



Utrecht University

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**Mapping terra incognita
Envisaging and discussing transformative change in Flood
Risk Management**

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Flood resilience

Three key governance lessons for transformative change

Pathways towards transformative change

Conclusion

Outline



Highly diverse literature

Flood Risk Governance literature seems to converge towards studying 'capacities' (Wardekker et al. 2020; Hegger et al. 2016).

- Resist
- Absorb / recover
- Adapt / transform
- Plan for the future

Emphasis:

- Physical and social are intertwined
- Bounce-back AND bounce-forward

Flood resilience



- **1 Context sensitive diversification of FRM strategies**
- 2 Alignment of the strategies
- **3 Involvement of actors from state/market/civil society**
- 4 Rules that balance legal certainty and flexibility
- 5 Diversification of the resource base
- **6 Normative debate on what constitutes 'good' flood risk governance to be held in the open**



Article

Governance Strategies for Improving Flood Resilience in the Face of Climate Change

Peter P. J. Driessen ¹, Dries L. T. Hegger ^{1,*}, Zbigniew W. Kundzewicz ^{2,3}, Helena F. M. W. van Rijswick ⁴, Ann Crabbé ⁵, Corinne Larrue ⁶, Piotr Matczak ⁷, Maria Pettersson ⁸, Sally Priest ⁹, Cathy Suykens ^{4,10}, Gerrit Thomas Raadgever ¹¹ and Mark Wiering ¹²

Six key lessons

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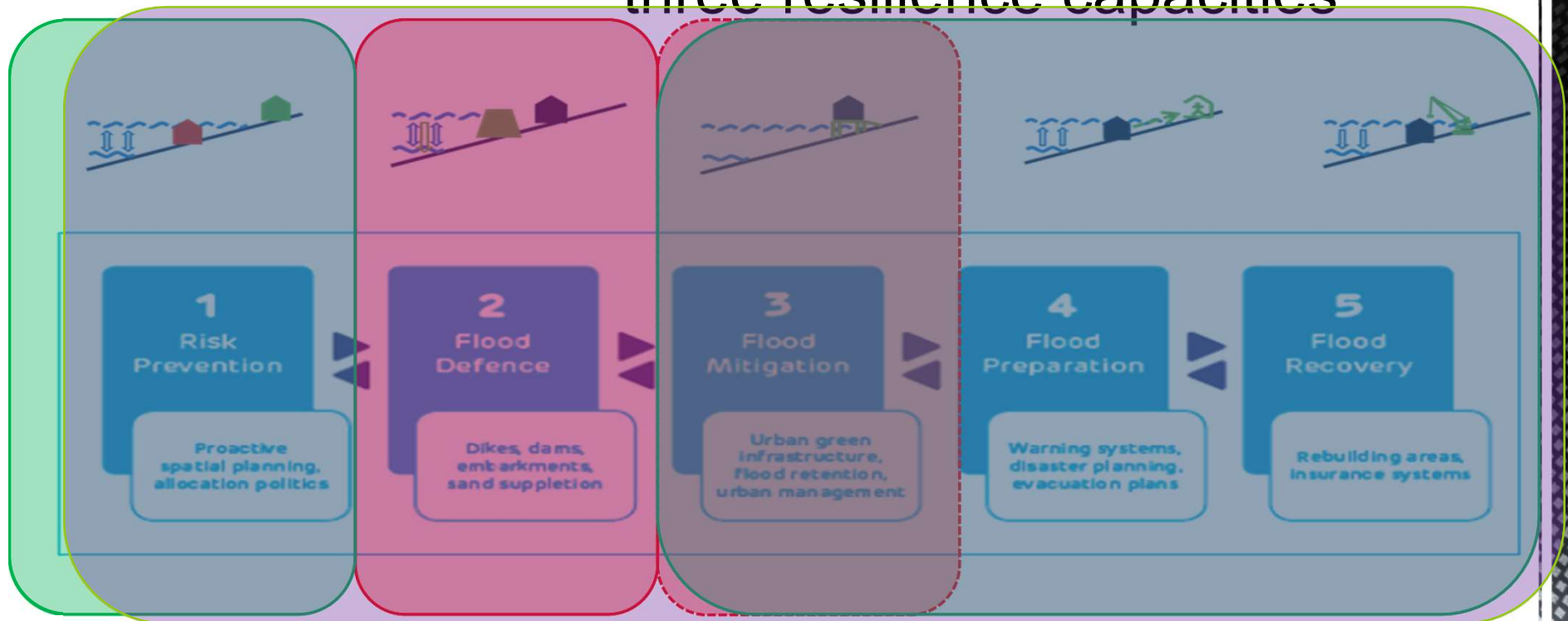
OVERVIEW

WIREs WATER WILEY

Improving flood resilience through governance strategies: Gauging the state of the art

Piotr Matczak ¹ | Dries Hegger ²

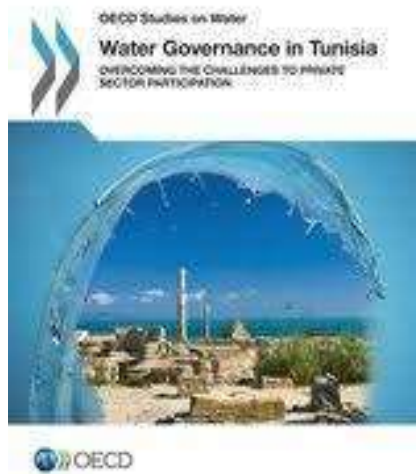
Lesson 1 – Context-sensitive diversification – three resilience capacities



Capacity to absorb/recover

Capacity to resist

Capacity to adapt and transform



Lesson 2 – Open and inclusive normative debates

- 'solidarity' vs. 'beneficiary pays'
 - => need to discuss this in the open through inclusive debate
- national contexts: no 'one size fit all'



Lesson 3 – involvement of public and private actors, including residents

- Booming topic
- Salient issues:
 - Formal stakeholder participation processes
 - Risk perception
 - Risk communication
 - Action taking by citizens





**Proactive spatial planning –
“Keeping people away from
water” => moving people away
from water**




**Flood damage mitigation – “Living
with water” => living on the water**



**Flood preparation, recovery, and
crisis management – “Preparing
for water”**

Pathways to
transformative
change?



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- Discussing and envisaging 'terra incognita' also in the political arena
 - Treating citizens and other stakeholders as adults

Ways forward?

- What is resilient?
- What is fair?





Article

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OVERVIEW



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Gauging the state of the art**

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Thanks!
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