



International Collaboration and Accessible Science

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International Collaboration:

My research stay at JAMSTEC



See blog post: [Is it possible to collaborate across continents \(and cultures\) in science?](#)

A bit of context

Earth Sciences
Department



CES

Performance
team



pyhanami

My job: Earth System Models scientific skill evaluation



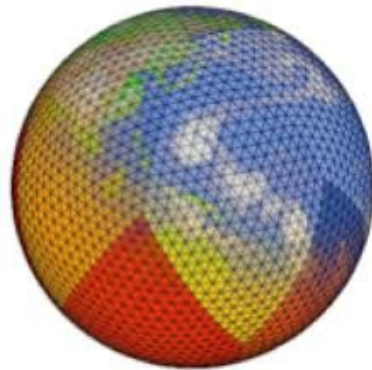
JAMSTEC 国立研究開発法人
海洋研究開発機構
Japan Agency for Marine-Earth Science and Technology

CEMA

Chihiro Kodama
& CRM-DAG



Their expertise: high-resolution models + extreme weather events



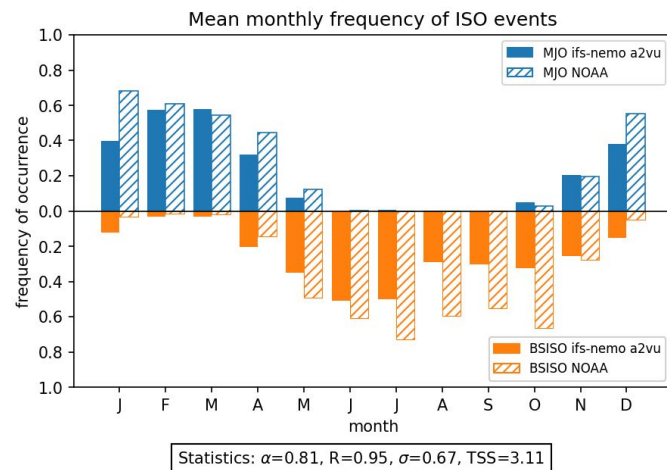
Impact on HANAMI and my research

Many **in person** discussions: with researches within and outside HANAMI

Big impact on my research: new diagnostics and research connections

Strengthen **collaboration**: continued in touch with the researchers

Dissemination in new scientific spaces: JpGU Meeting 2025, Workshop at Kobe, CEMA monthly seminar



Last thoughts

One big challenge: getting there ... (bureaucracy)



But it was **worth** every hurdle!

Special thanks to: Chihiro Kodama and all researchers
at CRM-DAG (JAMSTEC) & Kai Keller (BSC)



Accessible Science:

Turning research into real-world impact

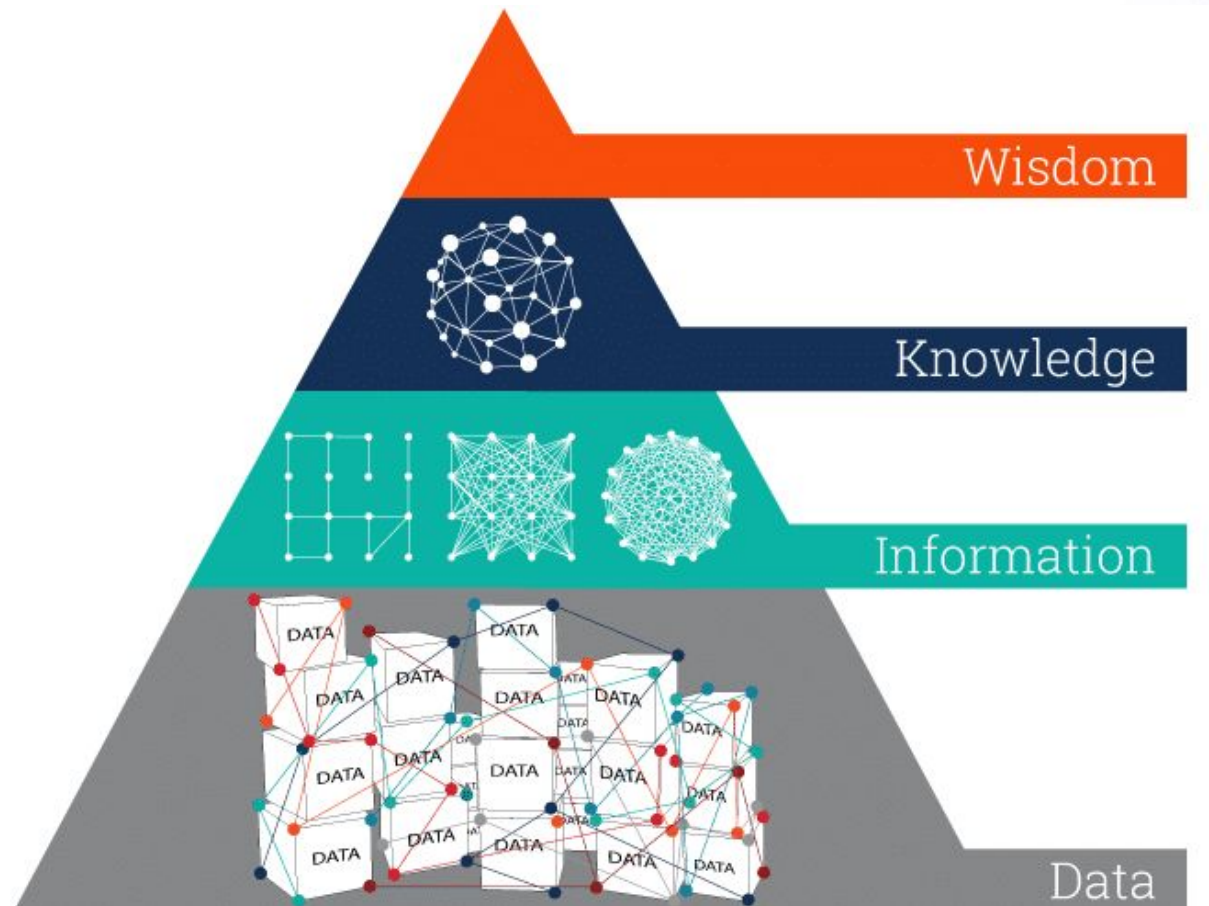
The Gap between researchers and society

We generate more data than ever, why does so little reach society?



Why data is not enough?

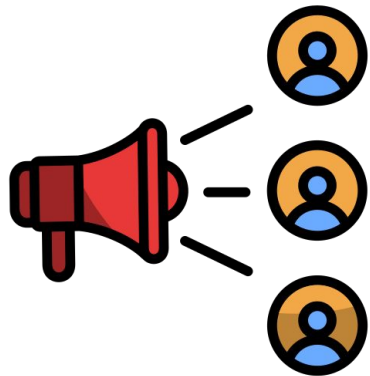
Data has little meaning without **context** or **interpretation**



The importance of Accessibility

Science Accessibility: practice of making scientific information, research findings, and technological innovations available to a broad audience, including policymakers, community members, educators, and individuals with diverse backgrounds and abilities.

Accessibility is **beneficial** work:

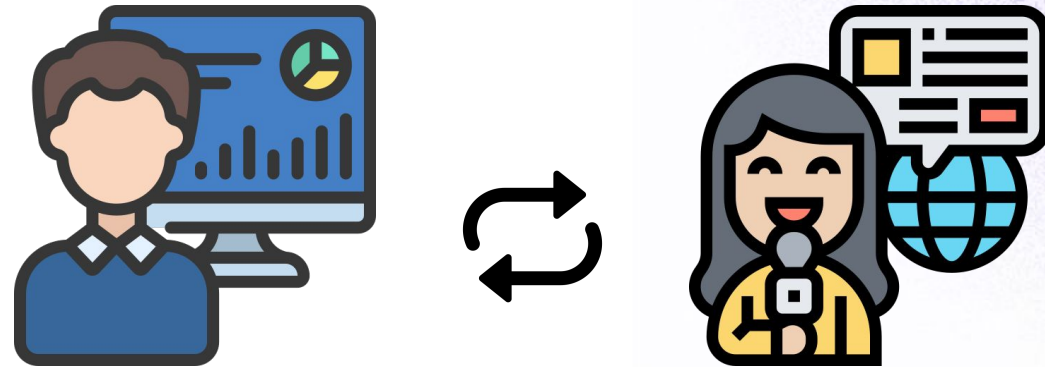


Institutions are demanding **social impact**, not just scientific output.

Where does the responsibility lie?

Not every researcher must be a communicator, but **institutions must have people who are:**

- Interdisciplinary teams
- Services teams
- Outreach units
- UI and UX specialists

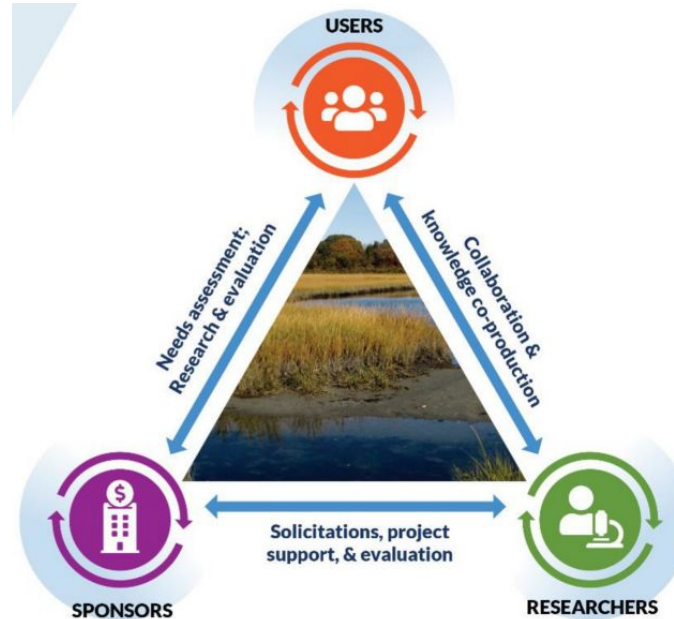


How to bridge the gap

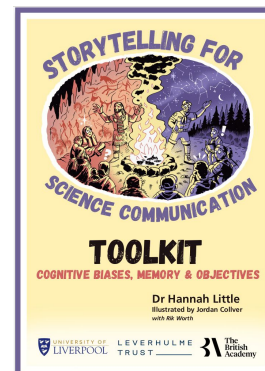
We sometimes lack the tools:

- Co-production
- Tell a clear story
- Choose what to show
- Think about the audience
- Keep inclusivity in mind

If you want to go deeper:



[C.DiCenzo et al., 2021](#)



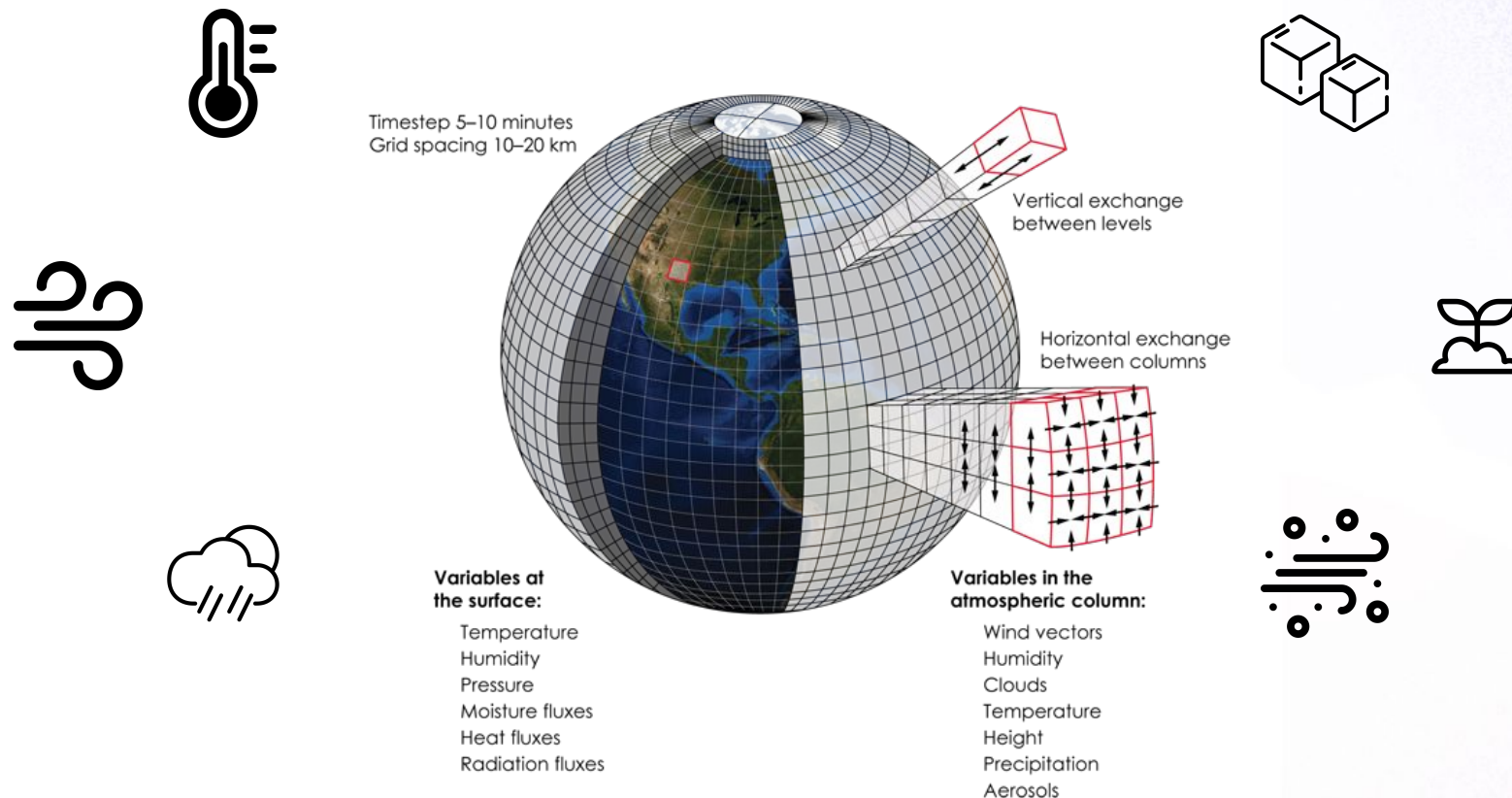
[Dr. Hannah Little, Jordan Collver, Rik Worth](#)



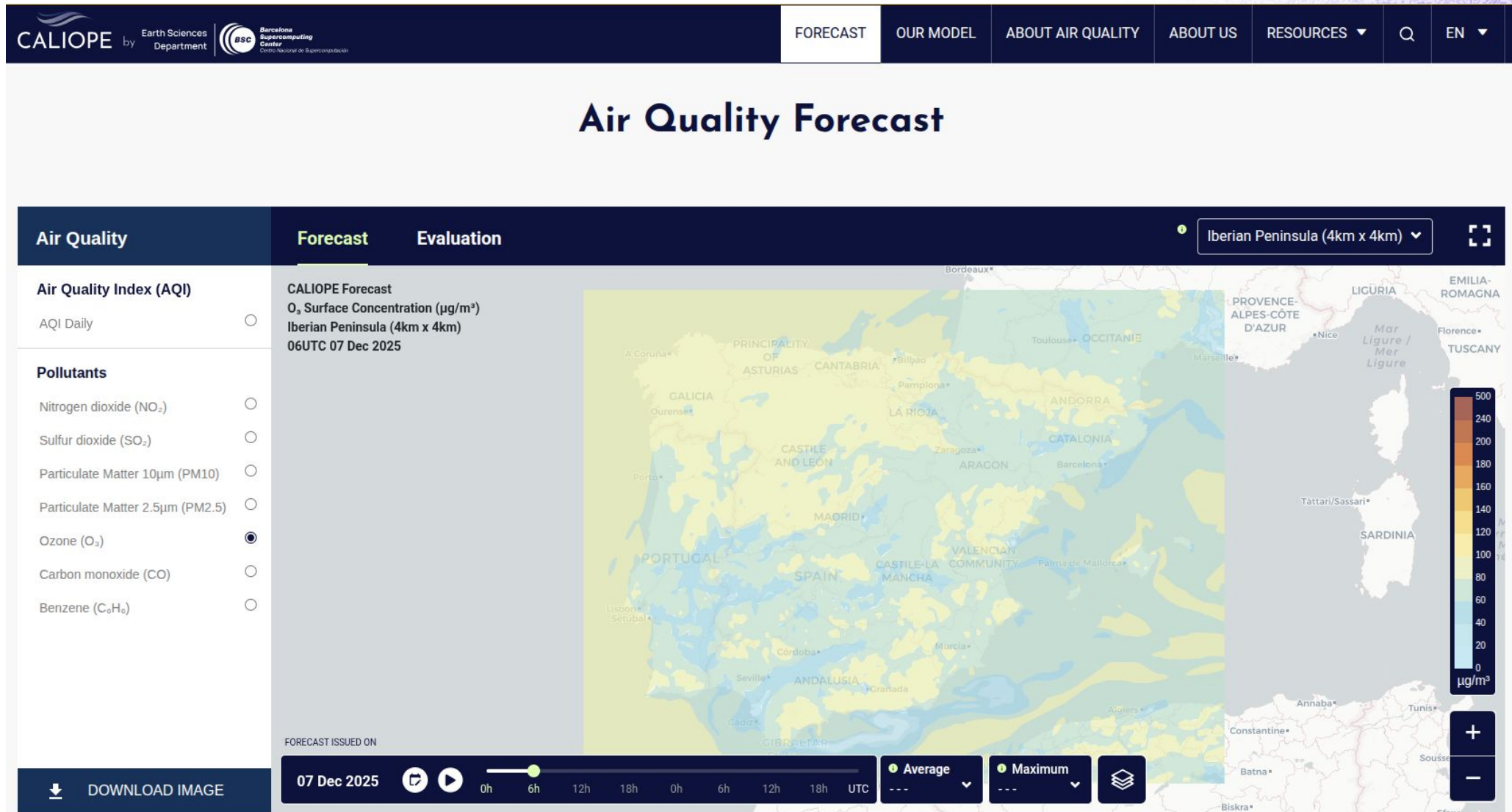
[British Council Ireland](#)

Use case: Climate Science

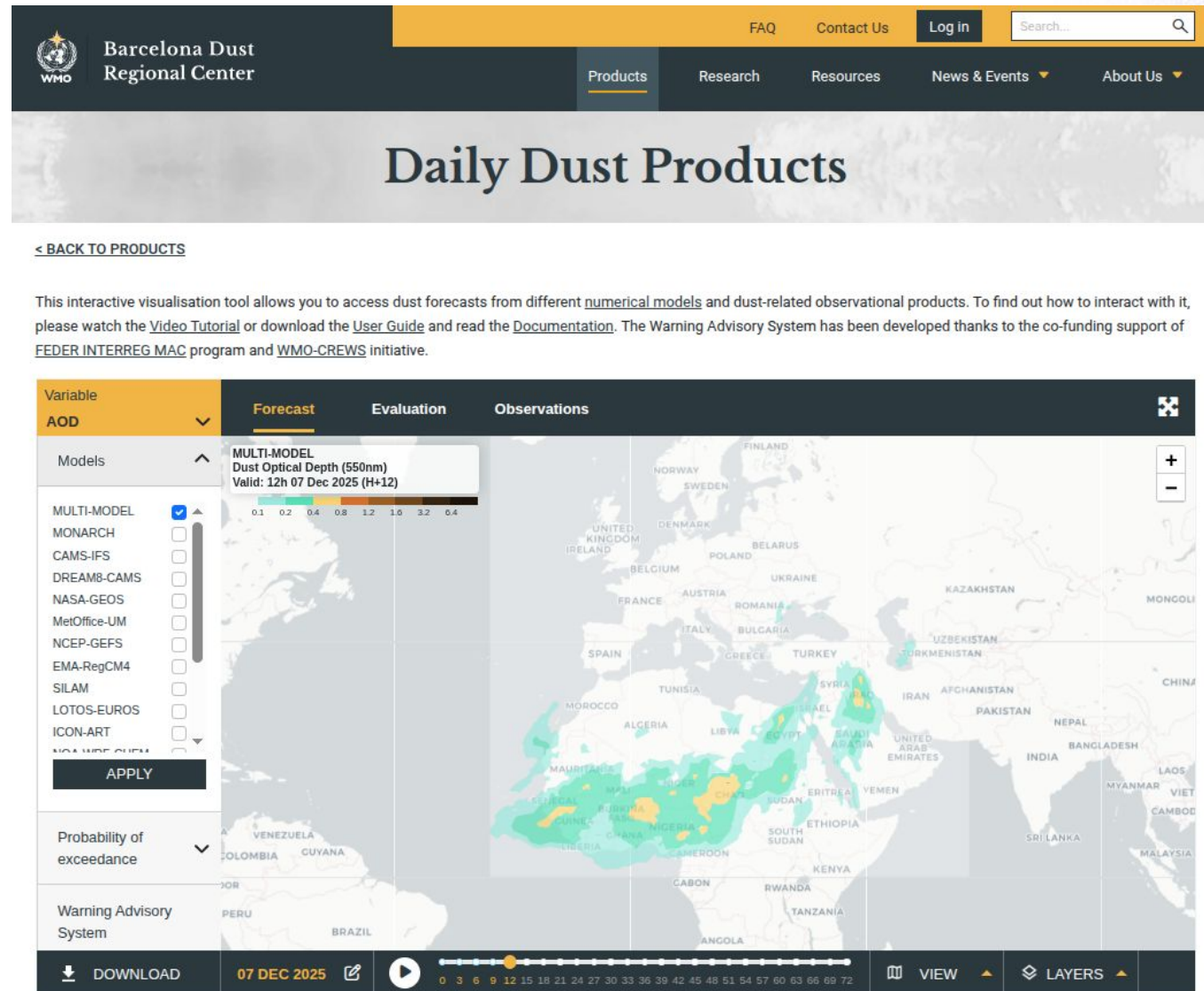
We can simulate tons of variables ... but users only need a few **actionable indicators**



Use case: Air Quality Forecast



Use case: Daily Dust

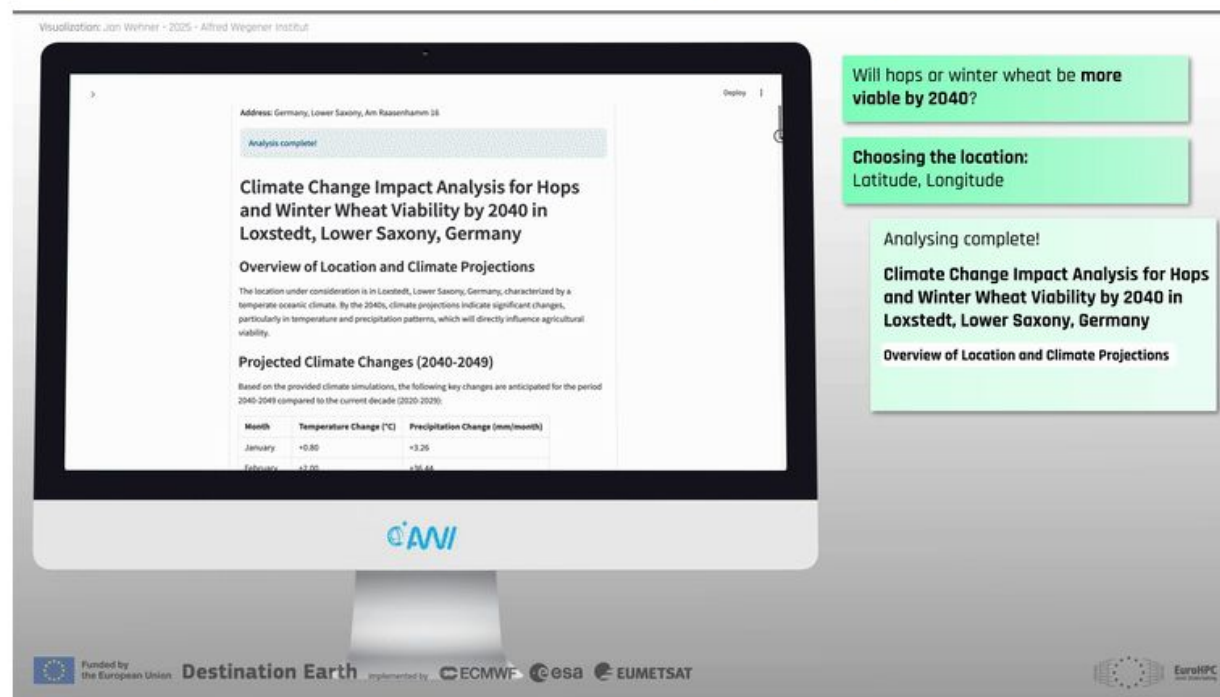


Use case: Taking advantage of AI

ClimSight

ClimSight is an advanced tool that integrates Large Language Models (LLMs) with climate data to provide localized climate insights for decision-making. ClimSight transforms complex climate data into actionable insights for agriculture, urban planning, disaster management, and policy development.

The target audience includes researchers, providers of climate services, policymakers, agricultural planners, urban developers, and other stakeholders who require detailed climate information to support decision-making. ClimSight is designed to democratize access to climate data, empowering users with insights relevant to their specific contexts.



Use case: Viticulture

Warning over 'extremely low' wine production in Europe due to bad weather

Industry body head warns there is 'no vaccine' against climate change and winemakers must adapt with 'urgent necessity'



Pinot Meunier grapes are harvested on a vineyard in West Sussex on 12 October, 2021, as world wine production is expected to fall to one of its lowest levels on record. Photograph: Andrew Matthews/PA



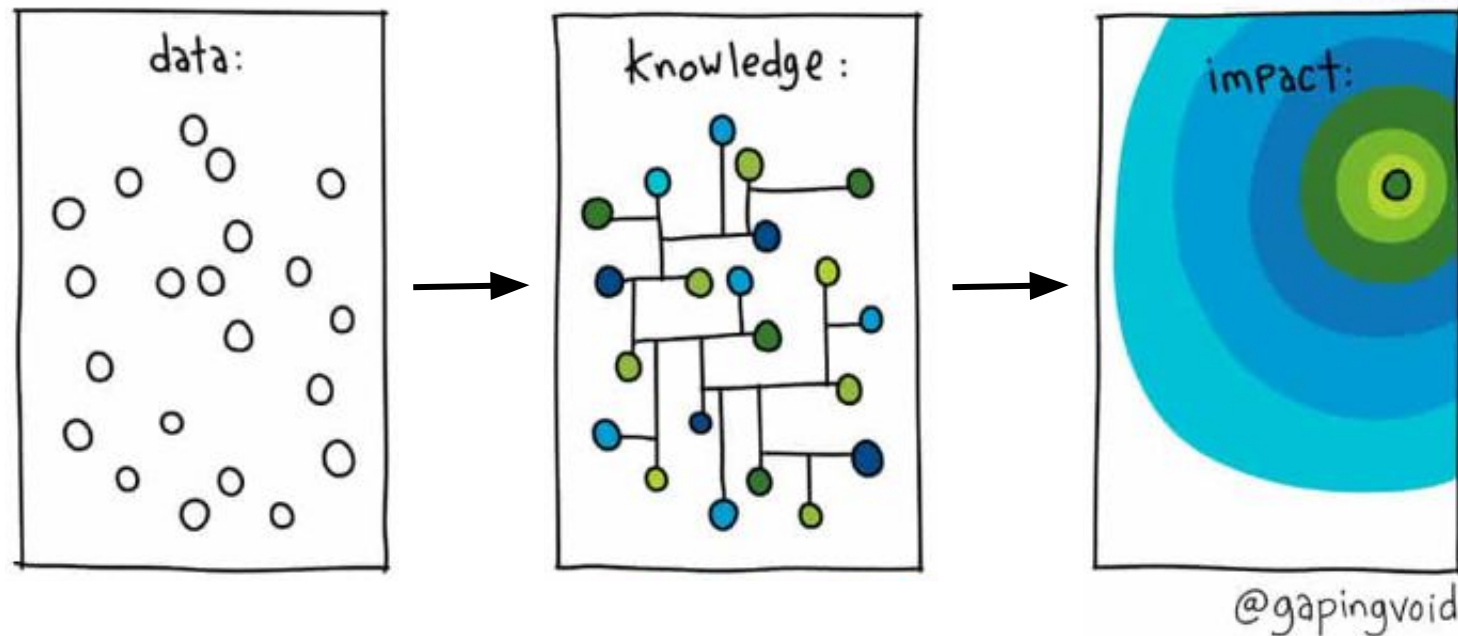
**Vineyard innovative tools based
on the integration of Earth
Observation services and in-field
sensors**



VitiGEOSS interdisciplinary consortium was made up of **9 partners from 4 European countries**:
4 research institutions, 2 technological companies and 3 wine producers

Take home message

Data becomes valuable only when we turn it into **knowledge**



Special thanks to: Clàudia Huertas, Inés Martin del Real & Paula Checchia (ESS, BSC)



ありがとうございます , thank you!

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