Promote Mainstreaming Conservation Values into City Planning

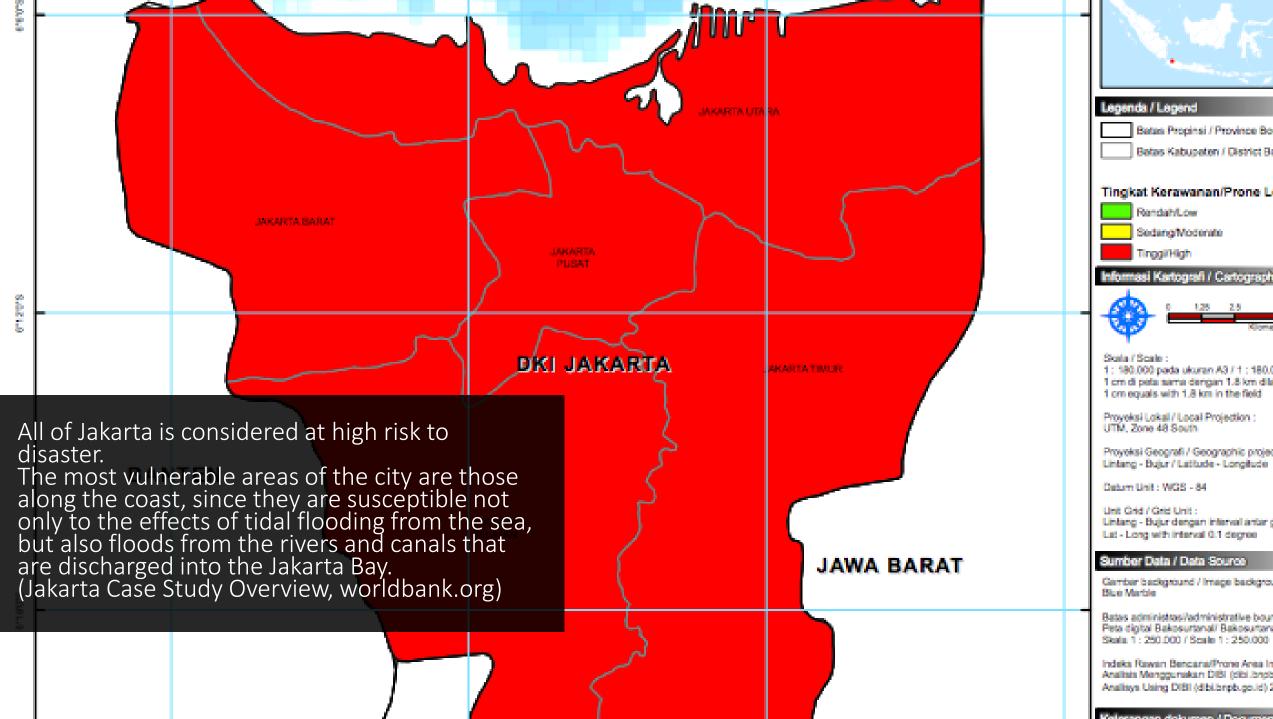
Glaudy Perdanahardja

Indonesia Coasts and Ocean Program



Image credit: Koran Architecture, 2012

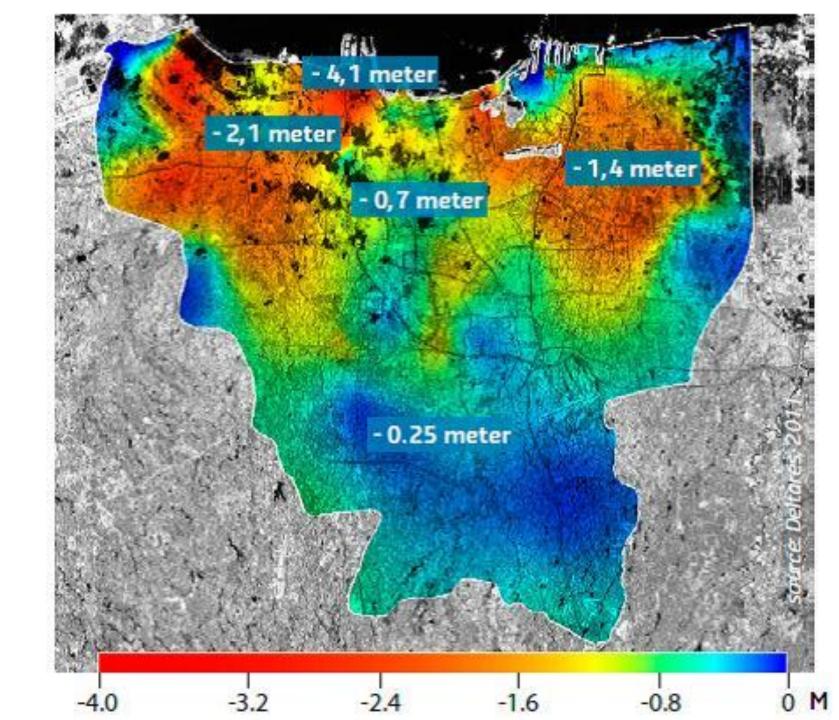




STOP USING GROUNDWATER

- Mainly caused by extraction of groundwater (Jakarta, Ho Chi Minh City, Bangkok, Dhaka, Shanghai and Tokyo)
- Over-exploitation of groundwater resources, especially when surface waters are seriously polluted (Jakarta, Dhaka)
- In China the average total economic loss due to subsidence is estimated at around 1.5 billion dollars per year of which 80-90% are indirect losses. In Shanghai, over the period 2001-2010, the total loss cumulates to approximately 2 billion dollar

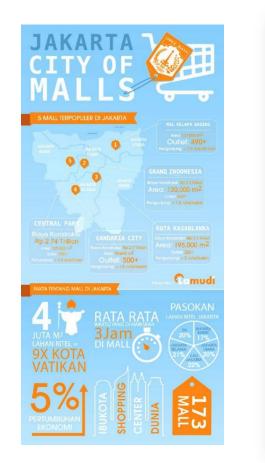
Source: Deltares - Taskforce Subsidence, 2015

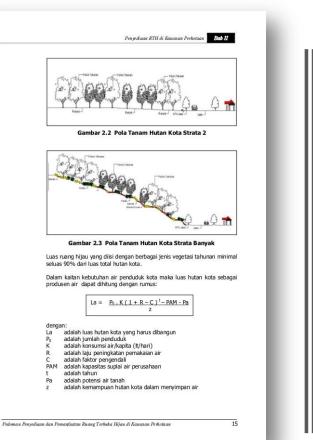


Many kampongs in Jakarta are located on waste ground along the city's polluted rivers and canals, where 700,000 m³ of sewage is dumped each day.

Source: http://www.globaleye.org.uk (2000)

Gredit image: http://carbon-based-ghg.blogspot.co.id





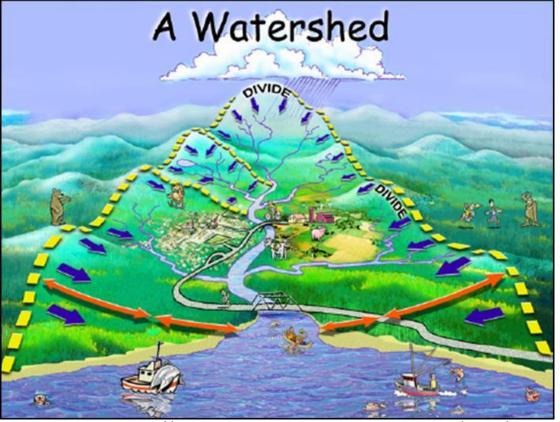
Alih Fungsi Ruang Terbuka Hijau di DKI Jakarta

Ruang Terbuka Hijau (RTH) merupakan suatu bentuk pemanfaatan lahan pada satu kawasan yang difungsikan untuk penghijauan tanaman serta perlindungan habitat tertentu, budidaya pertanian, meningkatkan kualitas atmosfer, hingga menunjang ketestarian ari dan tanah.

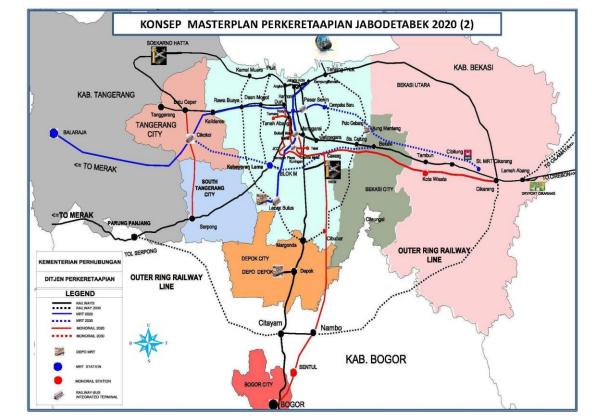


WE NEED MORE FORESTS

Image credit: http://www.kompasiana.com/2015

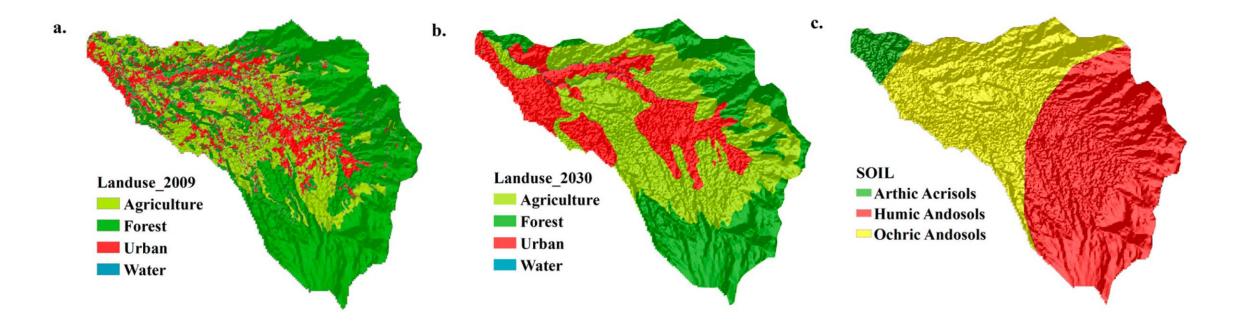


Credit image: https://bebasbanjir2025.files.wordpress.com/2008/

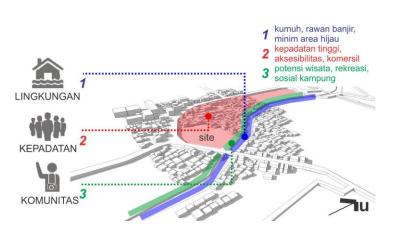


Credit image: http://jakartabytrain.com

LOOKING AT ALL ASPECTS OF DEVELOPMENT: ECOSYSTEM AND SOCIO-ECONOMIC



land-use changes upstream of the basin altered hydrological behavior and may result in flooding downstream, where the city of Jakarta is located. Deforestation and urbanization are the main causes of rising flooding volume and peak flow in this watershed. Therefore, it is important to protect the forest in this area (Emam at al. 2016)



Credit image: kompasiana.com/



Credit image: kompasiana.com/



Credit Image: http://news.liputan6.com/

catchment area (by definition) an area that serves to catch water

INDONESIA PROGRAM



THANK YOU

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