

World Climate Research Programme

My Climate Risk: Inverting the construction of climate information

1st Forum – RFP South America











WCRP New Structure











My Climate Risk



Lighthouse Activities

- Major experiments, high-visibility projects, or infrastructure building blocks
- Activities that truly integrate the capabilities (scientific, technical, infrastructure) across WCRP and with partners.

My Climate Risk

- To develop a new framework for assessing and explaining regional climate risk to deliver climate information that is meaningful at the local scale.

Our ambition











My Climate Risk



Vision

The new science that is envisaged within MCR is not around models, or observations, or process understanding, but on how they are all used together within a context of deep uncertainty.



Goal

To develop and mainstream a 'bottom-up' approach to regional climate risk, which starts from the decision context (and the decision scale) and enables relevant climate information to be brought into that context.



Purpose

By developing a new framework for assessing and explaining the physically plausible climate drivers of regional climate risk, climate information will be made meaningful at the local scale.

Our ambition









My Climate Risk



Science Plan

- ✓ The overall goal of *My Climate Risk* is to develop new paradigms for regional climate risk assessment studies, e.g., through distilling generic vs. context-specific aspects.
- ✓ The key to this is process understanding of the variability/change of regional climate and climate extremes on targeted timescales, within a particular local context.
- ✓ My Climate Risk will largely draw on existing stakeholder engagement studies that have already generated knowledge on stakeholder needs, working closely with locally grounded partners.
- ✓ A canonical activity would be to discuss current risk in a given situation, with proximate explanations, and then develop storylines of future climate-related risk based on those explanations. In this way, the past can be related to the future within a risk framing.

Vision







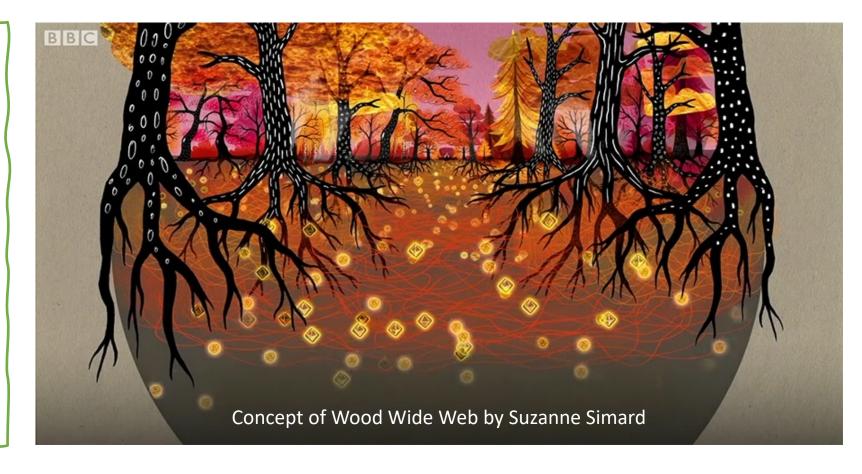


My Climate Risk



Structure – Labs

A non-hierarchical ecosystem of labs/communities of practice; like a mycorrhizal network, sharing resources rather than competing for them, and anchored by 'mother trees' in the form of regional hubs



Vision











My Climate Risk

VINTAGE SCHUMACHER



Small is Beautiful

A Study of Economics as if People Mattered



Structure – Labs

From E.F. Schumacher's concept of "Intermediate Technologies" (a chapter in *Small is Beautiful*, 1973), production methods should be:

- ✓ used in workplaces located where people live now (rather than forcing them to migrate)
- ✓ cheap
- ✓ relatively simple
- ✓ using local materials and mainly for local use

In our case, we are producing *information*, so can draw on the worldwide storehouse of information through the entire **WCRP**

Challenges









My Climate Risk

Lack of Continuity



The project cycle mode of operation and the competitive nature of the science funding model

Stakeholder Exhaustion



Repeated engagement from researchers which serves only the researchers

Documenting Outcomes



Challenges in documenting outcomes and in publishing transdisciplinary work

Equity and Legitimacy



"...inequitable North–South partnerships [are] borne out of a paradigm of knowledge deficit and capacity development that runs the risk of entrenching existing inequalities....Creating frameworks that enable the establishment of equitable partnerships requires a shift in perspectives on, and processes related to, the design, implementation and evaluation of success." Vincent et al. (*Nature Climate Change*, 2020).

Next Steps









My Climate Risk



Network of regional hubs



Grow network of *regional hubs* based on and driven by
existing institutions who share
values with MCR

The *regional hubs* should support and connect local labs and would be represented on the MCR science team, providing the connection to the rest of the WCRP

Connections to the *regional hubs* would be nurtured through a variety of mechanisms, including training, to develop trust and build long-term, equitable partnerships

Next Steps





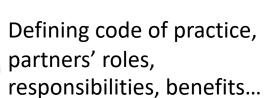






My Climate Risk

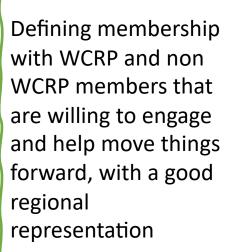
Terms of Reference



Partnerships

Welcoming partners that share MCR values

Science Team







Discussion









My Climate Risk

South America

We need *your engagement* to work with us as partners (Hubs) sharing the same principles

MCR

Ensuring the *involvement of end users* and their local needs from the start of the process, i.e., a bottom-up approach to deliver science in usable decision ready format

Questions?

- What are the knowledge gaps in SA?
- How can we deliver the information that is needed?
- Are there examples of bottom-up practices?



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