



### Marine Sciences For Society



Collège Coopératif de Bretagne

ARTISTICCC is a project funded by the "Belmont Forum International Opportunity Fund". The following national funding bodies are contributing to ARTisticcc : Agence Nationale de la Recherche, France; National Science Foundation, USA; Ministry of Earth Science, India; Russian Foundation for Basic Research, Russia; Social Science and Humanities Research Council of Canada, Canada.



# Adaptation Research, a Transdisciplinary Transnational Community and policy Centred approach

Belmont Forum Coastal Vulnerability Collaborative  
Research Action Projects Mid-Term Meeting  
Rotterdam, 23rd September, 2014



# Outline

- ARTisticc:
  - Why?
  - Where?
  - Who?
- ARTisticc How?
  - ARTisticc's overarching framework
  - ARTisticc's community centered scientific enquiries
  - ARTisticc's cultural mediation
- ARTisticc's policy centeredness
  - Compositionist approach
  - ARTisticc's web based compositions
  - Deliberative policy brief co-construction



# ARTisticcc?

Why?

Where?

Who?



# Why?

- Adaptation as an uncertain concept.
- Adaptation as a concept dealing with uncertainty.
- Adaptation as a concept calling for trans disciplinary approaches.
- Adaptation as a concept is unconventional in the realm of science and policy integration.

leads to challenges in planning and a quagmire of implementation procedures (Simonet 2011, Adger et al. 2007)

The suboptimal delivery of international environmental research to local coastal communities is in itself a critical barrier to adaption to climate change





(1) Uummannaq



Photo: courtesy of Jean-Michel Huctin

(2) Wainwright



Photo courtesy of Rachel Potter and Hank Statscwich

(3) Tiksi



Photo: courtesy of NASA

(4) Bay of Brest – Iroise sea



Photo: courtesy of Jean-Paul Vanderlinden

(5) Kanyakumari district and Nagapattinam region

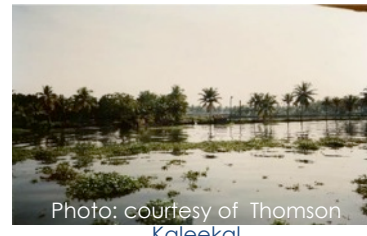


Photo: courtesy of Thomson Kaleekal

(7) Cocagne - Grande Digue



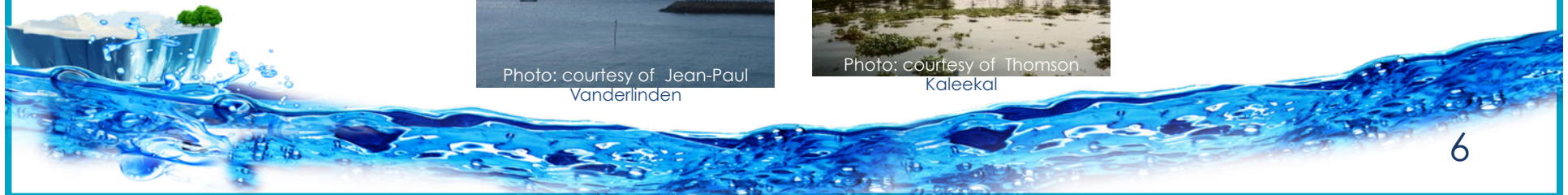
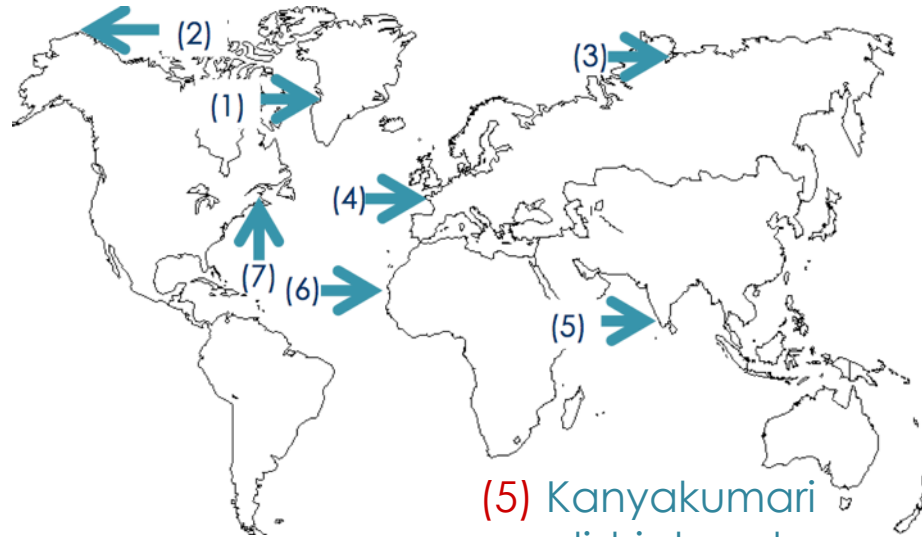
Photo: courtesy of GDDPC

(6) Mbour

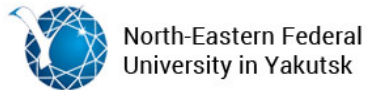


Photo: courtesy of Jean-Paul Vanderlinden

# Where?



# Who?



## Marine Sciences For Society



# Who?







# ARTisticcc how?

ARTisticcc's overarching framework  
ARTisticcc's community centered scientific  
enquiries  
ARTisticcc's cultural mediation



# Overarching framework (1)

## Local stakeholders adaptation

- Will be the results of a balance between three dimensions
  - Material constraints ← ←
  - Moral constraints ← ← ←
  - Understanding of the way the world functions ←
- These constraints will appear under the guise of
  - Pertinence claims ← ←
  - Normative claims ← ← ←
  - Evidence claims ←

Based on work by Vanderlinden, Baztan and team (THESEUS project)

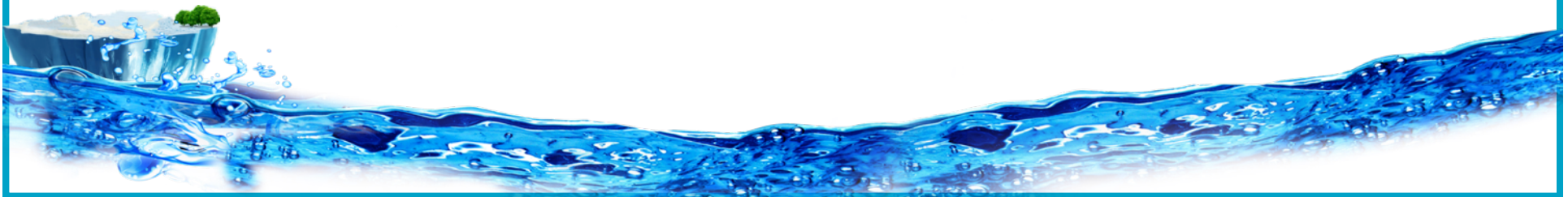
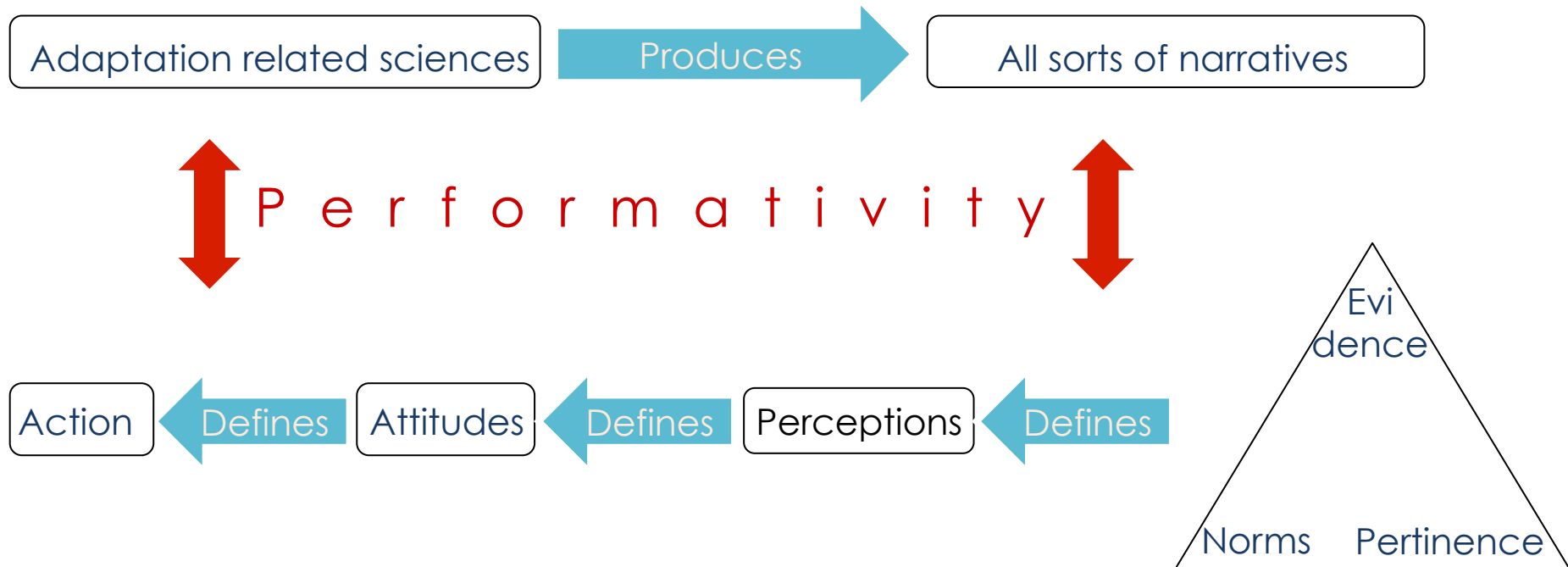


## Overarching framework (2)

**Performativity** is the process by which semiotic expression (in language or a symbol system) produces results or real consequences in extra-semiotic reality, including the result of constructing reality itself.



## Overarching framework (3)

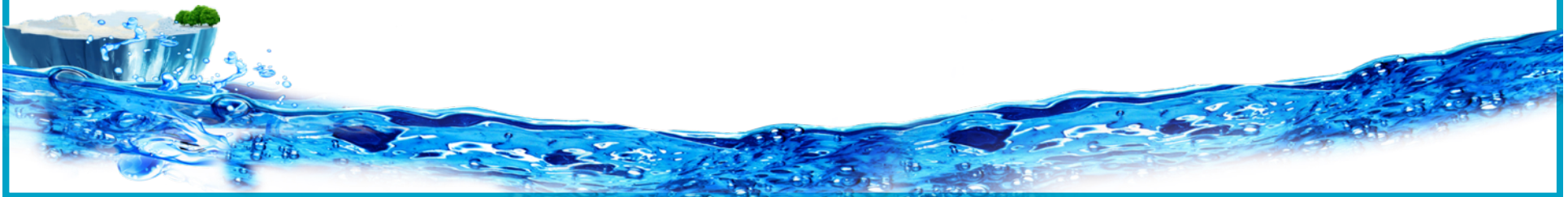




## ArtisticCC's scientific community centered enquiries (1): mobilizing natural sciences

- In all seven sites
  - What do we know for a 20 (50?) years time horizon?
  - What are the associated uncertainties?
  - Can we, how to, shall we, use this to chart a course for the future of a community, with this community?

Getting science based results, designing science based scenarios, communities assessing these scenarios.



## ArtisticCC's scientific community centered enquiries (2): mobilizing social sciences

- Social science (In all seven sites)
  - What are the adaptation process currently under way?
  - How are those involved living this?
  - Do they see and end, associated with actions under way?
  - Can we, how to, shall we, use this to chart a course for the future of a community, with this community?

Identifying current adaptation pathways, assessing these pathways in terms of local communities' understanding of the way the world function, in terms of material constraints and in terms of values and norms



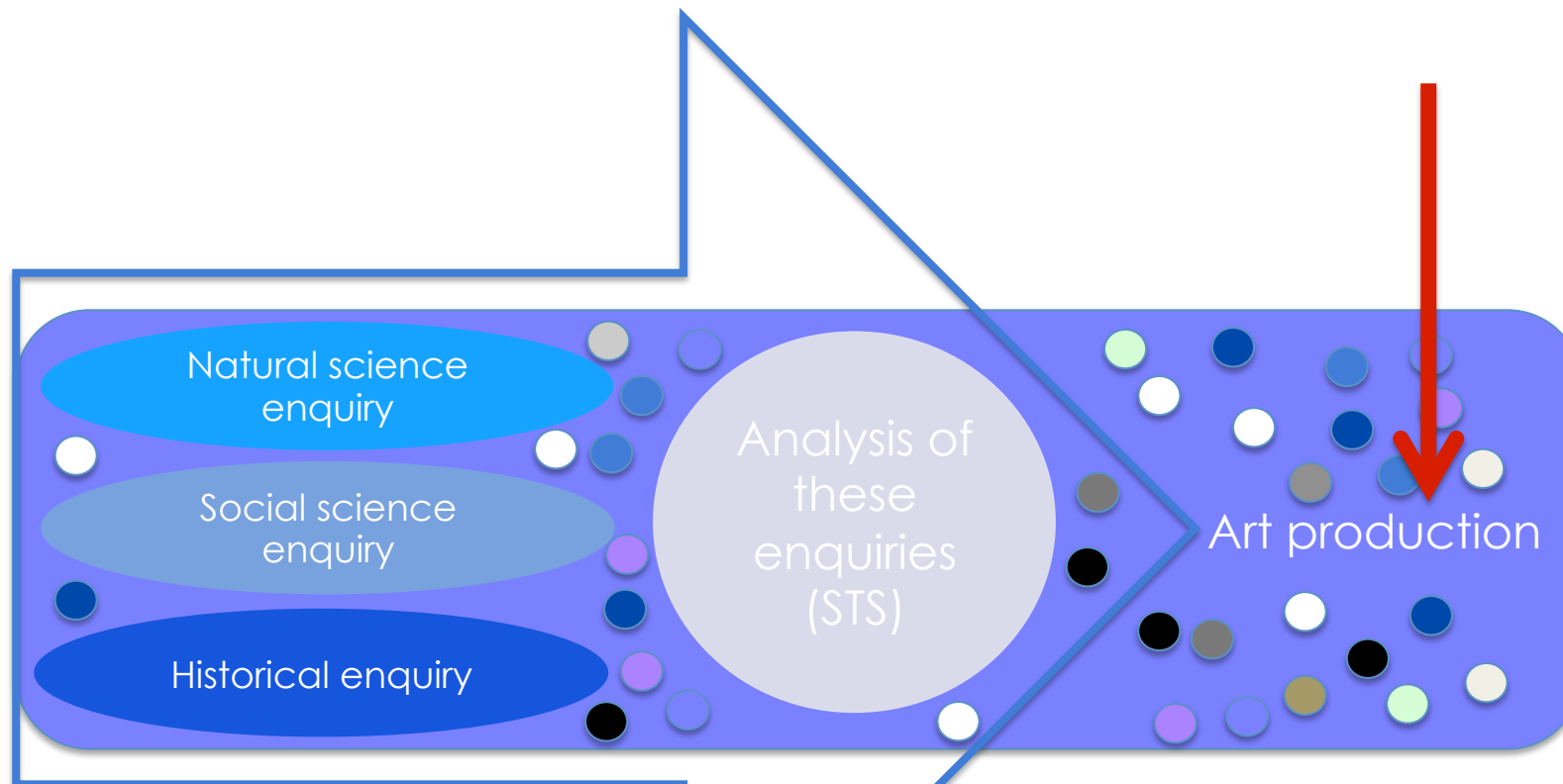
## ArtisticCC's scientific community centered enquiries (3): mobilizing history

- Analyze a past instance of adaptation
- How did this translate in terms of human-nature relation?
- How did this translate in terms of social relationships?
- Can we, how to, shall we, use this to chart a course for the future of a community, with this community?

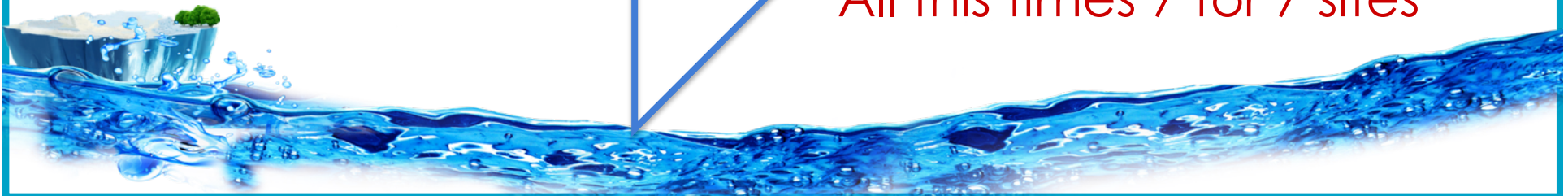
Identifying past adaptation pathways, assessing these pathways in terms of local communities' understanding of the way the world function, in terms of material constraints and in terms of values and norms



# ARTisticcc's cultural mediation



All this times 7 for 7 sites





# ARTisticcc policy centeredness

Compositionist approach  
ARTisticcc's web-based composition  
ARTisticcc's policy briefs



## Compostionist approach

« Even though the word “composition” is a bit too long and windy, what is nice is that it underlines that things have to be put together (Latin componere) while retaining their heterogeneity. » (Latour 2010)

In ARTisticCC we are going to experimentally assemble, without betraying the underlying heterogeneity (i.e., compose), the three more “disciplinary” results, the STS results, and the art and science integration results, this times 7 for 7 sites. This is an attempt at harnessing the concept of adaptation in its diversity.



## ARTisticcc web-based composition

The composition will take the form of a web-based multimedia deliberation portal.

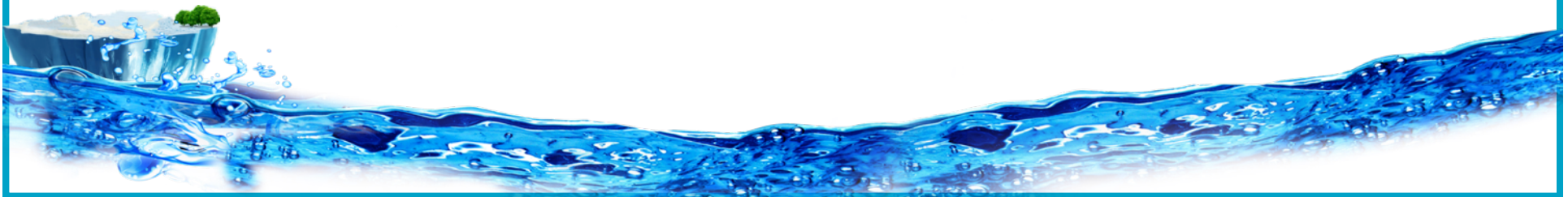
- Based on methodological progresses made in the course of the TECHNOLIFE project ([technolife.no](http://technolife.no))
- Recruitment of deliberants targeted at policymakers/implementers
- Coding of deliberation materials.
- Iterative construction of policy briefs integrated into the portal

Centrality of performativity analysis



## ArtisticCC's policy briefs

- Using science to foster local coastal adaptation
- Coastal adaptation as a risk governance mechanism: balancing values, economic pertinence, and causal understandings;
- Developing scenarios of local coastal futures: assessing natural science for local action
- Local history, memory, and current practice: contextualizing locally coastal adaptation;
- Merging science and art for local action: coastal adaptation to climate change;
- Informing policy makers in the context of coastal adaptation: what policymakers should know.







# Some concluding elements

Status to date  
This meeting



## Status today

- Quite a satisfactory experience
  - The general format of the Belmont call and organisation quite conducive of collective scientific work
  - Got some extra funding for grad student exchange.
  - The experience generates quite a lot of interest
- We are on schedule
  - Kick off retreat in March, second retreat starting this evening
  - Good surprise in obtaining the Canadian funding through national call (Canada not contributing to this WP of the Belmont outside of national calls)
- Sciencewise
  - 1 paper to be submitted in December
  - 2 poster presentations
  - A few national conferences
  - Field work on-going
- Yet
  - Reduction of budget following the negotiation phase more challenging than expected
  - One partner had not received funding as off a few days ago, seems to be OK now
  - Still need to sort out administrative issues as consortium agreement and subcontracting.



## Key questions connected to this workshop

- Some of the other Belmont funded projects share objectives and central concepts with ARTisticCC
  - Cross fertilisation, avoiding overlaps?
- Accessing local policy makers/implementers is straightforward
  - Higher level stakeholders are diverse (even scale wise) and sometimes not accessible
  - Can we join forces? And if yes how?



Thank you!



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<http://artisticc.net>

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