



PBL Netherlands Environmental Assessment Agency

Monitoring & evaluation system for climate change adaptation

Jelle van Minnen

N. Pieterse, W. Ligtvoet (PBL)
C. Betgen, J. Klostermann, R. Swart (WUR)
M. Harley (Climate Resilience, UK)
P. Bloemen (Staff Delta Commission)

Delta in Times, 24 Sept. 2014

1

PBL Netherlands Environmental Assessment Agency

Climate change adaptation: multi- multi- multi-



**Multi-scale
Multi-sectoral
Multi-institutional**

CLIMATE CAMP BE PREPARED

Jelle van Minnen, Delta in Times, 24 September 2014

Adaptation challenges

- Clear policy interest
- Planning under conditions of deep uncertainty
- Insufficient information about
 - *progress of policies & measures*
 - *Effectiveness of policies & measures*
- Where, who & when to be involved?

**Monitoring
&
Evaluation**

Jelle van Minnen, Delta in Times, 24 September 2014

Steps towards NL M&E system

1. General design of the system
2. Apply for some sectors at national scale
3. Broader sectors
4. Broaden institutional setting
5. Output & outcome indicators



Step I Design: dimensions Dutch M&E puzzle

- “Doing together”/Multi-governance & sectors
- Flexible (“uncertainties”)
- Two dimensions: (i) progress; (ii) Learning
- Connecting short-term measures (“things right”) with long-term strategies (“right things”)
- Process, output & outcome



5

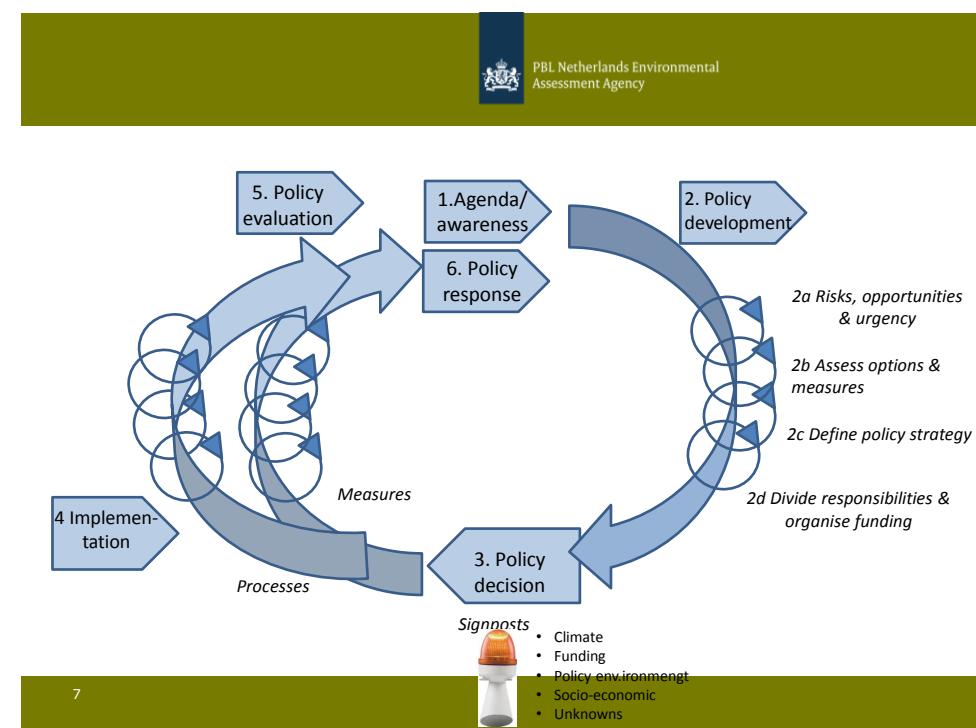
Jelle van Minnen, Delta in Times, 24 September 2014

Design: 13 sectors

- T1 Water safety
- T2 Fresh water availability
- T3 Urban planning
- T4 Water quality
- T5 Energy
- T6 Transport & infrastructure
- T7 ICT & networks
- T8 Health
- T9 Agriculture
- T10 Fisheries
- T11 Nature
- T12 International trade
- T13 International policies

6

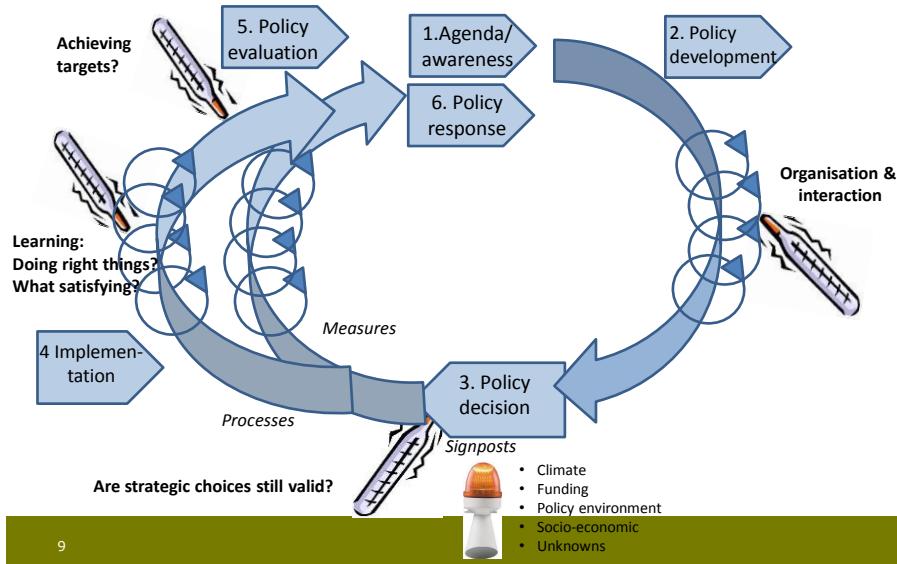
Jelle van Minnen, Delta in Times, 24 September 2014



Signposts

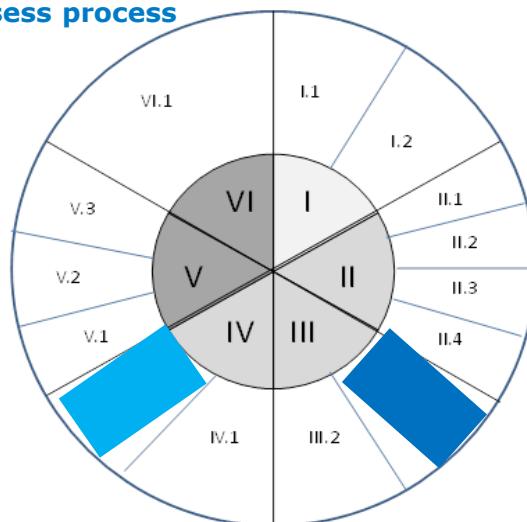
- Not indicators
- Information/basic assumptions that should be tracked to determine the validity of choices made
=> Needed to bridge short-term decisions and long-term strategy/vision
- E.g.
 - Environmental conditions (climate)
 - New knowledge (e.g. on measures)
 - Policy environment
 - Financial basis
 - Unknowns
- Signpost triggers are also needed, i.e. values beyond which additional actions should be implemented
- Based on Haasnoot et al, 2013





Monitoring wheel to assess process

- 14 fields of attention (e.g. risk knowledge, defining options)
- 53 process indicators
- 3 classes
- Criteria/triggers needed
 - Individual indicators
 - aggregation



	Domein	Criteria	T1 Water safety	T2 Fresh water availability	T3 Spatial planning	T4 Wat quality	T5 Energy	T6 Transport & Infra.	T7 ICT & Networks	T8 Health	T9 Agri & Horticulture	T10 Fishery	T11 Nature	T12 International trade	T13 Int. Cooperation	EU scoreboard
	SIGN posts	Climate Financial Policy Societal New knowledge Unknown unknowns														
	Policy context	International	-	█							█	█				
		national	-													A1, B1,B2, B3
	Inclusion in policy documents	national (yes/partly/no)		█												A2
		Provinces (yes/partly/no)														A2
		Municipalities (yes/partly/no)														A2
		Waterboards														A2

11

Jelle van Minnen, Delta in Times, 24 September 2014

'1a	Implementation	Adaptive management: Flexibility & incremental	█								█	█				??
'1b	Mainstreaming	Included in sectoral policy plans and actions plans	█	█												8a, 9a, 10a
		Included in spatial plans	█													9c
		Cross-sectoral dialogue														??
'1.c	Financing	Available for coordination														7a
		Long-term availability (implementation)	█	█												7b
		Public-private cooperation														7d
'1d	Communication	Clear communication plan (how, with whom, etc.)														11a, 11l
		Stakeholder involvement (incl. international organisation) (yes/partly/no)	█													2b, 10e
'1e	Pilots	Pilots	█								█	█				n.i.
'2	Instruments	National legislation (yes/partly/no)	█	█												8b, 10a
		Regional/local legislation (yes/partly/no)	█	█												10b
		Sectoral agreements (yes/partly/no)	█	█												8a
		Guidelines for implementation (yes/partly/no)		█	█											8a
.1	M&E system	Guidelines for monitoring (yes/partly/no)	█	█												11b?, 12b

12

Jelle van Minnen, Delta in Times, 24 September 2014

Follow-up

- Criteria for classification & aggregation (=monitoring wheel)
- Testing & discussion
 - > Sectoral
 - > Cross-sectoral (for NAS)
- Literature research on evaluating strategies
- Develop output & outcome indicators
- Documentation

13

Jelle van Minnen, Delta in Times, 24 September 2014

Summary

- M&E requires multiple dimensions
- NL step-wise approach
- Some of challenges tackled
 - Bridging long & short term
 - Both for progress & sectoral learning
- Still way to go

14

Jelle van Minnen, Delta in Times, 24 September 2014

Thank you

Comments ??

