DUTCH RESILIENCY IN THE COASTAL DELTA, BY ALERT PEOPLE

Sustainability in the World 'Need the People'

Hugo H. C. Sanders MSc. CPONH NGO Senior-researcher of Applied Science

hugo.cponh@soswaterfront.eu



Sustainable Cities 'Thanks to People'

TODAY – More people in Cities

TODAY – We built large Cities

TODAY - Most are Coastal Cities

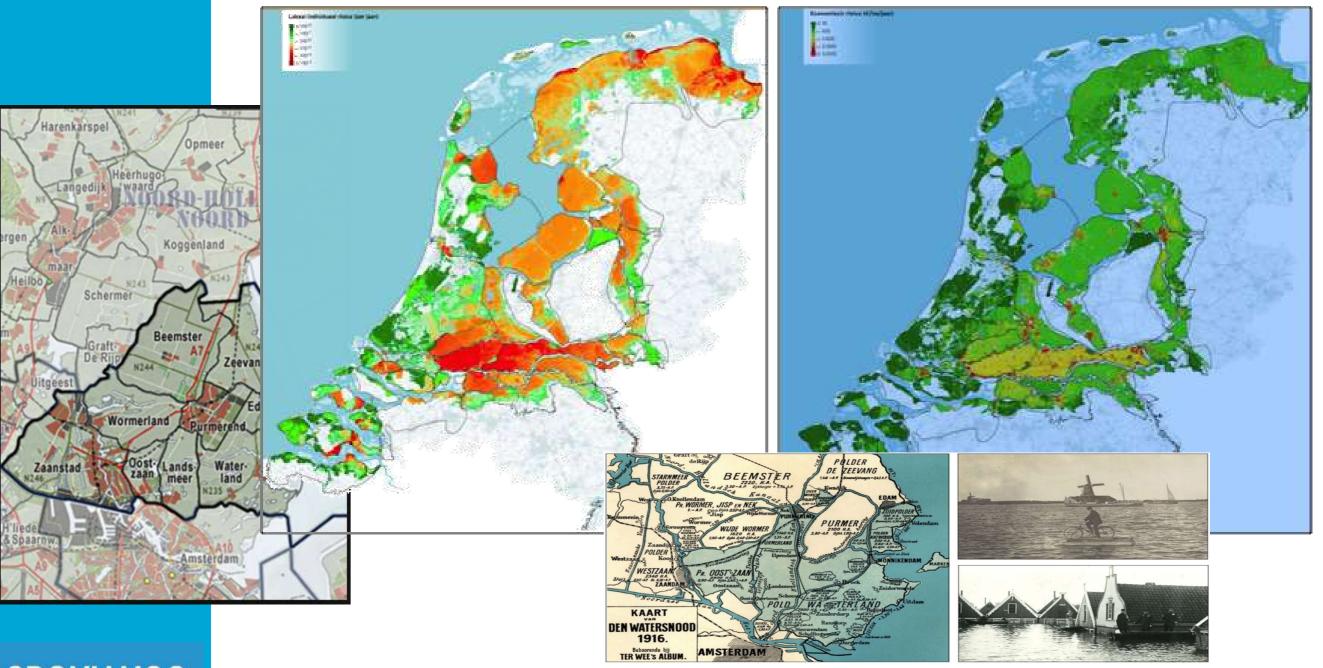
TODAY – We need Resilient Cities.

Only - Although

Citizens think on Small Scale Municipalities act on Large Scale.

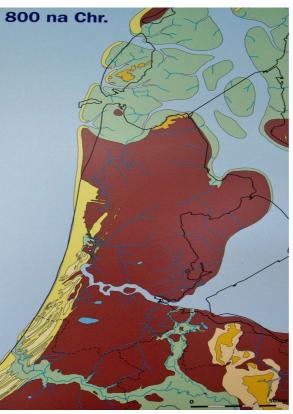


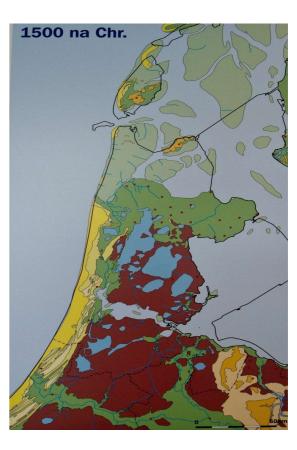
The effect of FLOODING in NL: Depth (left) and soil(right)



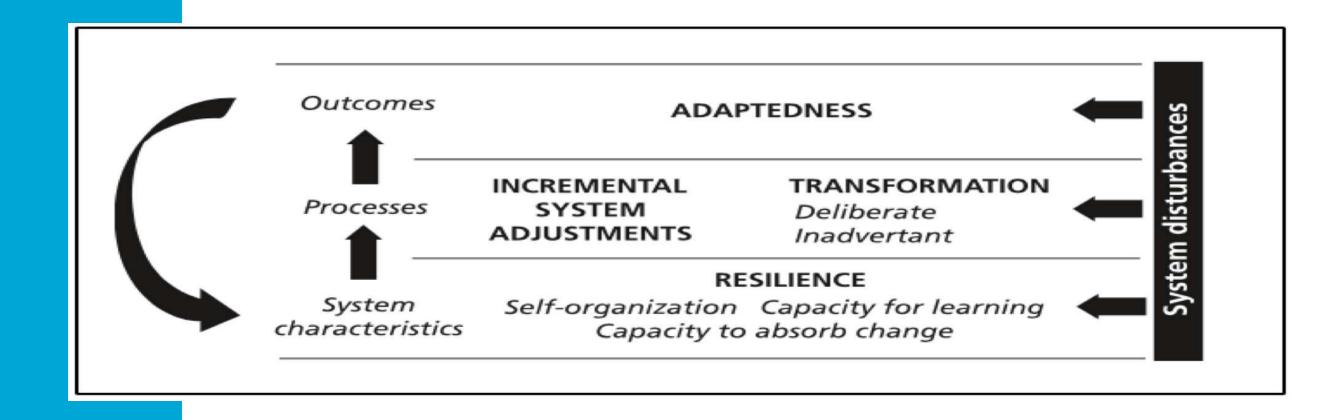
The development of lakes and polders



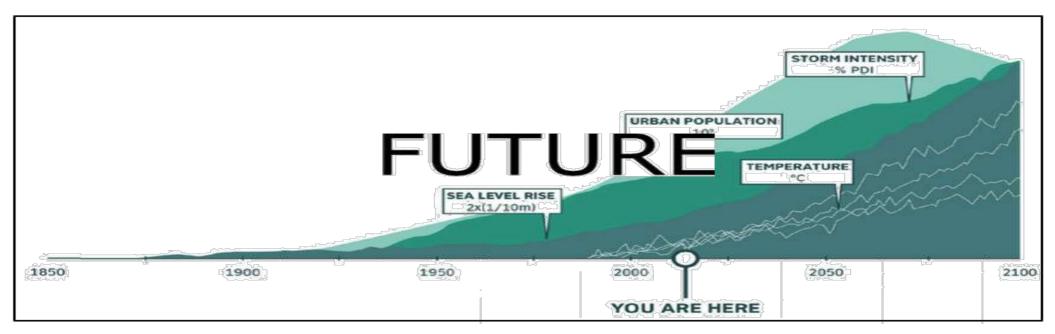


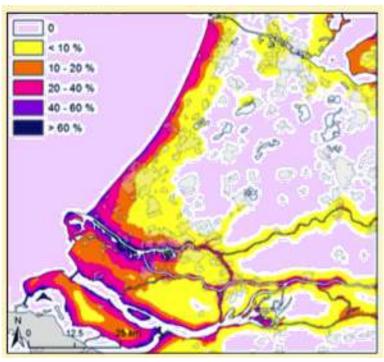


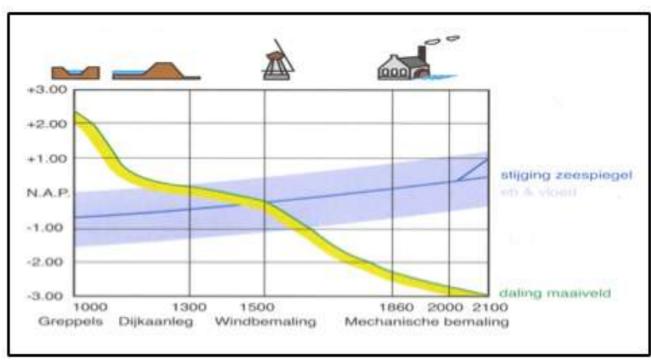
Resilience is SELF ORGANIZATION



The effect of seawater level rise in NL



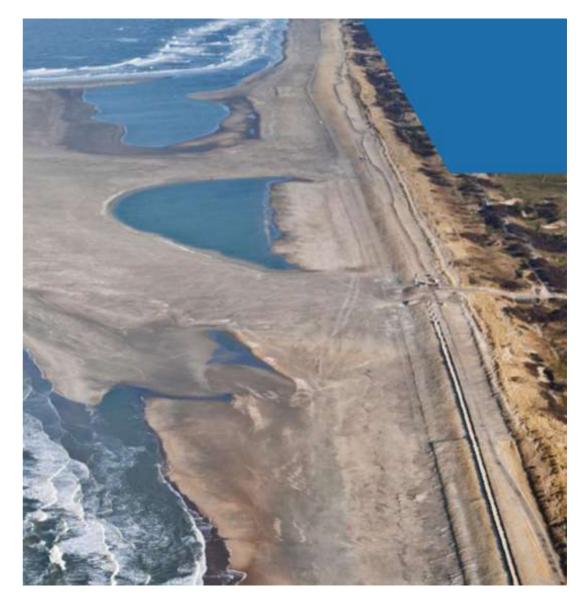






The effect of FLOODING in NL







Resilience in the city [questionnaire]

Question topics	YES	NO	DONT KNOW
1. Awareness of the risk that dikes can break	72,5	25,0	2,5
2. Confidence is the construction of dikes	67,5	22,5	10,0
3. Following governmental instructions by flooding	60,0	12,5	27,5
4, Rescuing neighbours instead of running, by flooding	62,5	15	22,5
5. Taken precautionary measures for flood emergencies	30,0	70,0	0,0



Resilience in the Netherlands;

- 1. In case of disasters people act faster
- 2. Professionals come later, create context
- 3. Countryside people help from nature.
- 4. Citizen people are aware of dangers
- 5. Citizen though wait for official instructions
- 6. A 30% have taken precautions already
- 7. Effectiev crisis planning by mutual respect
- 8. Residents have to exercise disaster too



Resilient Cities 'Thanks to People'

QUESTIONS AND REMARKS!

See you at the Amsterdam July 2020 workshop



