GFOI Global Forest Observations Initiative

R&D Exchange: Uncertainty quantification and reporting

Lead partners

AUSTRALIA

CEOS

esa

Federal Ministry for Economic Cooperation and Development

Food and Agriculture Organization of the United Nations

FOREST CARBON PARTNERSHIP FACILITY

GREEN CLIMATE FUND

Norwegian Ministry of Climate and Environment

UK Government

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What are R&D Exchanges?

- A **series of online events** designed to foster discussion on evolving forest monitoring methods and their applications in national forest monitoring systems.
- A **dynamic platform** for interactions between the GFOI community and the forest monitoring research community
- **Topics addressed previously:** Forest disturbance alerts, Tropical Wetland Monitoring & Forest degradation monitoring
- **Interested in presenting your experience using new methods/datasets/tools in these events?** Please contact the GFOI Office (GFOI-office@fao.org)

CALM: Supporting the effective communication of research

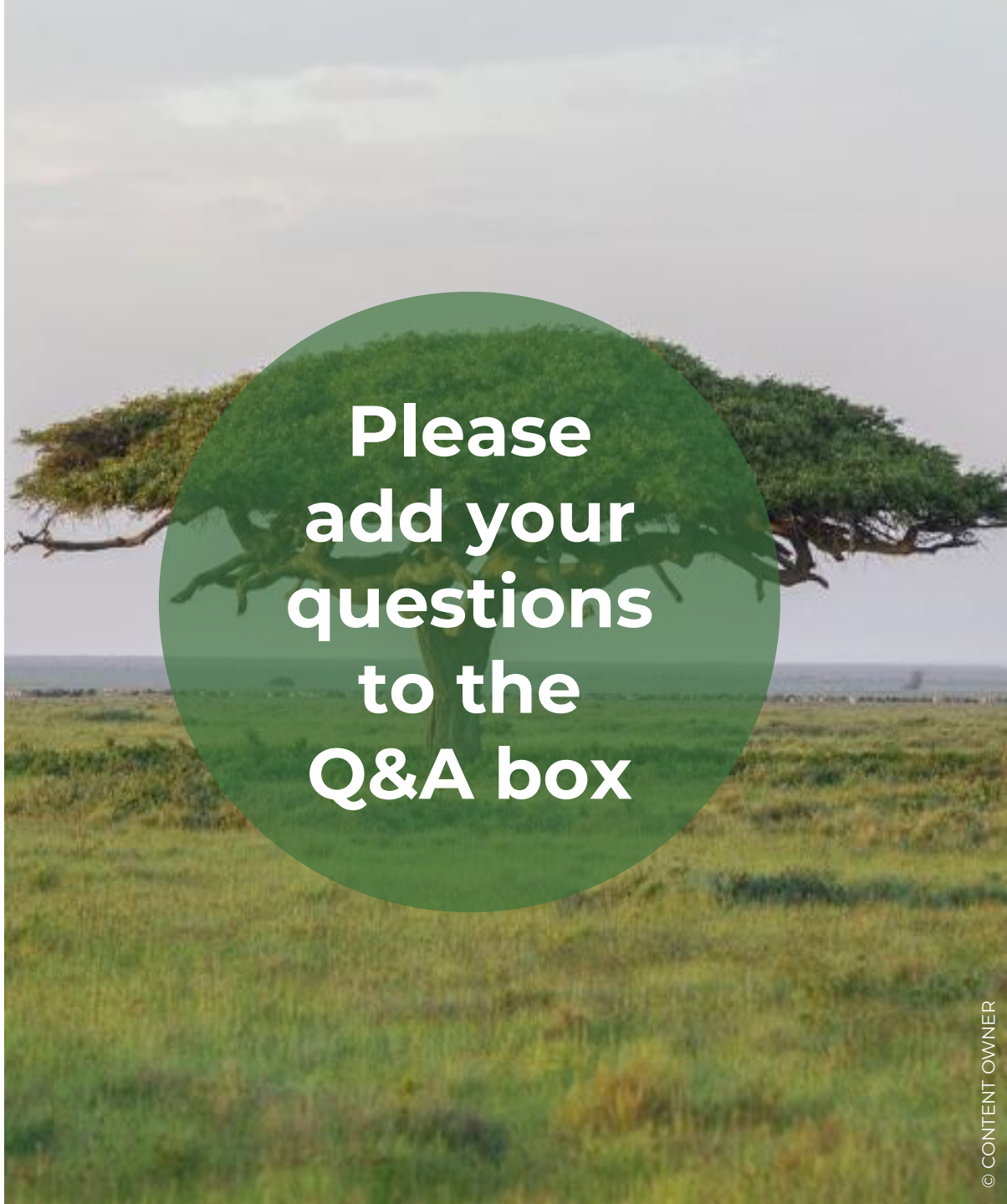
- GFOI Criteria for consistently assessing levels of maturity:

https://gfoi-rd.gfz.de/CALM_GFOI

Phase	Level
Research	1. Basic Research
	2. Application Concept
	3. Proof of Concept
Pre-operational	4. General Planning in external context
	5. Specific Planning in relevant environment
	6. Demonstration in relevant environment
Operational	7. Adopted in operational context
	8. Application completed and qualified
	9. Operational deployment and use

Today's agenda

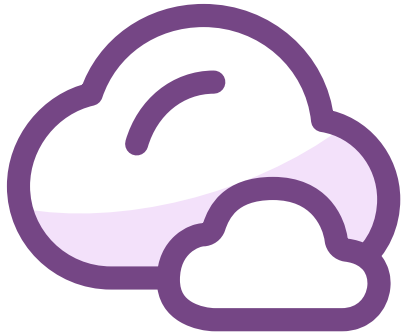
1. **Introduction to today's session**
2. **The importance of uncertainties in forest monitoring** -Javier García Pérez (Gamarra) (FAO)
3. **Communicating uncertainty using Earth Observation** (CALM: Research level) - Robert Kennedy (Oregon State University)
4. **On design-based, model-assisted, and model-based forest carbon estimation and uncertainty assessment approaches** (CALM: Pre-operational level) - Chad Babcock (University of Minnesota)
5. **{mocaredd}: A Monte Carlo Tool and its application** (CALM: Pre-operational level) - Gael Sola (FAO)
6. **Q&A, feedback and closing remarks**



Questions for the audience

Join at slido.com
#2140367

1. How familiar are you with uncertainty quantification and reporting for forest and land monitoring?



2. When you hear "uncertainty quantification" what is the first word that comes to mind?

3. Why do you think it is important to quantify and communicated uncertainty in forest and land monitoring?