



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

Criteria and Indicators – their role for assessment of forest damages





Criteria and Indicators – their role for assessment of forest damages

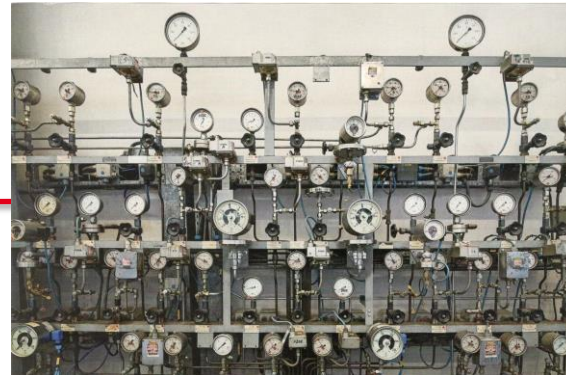


Data



Criteria and Indicators – their role for assessment of forest damages

Data



Information



Forest damage - time is running



24.8.2018



16.12.2018

Quelle: Forstpraxis.de



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG



Criteria and Indicators assessment





Different perspectives

Market liberals

Institutionalists



Bioenvironmentalists

Social greens



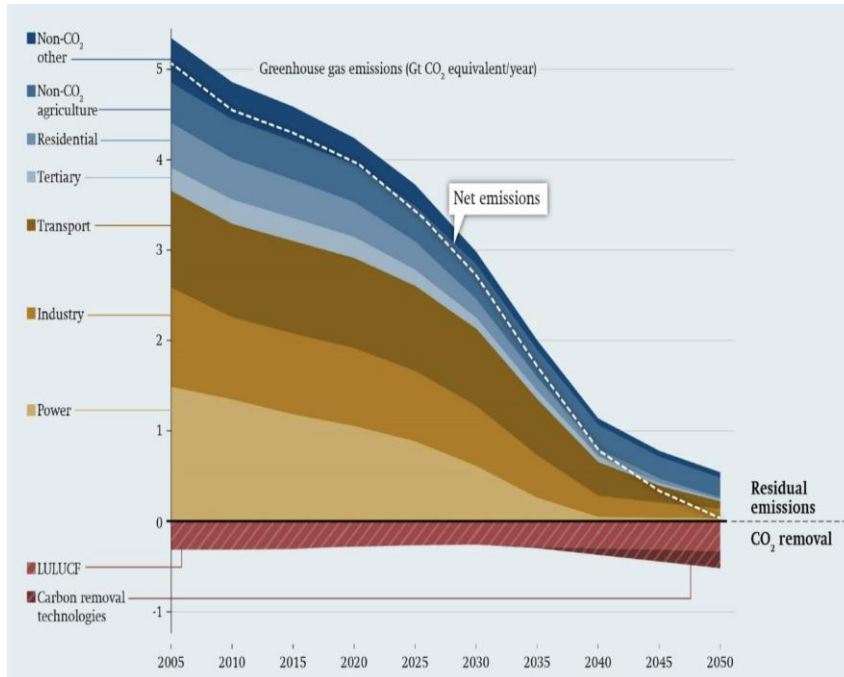
Changing general conditions/ changing times

- Climate change
- Extreme weather events
- Biodiversity conservation
- Non-utilization
- Carbon storage
- Climate neutrality
- Forest decline
- Increased amount of salvage timber
- Volatile (global) timber markets
- Timber supply shortages

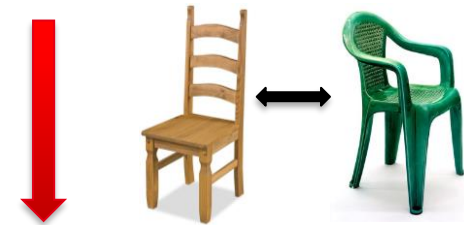
Not completed



Climate neutrality



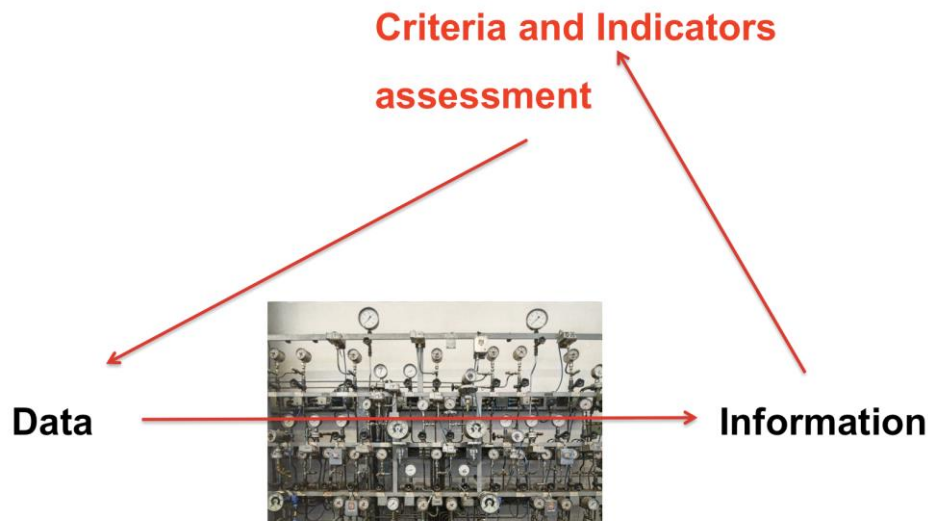
Reducing emissions



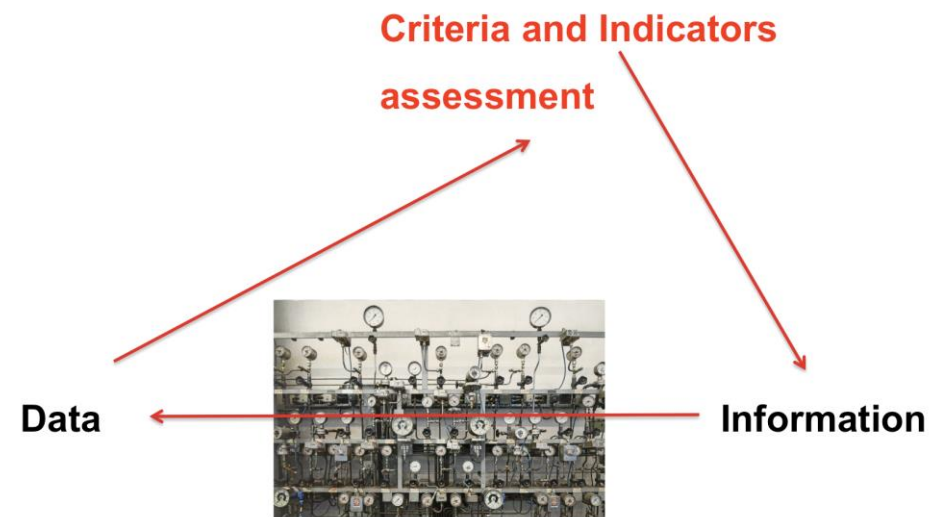
Removals



What we get



What we need





Harmonisation of damage assessments

Thematic consistency

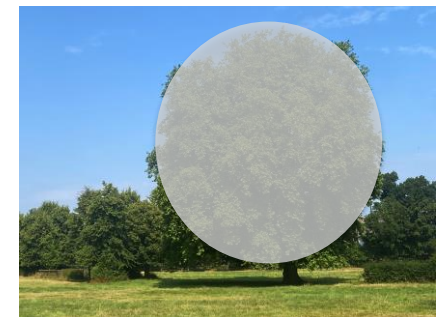
Time series consistency

Spatial consistency



Differences in national assessments

- Ranking of damages
- Damaging agents considered
- When does an event become a damage?
-





Harmonisation of damage assessments

How can reliability be improved?

How much uncertainty can be tolerated?





Harmonisation of damage assessments

How can reliability be improved?

How much uncertainty can be tolerated?





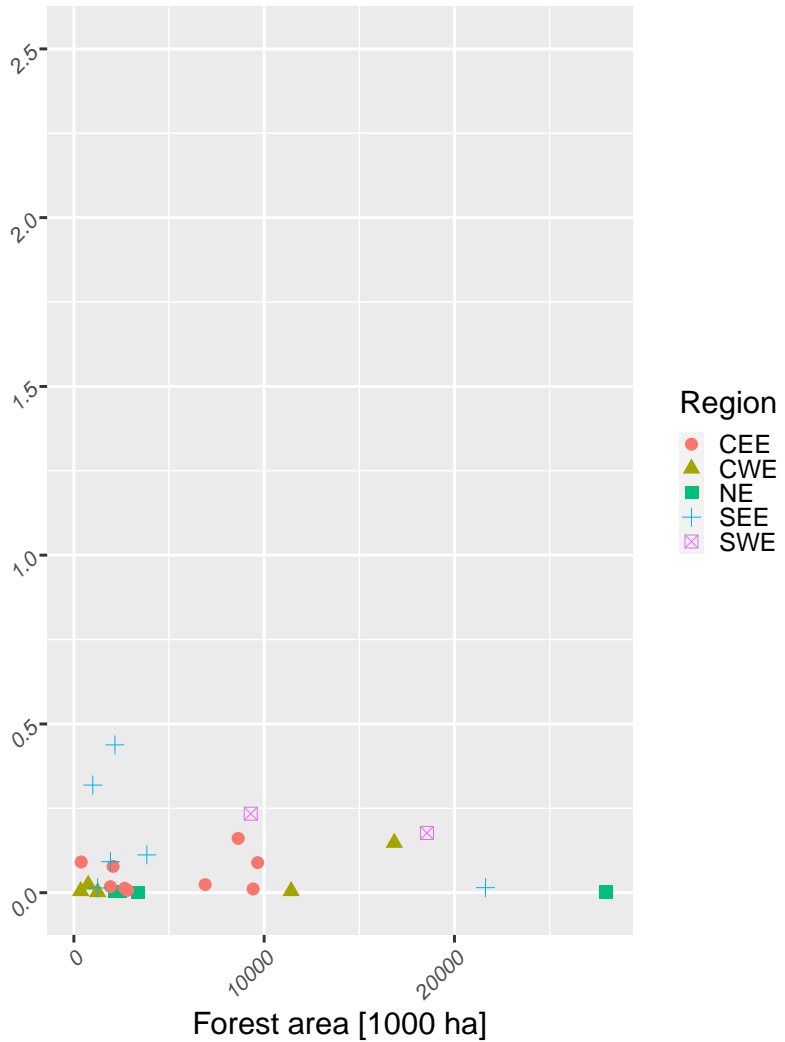
Assessing Information

Is the information

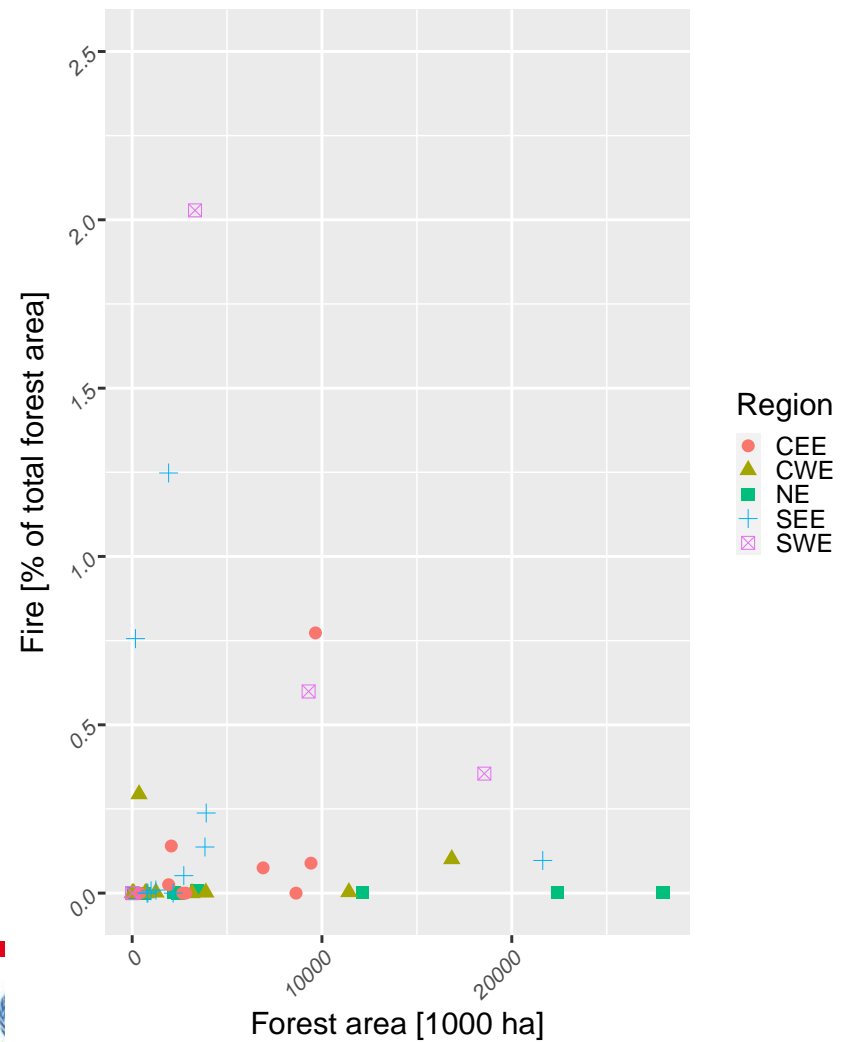
- up-to-date?
- complete?
- compatible with data from other sources?
- relevant? (Does it answer the right questions?)



Fire according to SOEF 2020



Fire according to EFFIS 2020





Share of salvage loggings by causes over the reported period

Member State	Reported period	Causes of salvage loggings over reported period		
		Wind (%)	Insects (%)	Other (%)
Austria	2004-2019	43	37	20
Cyprus	2010-2019	0	0	100
Czechia	2004-2019	47	41	12
Finland	2004-2019	74	8	18
Germany	2006-2019	49	38	13
Lithuania	2004-2019	60	28	12
Poland	2009-2019	59	0	41
Slovakia	2004-2019	44	49	7
Slovenia	2004-2019	21	40	39
Sweden	2004-2018	94	3	3

Source: Camia et al., 2020



Does the information provided answer the right questions?

Indicators: show progress towards SFM



Market liberals

Institutionalists



Bioenvironmentalists

Social greens



Does the information provided answer the right questions?

Indicators: show progress towards SFM



Market liberals



Institutionalists



Big data

Destination Earth

Digital Twin

Ecosystems

EFFIS

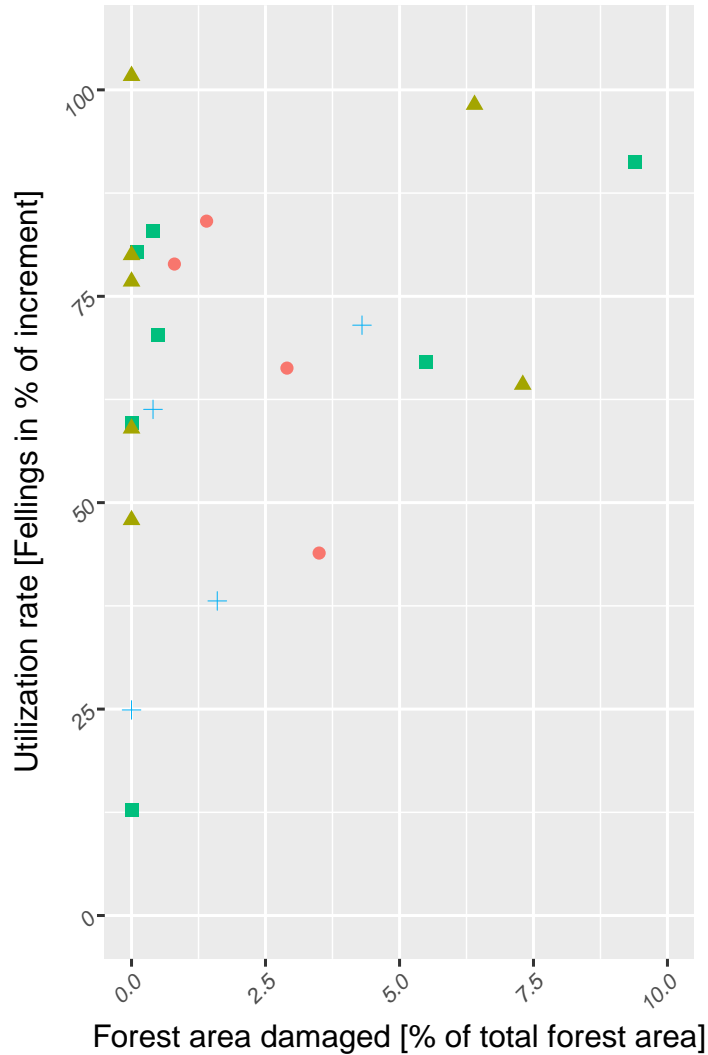
.....

Bioenvironmentalists

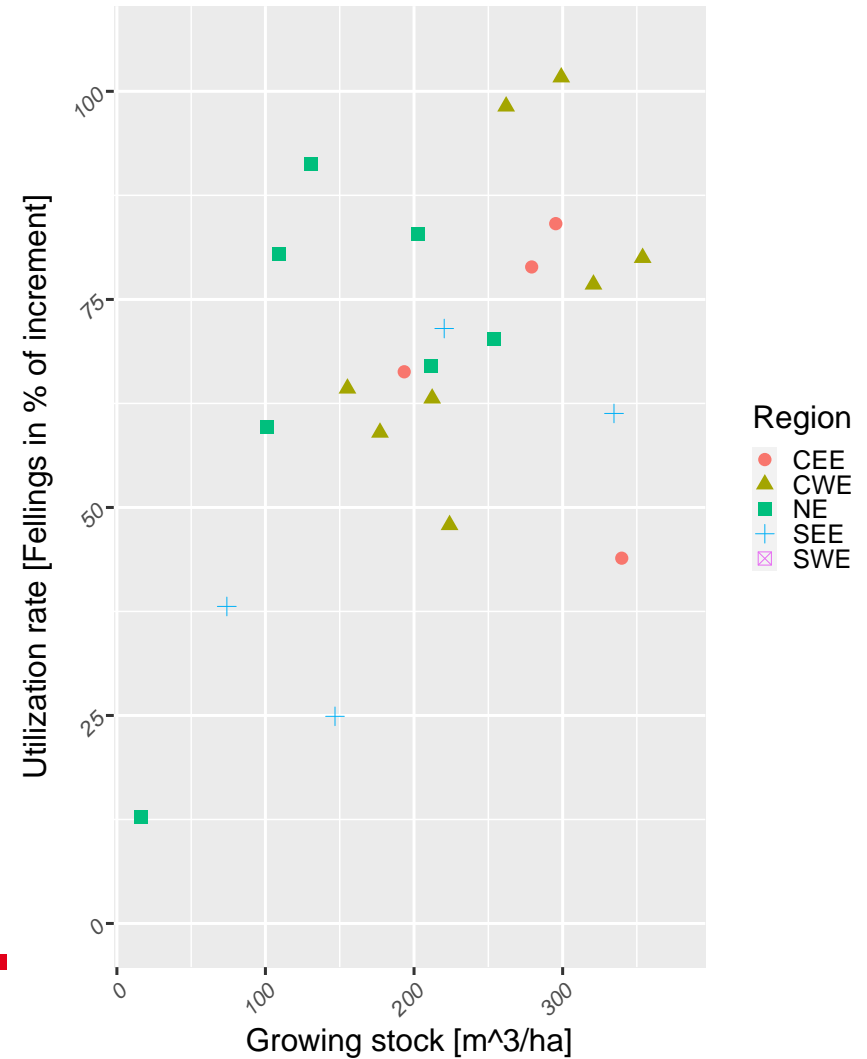
Social greens



SOEF 2020

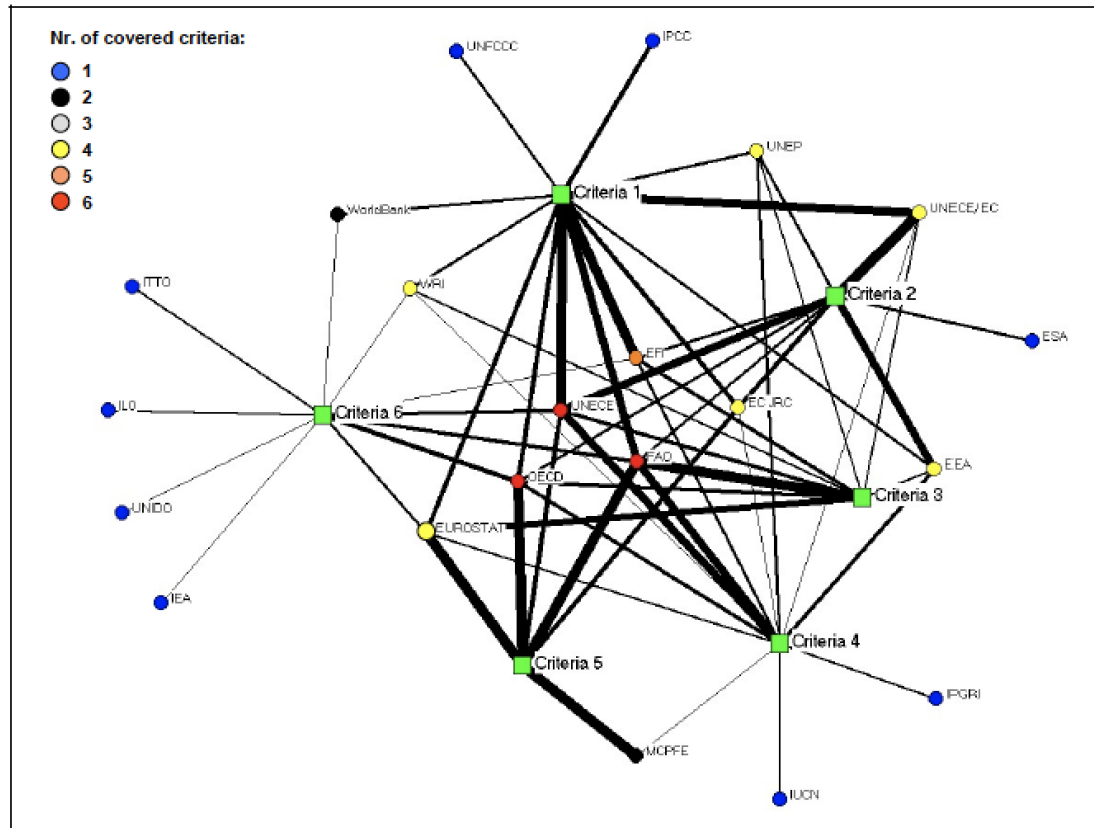


SOEF 2020





Indicators: show progress towards SFM



Source: Reuqardt, 2007