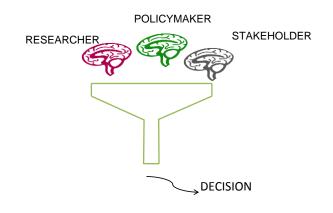


# PART I: THE RELEVANCE OF INTERACTIVE KNOWLEDGE DEVELOPMENT IN SOCIETY





# WHY INTERACTIVE KNOWLEDGE DEVELOPMENT FOR SUSTAINABLE COATAL SOLUTIONS?



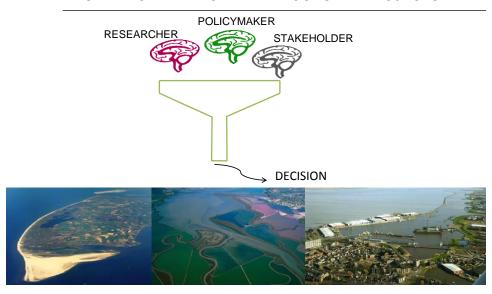
- Seen as solution for dealing with complex interdependent problems.
- Actors hold different norms, values and criteria for knowledge production.
- A systematic understanding of interactive knowledge development is lacking in the project environment.

# WHY SHOULD WE INCREASE OUR UNDERSTANDING OF INTERACTIVE KNOWLEDGE DEVELOPMENT?



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# PART II: THE FUNCTIONING OF INTERACTIVE KNOWLEDGE DEVELOPMENT IN COASTAL PROJECTS



# CONCEPTUAL FRAMEWORK TO ANALYSE PRACTICES OF INTERACTIVE KNOWLEDGE DEVELOPMENT

# Project Arrangement Executing the project Resources Resources Actors Discourses Actors Resources Rules Actors Actors Resources Rules Resources Resources Resources Resources Resources Resources Resources Resources

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### DATA COLLECTION IN THREE CASES

Case selection criteria

- Projects focus on coastal zone.
- Respond to problems on a regional scale.
- Diversity of actors participate in knowledge production for proposed solutions.









## **DATA ANALYSIS**

- 1) Conduct qualitative data analysis through template coding.
- 2) Develop analyses of project and knowledge arrangements.
- 3) Derive causal mechanisms that reveal how a set of causes contribute to outcomes of interactive knowledge development.
- 4) From single case studies to cross-case analysis.



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## KEY RESULTS: 11 CAUSAL MECHANIMS SPECIFY HOW INTERACTIVE KNOWLEDGE DEVELOPMENT FUNCTIONS

Project arrangement

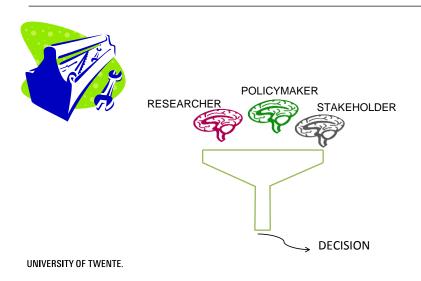
Knowledge arrangement

2.

3.

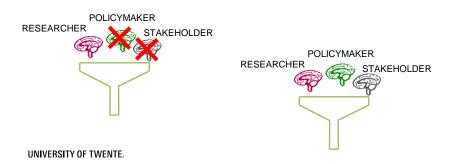
- 1. Sharing responsibilities at the project level support interaction rules for interactive knowledge development.
- 2. Actors are excluded during one or more activities of interactive knowledge development.
- 3. Feasibility of solutions improves through interactive knowledge development.

# PART III: ORGANISING INTERACTIVE KNOWLEDGE DEVELOPMENT



## ORGANISING INTERACTIVE KNOWLEDGE DEVELOPMENT

Raise awareness: 'basic research' is different from interactive knowledge development for sustainable coastal development. Benefits of interactive knowledge development (increased societal support and feasibility) do not come automatically.



# RECOMMENDATIONS TO REACH THE BENEFITS OF INTERACTIVE KNOWLEDGE DEVELOPMENT (1/3)

Create a setting that stimulates consensus seeking in knowledge production:

- Project partners share responsibilities for project outcomes instead of having one organisation responsible for implementation.
- Explore criticism and concerns of participating actors instead of referring to the authority or autonomy of researchers and their results.



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# RECOMMENDATIONS TO REACH THE BENEFITS OF INTERACTIVE KNOWLEDGE DEVELOPMENT (2/3)

Interactive knowledge development requires additional measures that 'basic' research does not need:

- A process facilitator.
- Easy comprehensible knowledge.



# RECOMMENDATIONS TO REACH THE BENEFITS OF INTERACTIVE KNOWLEDGE DEVELOPMENT (3/3)

Reserve time and money for interactive knowledge development to account for:

 Extra meetings and discussions, methods for easy comprehensible knowledge and follow-up research.



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### OVERVIEW OF PRESENTATION

- Interactive knowledge development represents a valuable approach to develop more sustainable solutions for the coastal zone.
- My PhD research resulted in eleven generic mechanisms that specify how interactive knowledge development functions in coastal projects.
- Since the benefits of interactive knowledge development do not come automatically I provide recommendations to organise it:
  - Explore criticism and concerns of participating actors.
  - Take specific measures.
  - Reserve time and money.





