Joint YESS-YHS Early Career Researcher (ECR) Workshop

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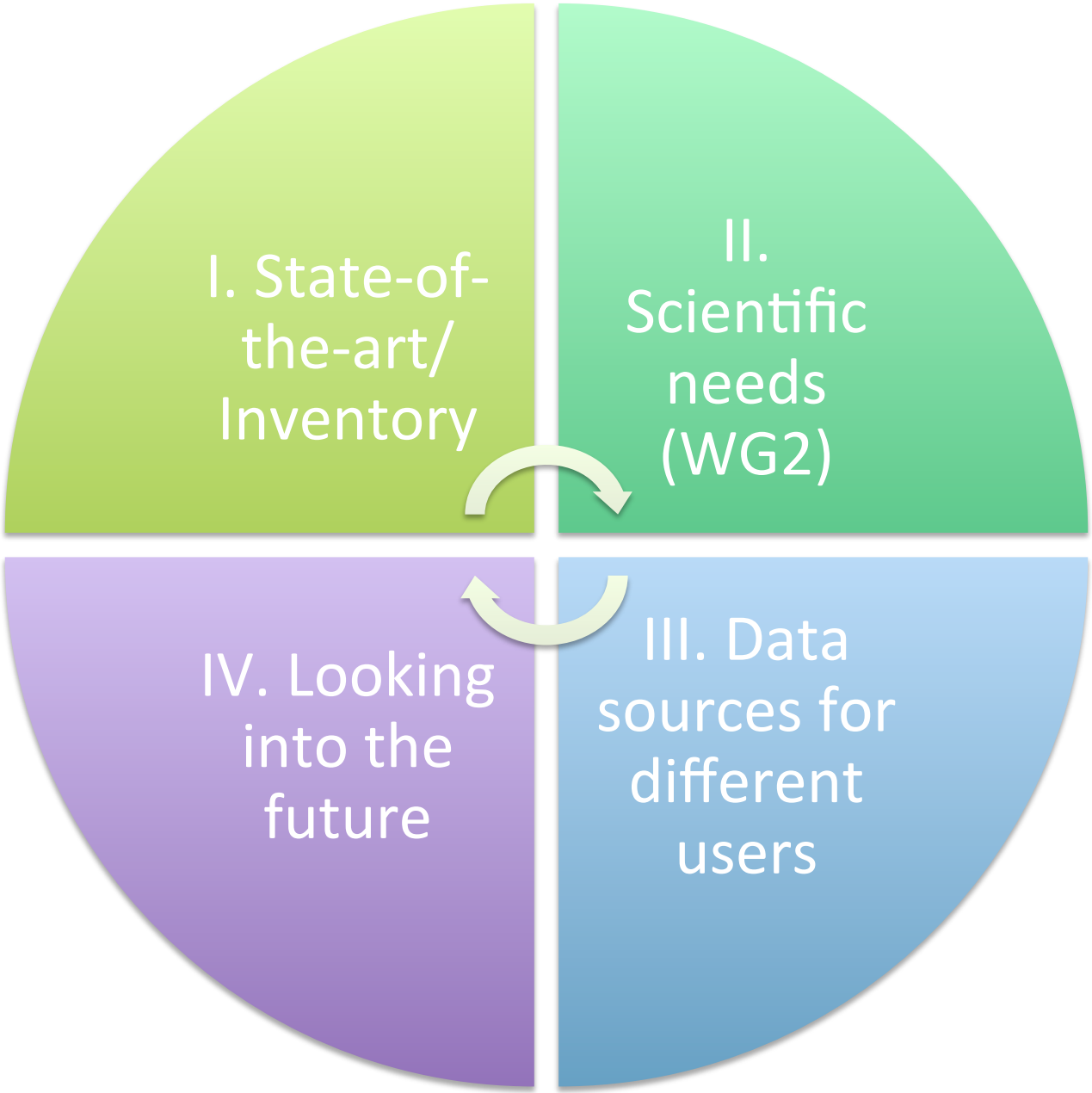
WG 1 – Exploring data sources

Usage of conventional and unconventional data, and new technologies to provide improved better weather, water, climate, land and biogeochemical data services

WG aims

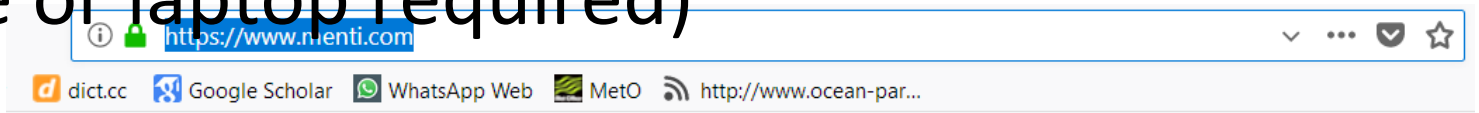
1. Define a structure for the white paper section
2. Collect and structure the content
3. Provide an inventory of currently available data sources and joint data generation collaborations/efforts between scientists from different fields
4. Identify current problems with data sources that limit scientific progress
5. Define future work necessary to ensure the effective communication between scientists of different fields to coordinate data generation and collection.

WG I – Areas of research questions



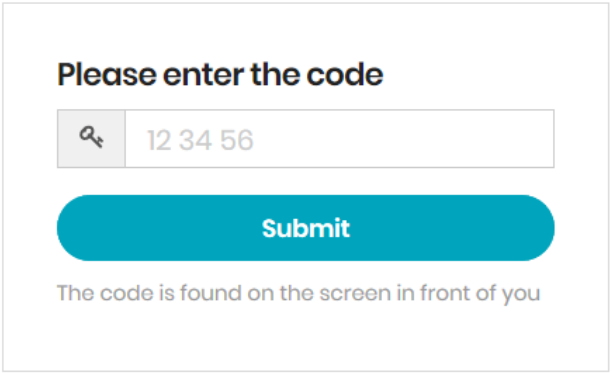
WG I – logistics

- Split up into two subgroups WG1a/1b
- We prepared question to kick-start discussions
- Online tool menti.com to collect answers (phone or laptop required)



Mentimeter

- Volunteer for minutes?
- Missing questions?



I. State-of-the-art/ Inventory

a. What are extreme events and what data is necessary to characterize them?

b. What data is currently available and how is it made available?

c. Open source vs. commercial sensitive?

d. What joint data generation efforts between scientists from different fields are available/ongoing/completed?

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II. Scientific needs

a. Where are gabs (temporal/spatial) in currently available data that prevent scientifically solid conclusions?

b. How can model output improve the current state of knowledge about extreme events (downscaling/upscaling)?

c. What do we want to achieve with more and precise data?

d. How can we improve communication and collaboration between different fields of research?

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III. Data sources for different users

a. Which end users is currently available data tailored to? How can the method of supply data or data produced in future be optimised to increase its impact?

b. Whose responsibility is it to provide data that is missing to inform general public?

c. How can we coordinate and ease access to relevant climate/weather/impact information?

d. How can we improve (observation) systems currently in place detection and attribution of weather, water and climate extreme events? Is it necessary/feasible?

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IV. Looking into the future

a. How can we incorporate new data sources/streams into the existing models? What are the challenges, what can be gained?

b. What are new emerging fields of research, due to advancing technology and/or changing climate?

c. What sort of new, maybe unconventional, data sources are currently available? Which ones need to be explored in more detail? Which ones need to be used more extensively?

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