



 Federal Ministry
Republic of Austria
Agriculture, Forestry, Regions
and Water Management

Future international forest damage/disturbance monitoring, assessment and reporting

Stefanie Linser, University of Natural Resources
and Life Sciences, Vienna

Assessing Forest Damage and Disturbance

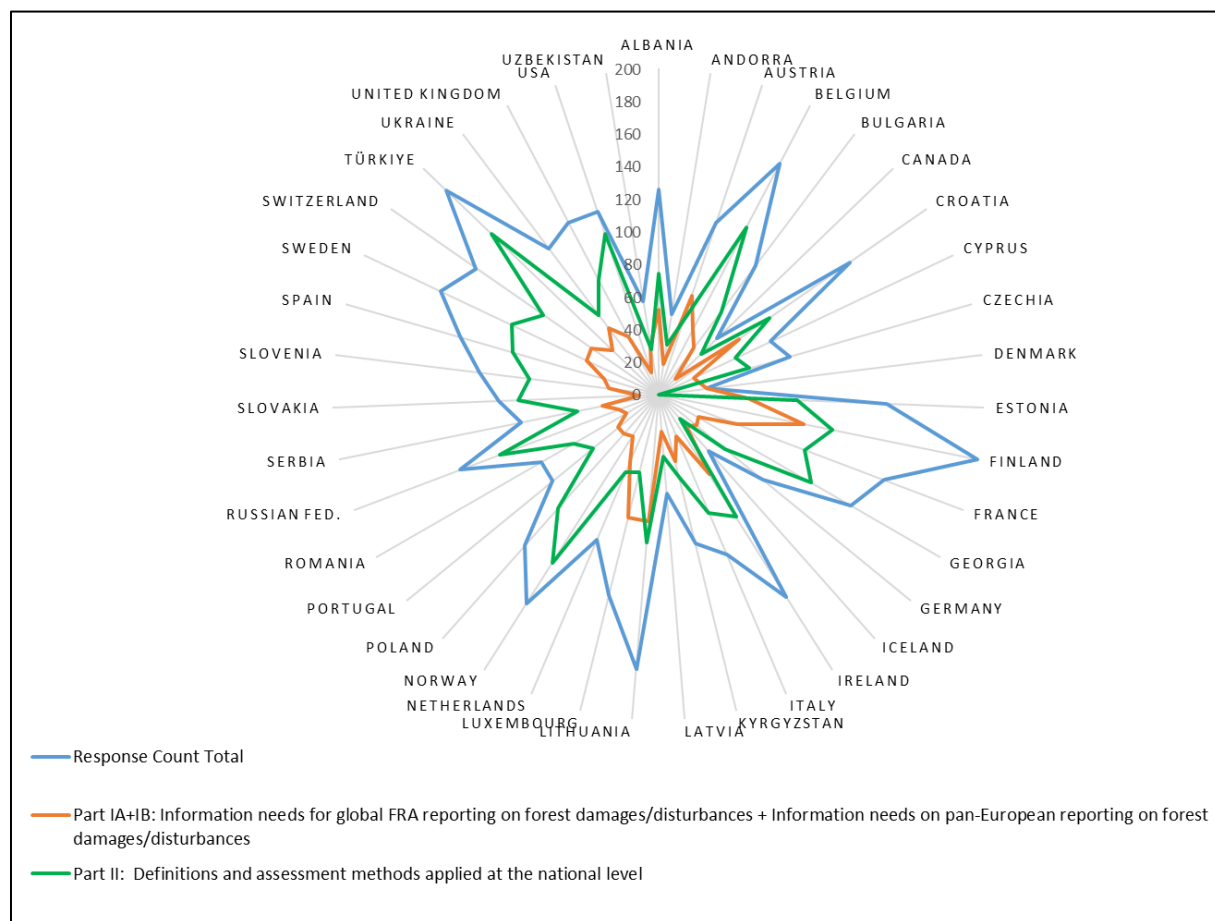
Scientific-Technical Symposium jointly organized by UNECE, FAO and
the Austrian Federal Ministry of Agriculture, Forestry, Regions and
Water Management

University of Natural Resources and Life Sciences Vienna, Austria
29-30 September 2022



Questionnaire on forest damage/disturbance

- **Elaborated by the ToS**
- **Sent to all 56 UNECE NC in September 2021**
- **50 Questions on**
 - Information needs for Global FRA and FE reporting
 - Damage/disturbance monitoring at national level
- **39 responses from countries covering 98% of UNECE forest area**



Information needs for Global FRA reporting

Status

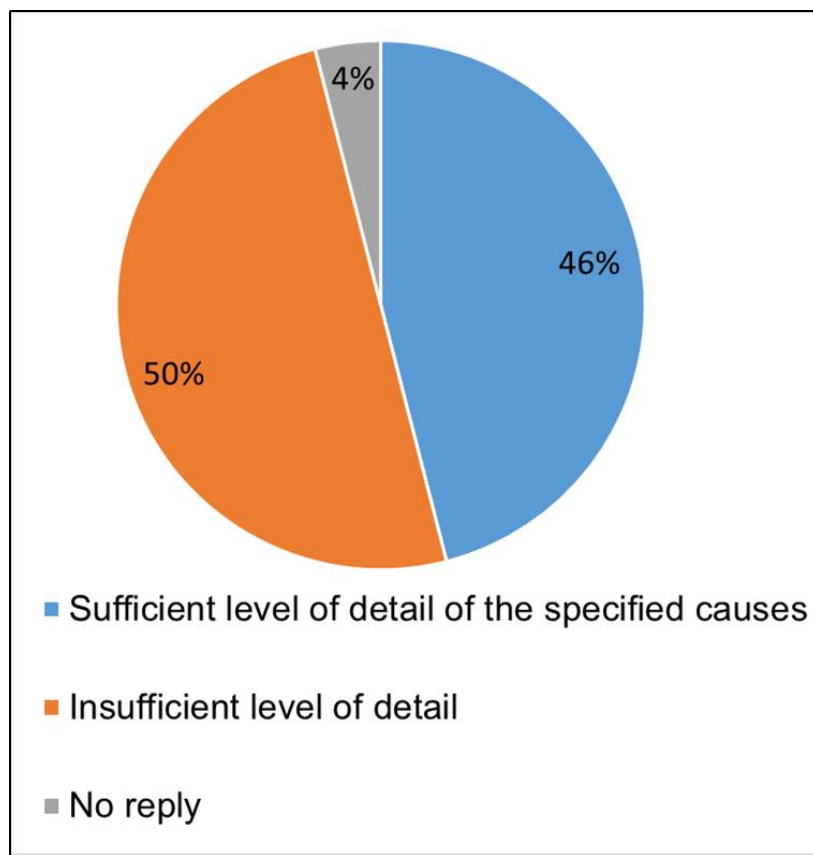
FRA 2020 requested information on forest area affected by

- Fires
- Disturbances
 - Insects
 - Diseases
 - Severe weather events
 - Other factors



Level of detail of causes of d/d

Survey



Recommendation

Add additional parameters for reporting, e.g.

- Details on **abiotic** damaging agents like storms, snow and ice, drought, forest fires per type of forest fire
- Details on **biotic** damaging agents like game (grazing, browsing, fraying, scaling), bark beetles, types of other insects, types of fungi, types of diseases
- Area damaged by **human induced** damages

Multiple causes and ranking

If more than one cause of d/d, distinguish between:

- Primary cause
- Secondary cause
- Subsequent causes

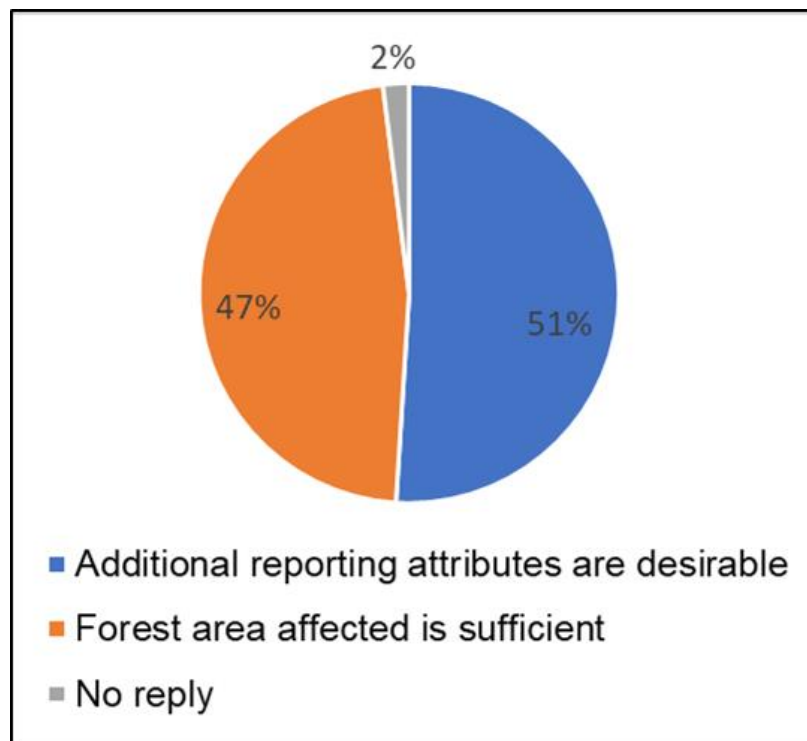
Ranking

- Acc. to severity of d/d regarding tree vitality



Other reporting attributes next to forest area

Survey



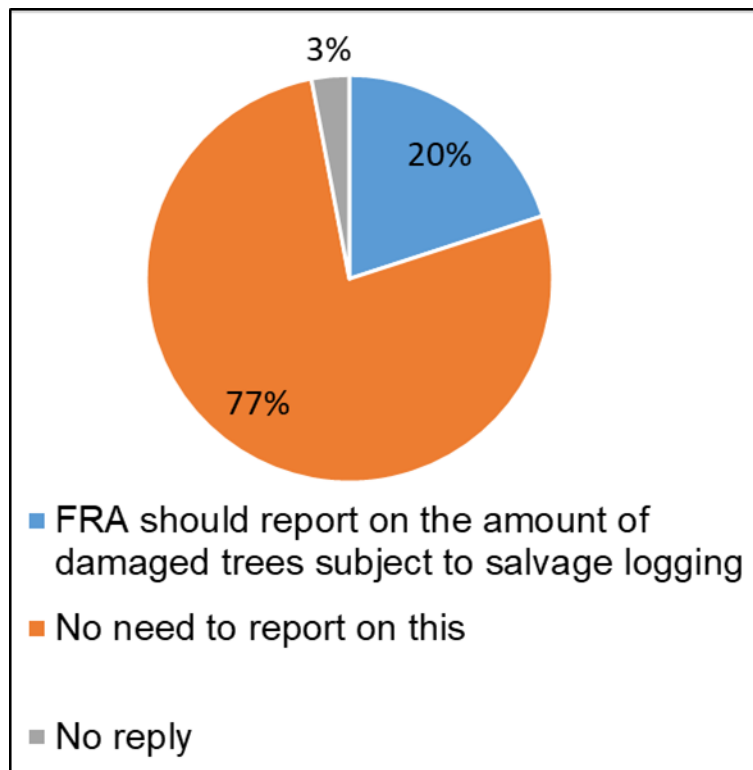
Recommendation

Add additional reporting attributes, e.g.

- Volume of growing stock affected
- Market value affected

Reporting on salvage logging

Survey

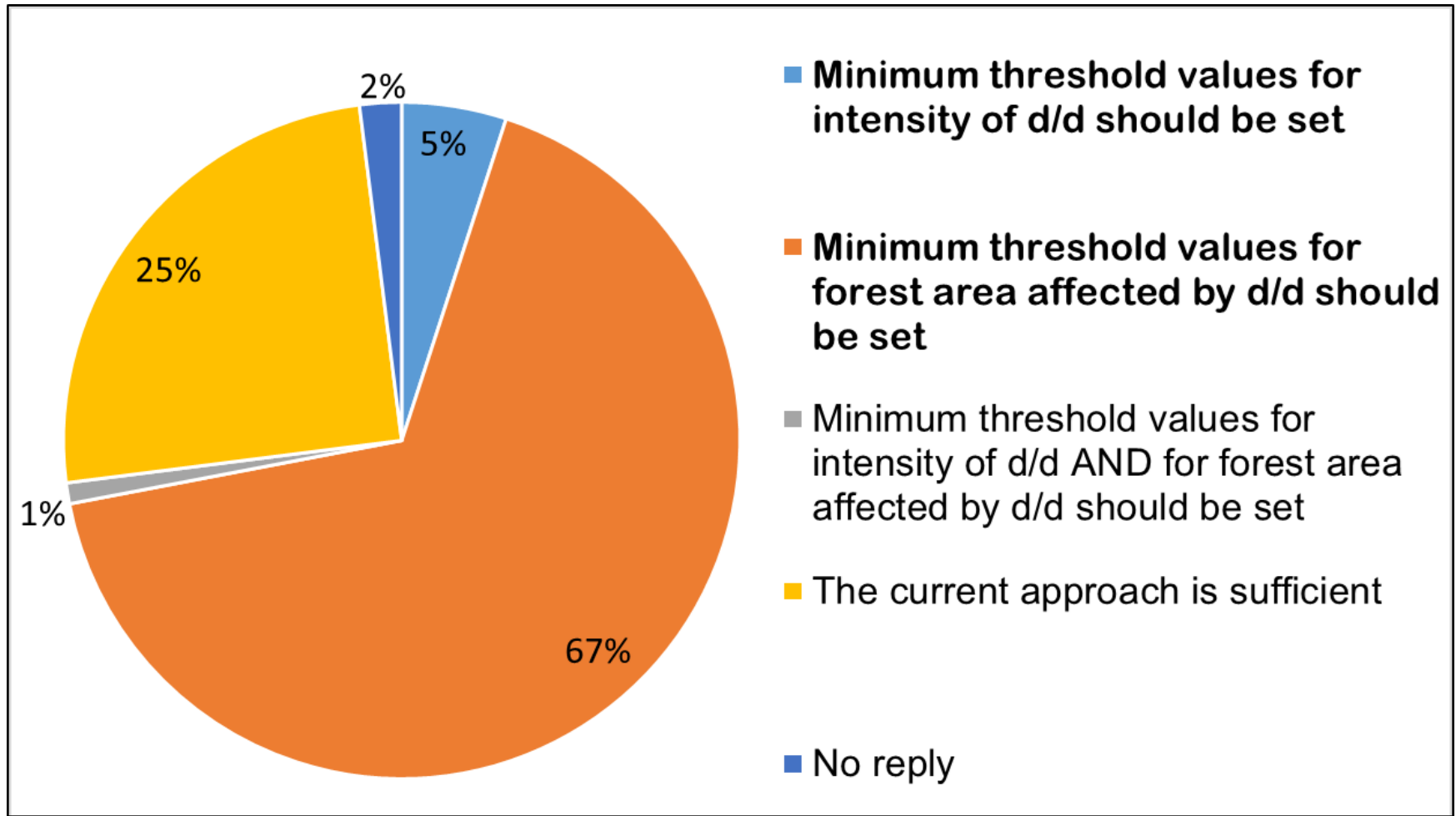


Recommendation

Add reporting also on

- Volume of salvage timber
- Marketed volume of salvage timber
- Marketed value of salvage timber

Thresholds for intensity & scale to qualify d/d for reporting



Reporting on d/d to regeneration & Reporting on recovery from d/d

Survey

- Extent and causes of d/d to regeneration
 - Forest area recovered from d/d
- so far only reported by few countries

Recommendation to develop and harmonize monitoring as

- in the course of CC increasing threats for successful regeneration expected
- information is important for afforestation and restoration activities, including funding

Further parameters collected by countries

- **d/d on standing living trees**
- **d/d on standing dead trees**
- **status of wood decay**
- **d/d caused by invasive species**
- **time of occurrence of d/d**

Final Conclusions

- **Complex d/d reporting**
- **Diversity of approaches and measures**
- **Data gaps remain**
- **Recommended to monitor and report more parameters**
- **Minimum reporting requirements to be met by all countries**



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THANK YOU

Stefanie Linser
Senior Researcher
University of Natural Resources and Life Sciences,
Vienna
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