

MARESME I CANVI CLIMÀTIC

Resiliència i Sostenibilitat en un mon finit

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ACTUALLY ON TRACK TO DO

6°C

EMISSIONS GAP

WHAT COUNTRIES SAY THEY
WANT TO DO

2°C

From Sustainability to Resilience: The IMPERATIVE of resilience

"the message of resilience is more radical for policy-makers than that of sustainability (-) promoting resilience means changing". Brand and Jax, 2007:1



Urgency
(short term plan and short term result)

Politically Correct
(actions saving our lives and future)

Justifying (much needed) Investments

The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

Not Resilient



Resilient

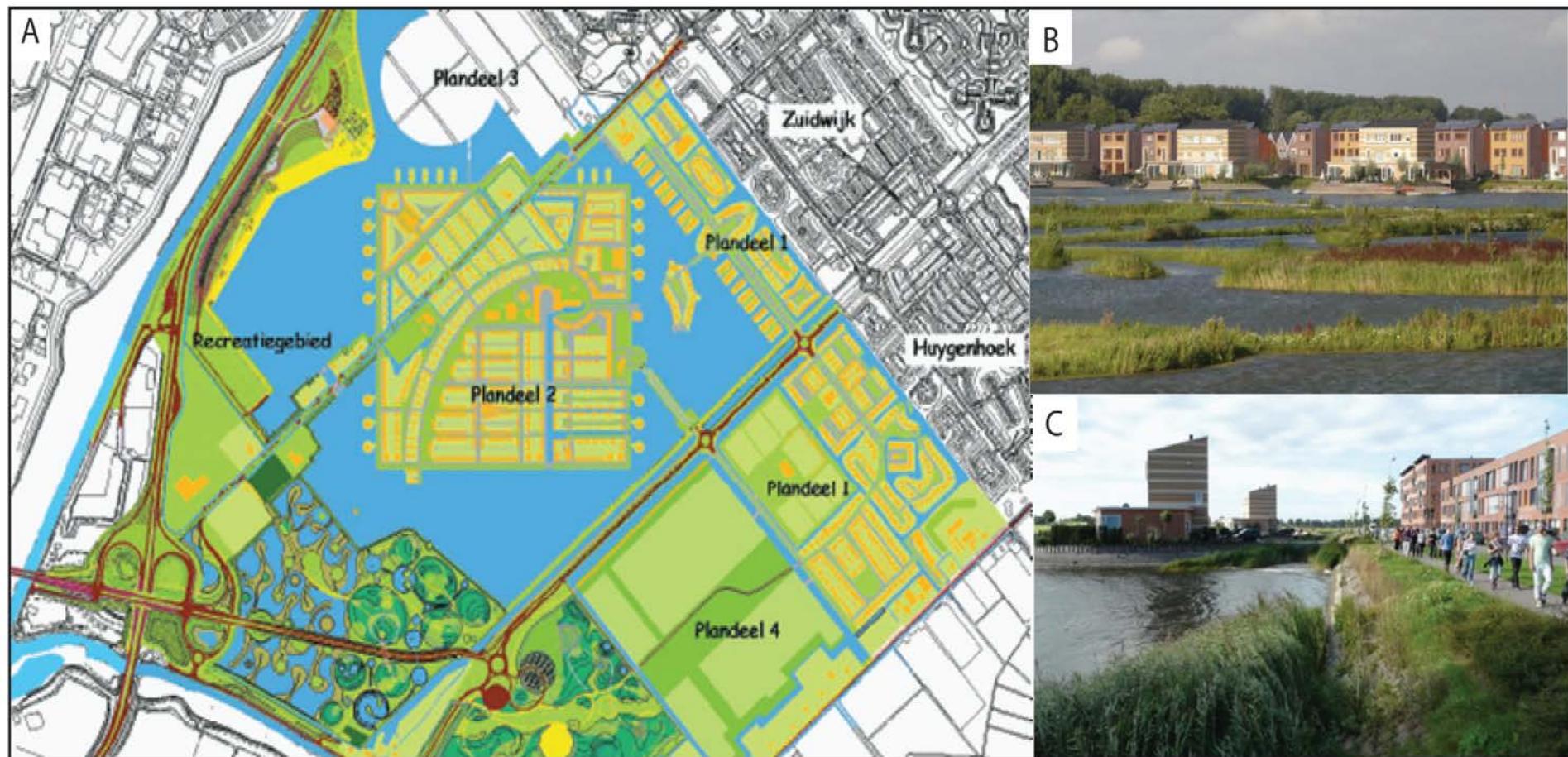


$$\text{Vulnerability} = \frac{\text{Exposure} \times (\text{Sensitivity} \times \text{Hazard Risk})}{\text{Resilience} \text{ (adaptive cap)}}$$

The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

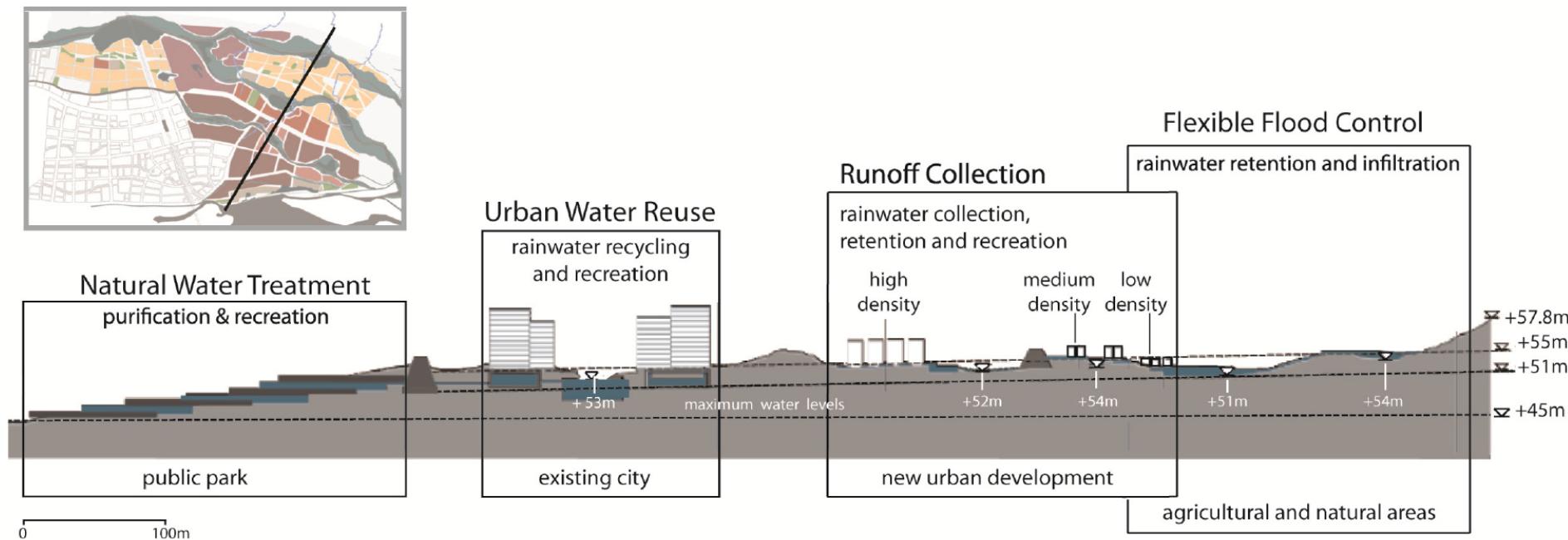


The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS



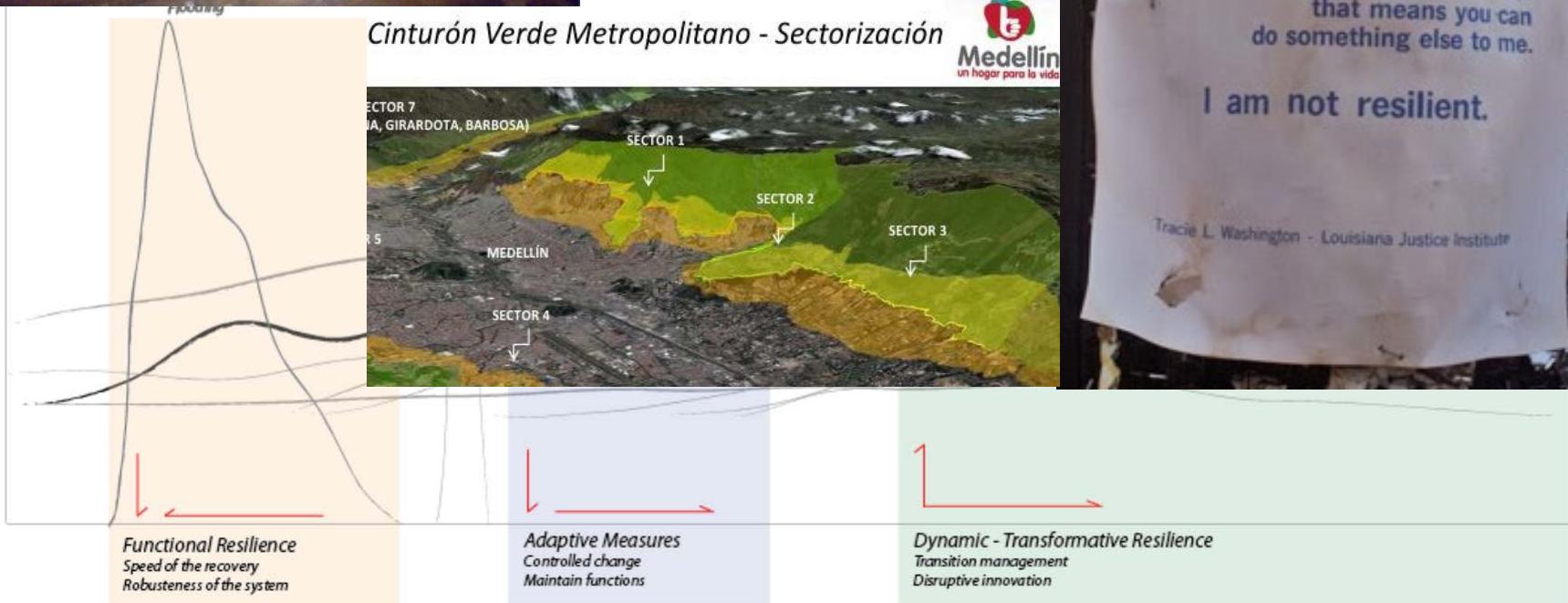
The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

Cross-section along the proposed new network of hybrid floodplains and artificial streams for retention, infiltration, purification, storage, and slow discharge of rainwater.



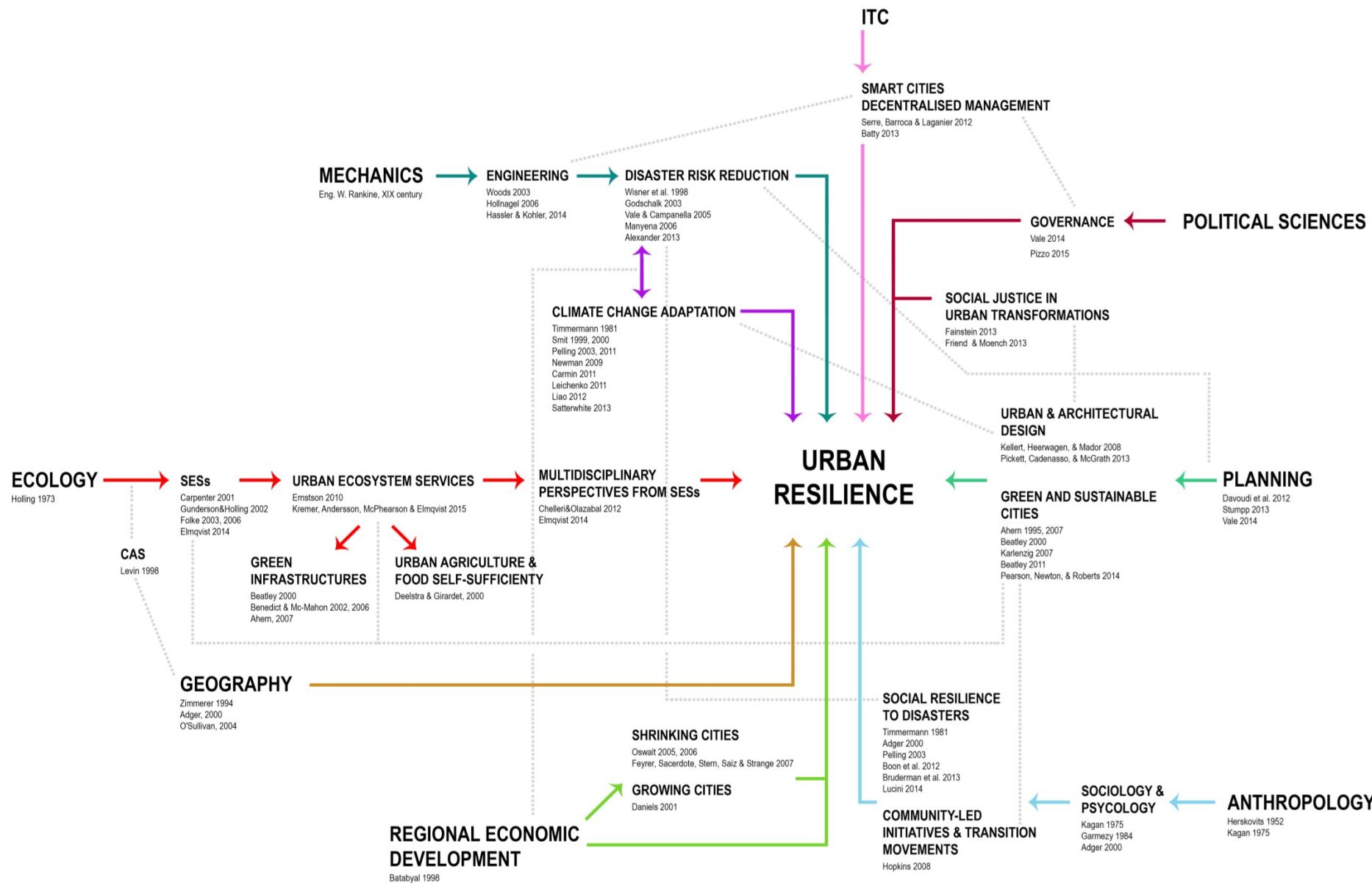
The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

One Word – Multiple Approaches



The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

One Principle implementation – Different Results



The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

One Principle implementation – Different Results

RESILIENCE PRINCIPLES

Diversity

Modularity

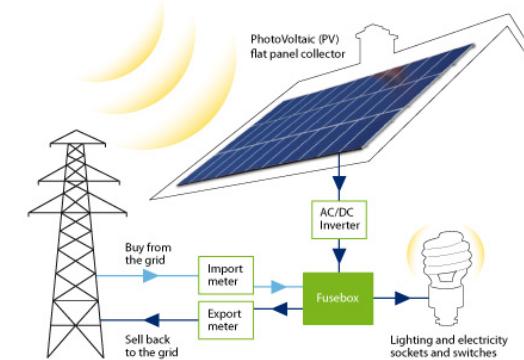
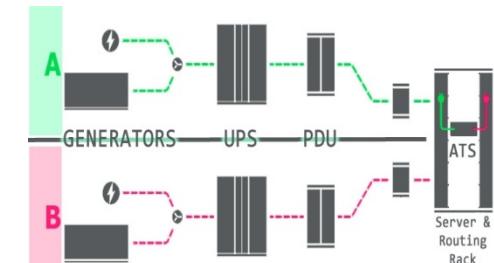
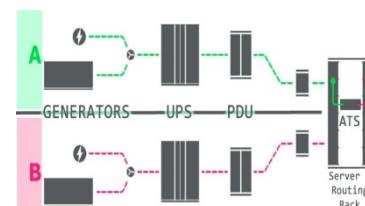
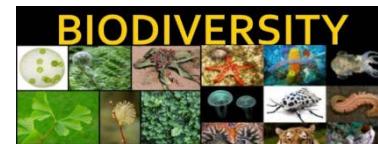
Self-sufficiency

Redundancy

Connectedness

Responsiveness

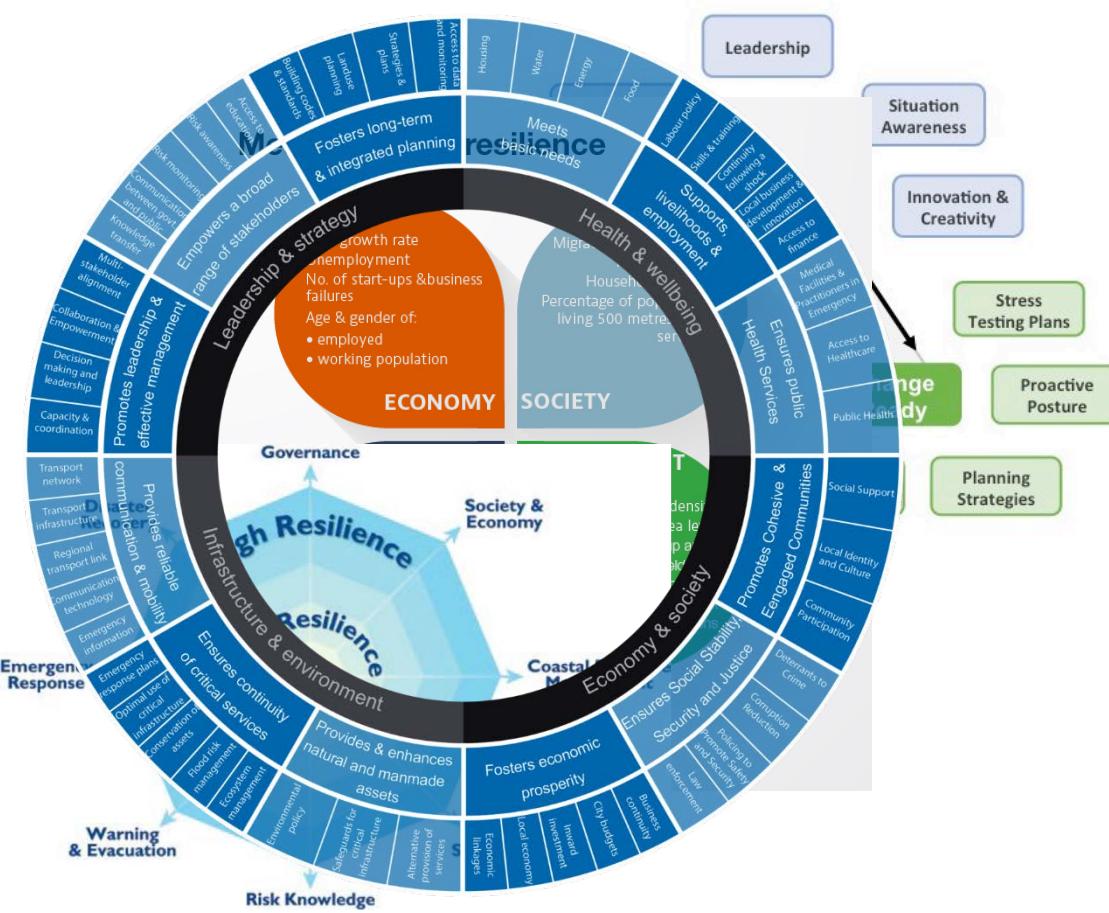
Flexible Institutions



The IMPERATIVE of resilience and the OVERSIMPLIFICATION : Resilience TRAPS

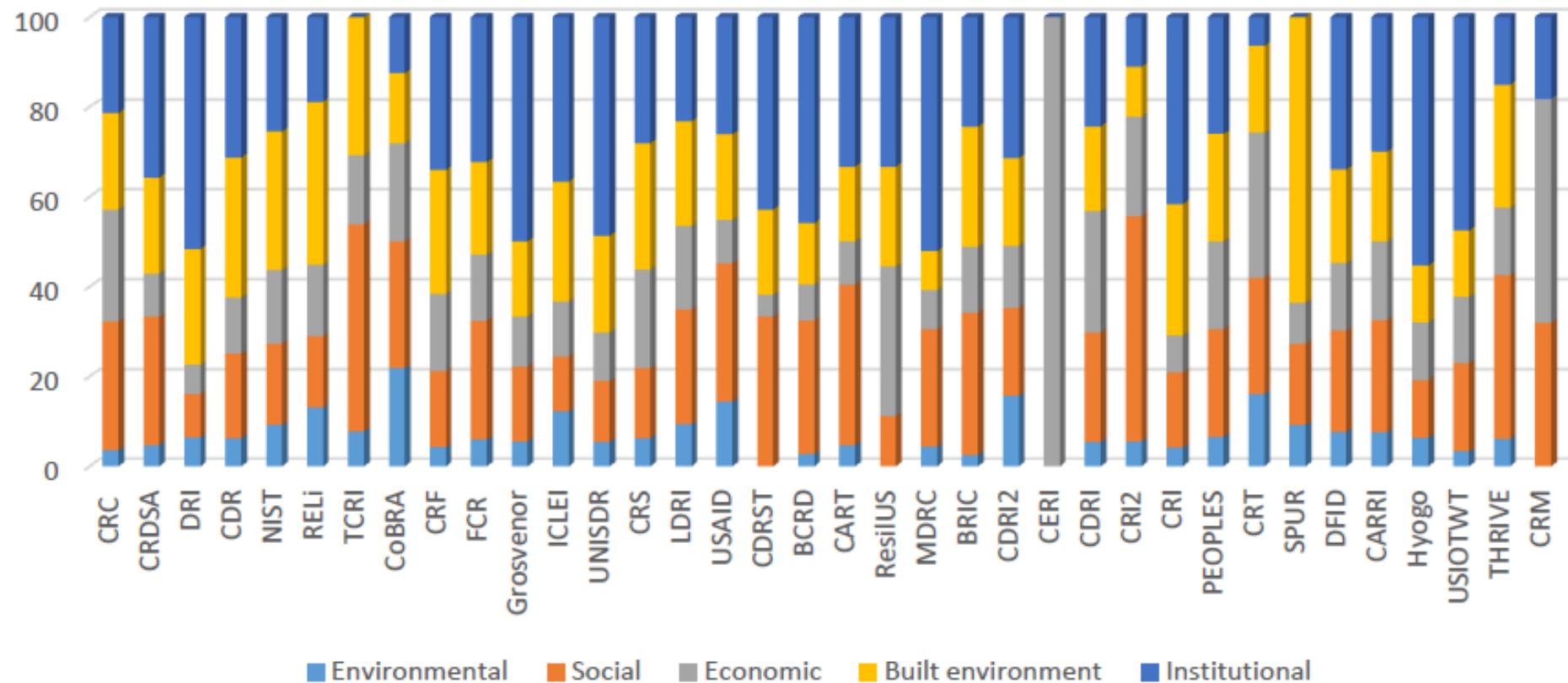
Resilience = 3 x

Resilience Indicators



The IMPERATIVE of resilience: How to do it ?

Premises: It is not about money!
it's mostly about institutional and societal capacities



The IMPERATIVE of resilience: How to do it ?

It is not sustainability !

It could imply trade-offs
across temporal and spatial scales

3,484

Views

66

CrossRef citations
to date

8

Altmetric

Information

The politics of resilient cities: whose resilience and whose city?

Lawrence J. Vale 

Pages 191-201 | Published online: 07 Dec 2013

 Download citation  <https://doi.org/10.1080/09613218.2014.850602>



1,938

Views

19

CrossRef citations
to date

33

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Original Articles

Urban resilience for whom, what, when, where, and why?

Sara Meerow  & Joshua P. Newell

Received 03 Dec 2015, Accepted 23 Jun 2016, Published online: 12 Jul 2016

 Download citation  <https://doi.org/10.1080/02723638.2016.1206395>

nature > correspondence > article

nature
International journal of science

Correspondence | Published: 14 June 2017

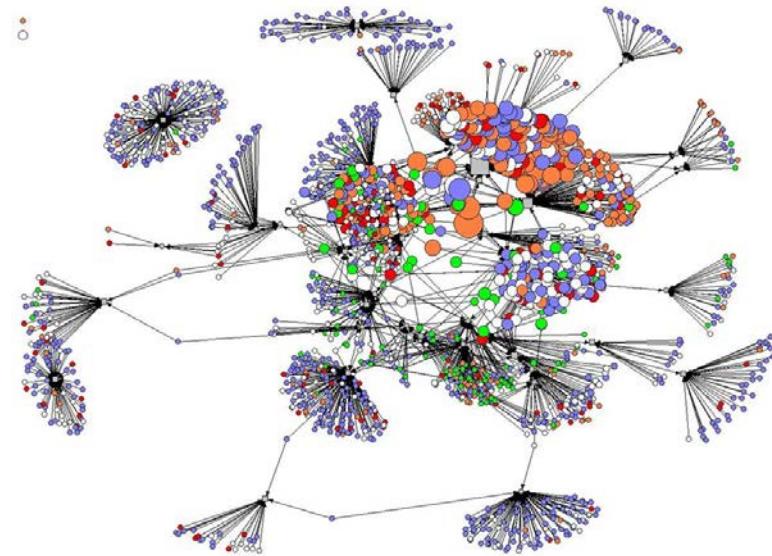
Development: Sustainability and resilience differ

Thomas Elmqvist 

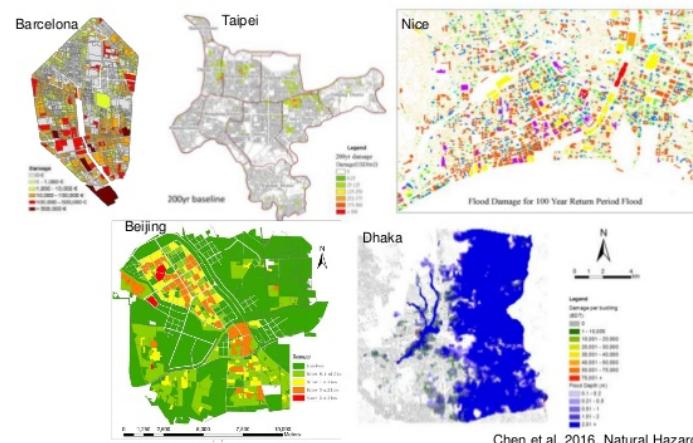
Nature 546, 352 (15 June 2017) | Download Citation 

The IMPERATIVE of resilience: How to do it ?

Work in and within Networks



Produce and work based on data and scenario modelling and co-design



THANKS

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