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 from the audience

Please add your questions to the Q&A box

1. In your experience, what is the biggest barrier to addressing uncertainty in national forest monitoring systems?

2. What area of uncertainty quantification requires the most R&D attention to support national-level reporting? (Multiple choice)

3. What topic(s) would you want for us to discuss in upcoming R&D Exchanges?

GFOI Global Forest Observations Initiative

Preliminary feedback on uncertainties for R&D

R&D Uncertainties Team

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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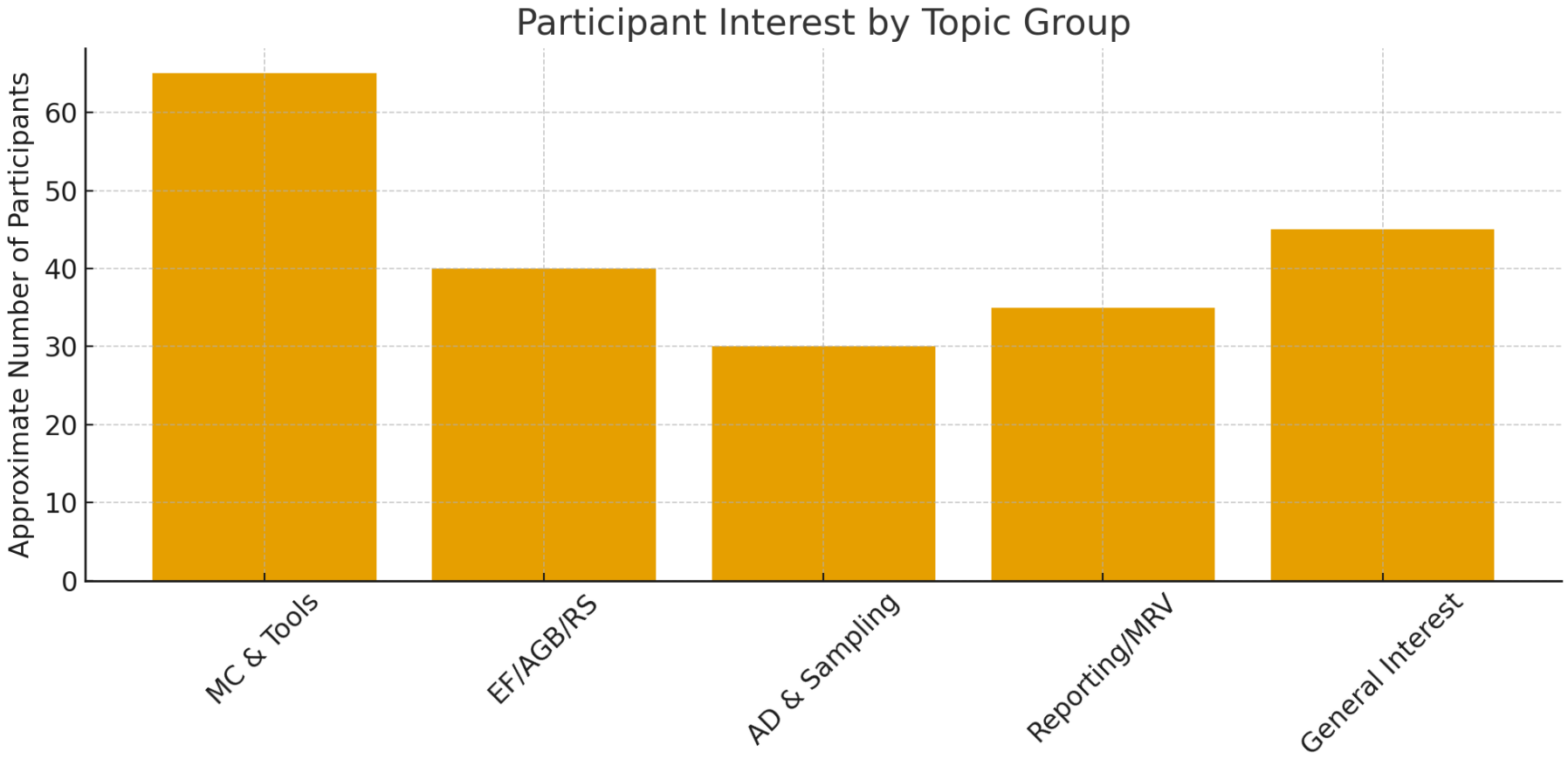
The GFOI Office is financed by the Governments of Norway and the United Kingdom

The registration survey

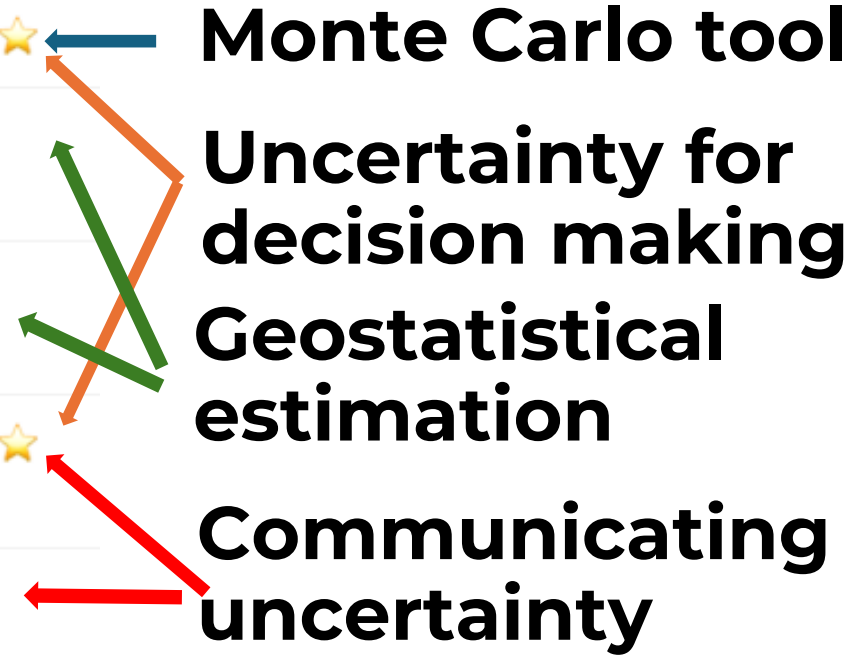
250 registered people



The registration survey

Group	Topic	Approx. Count	Importance
1	Monte Carlo + tools + propagation	60–70	⭐⭐⭐⭐⭐
2	EF, AGB, remote sensing, forest carbon	35–45	⭐⭐⭐⭐
3	AD, sampling, NFIs, land representation	25–35	⭐⭐⭐⭐
4	Reporting, MRV, guidelines, decisions	30–40	⭐⭐⭐⭐⭐
5	General interest, basics, misc.	40–50	⭐⭐⭐

(Counts are approximate but reflect careful reading of all responses.)



Identified uncertainty gaps for future GFOI R&D

1. Map-based uncertainty quantification workflows
2. Standardized MC workflows and “tool ecosystem”
3. Guidance for uncertainty in forest degradation
4. Sampling design optimization under uncertainty
5. Harmonizing national vs project-level uncertainties
6. Communication materials for decision-makers
7. Land representation uncertainty

Thanks for your participation

- **Slides and Recording will be made available soon**
- **Interested in presenting your experience in these events?**

Please contact the GFOI Office (GFOI-office@fao.org)