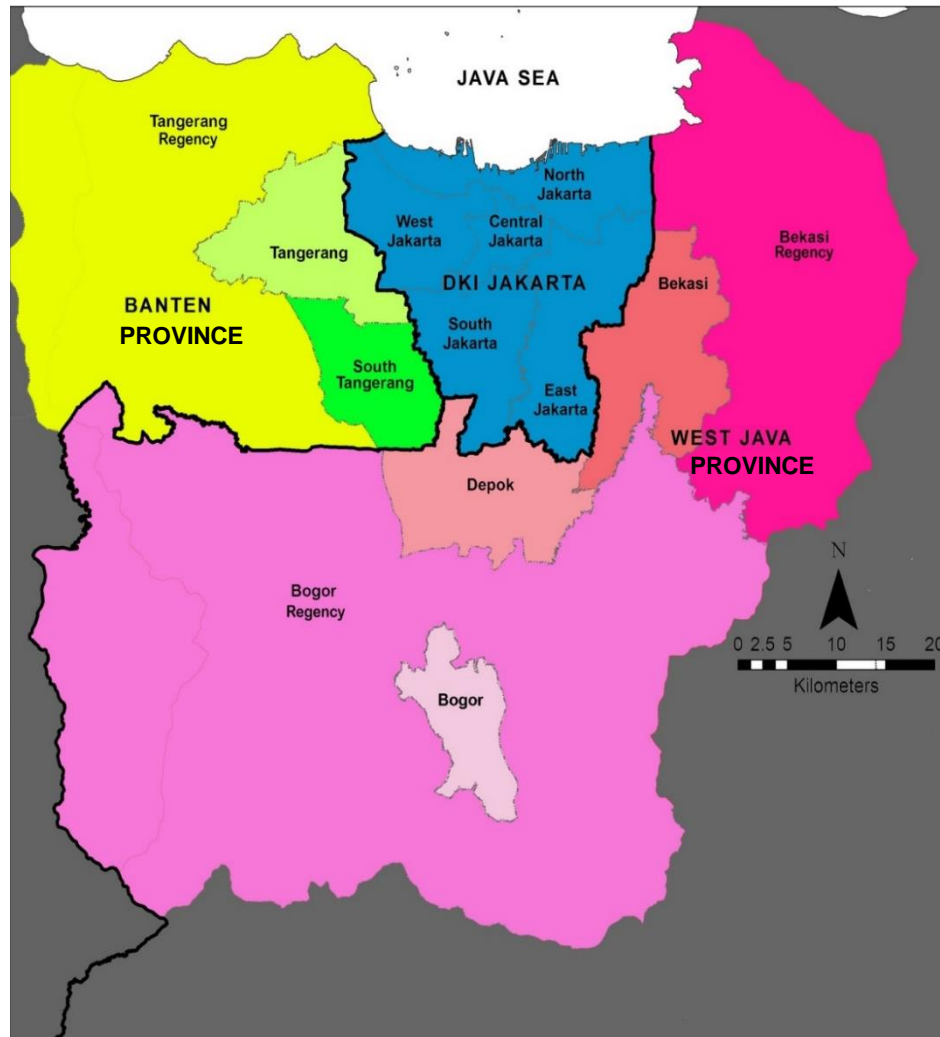
City Resilience Strategy



From City issues to Metropolitan Issues



Jakarta led by Governor, while surrounding municipalities led by Mayor or Regent. Also, there are 2 surrounding provinces led by Governor.



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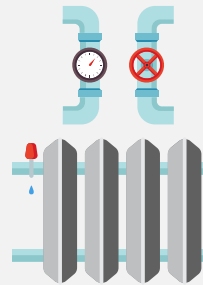
Jakarta's Major Problems



~ 7 thousand tons waste production per day



18,7 million motor vehicles contribute to air pollution in Jakarta



97% Clean water for Jakarta is supplied by water sources from outside Jakarta



Limited Water, rivers within Jakarta are very polluted 35 millions E-Coli per 100 cc water



land subsidence around North Jakarta with the maximum 25cm in 2014-2017

If the degree of cross-boundary problems is so high, aren't we suppose to think about metropolitan strategy??

BKSP (Metropolitan Coordination Body)

Environmental Services

1. Jakarta has granted funds for Bekasi up to USD 29 million/year for landfill management.
2. Jakarta grants funds of USD 520,000/year for Bogor Regency to clean up the rivers maintain water catchments (dams).
3. Jakarta grants funds of USD 2.7 million/year for Depok City to normalize and clean some water catchments (lakes)
4. Jakarta grants funds of USD 1.75 million/year for Tangerang Regency to normalize some rivers

BPTJ (Authority for Metropolitan Transportation Management)

Transit Governance

1. In 2015, Jakarta has granted funds of USD 4.5 million for South Tangerang City to revitalize one of BRT terminal.
2. Jakarta administration subsidizes BRT operational cost for routes reaching its surrounding municipalities through “Low-fare BRT policy” that costs only Rp 3.500 or only USD 0.25/trip (same cost as trip within Jakarta)
3. In 2018, surrounding municipalities together with Jakarta administration plan BRT’s route expansion.
4. Along with BPTJ and Central Government, local governments in Jabodetabek are committed to achieve 2029 Jabodetabek’s connectivity and mobility Improvement target

To build resilient metropolitan, we need to have metropolitan-level resource management plan, integrated sector management plan, and collective attempts of multiple actors.



Metropolitan Resilient Strategy
(strategy, pillars, vision)



Issue-based Grand Design
(Transportation, water, waste, etc)



Terima kasih! Thank you!



Personal Publications:

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Jakarta Berketahanan



JakBerketahanan



[jakberketahanan](https://www.instagram.com/jakberketahanan)

LECTURE SERIES

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LECTURE SERIES

UPCOMING LECTURE

**4
APR
2019**

The Healthy Streets Approach

10:30am-12:00noon
**LTA Auditorium
Block 5,
No. 1 Hampshire Road
Singapore 219428**

Networking & Registration
from 10:00 - 10:30am

RSVP

Free Admission.

Seats are available on a
first come first serve basis.
Please come early as seats
are limited.



In this Lecture, public health specialist Lucy Saunders will introduce the Healthy Streets Approach to Urban Planning. This is a framework for putting human health and quality of life at the centre of decision making around transport and public realm planning and management. It has been adopted by London as the framework for the 25 year Mayor's Transport Strategy and is being embedded in the systems and processes of the strategic transport authority, Transport for London.



Speaker

Lucy Saunders
Public Health Specialist -
Transport & Public Realm
Greater London Authority &
Transport for London

[@LE_Saunders](#)



Panellist

Hwang Yu Ning
Deputy Chief Executive
Officer & Chief Planner
Urban Redevelopment
Authority



Panellist

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Adjunct Associate Professor
Lee Kuan Yew School of
Public Policy
National University of
Singapore

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Moderator

Jeremy Yap
Deputy Chief Executive,
Public Transport,
Policy & Planning
Land Transport Authority