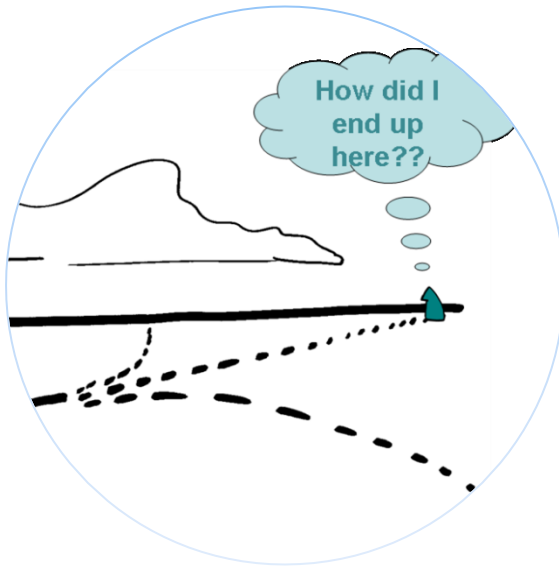


# Developing robust governance strategies for uncertain futures

**A combined backcasting and exploratory scenarios methodology**

3 July 2014, Mathijs van Vliet, Kasper Kok



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# Why?

- Increasing need for dealing with uncertainty in policy making
- Scenarios can be used to:
  - capture part of uncertainty,
  - add creativity
  - study robustness of policy actions

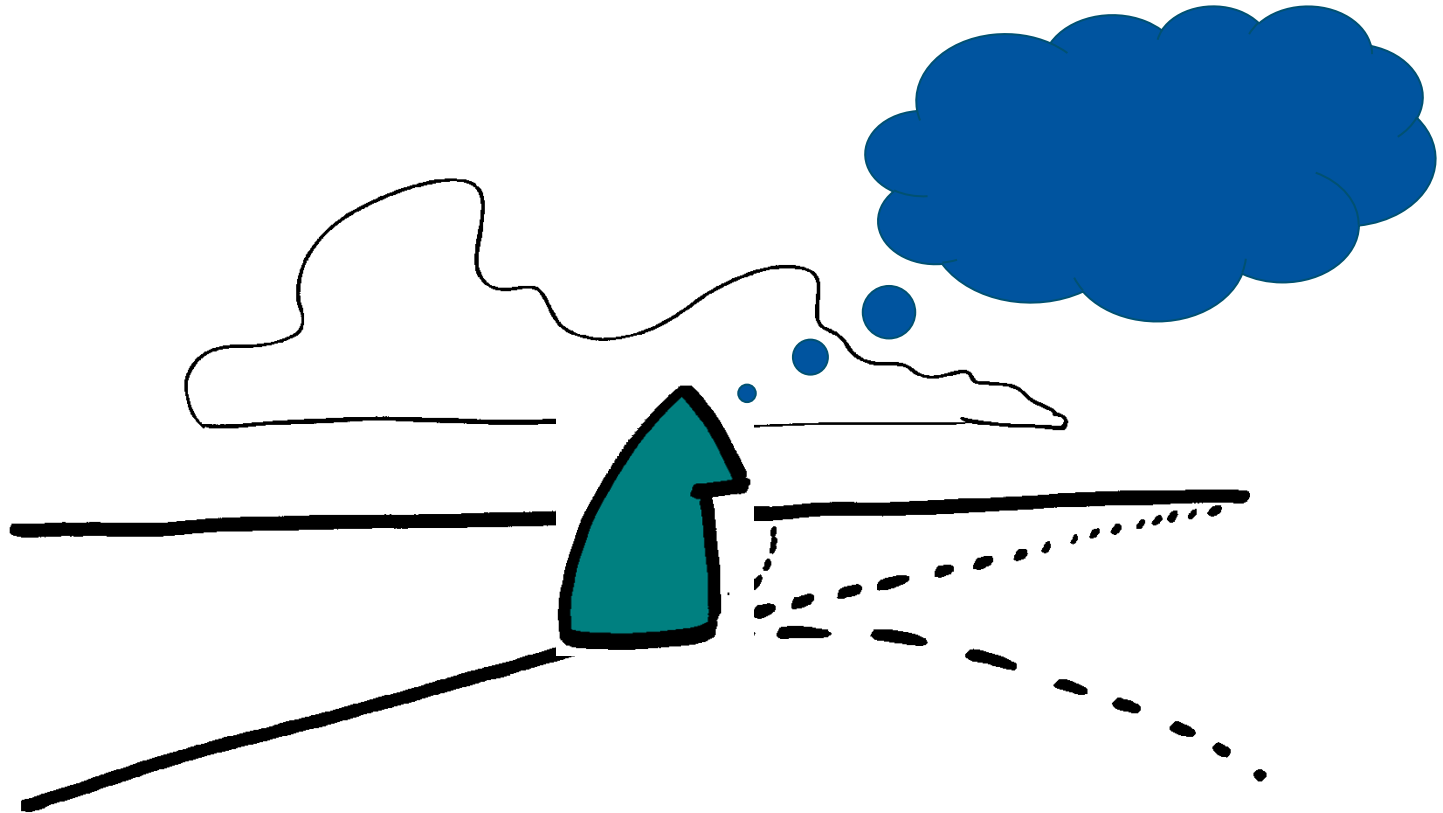


# Explorative scenarios

- Explore plausible futures
- Shows implications of several external drivers
- Give different socio-environmental contexts
- Captures a range of uncertainty
- What can happen?



# Explorative scenarios

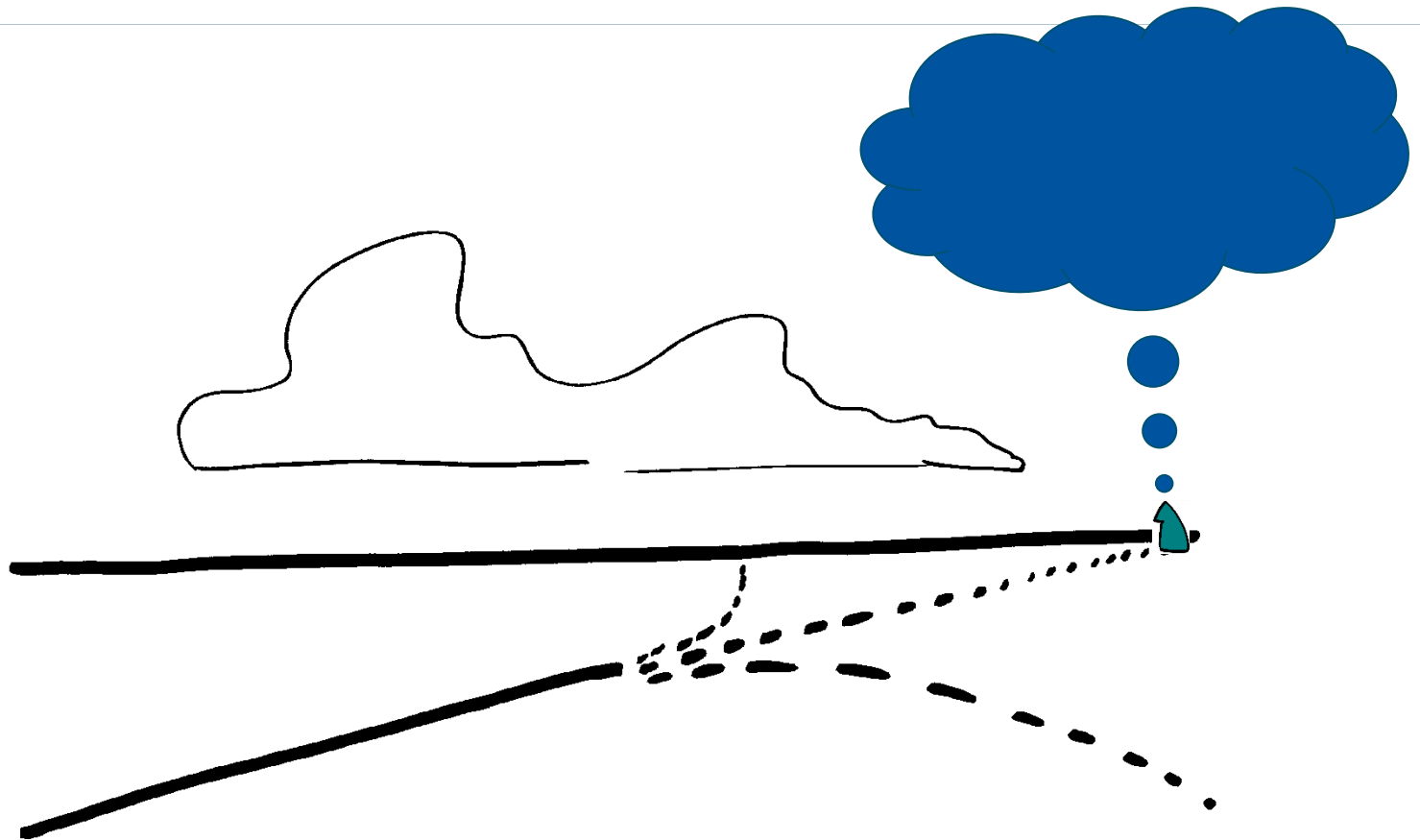


# Backcasting

- Normative scenario methodology
- Working backwards
- Can include vision development
- Aims for desirable futures
- Focus on short and middle term (policy) actions



# Backcasting



# Combining backcasting and explorative scenarios

Main advantage: identification of robust actions

- Explorative scenarios set context / boundary conditions
- Actions need to be executable in socio-environmental situation
- Actions effective within all explorative scenarios are more resilient

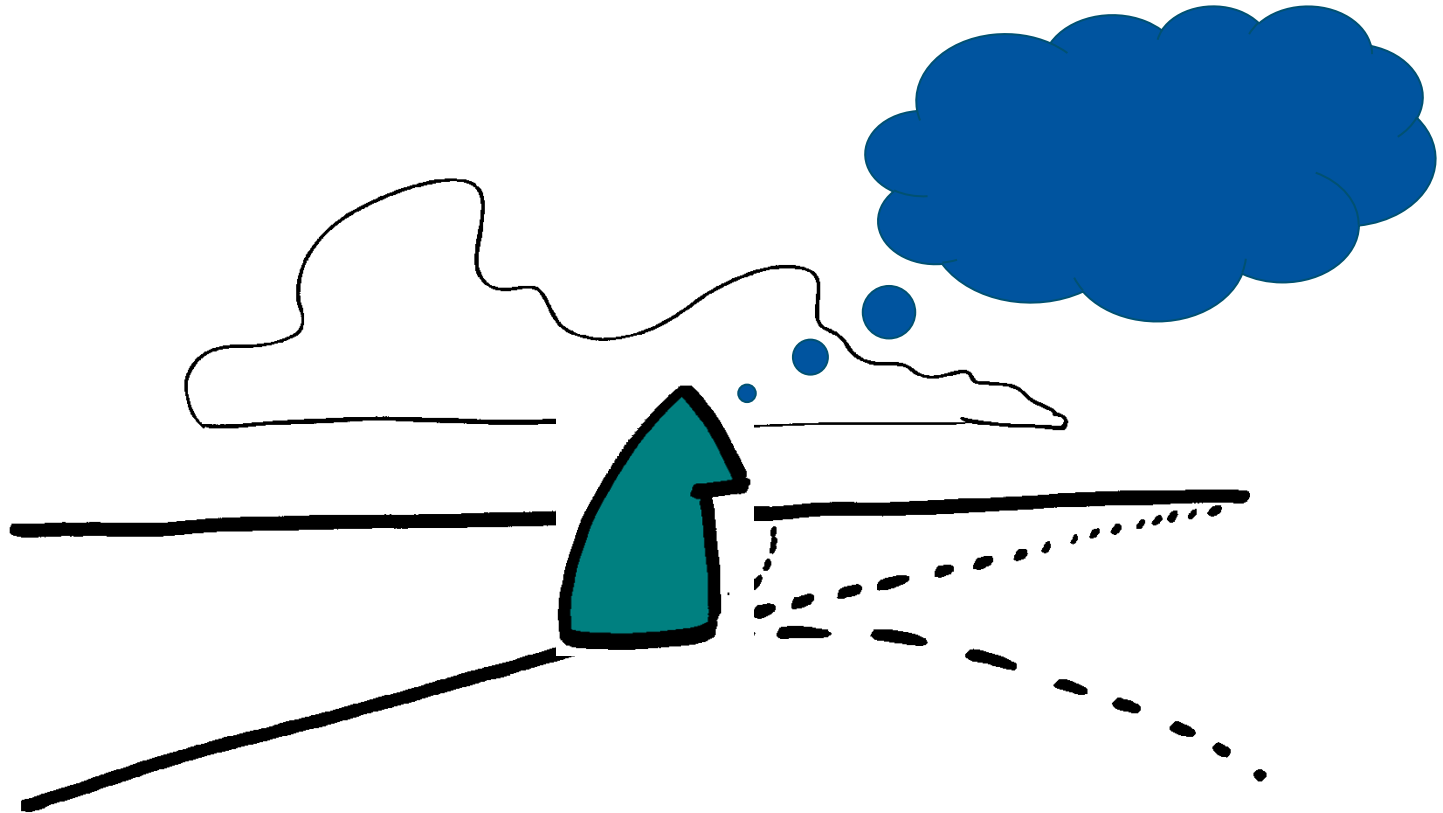


# Other reasons for combining

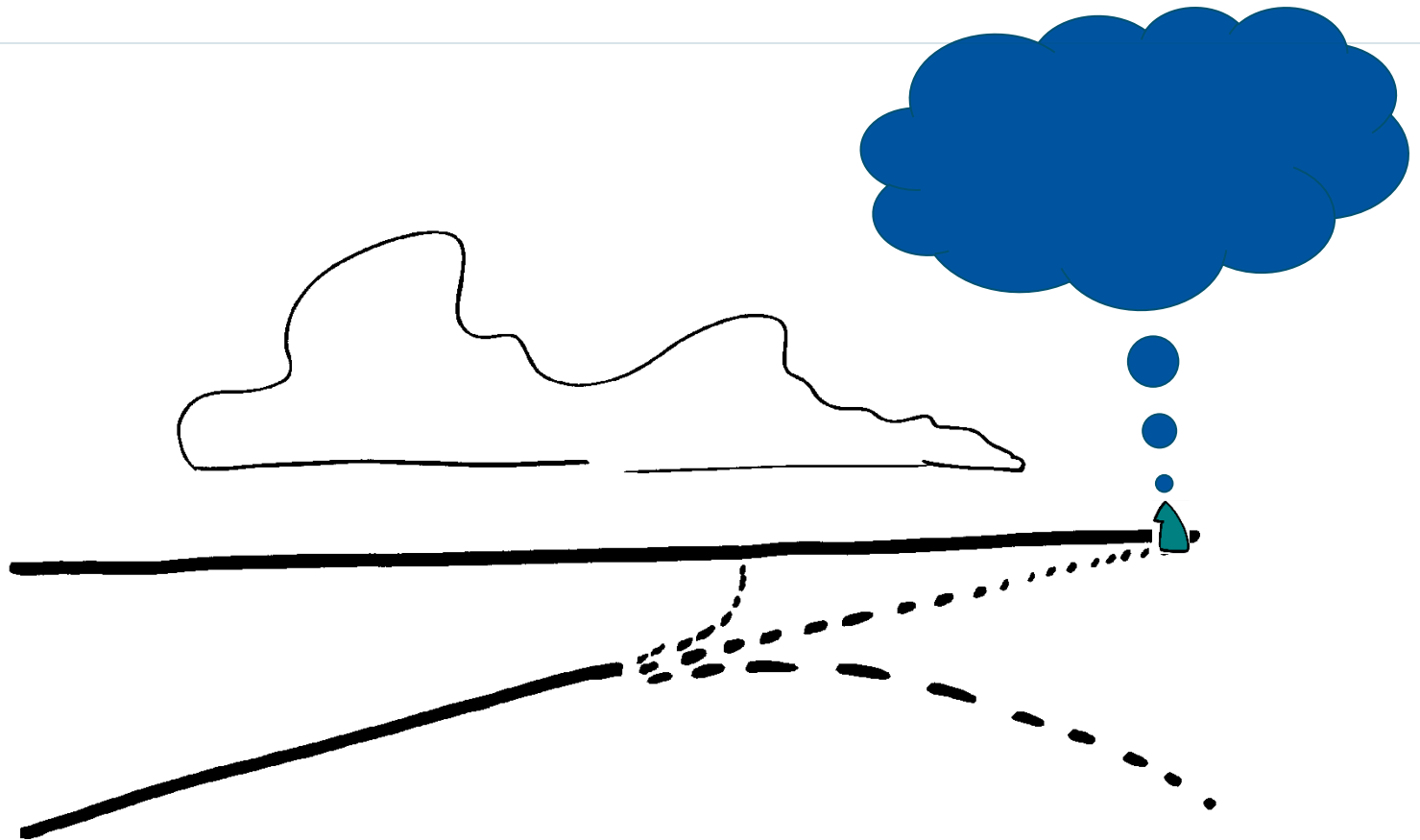
- Shared visions for a sustainable future
- Creative, less linear actions
- Opening minds for new ideas
- Make scenarios more concrete



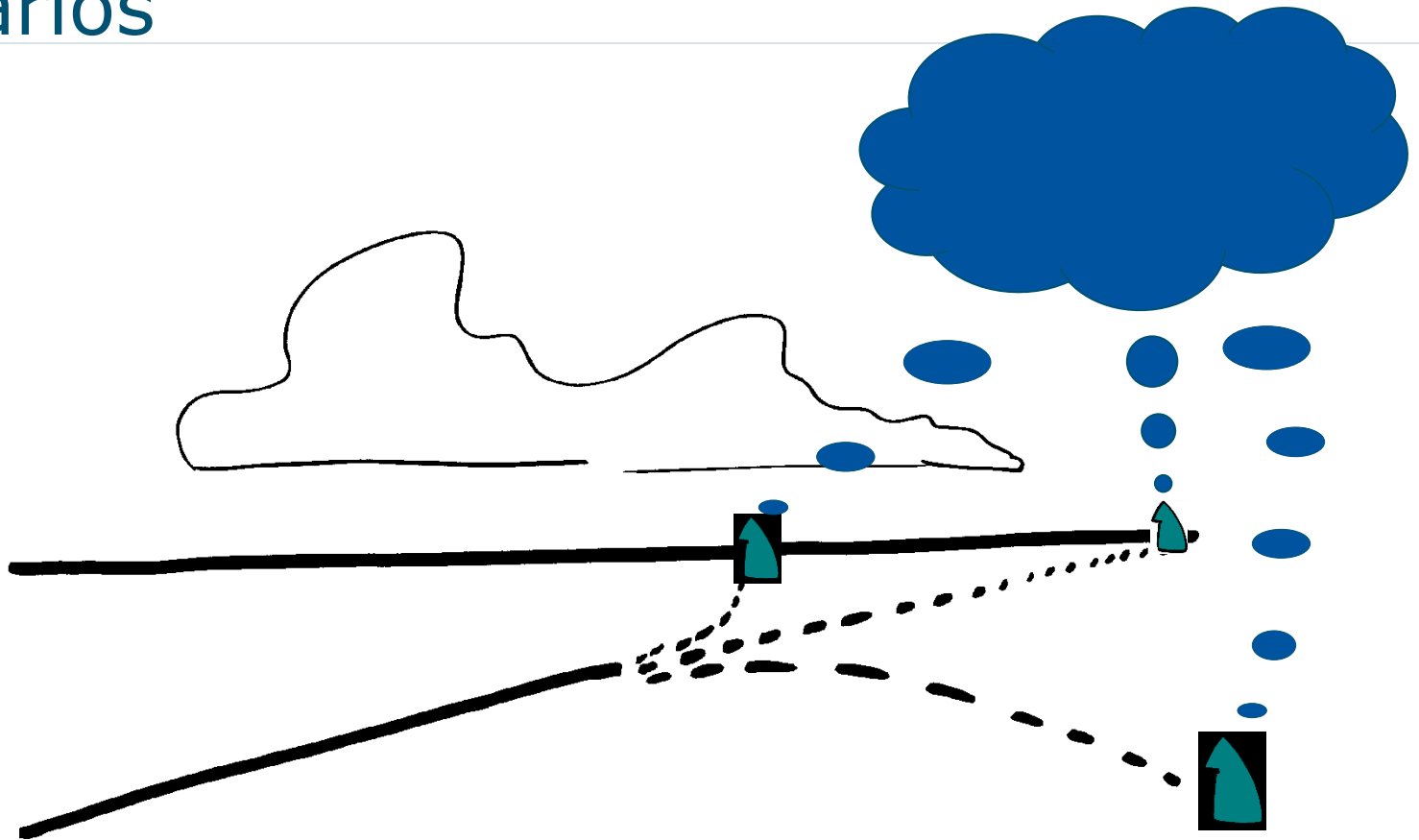
# Explorative scenarios



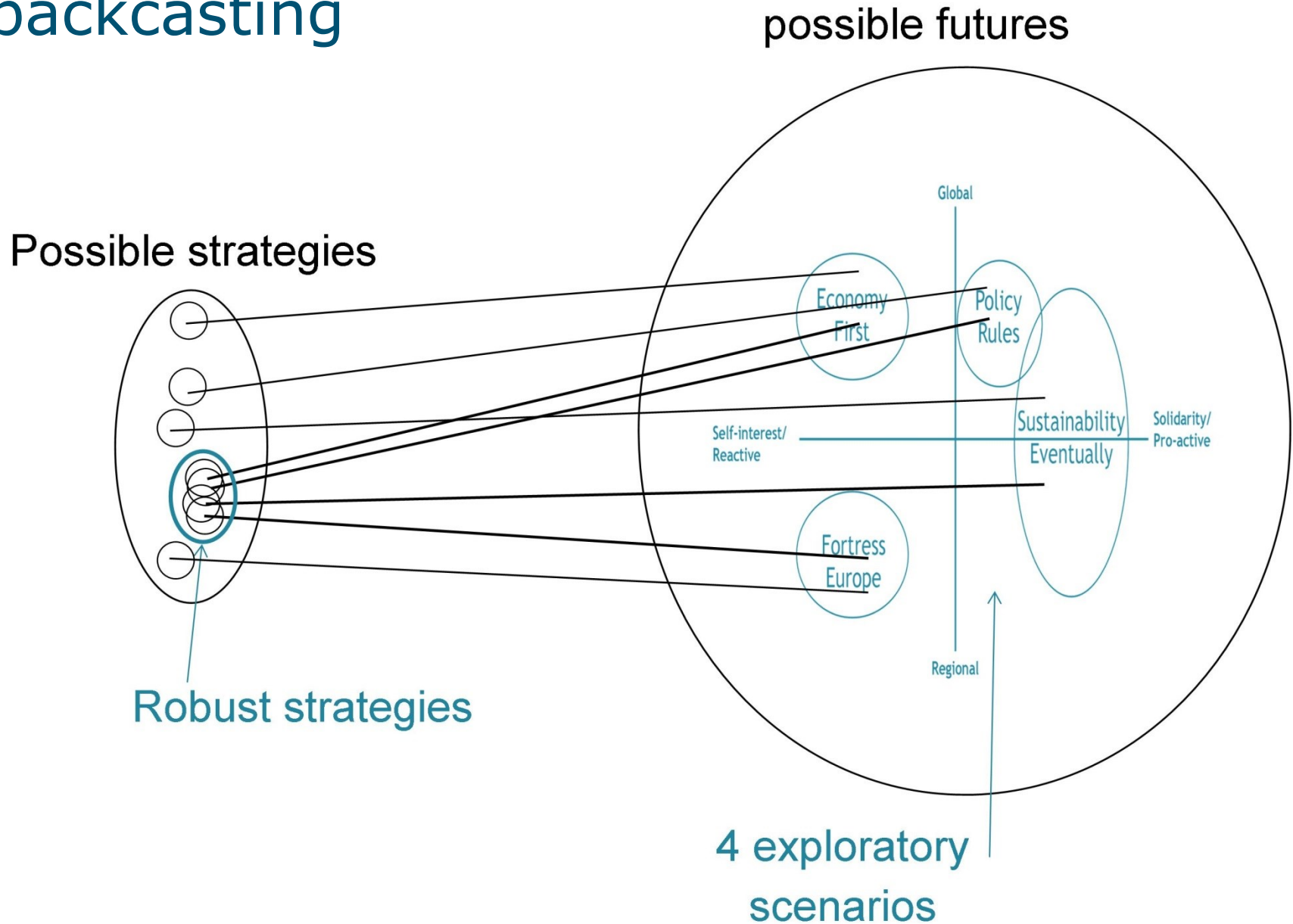
# Backcasting



# Combining backcasting and explorative scenarios



# Combining explorative scenarios and backcasting



# Backcasting Process SCENES

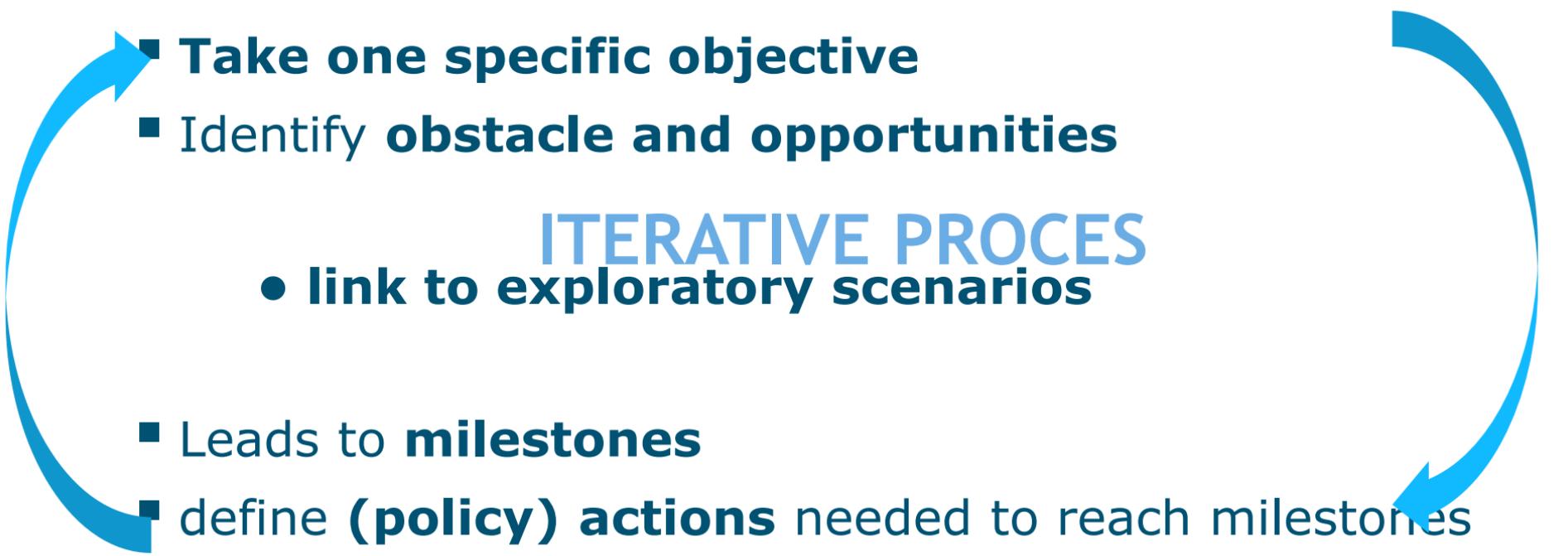
1. Present and near future
2. Looking at the future (developing explorative scenarios)
3. Playing it back

Why those three steps:

- Present as foundation
- Then jump into the future
- Then focus on time in between present and future -> robust policy options for short & middle term



# Backcasting workshop outline



- **Take one specific objective**

- Identify **obstacle and opportunities**

## ITERATIVE PROCES

- **link to exploratory scenarios**

- Leads to **milestones**

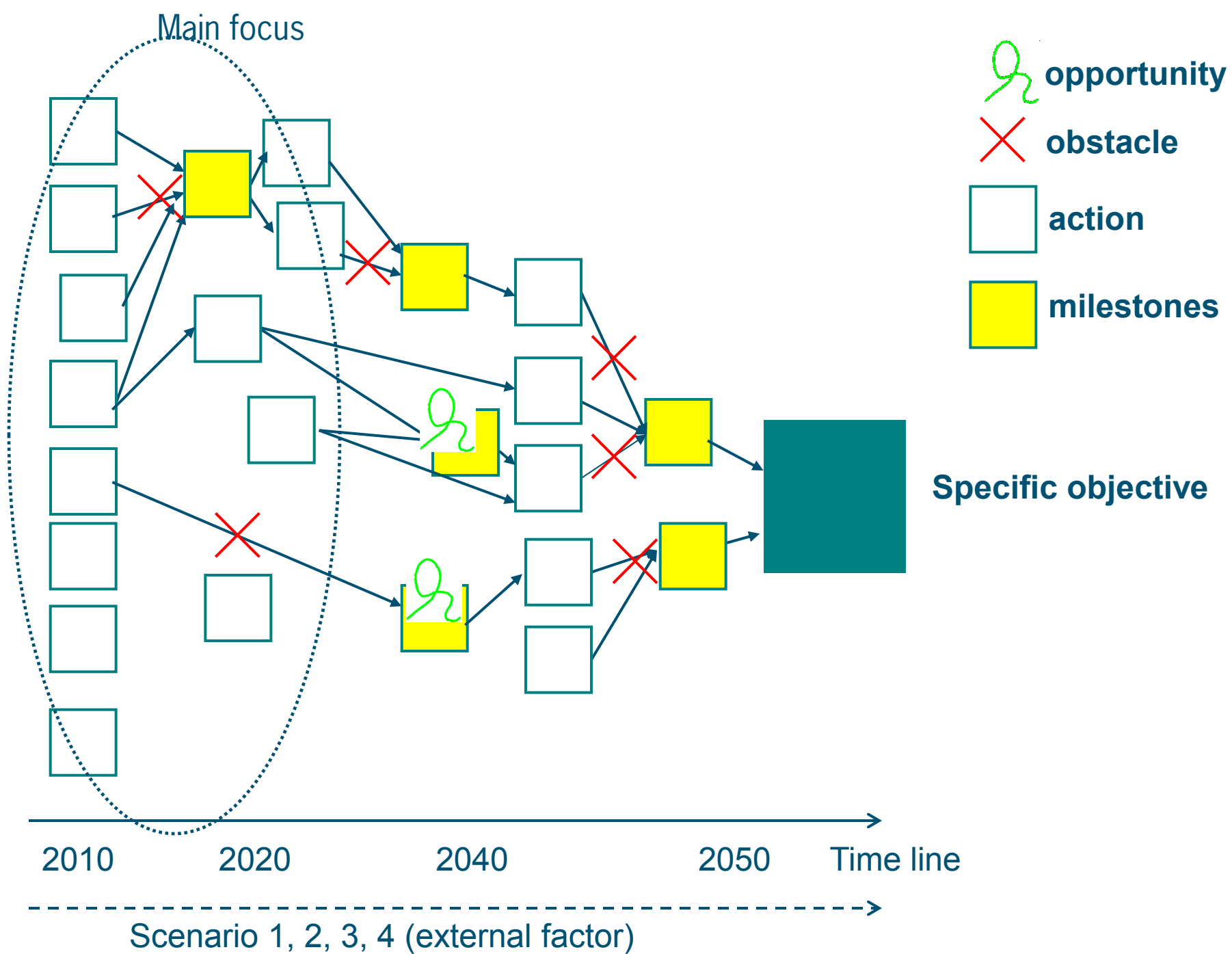
- define **(policy) actions** needed to reach milestones

Plenary:

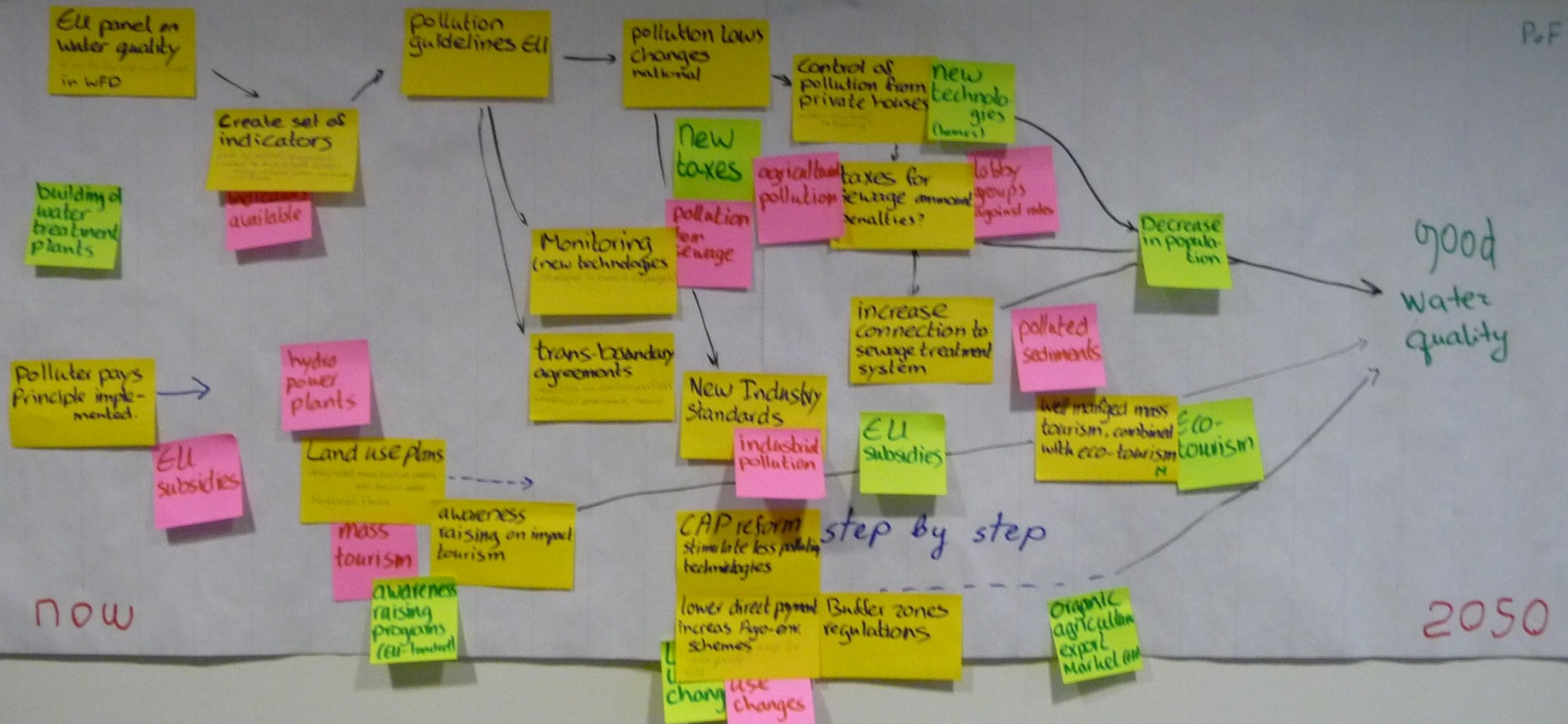
- **Compare solutions and actions**

- look for robust actions





# Example Baltic region



# Results of analysing 10 workshops:

- Backcasts included a large number of elements from contextual scenarios
- Introduces elements of sustainability in otherwise negative futures
- More surprising strategies
- List of robust strategies, that
  - are more resilient to different futures / different socio-environmental contexts
  - containing both technological and social/organisational strategies
  - highlighting the need for integrated approaches



# Examples of robust strategies

- Cooperation across borders and sectors
- (environmental) education
- New financial mechanisms
- Improve governance capacity
- Improve / expand waste water treatment
- Implement monitoring programmes
- Delete exemptions and derogations from achieving the good water quality status of the WFD



# Future research

- Need better connection to policy processes
  - Include more policy makers, as this aspect was difficult for many other stakeholders
- Increase usability for water managers:
  - Add more quantitative tools?
- Shorten overall process
  - Especially in areas where participation is new



# Questions?

More info:

[Van Vliet and Kok, 2013](#)

[Kok et al, 2011](#)

