

What we need is a good drought !

Perspectives from NW Europe

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Local governance preparedness to climate changes impacts on drought in North-West Europe



BENEFIT OF GOVERNANCE
IN DROUGHT ADAPTATION



2013-2015

1. Why a project on drought in Europe?
2. NWE & DROP case studies
3. Objectives of DROP
4. Governance Assessment Tool
5. Main outputs

Why a project on drought in NWE?

Historically, Europe impacted by severe droughts (E. Garnier, 2016)

**1921 : -40% rainfalls from England to Italy
⇒ Famine in eastern Europe**



UK, summer 1976

1976 : severe for NW Europe, last drought in memory for NWE?



France, summer 1976

Why a project on drought in NWE?

Vulnerability today (EC, 2007; EEA, 2012)

- 17% of the EU population
- 11% of the EU territory
- costs over 30 years = 100 billion euros

Vulnerability tomorrow ?

- drought periods projected to increase
- Also for wet regions of Europe

⇒adaptation needed

⇒early adaptation provides opportunities

Governance

= interactions of public / private actors aimed at solving societal problems or creating societal opportunities in an institutional context with a normative foundation

= structural context enables/restricts adaptation

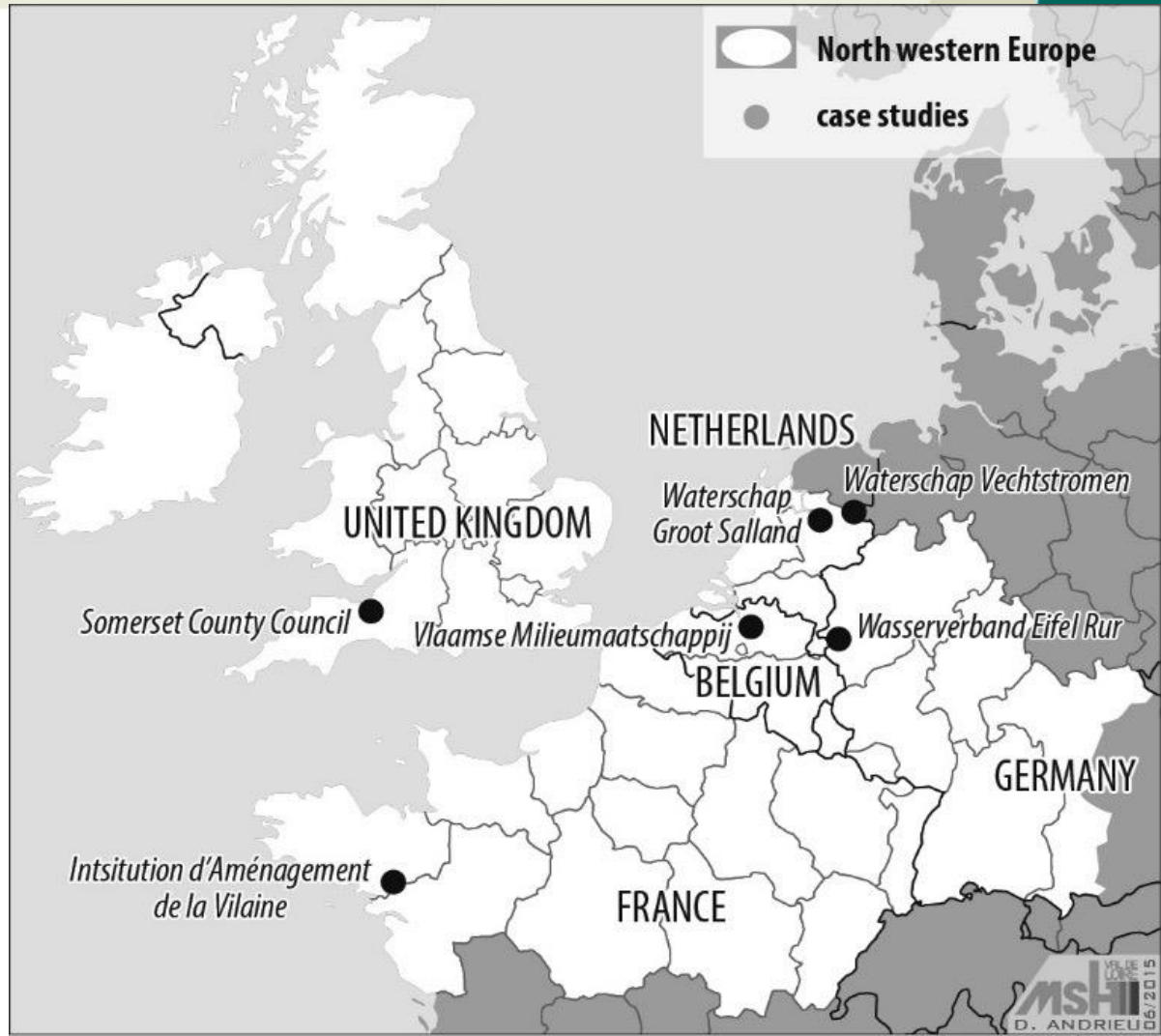
North West Europe DROP case studies



INTERREG IVB



11 partners:
6 water authorities
5 knowledge institutes
6 case studies



North West Europe DROP case studies



INTERREG IVB



Practice partners **IN** the project since the answer to the call to frame the research *(cf. Kevin Noone comment yesterday and Karin Lochte comment today)*

Co-construction of knowledge, creation of trust *(cf. Peter Braesicke yesterday)*

11 partners:
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Governance Assessment Tool (GAT) adapted to drought and water scarcity

Bressers et al., 2013

Governance dimension	Quality criteria of the governance regime			
	Extent	Coherence	Flexibility	Intensity
Levels and scales	How many levels involved?	Do these levels work together?	Is it possible to move up and down levels given the issue at stake?	Is there a strong impact to change behaviour?
Actors and networks	Are all relevant stakeholders involved?	What is the strength of interactions between stakeholders?	Is it practised that the lead shifts from one actor to another?	Is there a strong impact from an actor or actor coalition?
Problem perspectives / goal ambitions	Are the various problem perspectives taken care off?	Do the various goals support each other, or in competition?	Are there opportunities to re-assess goals?	How different are the goal ambitions from the status quo?
Strategies and instruments	What types of instruments are included?	Is the resulting incentive system based on synergy?	Are there opportunities to combine or make use of different types of instruments?	What is the implied behavioural deviation from current practice?
Responsibilities and resources	Are responsibilities clearly assigned and facilitated with resources?	Do the assigned responsibilities create competence struggles or cooperation?	What is the flexibility within the assigned responsibility?	Is the amount of applied resources sufficient?

Governance Assessment Tool (GAT) adapted to drought and water scarcity

Bressers et al., 2013

Governance dimension	Quality criteria of the governance regime			
	Extent	Coherence	Flexibility	Intensity
Levels and scales	Analysis matrix <i>5 dimensions</i> <i>4 criteria</i> <i>= 20 cells</i>			
Actors and networks				
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Case study analysis

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- A group of people are seated around a long conference table in a meeting room. A large screen is visible in the background. The text is overlaid on this image.
- ⇒ **2 visits/case at 10 months of interval**
 - ⇒ **Interviews local stakeholders with practice partners**
 - ⇒ **GAT implementation**
 - ⇒ **Governance Team =**
 - **Interdisciplinary scientists**
 - **Implication to several case studies**
 - ⇒ **Dissemination of results to stakeholders**

Main outputs (6 case studies)

Problem perceptions

	Extent	Coherence	Flexibility	Intensity
Salland (NL)				
Flanders (BE)				
Twente (NL)				
Somerset (UK)				
Vilaine (FR)				
Eifel Rur (GE)				
<i>restrictive neutral supportive</i>				



French case study, February 2014

UK case study, December 2013



Main outputs

- ⇒ **Need to disseminate to stakeholders**
 - ⇒ **Interdisciplinarity environmental/social sc**
- ⇒ **Need to assess drought effects (hazard) and impacts (vulnerability)**
 - ⇒ **Data**
 - ⇒ **Models at several scales**
- ⇒ **Need of A GOOD DROUGHT**
 - ⇒ **accelerate awareness process** (cf. historical development drought policy)!

Governance for Drought Resilience in Europe

Springer Open Access Science



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www.dropproject.eu



<http://transitionculture.org>

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Diversity of **local responses** to **climate change** impacts on **water**

5-7 2018
February

Tours (France)

Abstracts submission
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