

Twynstra Gudde



Navigating without a goal

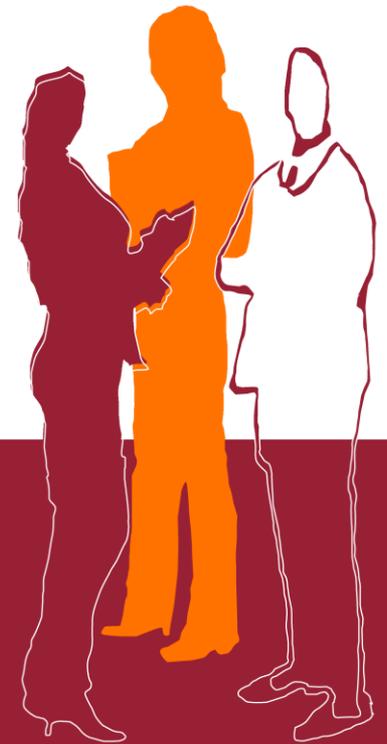
Governance challenges for local governments

Case: climate adaptation in the Province of Noord-Brabant, NL

dr. A.H. te Linde

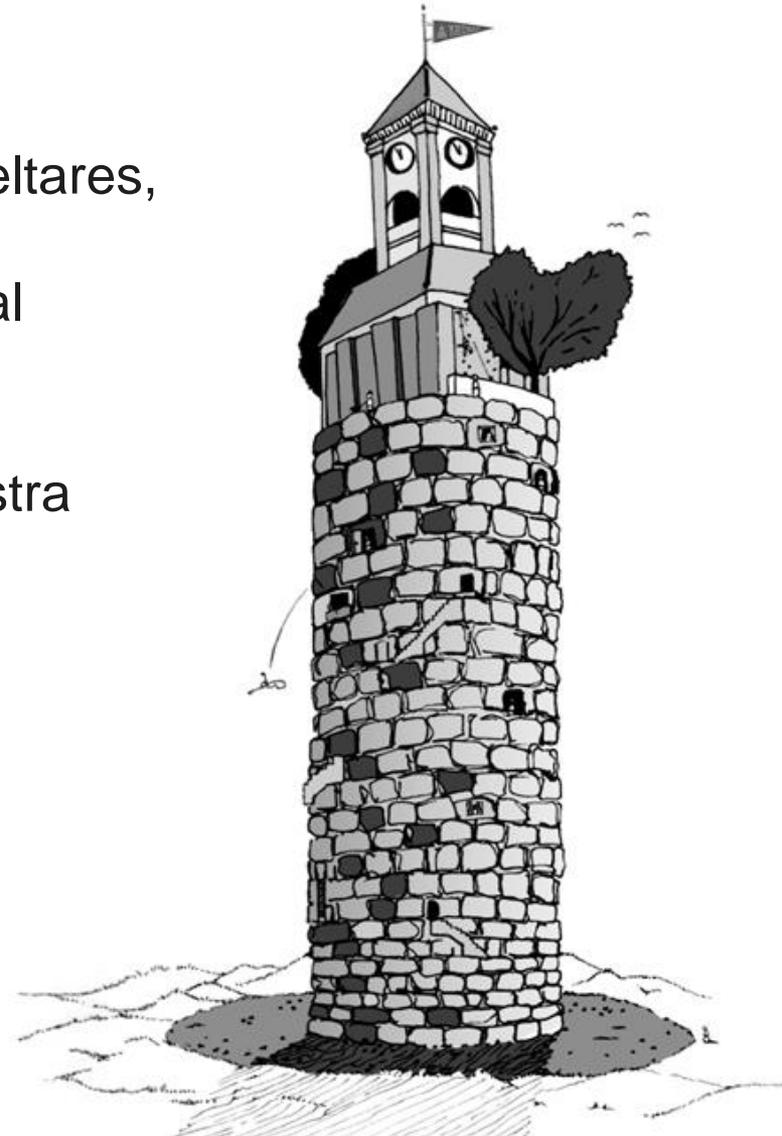
Mechelen

4 October 2017



Resume Aline te Linde

- MSc Earth Sciences
- 10 years at (applied) research institute Deltares, Delft NL
- Part-time PhD at Intitute for Environmental Studies, VU University Amsterdam, NL
- 5 years management consultant at Twynstra Gudde (Water)
 - Strategy development
 - Stakeholder engagement
 - Change management
 - Programme management



Strategic vision 2050 regional water system Zeeland



Mayor 1

“I think it is fair when everybody has dry feet”

Mayor 2

“Some low-lying areas are very expensive to keep dry. I have to spent a huge amount of money for only a few households.

I think it is fair when we spend more or less the same amount of money for each resident.

It is tax money and they all pay the same amount.”

Urban flooding: roles and responsibilities

Water Authority

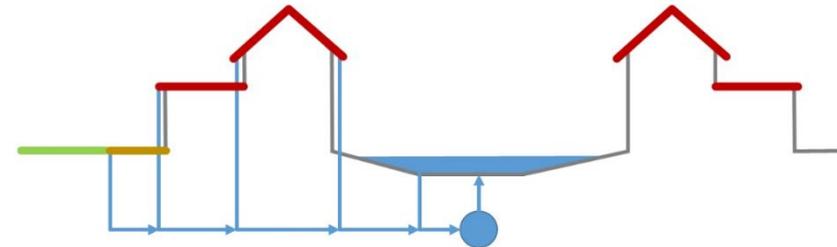
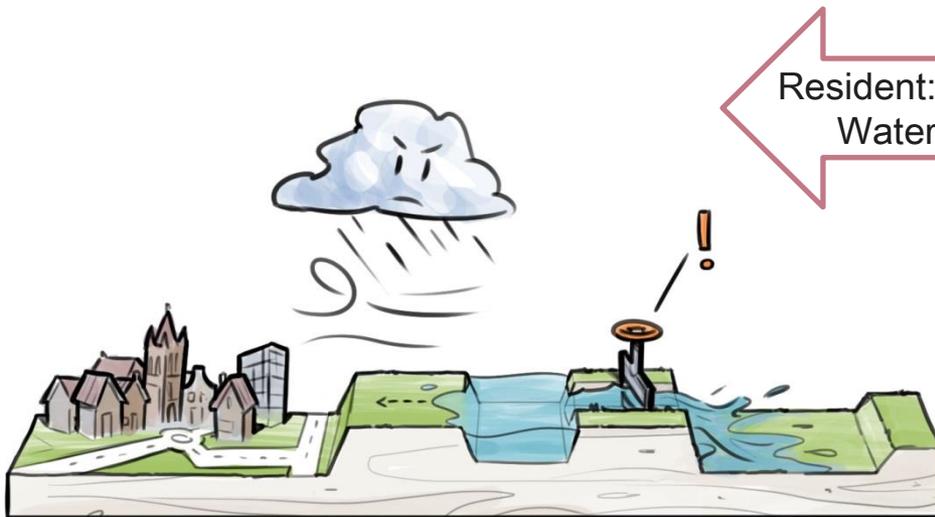
Regional watersystem

Risk-based norms for flooding
(e.g. 1/10 grassland, 1/100 build-up area)

Municipality

Sewer system, urban drainage

Normative rainfall events for design
(e.g. 60 mm/hour)



ROBUUST BIJ EXTREMEN

Cooperate!



SAMENWERKEN VOOR EEN
BEHEERSBAAR & ROBUUST SYSTEEM

Context project Province Noord-Brabant



Municipalities in North Brabant
(province in the Netherlands)



Flooding from extreme rainfall June 2016: damage 285 Million Euros



bron: Kliknieuws De Maas Driehoek

'Invitation South Netherlands': Ambitious climate adaptation plan/ 50 Million Euros / year extra



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Aim of our project

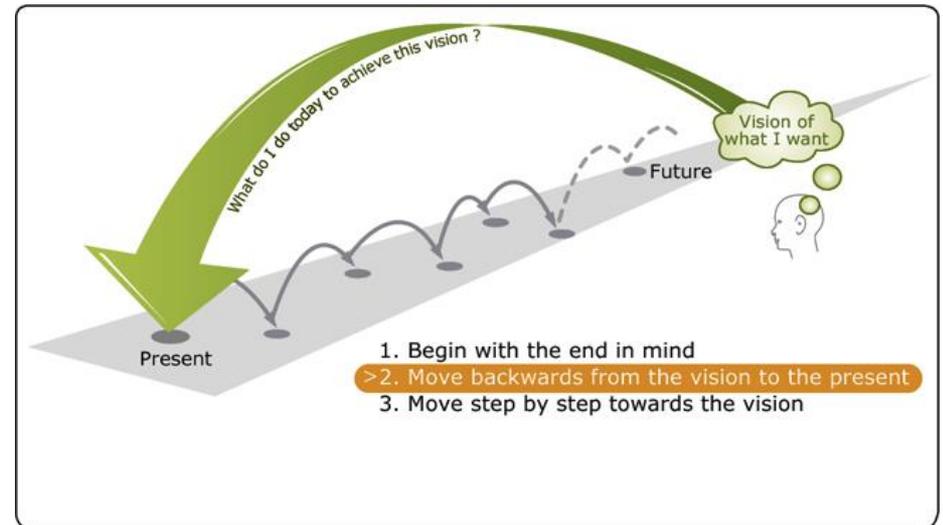


Make sure we keep our promise:

- Write a strategy and an implementation agenda
- Build our team that is responsible for implementation

Approach:

1. Assess current situation
2. Set a goal
3. Back-casting: action plan
4. Assign tasks to team members



However...

- Current situation: how big is our problem?

- Do we have 'heat stress' casualties?
- What is the average damage / year?
- How much of the damage is insured?

Not clear

- What is our goal?

In 2020: we **act** climate proof and water resilient
In 2050: we **are** climate proof and water resilient

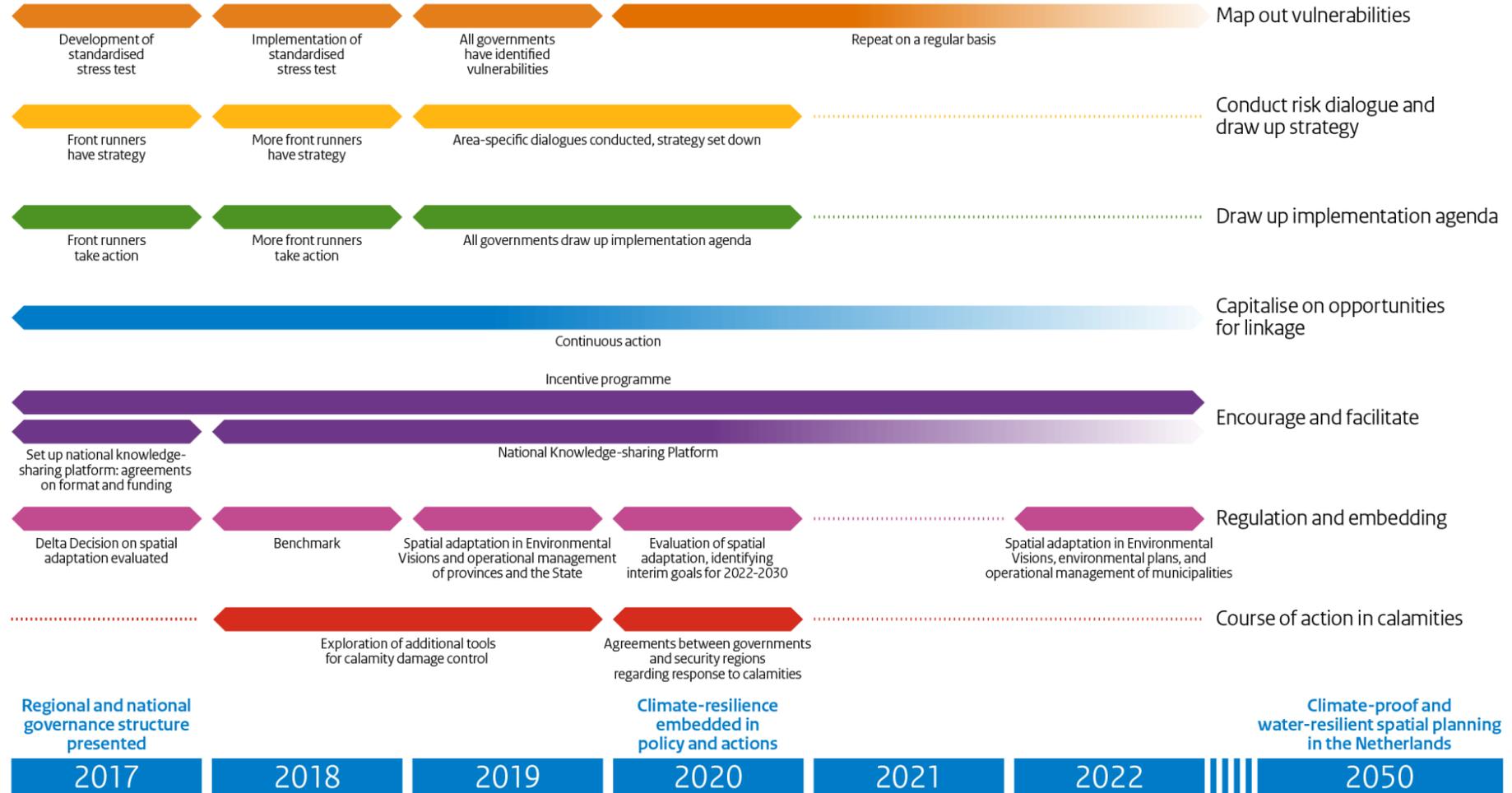
Not clear

- No flooding?
- 1 / 100 in 2050?
- No damage?
- 90 / 120 / 150 mm/hr?
- 100% separated rainfall / waste water system?

- What are the costs and effects of measures?

Not clear

— Interim goals of the Delta Plan on Spatial Adaptation —



<https://english.deltacommissaris.nl/delta-programme/delta-programme-2018>

Multiple actors, uncertain problem, dynamic context: process approach

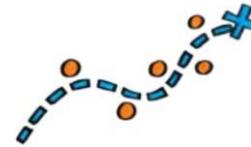
1. Initiate: I can not do this by myself



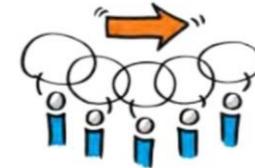
2. Bring team and stakeholders together to define the task ahead



3. Process design: draw a route map



4. Organize meetings and design ateliers



5. Realize: start with actions



6. Follow-up: keep the swarm going



Result so far: activities planned and a working team

ambition

Climate proof and water resilient
in 2050

goals



activities

Stresstest provincial level	'Omgevingsvisie'	Steering group	Stimulate pilots	Online platform for knowledge sharing
Monitoring	Climate proofing test for new developments	Use existing networks	...	Dutch Design Week
...
		

Conclusion

- No clear goal, is not an excuse to do nothing.
- There are many 'no-regret' measures, which improve spatial quality
- You can navigate step by step, learning by doing
- Enjoy the ride!

Still, in my opinion:

We have to determine some sort of 'norm', or directional statement, describing what is climate proof and water resilient, and what is not

To aid (political) decision making and to be able to compare regions and countries

At national or EU level?

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