

## JAKARTA'S WATER: THE NEXT STAGE

Provinsi DKI Jakarta June 2021

1



A mega city with ± 10 million people during night time and supporting 20 million people in the Greater Jakarta Area Capital city, a political and business hub of Indonesia

A very densely built metropolitan city

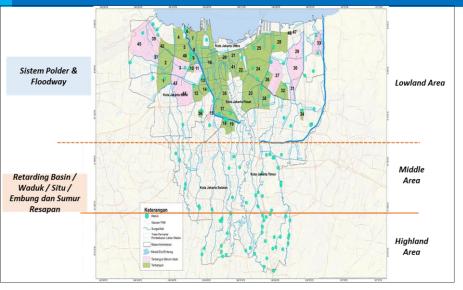
Low laying area, with parts of Northern Jakarta below sea level Delta city, with 13 rivers flowing through from outside of Jakarta

Experiencing many impacts of climate change

# "<u>Climate change is water change and WATER is</u> <u>a KEY RESOURCE</u> for the sustainable development of megacities and a key factor of their resilience"

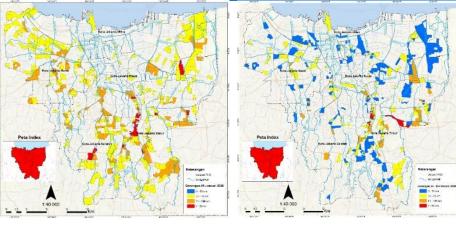
International Conference Water, Megacities and Global Change UNESCO – ARCEAU IdF Paris, 2 December 2015)

### Jakarta, rainfall and flood events

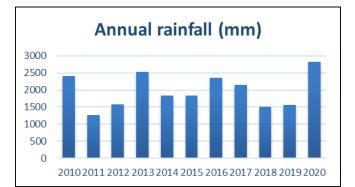


- Jakarta is located in downstream area with elevation around 0 – 90 m asl.
- Flood control management and program: highland area, middle area and lowland area.

| River capacity  | : 2357 m3/det |
|---|---------------|
| River discharge on Jan 2020   | : 3389 m3/det |
| Remaining discharge must be retained in <i>highland:</i> 1032 m <sup>3</sup> /det |               |



Flood 31 December 2019 - 1 January 2020 Flood 24-25 February 2020



# Jakarta, rainfall and flood events





Jakarta has been experiencing more frequent extreme weather events, with high rain intensity in a short period

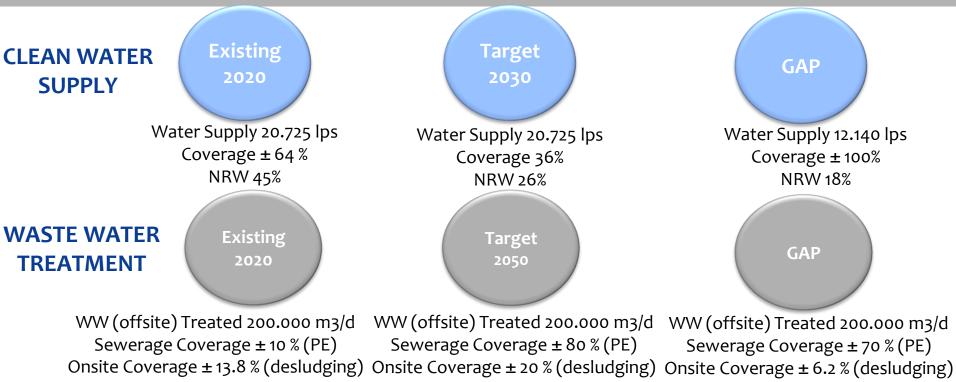
On the other hand......

Jakarta is relying on outside source for its clean water, this including the increasing use of bottled water for drinking, and the polluted water bodies needs immediate treatment efforts



Goals? Goals?

#### **GAP ANALYSIS**



Addressing Clean Water and Wastewater Management issues in combine with Flood Management efforts

### Future: Jakarta, a model of multi function water Infrastructure



Central of local heritage



Central of wastewater Treatment

Babakan reservoir, South Jakarta Central of groundwater recharge and flood control



#### Central of eco-tourism and education

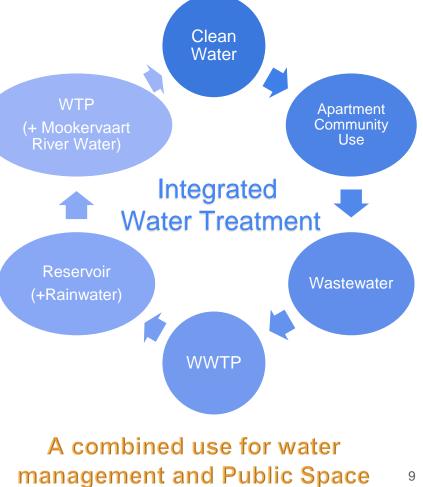


Central of clean water treatment

(interceptor system)

Mookervaart Daan Mogot Reservoir and Water Treatment Plant at Govt. owned Pesakih Apartment Complex





9

# Future Project: Pondok Ranggon Reservoir "Creating a Multifunctional Blue – Green Public Space"

### **Groundwater Recharge**

### Wastewater & Clean Water Treatment

#### Flood Control System



## Social – Cultural Hub Ecotourism and education

# Open Green Space

# **TERIMA KASIH**

**THANK YOU**