



European Research Area  
for Climate Services

European Research Area for Climate Services ERA4CS - Transnational Collaborative Research Projects 2016  
Topic A - Researching and Advancing Climate Services Development by Advanced co-development with users

## INSeaPTION

*INtegrating Sea-level Projections in climate services for coastal adaptaTION*

# Global sea-level rise information and decision making

3<sup>rd</sup> user workshop – Haarlem, The Netherlands, 25-26/09/2018

*Gonéri Le Cozannet, BRGM; Virginie Duvat, Univ. La Rochelle; Jochen Hinkel, Global Climate Forum;  
Marta Marcos, Univ. Baléares; Roderik Van De Wal, Univ. Utrecht; Patrice Walker, Creoccean*



## What are climate services?

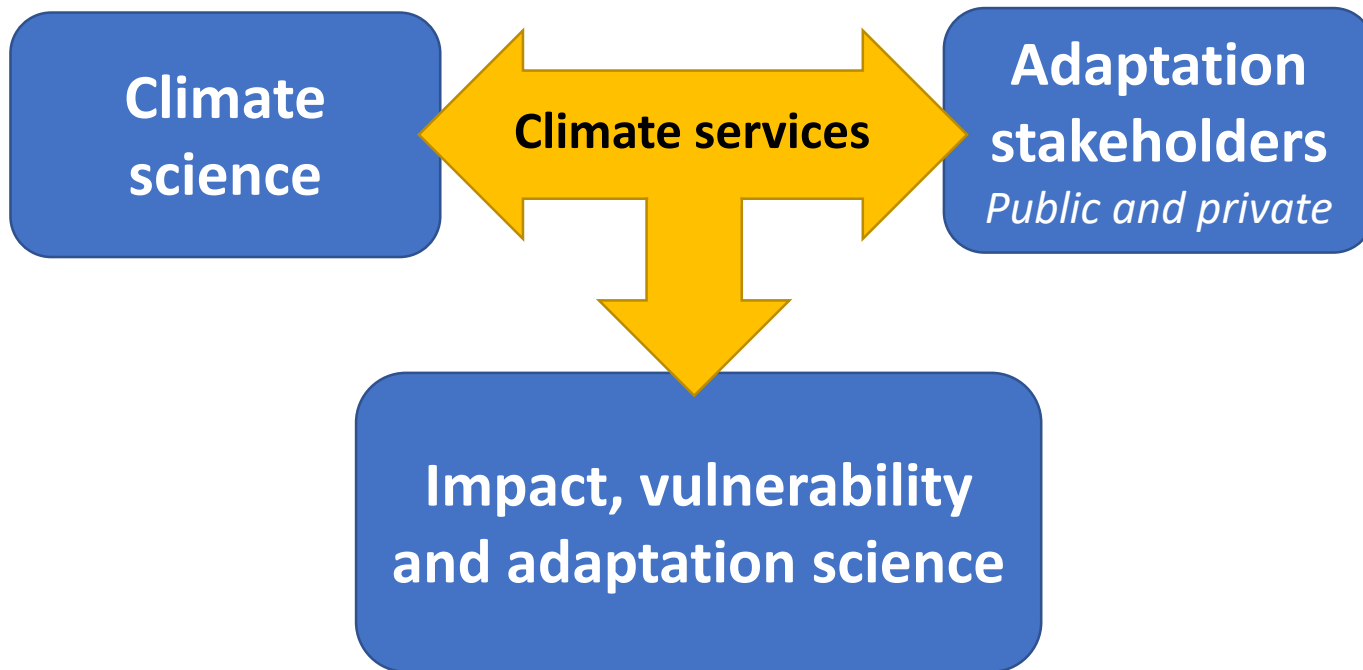


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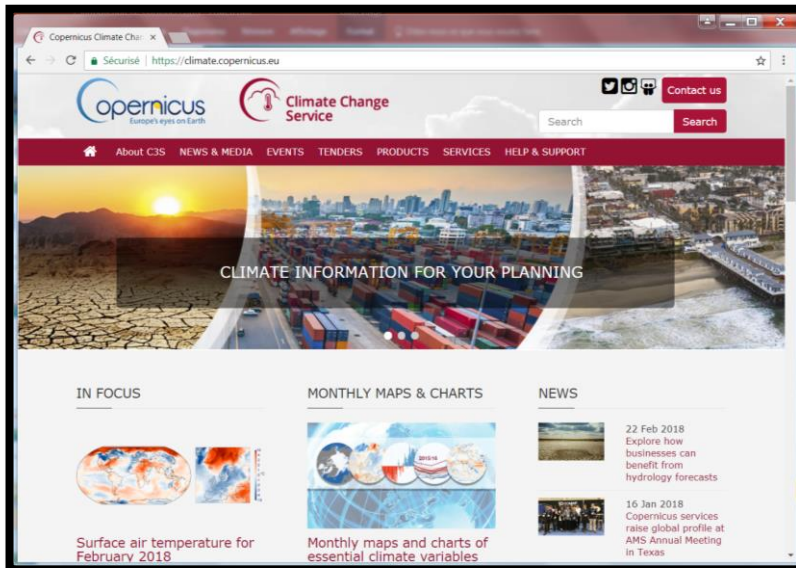
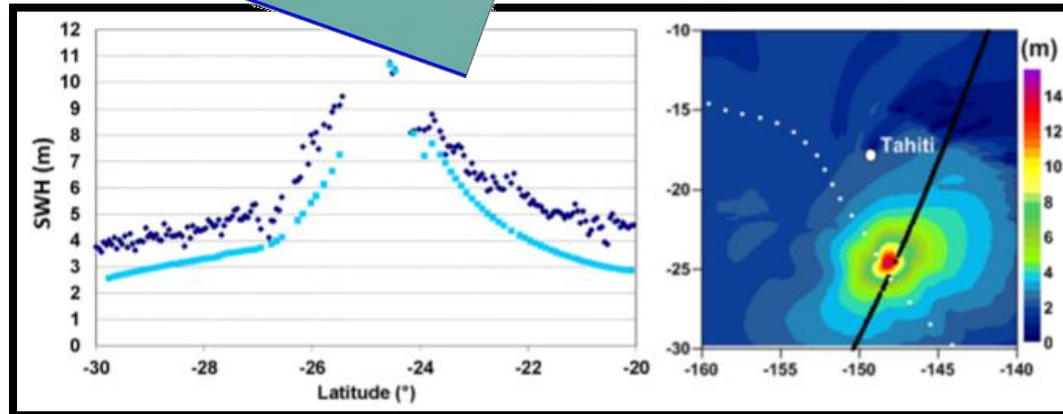


**Climate services provide the scientific information relevant for adaptation to and mitigation of climate change**

## What are climate services?



**Climate services provide the scientific information relevant for adaptation to and mitigation of climate change**



Observations  
Analyses  
Etudes de cas  
Formations  
Accompagnement...

**Research**

**Climate services**

**Adaptation  
stakeholders**

**Data portals**

**Observations**

**Databases**

**Modelling**

**Analysis**

*DRIAS, Copernicus, Sea-level ICDC*

**Tailored services**

*Focused on a public policy,  
an economic sector, an  
ecosystemic service, or a  
territory*

**Education and training**

**Coastal managers**

**Land use planners**  
*(urban planning,  
transport, networks)*

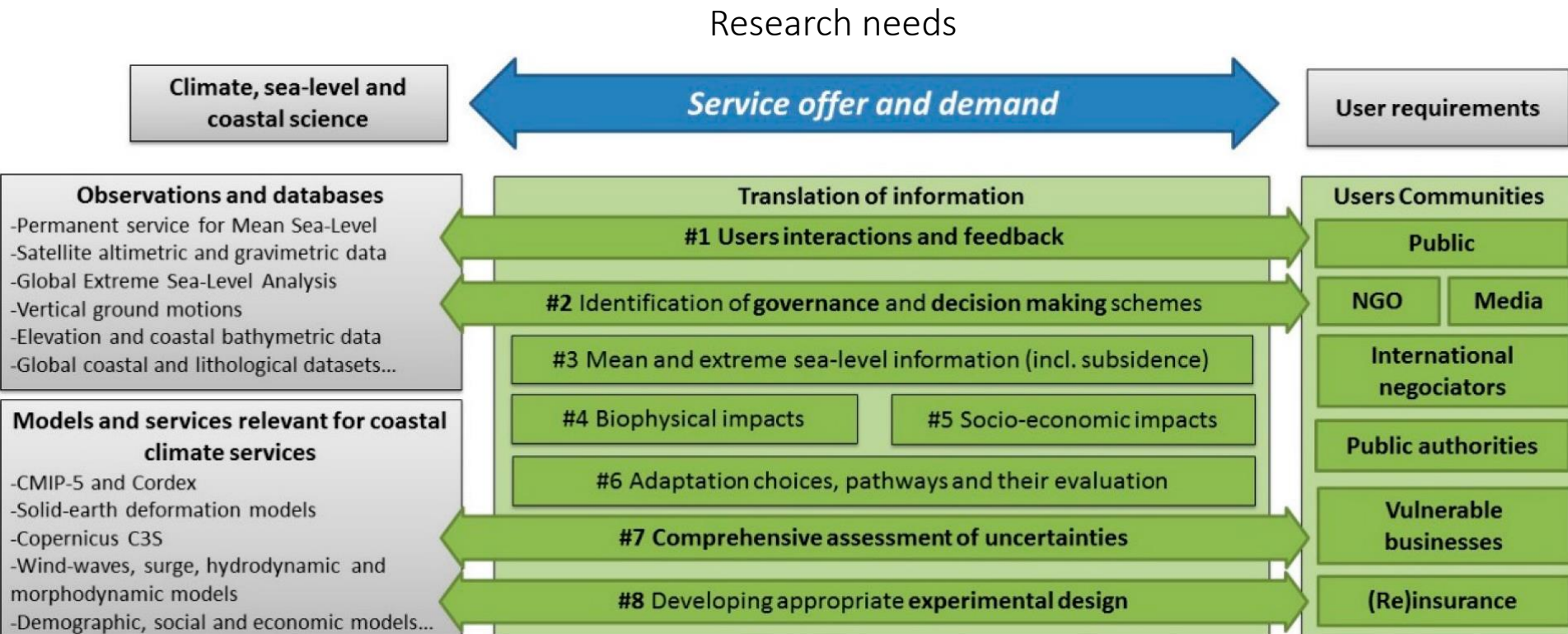
**Public, media, NGOs**

**Finance and (re)insurance**

**International negotiators**

**Estimated investment needs (excluding OECD): 60 to 300 billion euros/year by 2030  
(GIEC, 2014; UNEP, 2016)**

- From a market analysis of climate services: strongest potential for services in support to flooding risk management (Cavelier et al., 2017)
- Coastal zones are especially in need of climate services for adaptation, in particular due to sea-level rise (Le Cozannet et al., 2017)

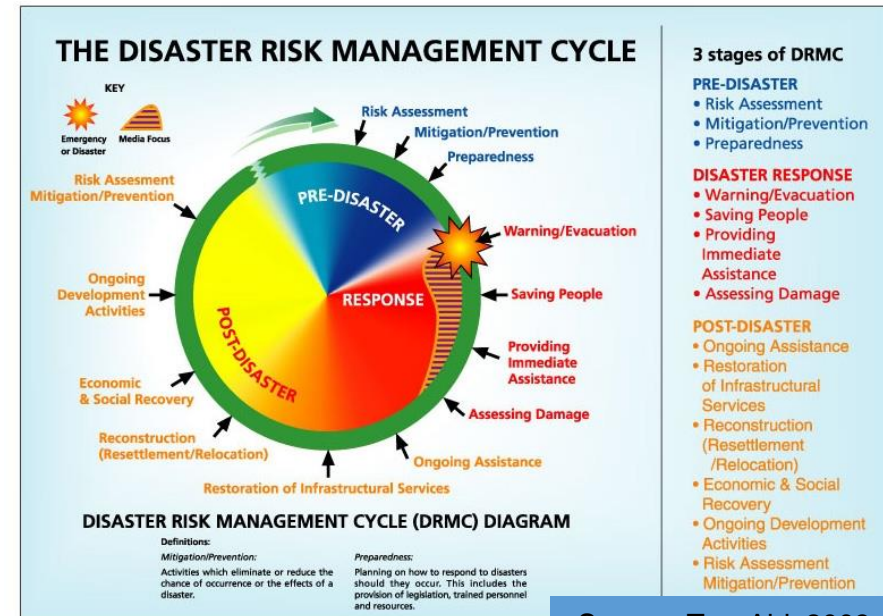
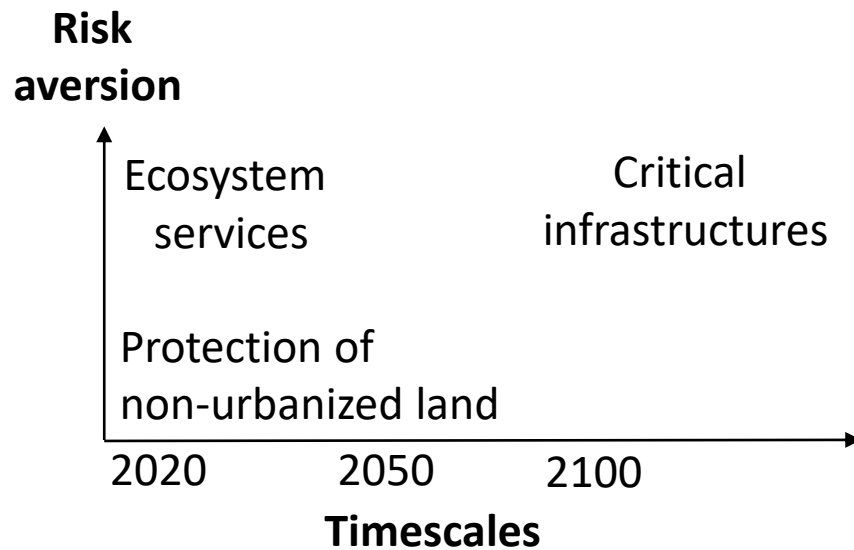




## The INSeaPTION project

# Key research questions

- Which decisions are relevant to coastal adaptation?
- What scientific information can support these decisions?



Source: TorqAid, 2003

Global

Maldives

French  
Polynesia

#1 User interactions

#2 Decision context

#3 Sea level

#4 Impacts

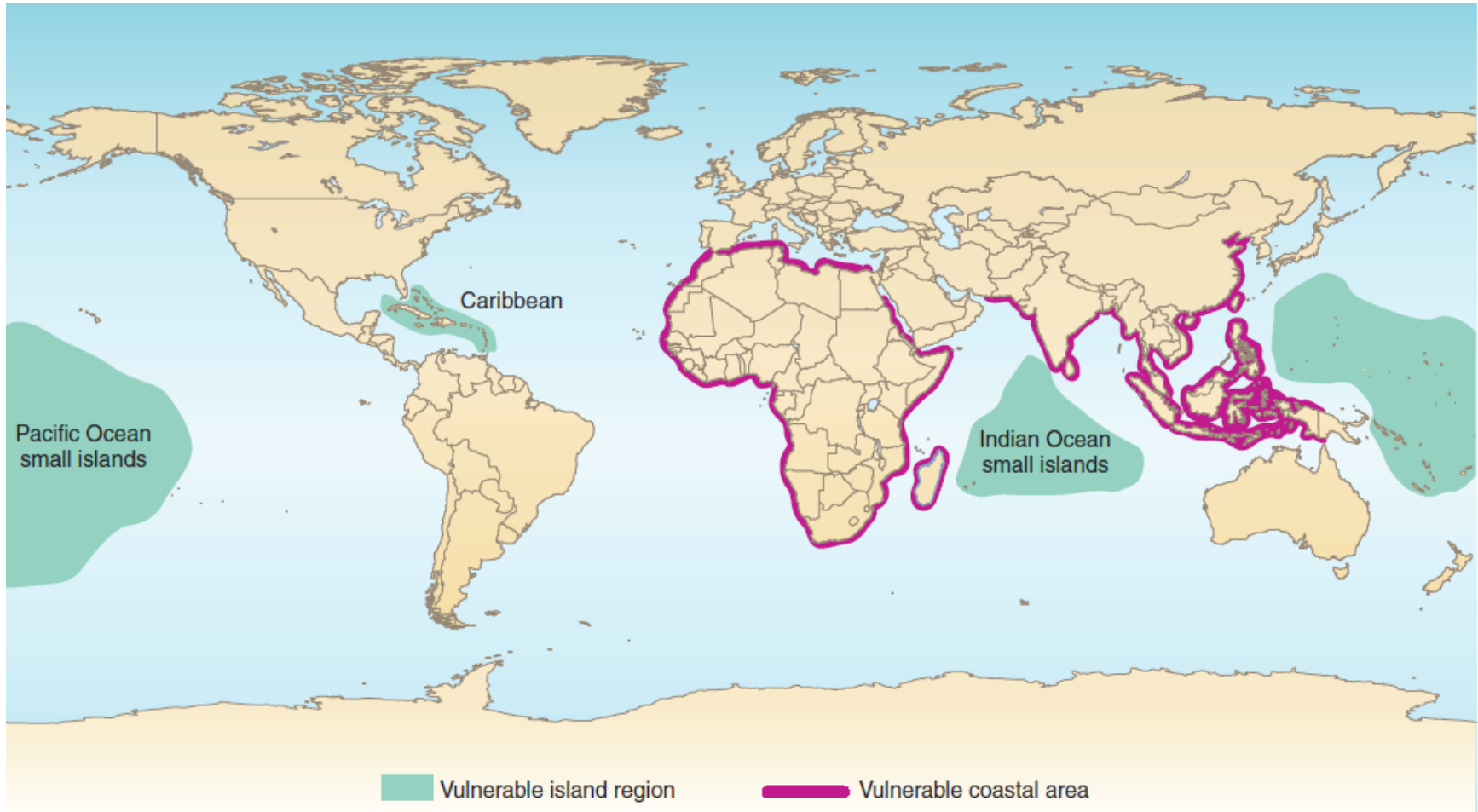
#5 Social and economic  
vulnerability

#6 Adaptation

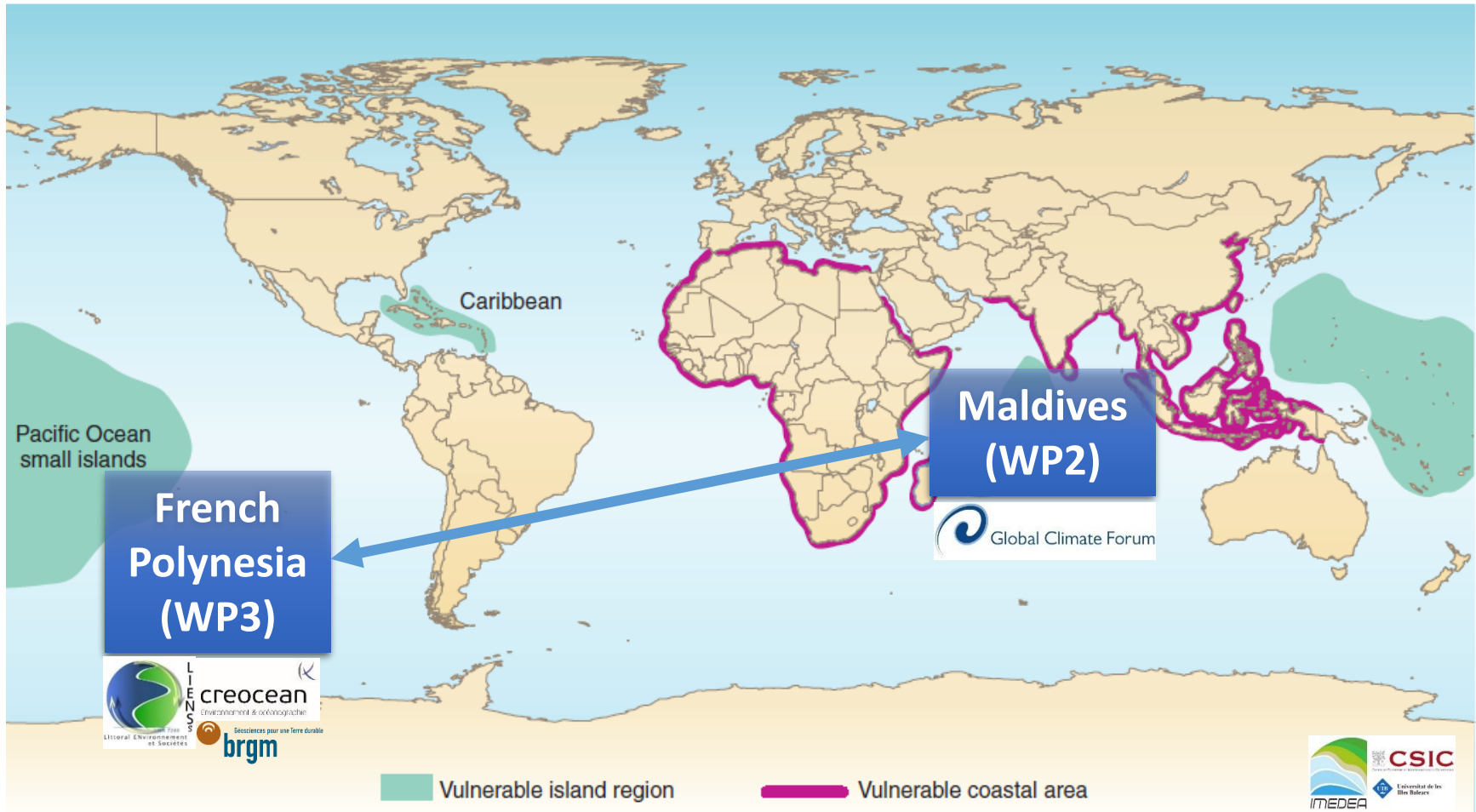
**Guidelines for setting  
coastal climate services**



- Local to regional users of coastal climate services



- Local to regional users of coastal climate services





## Research team:

- Climate and coastal sciences
- Impacts and vulnerability
- Services for adaptation
- Associated partners (e.g., Maldivian, Polynesian governments)
- Supporting stakeholders



Global Climate Forum



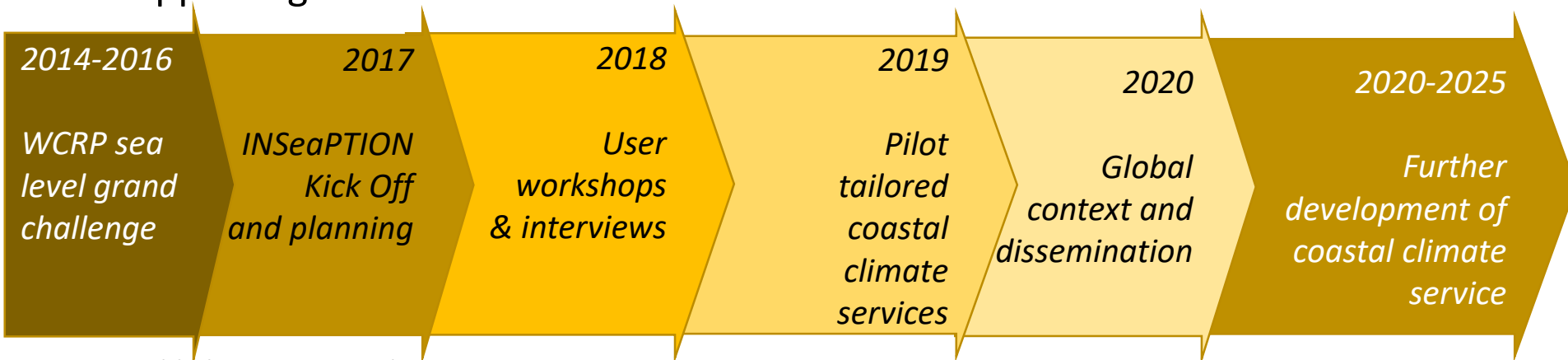
creocean  
Environnement & océanographie



brgm  
Géosciences pour une Terre durable



LIENS  
Littoral Environnement  
et Sociétés



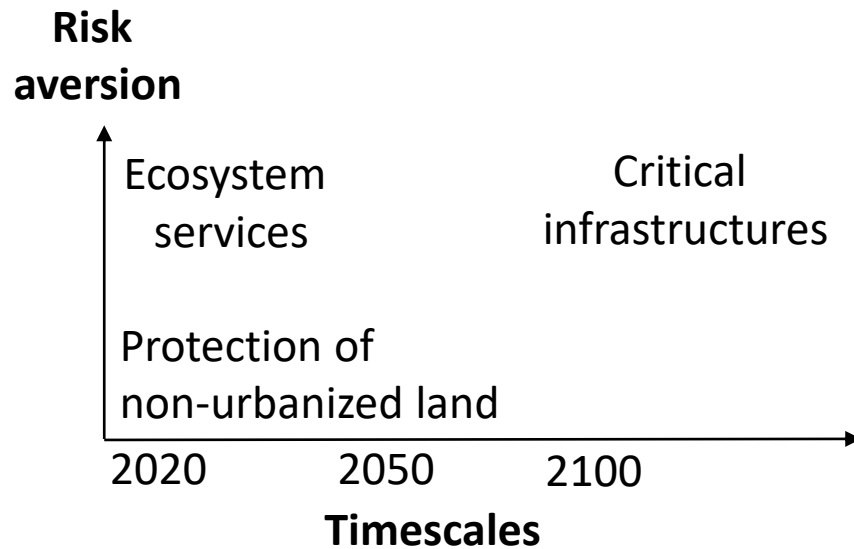
WCRP: World Climate Research Programme

## Funding

- Europe, national research agencies: 1,8M€ (ERA4CS: 72M€)
- Co-funding from project partners: 700k€
- Time of university partners

# Key research questions

- Which decisions are relevant to coastal adaptation?
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Source: TorqAid, 2003



*INSeaPTION*

*Thank you for your attention*

*Thank you for your participation*

*Many thanks to Erwin, Roderik and Sandy  
for organizing this event*

[g.lecozannet@brgm.fr](mailto:g.lecozannet@brgm.fr)



[www.inseaption.eu](http://www.inseaption.eu)



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