





# Storms & Society

**Knowledge Coproduction, Dissemination and Communication** 

DRAGANA BOJOVIĆ, EULÀLIA BAULENAS and PAJAM SOBHANI

## Content

## **Main themes:**

- What we did
- What challenges were encountered, especially regarding data
- Main result
- Any surprises?
- What we will talk about in the Storms & Science sessions

As announced in the first day:

As announced in the first day:

We did not hack...



As announced in the first day:

We did not hack...

and on top of that, we bothered you with a **survey**...



**DOBLE ESCÁNDALO!** 





https://www.surveymonkey.com/r/c4hackathon

## Storms & Society - why we need it

- 1. Because we take very seriously:
  - a. the knowledge you are creating;
  - b. climate change;
  - c. and the lack of climate action
- 2. Whilst we understand that the **scientific community** can get so far in pushing climate action

(reason for which we are also conducting research on other factors)

## Storms & Society - why we need it

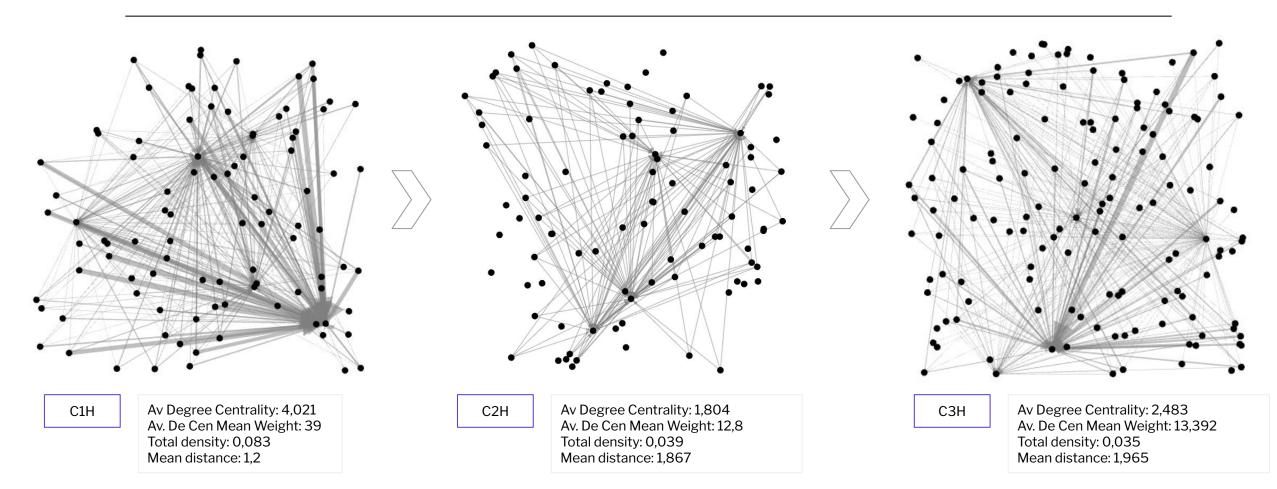
- 1. Because we take very seriously:
  - a. the knowledge you are creating;
  - b. climate change;
  - c. and the lack of climate action
- 2. Whilst we understand that the **scientific community** can get so far in pushing climate action, we work with the following assumption:

That during hackathons **knowledge** is translated into **action** at some level:

- a. maybe you push new scientific boundaries as a result of the interactions;
- b. maybe a joint article gets media coverage;
- c. maybe you join scientists for future;
- d. maybe you create a .gift that good that becomes the symbol of new ecologist movement

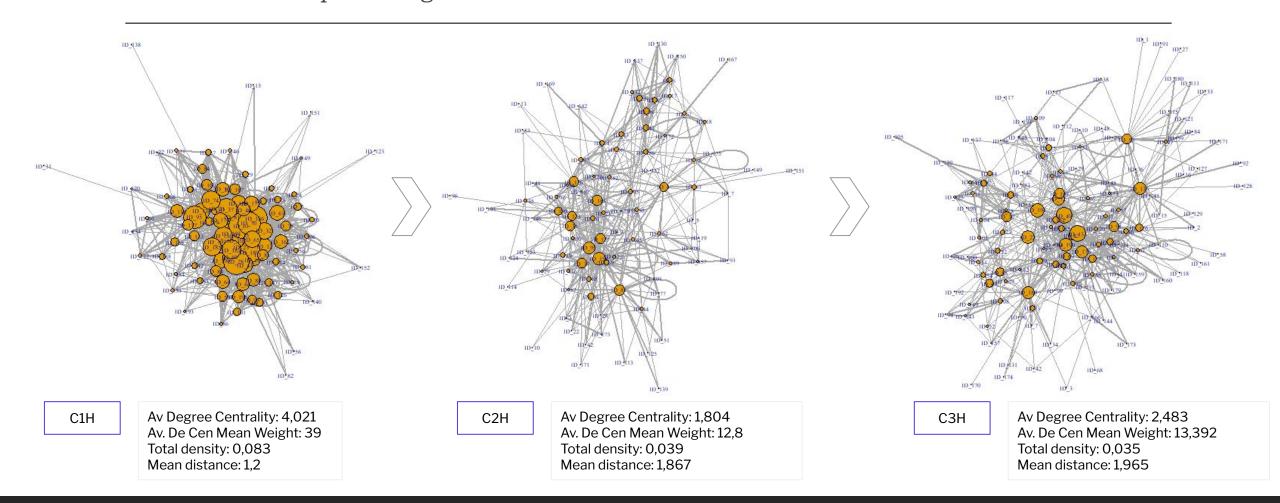
## Density

- ++ Information transmission
- Deliberation
- Resilience
- Single-loop learning Double-loop learning



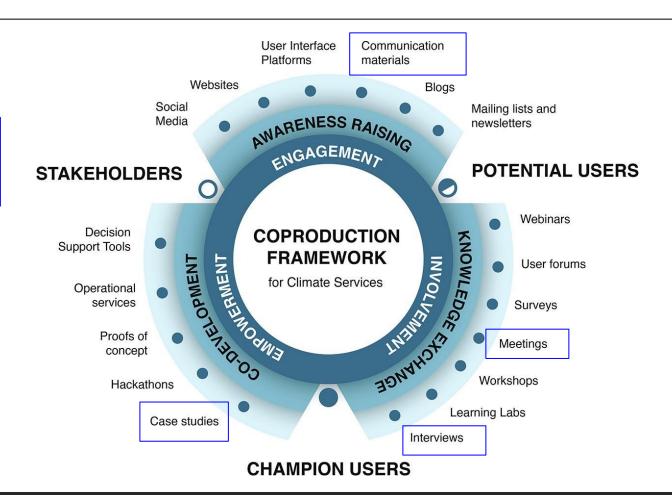
## Centrality

- Information transmission
- Deliberation
- Resilience
- Single-loop learning Double-loop learning



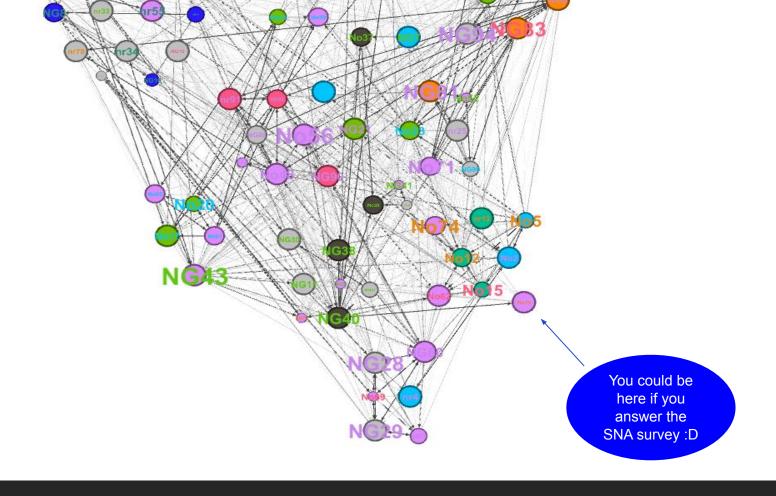
# the **co-production process**

- Science explainers
- Policy brief
- Storylines



## Storms & Society - what we will present

- **Social network analysis**: evolution of the interactions during 4 hackathons
- **Policy brief**: km-scale resolution
- **Storylines**: renewable energy supporting the next generation decision-making







# Thank you ©

## Content

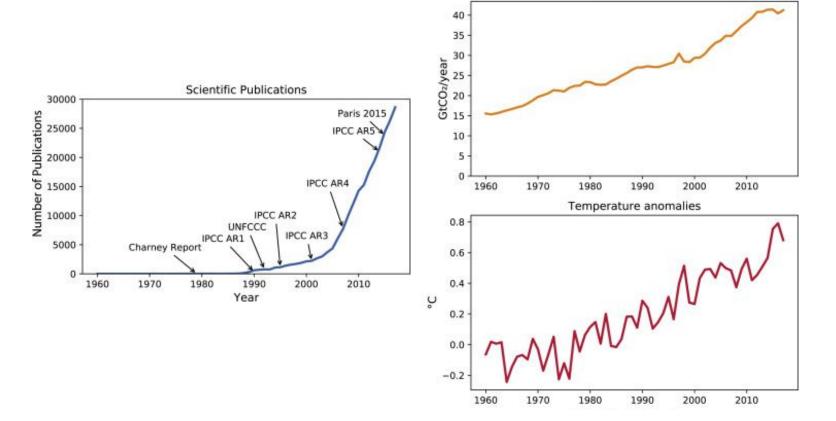
## **Main themes:**

- Storms & Society's role during the hackathon
- Science communication & dissemination
  - Science explainers
  - NextGEMS videos
- Policy brief on high-resolution modelling
- Other:
  - Storylines (for fisheries, for renewable energy)
  - Social network analysis

We do not hack...

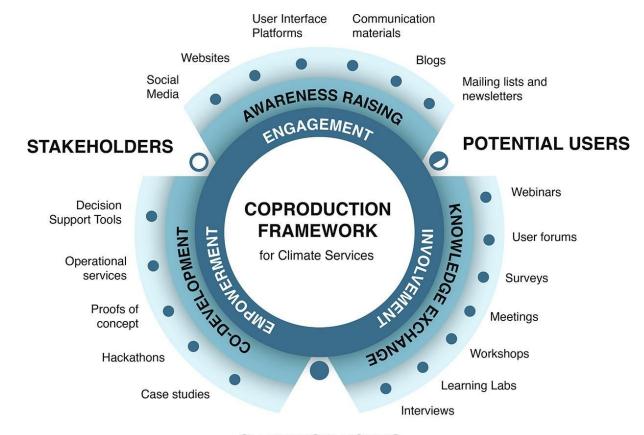
We do not hack...
but we move forward
the coproduction
process

the coproduction
process
is one of the
keystones expected
to help reduce the
knowledge-action
gap



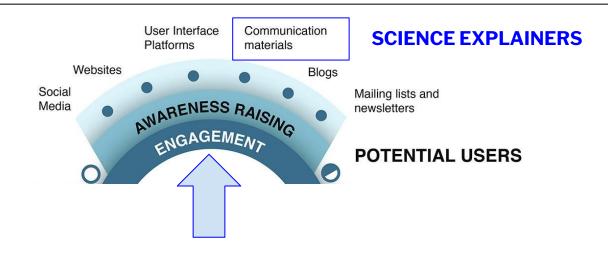
CO<sub>2</sub> Emissions

the **co-production process** 



**CHAMPION USERS** 

## Science communication & dissemination



#### **SCIENCE EXPLAINERS**

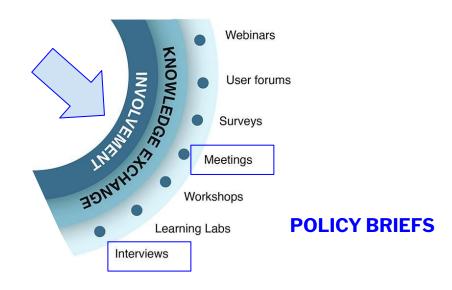
- 1-2 pager summarising your research
- Very useful to communicate in plain language and reach a wider public
- If you have 15' time to sit down for a coffee, we can build the skeleton

# Policy brief on high-resolution modelling

### **POLICY BRIEF**

- Directed towards policy makers
- Advocacy for a specific issue
- Theme of this hackathon: KM-resolution

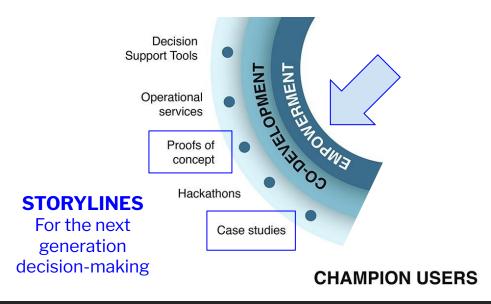
#### **POTENTIAL USERS**



## Storylines for NextGEDM

#### **STORYLINES**

- Fisheries
- Renewable energy: using NextGEMS data to support policy-making



Studying the role of knowledge networks

to help reduce the knowledge-action gap

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to help reduce the knowledge-action gap

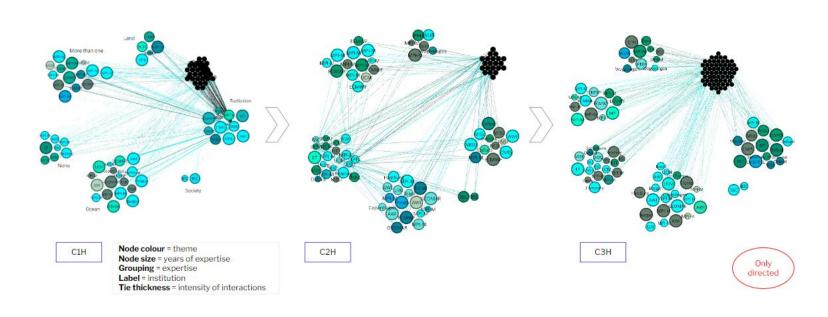
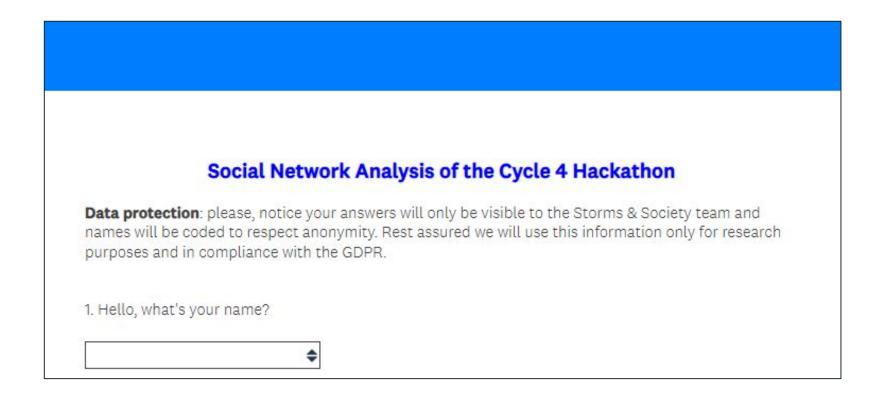


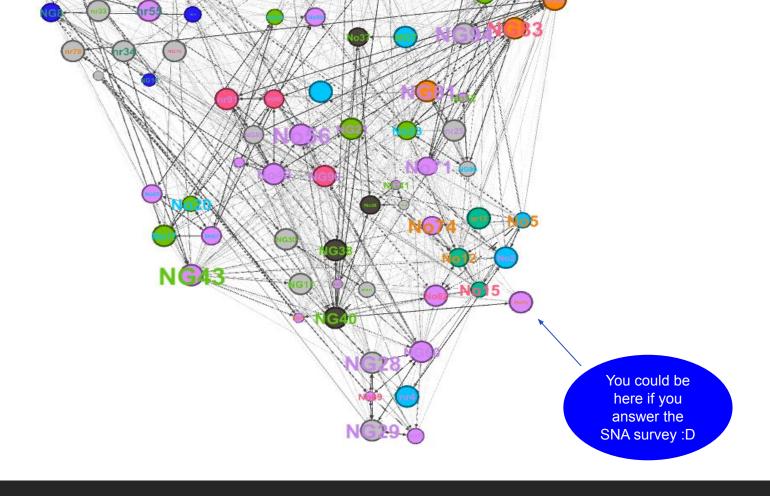
Figure: Evolution of the network across hackathons. For illustrative purposes.

What is needed to transform knowledge into action?

At the individual level and as a function of interactions in venues such as CxH

#### **Technical** International New Engagement Scientific KNOWLEDGE reports Media methods with breakthrough uptake (e.g., coverage learnt intermediate IPCC. and EUCRA) end users Soft skills New beliefs Advocacy Activism or practices gained Non-technical









# Thank you ©

## NextGEMS & Science communication

## **Complete list of science explainers:**

- Tracking fast-forming and dissipation clouds
- Knowledge networks in NextGEMS
- Scientific and technical challenges of extending a weather model for climate studies
- Understanding aerosols and clouds with storm-resolving simulations
- Tackling the biases of tropical mixed layer depth in ocean models
- Retuning the ocean vertical mixing scheme for storm-resolving models

### **Videos planned during this C3H hackathon:**

BY LATEST THINKING

- Progress videos: science explainers
- Research videos: articles published

## **Videos started during this C3H hackathon:**

BY BSC - Guillermo Marín

Results video: data-driven display of outputs

## NextGEMS society theme

The Storms & Society theme works on several fronts on this regard, as you know:























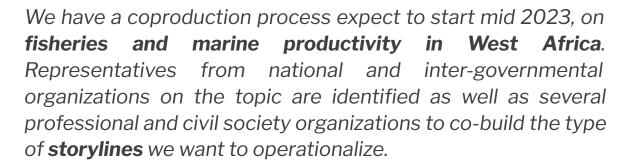












The goal is to find applications of NextGEMS output data with a special attention to marginalised stakeholders in the West African fisheries socio-ecosystem.

























