

(Flood) resilience: an operative concept?

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Menu

- Resilience: an unavoidable buzz word
- Resilience: appropriate use / misuse
- Resilience: perspectives

Main source of inspiration:



www.floodresilience.eu

Resilience: an unavoidable buzz word

UNISDR Making Cities Resilient: My City is Getting Ready www.unisdr.org

TRG **TU Delft**
FLOODRESILIENCEGROUP www.floodresiliencegroup.org

Urban flood resilience research and application <http://urbanflood.org/>

HOW TO: Build a flood-resilient city www.irinnews.org

Dublin City Council CAPITAL PLANS FOR FLOOD RESILIENCE

Resilient Cities www.resilientcity.org

Les investissements nécessaires contribueraient de manière substantielle à la compétitivité du secteur européen de la construction, qui a également un rôle important à jouer dans l'adaptation au changement climatique et la **résilience** aux catastrophes naturelles et causées par l'homme en encourageant les investissements à long terme visant à se prémunir contre les catastrophes.

Stratégie pour une compétitivité durable du secteur de la construction et de ses entreprises COM(2012) 433 final July 31

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Resilience: appropriate use / misuse?

Clarity of definition of resilience

Clear ↑

Resilient material

Nature resilience

Complex systems (e.g. plane)

Person resilience

Attempts to mimic resilient behaviours for man-made systems

Unclear ↓

Buildings, urban areas

Flood protection products

Technology +

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Resilience versus vulnerability reduction

Priority : limit damages, i.e. reduce vulnerability

Vulnerability reduction strategy to be adapted to hazard level

Before thinking of resilience, can we ensure all has been made to reduce vulnerability?

Would resilience be a mere consequence of vulnerability reduction (understood as coordinated technical/organisational actions)?

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A flood resilient building?

Before
During
After

Ground level
Ground level

Source: CSTB

Berthing dolphins (Ducs d'Albe) are not represented

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Some examples of amphibious buildings

 <p>Concrete floats</p>	 <p>Fiber reinforced concrete floats</p>
<p>Dura Vermeer BV</p>	<p>Private (source: CSTB)</p>
 <p>Plastic floats</p>	 <p>Steel floats</p>
<p>Batiflo (source: CSTB)</p>	<p>Private (source: CSTB)</p>

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Resilience: possible positive/negative effects

>0	<0
<p>Create a movement to reconsider traditional approaches</p> <p>Emphasise important steps to improve flood management systems</p> <p>Smart word (we live in a marketing driven world: business, research, daily life)</p>	<p>Make the exposed population believe:</p> <ul style="list-style-type: none"> • THE definitive solution is available, • flood will not create damages any more <p>Use resilience as a smart/magic word (refer to the success of "sustainable")</p> <p>Make exposed population disappointed (things are finally as usual): no more trust</p>

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Le Hubert van den Broek

Resilience perspectives It is time to conclude!

Is Resilience an operative concept (for urban flood)?

Not really (yet) but we have to deal with it.

Don't abuse the word resilience.

Use more appropriate concepts even if "old fashioned": flood victims look for solutions, not words.

Flood event/rain forecasting/nearcasting is a priority for any (resilient) flood management system.

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Thank you for your attention

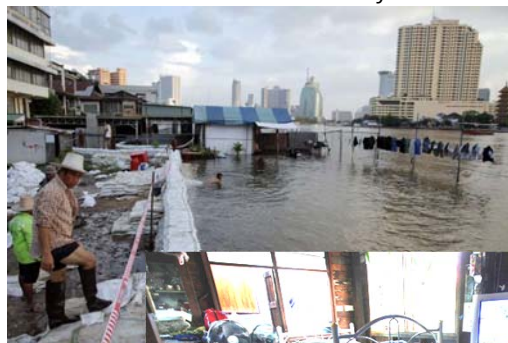
Bangkok: the « dream »



Wetropolis-Bangkok (S+PBA Architectes)

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... and the reality



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