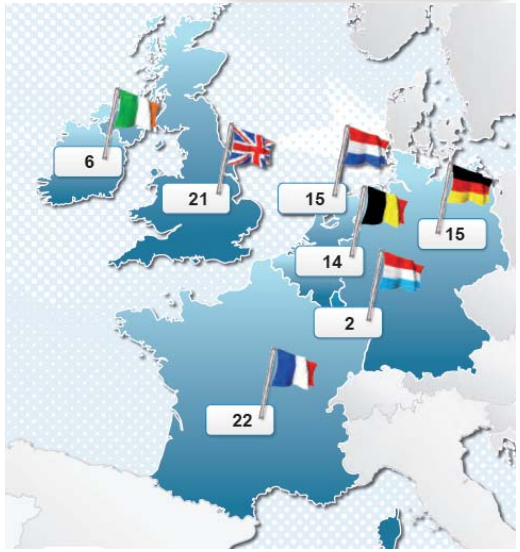
Presentation of theme II:

Adaptation requires more flexibility



Piet van Erp
– Waterschap Regge en Dinkel, The Netherlands

Adaptation requires …

II	… more flexibility

IIb	Develop better tools to support decisions under uncertain conditions

‘Scientists search for truth, politicians search for what is feasible’

Jan Terlouw, former Dutch Minister

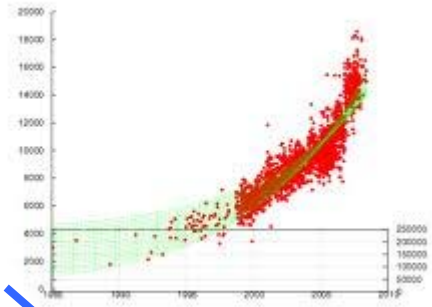
II Adaptations requires more flexibility

Our experiences - background / deficits

Climate change

Complex

Modelling



Knowledge

Future unknown

Uncertain conditions

No political decisions taken

IIb Develop better tools to support decisions under uncertain conditions

Our experiences – good practice example

Visualisation tools illustrate the impact of different scenarios and can be a helpful tool in decision making

SIC Adapt experiences:

a. Dillemma game – WAVE project

b. DSS tool HOWABO – AMICE project

c. Adaptation Compass - Future Cities project

IIb Develop better tools to support decisions under uncertain conditions

Future development

Past	Present	Future
Simple problem	Complex problem	Complex problem
Science	Science	Science
Decision	No decision	Recommendation by expert judgement and political decision

→ *new supporting tools*

IIb Develop better tools to support decisions under uncertain conditions

Recommendation

Policy makers should develop and use new tools to formulate recommendations that allow politicians to take decisions despite uncertainties that come with climate change.

Policy recommendations on adaptation to climate change

Adaptation

Mathieu Fichter
Team Leader 'Sustainable Growth'
European Commission
DG Regio D2

Adaptation requires more flexibility… (I)

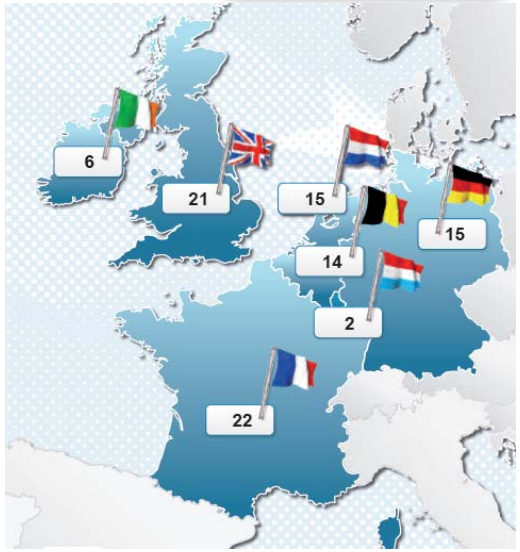
- No 'one-size-fits all' approach: adaptation is 'place-specific' = 'geographic flexibility'
- But certain common features: develop partnerships / clusters / exchange of experience & practices
- Invest in & develop modelling tools/systems to get predictions and frame uncertainties
- Invest in skills & capacities to enable actors working with & in uncertainty (across sectors: construction, spatial planning, health…)

Adaptation requires more flexibility... (II)

- Key importance of governance to build & maintain flexible framework:
  - Innovation in governance systems for adaptation
  - Social innovation (in engaging with all stakeholders) & ownership building of public decisions through transparency
  - Pilots & demonstrations
  - Monitoring, reporting & evaluation: learn from new approaches
  - Develop a 'life-cycle approach' & maintain all actors involved
  - "Failure friendly" environment

Adaptation requires more flexibility… (III)

- EC working on 'climate-proofing' methodologies & guidance
- Design of 2014-2020 strategies & funding programmes (such as with Cohesion Policy)
  - 'Smart' drafting of priorities & ways ahead to enable flexibility
  - Envisage support to innovative approaches in terms of social innovation (involvment of general public) & governance in adaptation to CC
  - Demonstration projects & pilots = key focus on the Cohesion Policy priorities



Comments on theme II:

Adaptation requires more flexibility

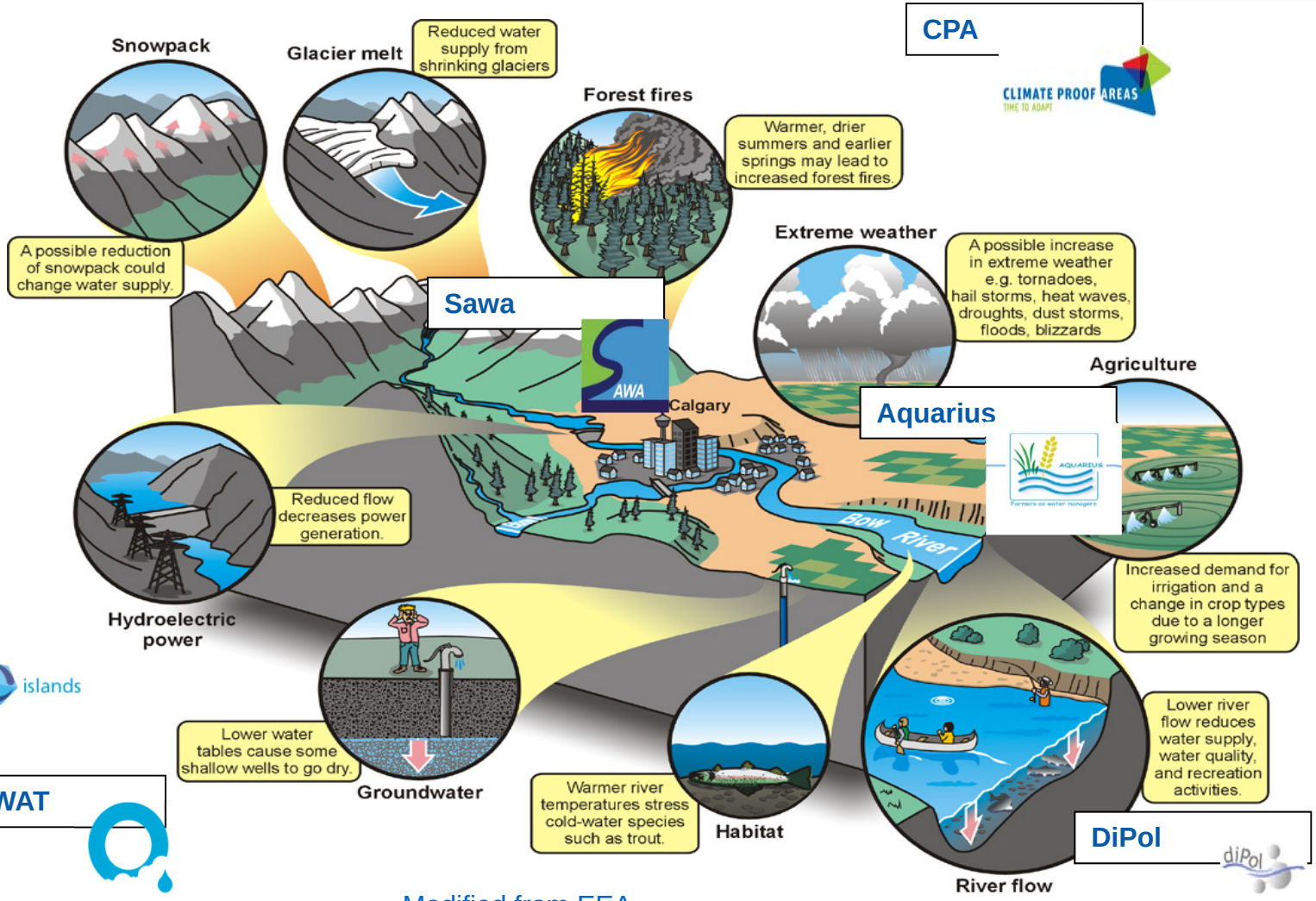
by Rolf Johnsen
– Senior environmental consultant,
Central Denmark Region, Denmark

Comments on theme IIb
By Rolf Johnsen, Central Denmark Region

Your comments, e.g.

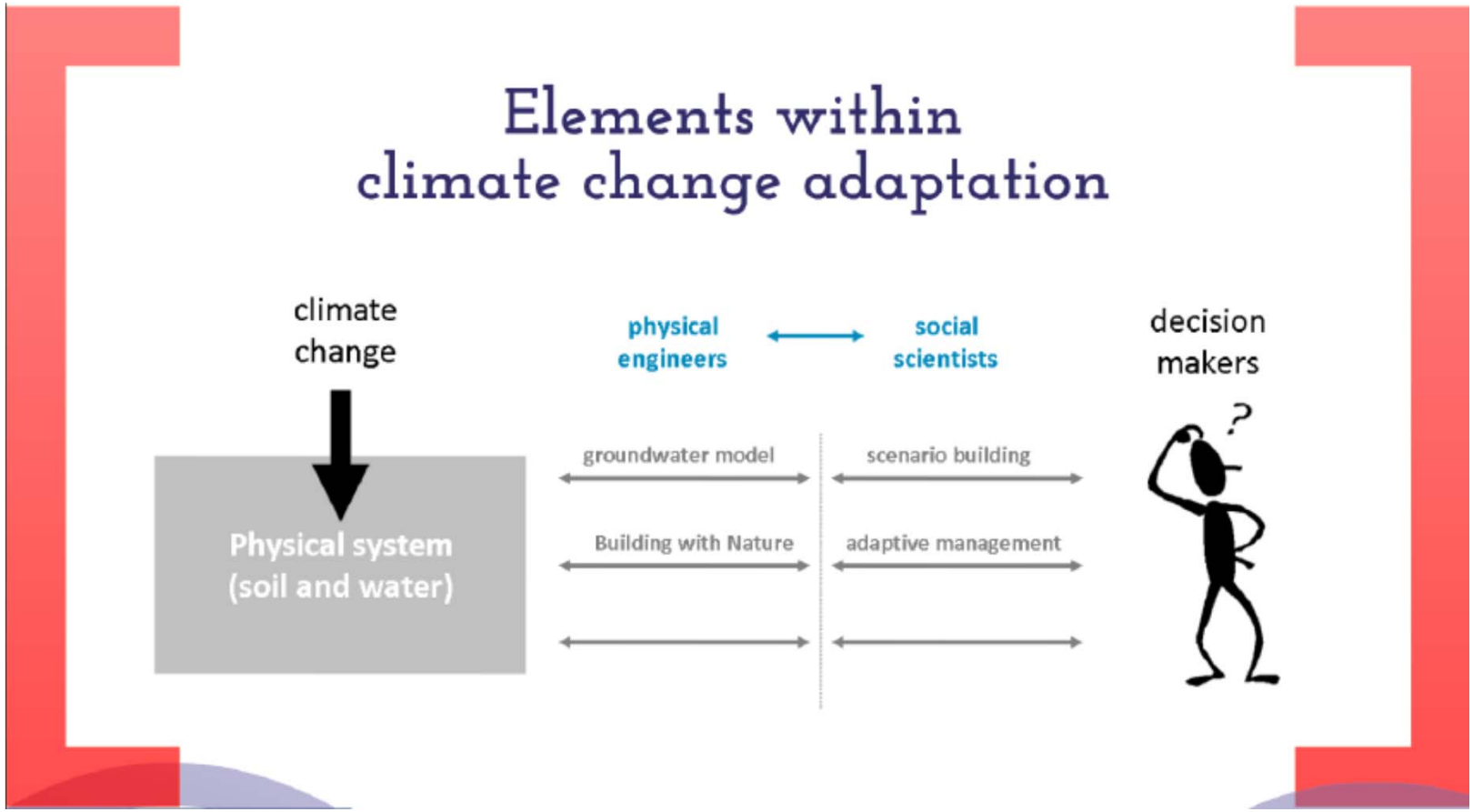
- Do you agree / disagree with the message / recommendation? Yes
- What would you change / add? Have adds
- Are there activities (in your work, in your country, in your region) that are in line with / that contradict this recommendation? See slides
- Which bottlenecks do you envisage for successful implementation? Knowledge transfer on tools

WaterCAP



Modified from EEA

Elements and uncertainty



Use the models actively

Recommendations
Decision support

Models should be established for areas where there is a need for a quantitative understanding of impacts of climate change. Use models to ask questions to allow reframing and transforming of strategies

Invest in integrated and adaptive water resource management:

- with interacting top down (biophysical simulation models) and bottom up approaches (scenario development and group model building) to increase participation and commitment for adaptation strategies

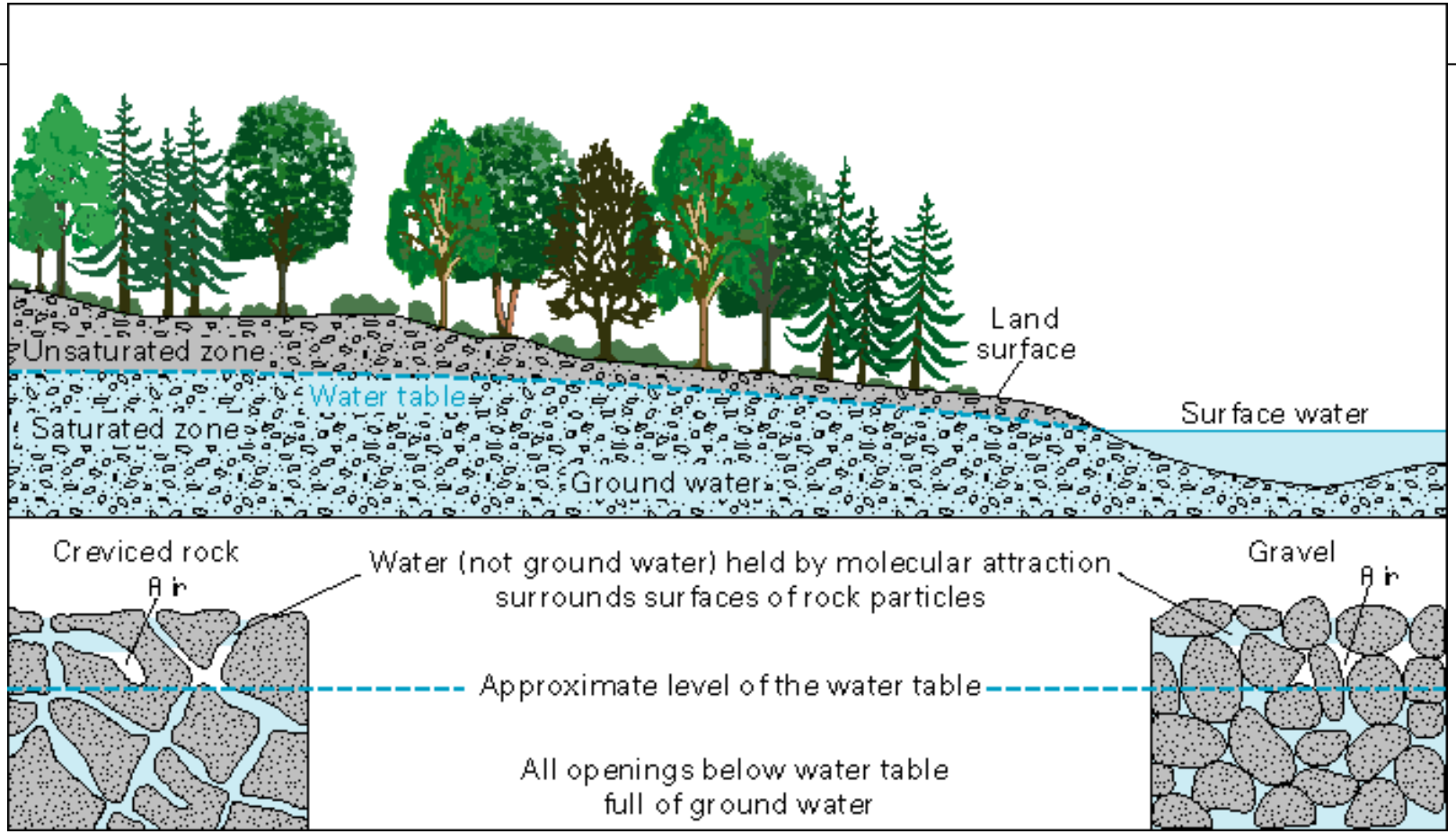
Adds

- Data gathering, innovation and efficiency should be supported
- Focus on data availability and infrastructure to support common formats
- Modelling as decision support both buttom up and top down perspectives. Scenario development including uncertainty.

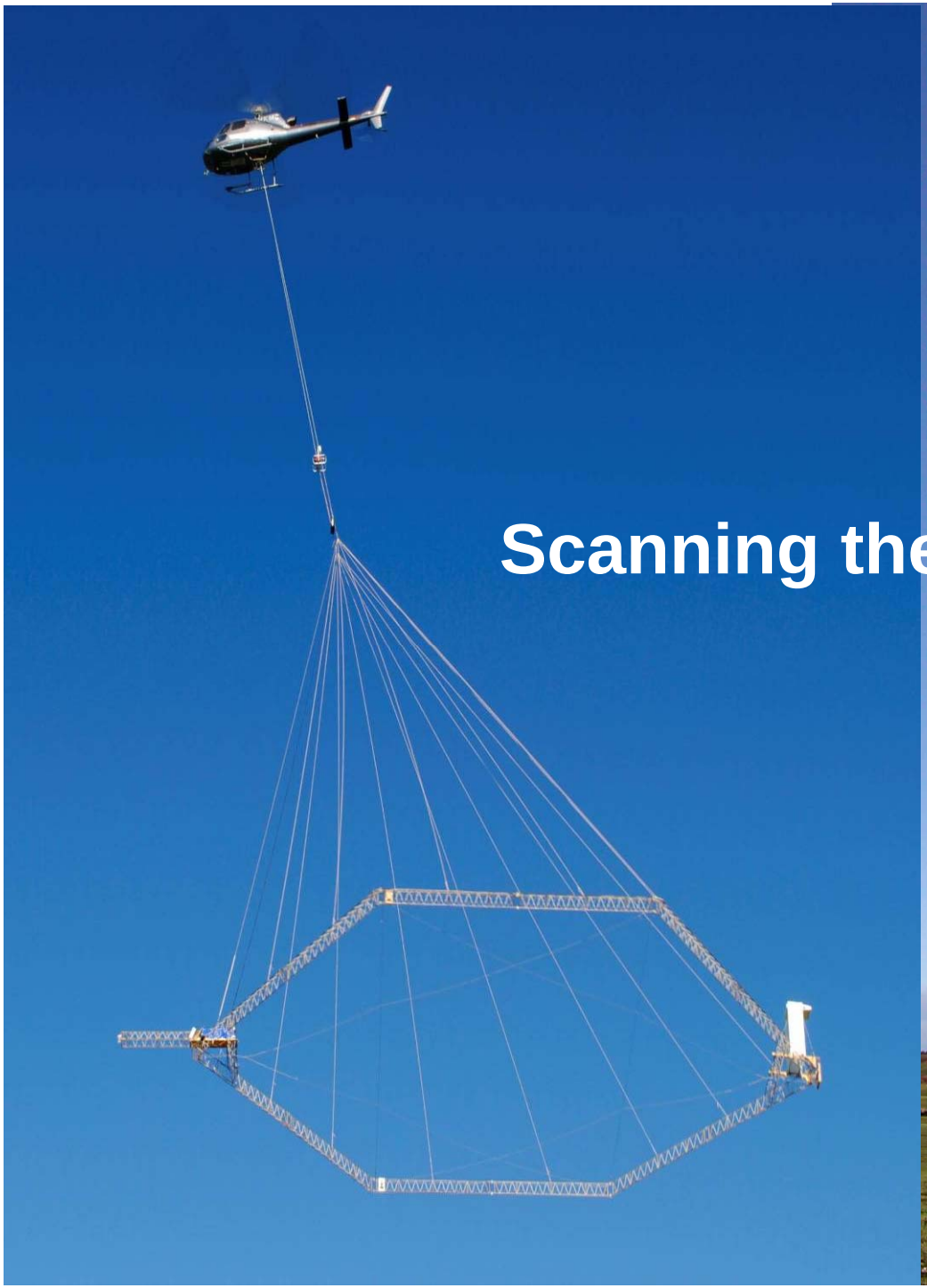
Groundwater

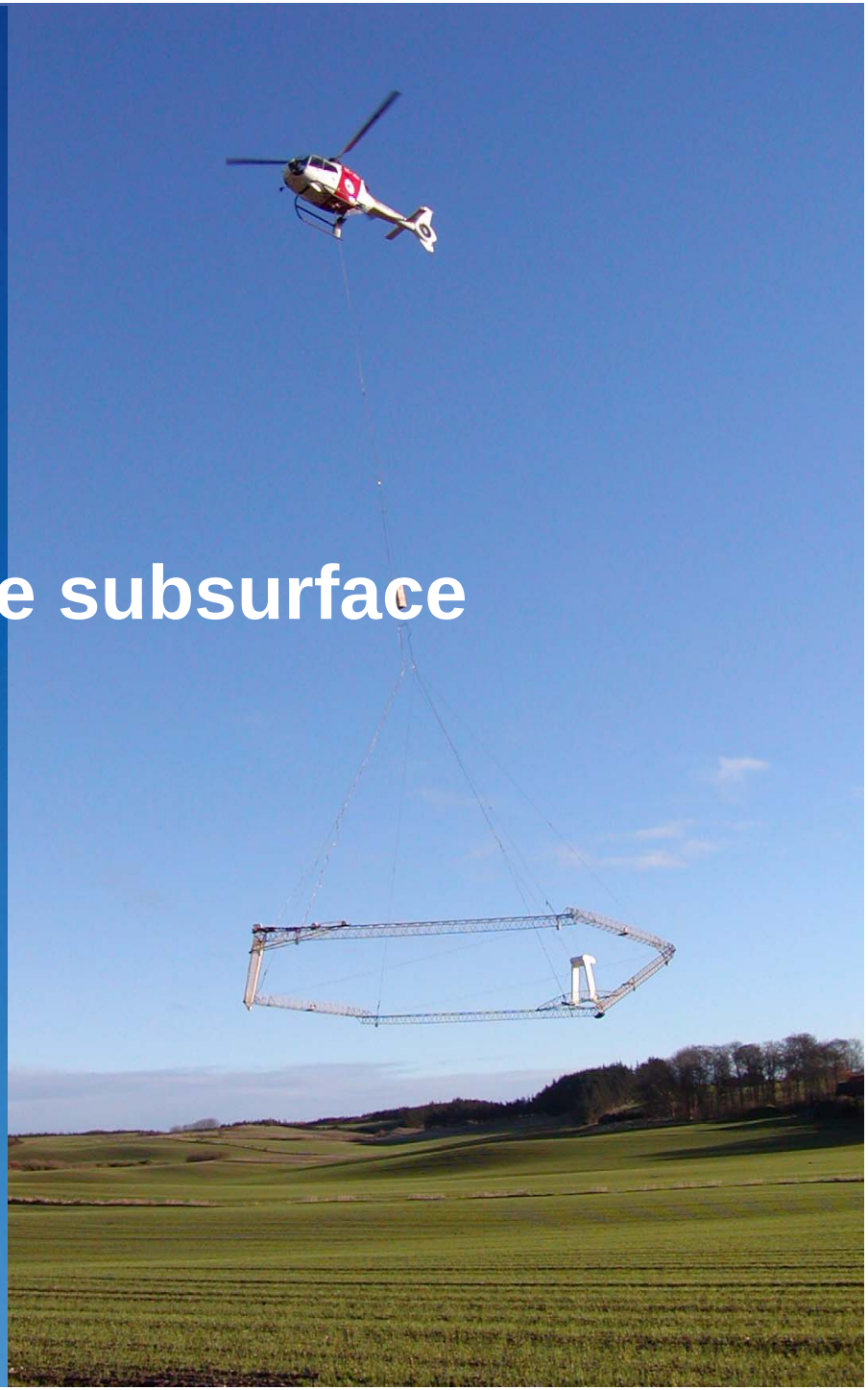
- Supporting innovative data gathering for groundwater management in coastal areas

Mapping sub surface and groundwater

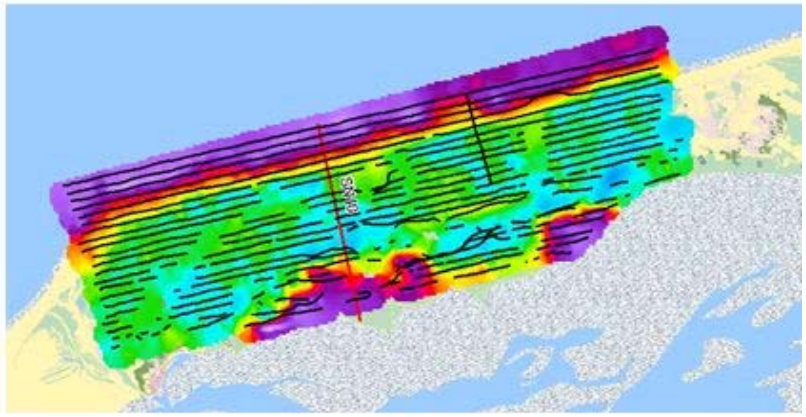


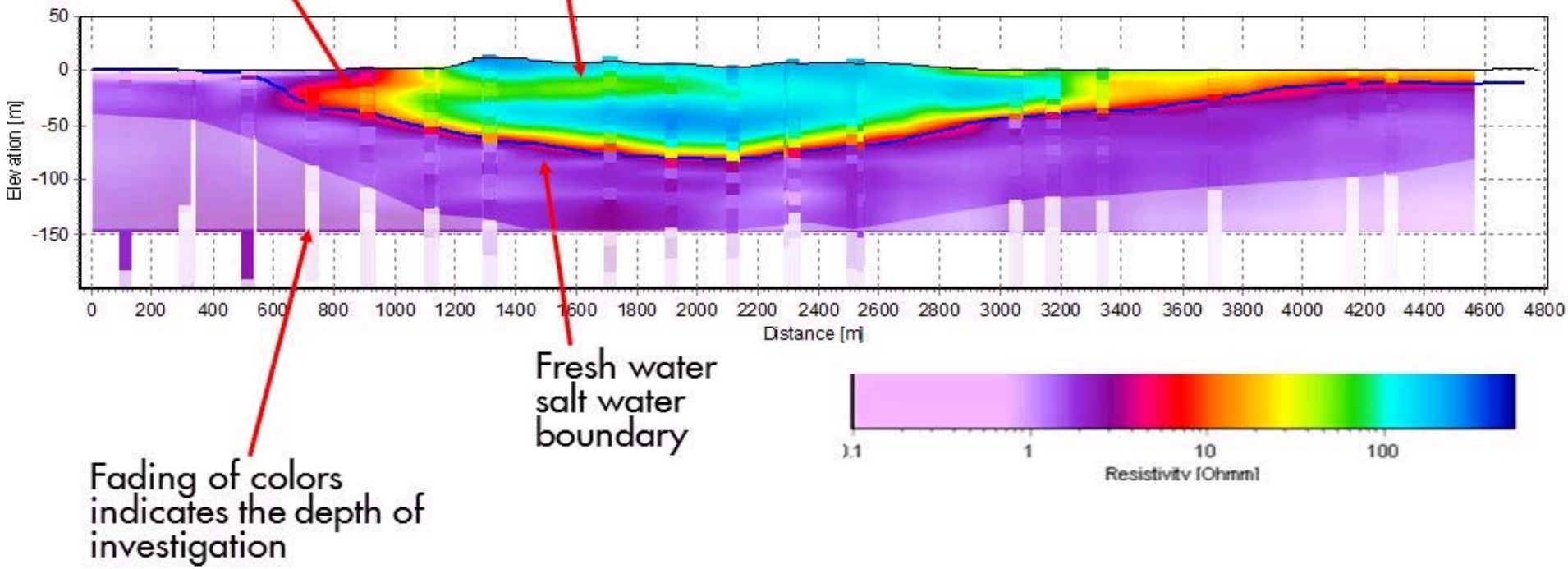
Scanning the subsurface





Cross section with 3D grid





Knowledge tranfser

- Stimulate the steps towards implementation and upscaling of pilot studies within Europe
- Support cluster projects