Knowledge co-production in the Arctic and beyond

Lessons from APPLICATE





In a nutshell



Develop enhanced predictive capacity for weather and climate in the Arctic and beyond and determine the influence of Arctic climate change on Northern Hemisphere mid-latitudes, for the benefit of policy makers, businesses and society.



Participatory framework for knowledge co-production



Empowerment

Case studies Policy briefs



Engagement

Website
Social media
Communication materials

Involvement

User Group meetings
Blog Polar Prediction Matters
EU-Polar Cluster
Workshops
Conferences
Early-career scientists

Adapted from Bojovic et al. (under review) and WMO's guidance for good practices for climate services user engagement (2018)

Knowledge exchange





USER GROUP

Focus group technique

To collect and analyse qualitative data in a guided discussion among a small and diverse group of stakeholders.

Representatives from APPLICATE target groups:

- **Key:** Business and governmental stakeholders in the Arctic within and outside the EU
- Primary: Scientific community, meteorological and climate national services, NGOs and local communities
- Secondary: Business stakeholders from mid-latitudes



















Knowledge exchange



USER GROUP MEETINGS



WORKSHOP ORGANIZATION/INTERACTION IN CONFERENCES



BLOG POLAR PREDICTION MATTERS

https://blogs.helmholtz.de/polarpredictionmatters/



EU-POLAR CLUSTER

Joint event at Arctic Circle 2019



COLLABORATION WITH ECSs

APECS-APPLICATE-YOPP Online course 2019



05

Co-development





CASE STUDIES

Societal relevance

- Identified by stakeholders for being relevant for their activities (User Group, collaboration with projects)
- Interest in knowing the causes of the event
- Interest in knowing the predictability of the event

Policy relevance (planning)

- Impacts on the society and economy
- Explore attribution
- Identify research gaps
- Build narratives/storylines on how this type of event would look like under plausible futures



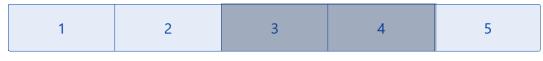
Lessons learned from UG interactions

Lesson	Why?
Involve users as project partners	UG involved on a voluntary basis. Limited involvement and difficult for users to justify their time. Need to offer something else
Prioritize face-to-face interactions at conferences	Challenging to organize meetings with the whole UG due to different time zones. Face-to-face meetings at conferences and during GAs were prioritized, but less frequent
Keep scope flexible but with sufficient scientific support	Not clear what the project could offer at the beginning. This limited stakeholders' understanding. Scientific support can make intermediaries' work easier.
Case studies for storytelling and engagement	Case studies analysing events from the past were useful to illustrate how weather, climate and sea ice information can be relevant



Feedback from the User Group

1 How satisfied are you with the engagement with the User Group conducted in APPLICATE?



Unsatisfied Very satisfied

Being part of the APPLICATE User Group has helped you to...





Feedback from the User Group

Need more meetings

Nothing can replace faceto-face meetings and work

More inperson meetings would have been helpful Suggest to have more online meetings on regular basis

Our group is small enough to meet more regularly by Zoom

Need more information/ guidance

Still need more info about how to fully utilize opportunities arised from APPLICATE work

Quarterly or bi-annual reports summarising research progress/findings/publi cations in the various workgroups would be helpful APPLICATE work for User Group

Sometimes we need

There is a need

for more detailed

information about

outcomes of the

Sometimes we need technical support to understand how to get required information about climate change research and data for example on the portal

Dissemination efforts

I feel we could have done some information sessions in US Forums about the work that would amplify the work.

Positive aspects

I learned much about what is going on in Europe and more ways we can collaborate with new AI analysis I see that there are more inteersting information on the website. Regular emails from APPLICATE, updates etc.

Communication has been very good

I was delighted to join the group and to come to Barcelona

Thank You!

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WWW.APPLICATE-H2020.EU

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