



Forest information needs for the EU

Workshop towards harmonised forest monitoring and reporting for the EU
Uppsala 1–2 Feb 2023

Stefanie Schmidt, DG ENVIRONMENT

Why do we need better forest information ?

**Efficient and effective
EU policy-making**

Information to monitor and improve the EU's forests to deliver on diverse and increasing demands for their services

**International
commitments**

Kunming-Montreal Global Biodiversity Framework-

Target 21 to ensure that best available data, information and knowledge on biodiversity is accessible for its governance

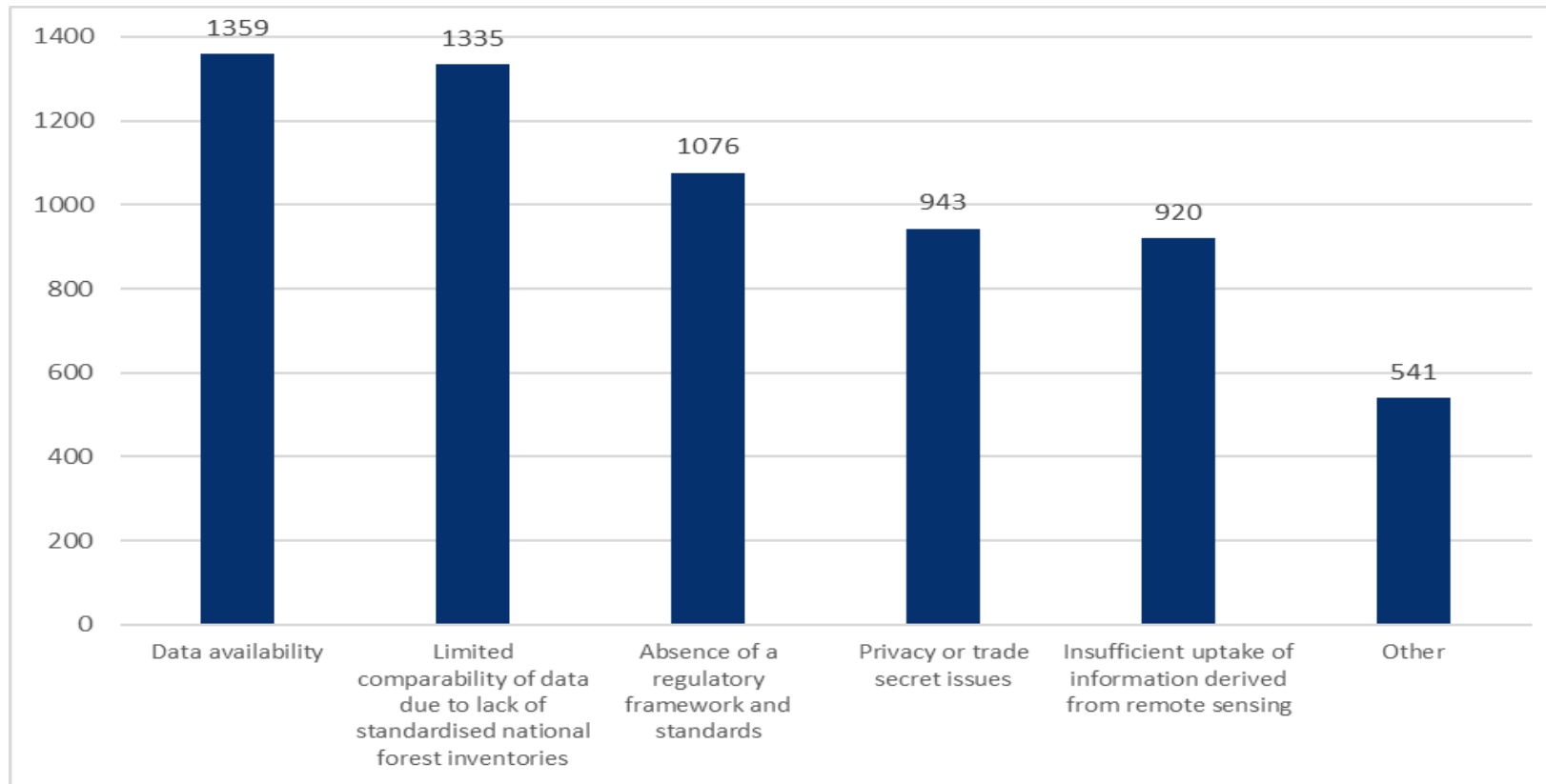
Digital Agenda for Europe

Better access for consumers and businesses to digital goods & services

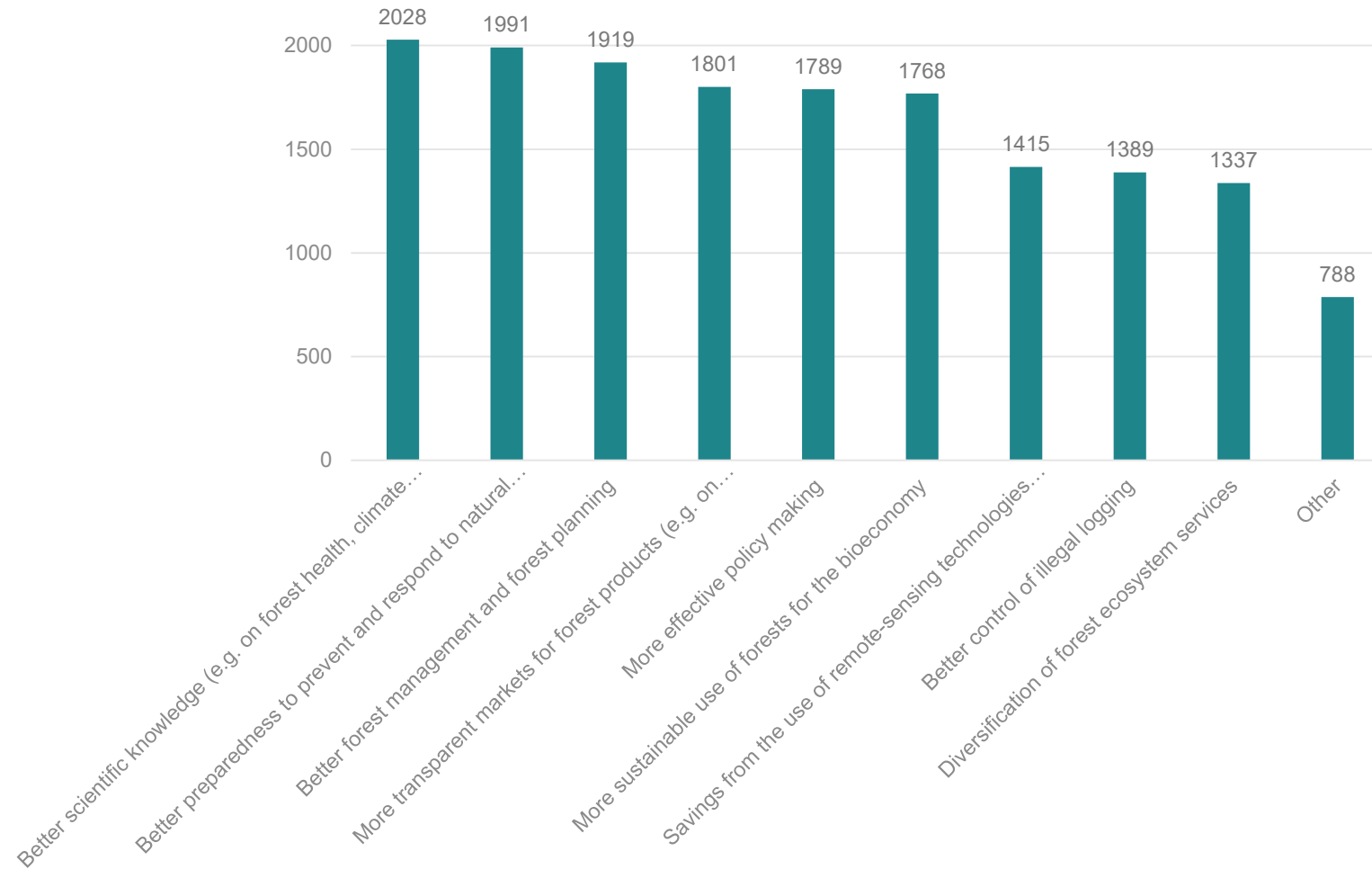
Right conditions to boost digital networks & services

Maximising the growth potential of the digital economy

Ranking of main challenges for EU-wide forest information that is detailed, accurate, regular, timely, comparable and openly accessible

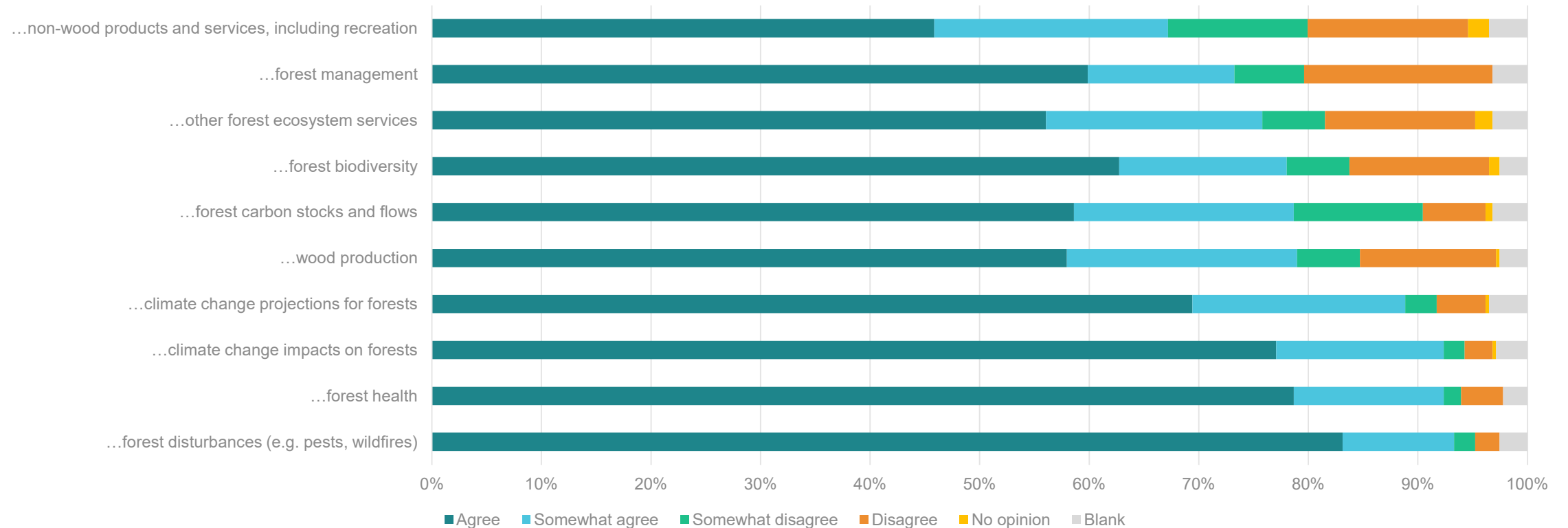


Ranking of main benefits of an EU-wide forest monitoring system with detailed, accurate, regular timely, comparable and openly accessible information





What kind of information do we need?



Indicators –Climate Change /Resilience

Indicator	Existing/ proposed obligation/Policy Need	legal	Current Reporting	Monitoring/	Data NFI	Availability SoEF	EOs Potential
Forest cover/ changes	LULUCF/ Forest and Ecosystem Accounts Proposal		Copernicus-HRL/CLC/SoEF		26	26	Airborne/ Satellite
Forest biomass	LULUCF		LULUCF/SoEF		21	22	Airborne/ Satellite
Soil Carbon	LULUCF/ NRL proposal		LULUCF/LUCAS		21	22	
Burnt areas (size)	Union's disaster response capacity		EFFIS				Airborne/ Satellite
Active fires (number)	Union's disaster response capacity		EFFIS				Airborne/ Satellite
Wildfire risk	Union's disaster response capacity		EFFIS				
Deposition and concentration of air pollutants	CLRTAP		ICP Forest		25	-	
Soil condition (pH, CEC, N, C, ...) - C/N ratio, nitrate, nitrate leaching	CLRTAP		ICP Forest		22		
Defoliation and Crown Condition	Climate Law		ICP Forest		24		Airborne/Satellite
Forest disturbance (area size/ volume) for: storm; drought; fire; biological agents;	LULUCF/ Climate Law		EFFIS (for wildfires)		22	16	Airborne/Satellite Satellite Satellite Satellite Satellite
Tree mortality	Climate Law		SoEF		18	-	Satellite

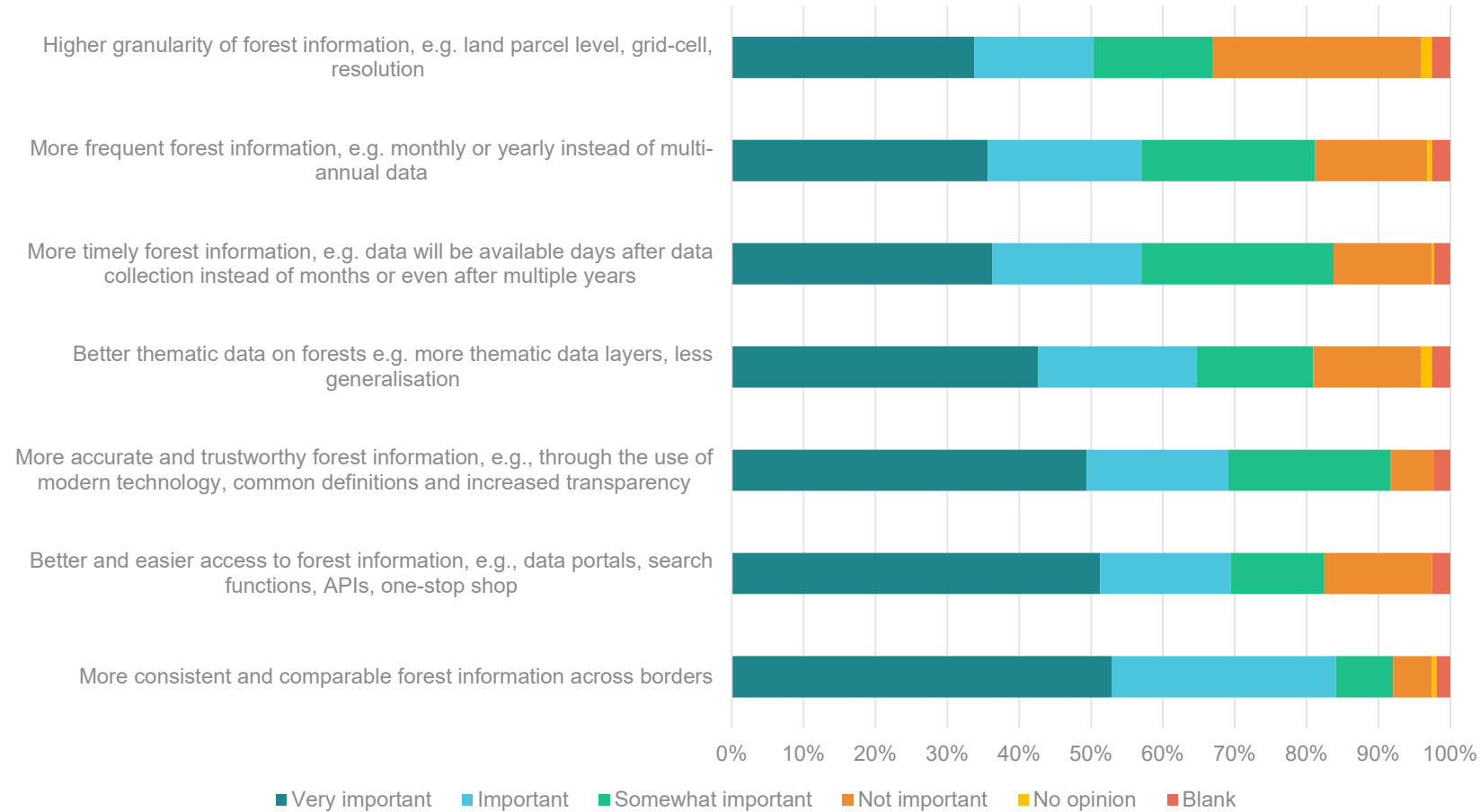
Indicators – Biodiversity and Protection

Indicator	Existing/ obligation/Policy Need	proposed legal	Current Reporting	Monitoring/ Data	NFI	Availability SoEF	EOs Potential
Area of forest habitat types in good/not good condition	EU Habitats Directive		BISE/ EEA	27	-		
Forest habitat types	EU Habitats Directive		BISE/ EEA	27	-		
Forest habitat condition	EU Habitats Directive		BISE/ EEA	27	-		
Protected forests	Habitats and Birds Directives (SPCs/ SPAs)		ESTAT/EEA	17	17		
Invasive tree/forest species	Invasive Alien Species Regulation		EEA	3	-	Airborne	
Common forest bird species	Nature Restoration Regulation Proposal		PECBM/Birds Directive Reporting	12	-		
Forest connectivity /fragmentation	Nature Restoration Regulation Proposal		SoEF/JRC			Airborne/Satellite	
Deadwood - volume and type (standing/lying)	Nature Restoration Regulation Proposal		CBD/ SoEF	25	19		
Structure (even/uneven –aged)	Nature Restoration Regulation Proposal		SOEF	25	20	Airborne	
Urban Tree Canopy Cover	Nature Restoration Regulation Proposal		SoEF	5		Satellite	
Diversity of tree species	Biodiversity Strategy		SoEF	26	20		
Threatened forest species	Biodiversity Strategy		SoEF	10	16		
Old growth and primary forest area	Biodiversity Strategy			12	-		
Diversity of non-tree plant species	Biodiversity Strategy			5	-		
Introduced tree species	Forest Strategy		SoEF	3	-		

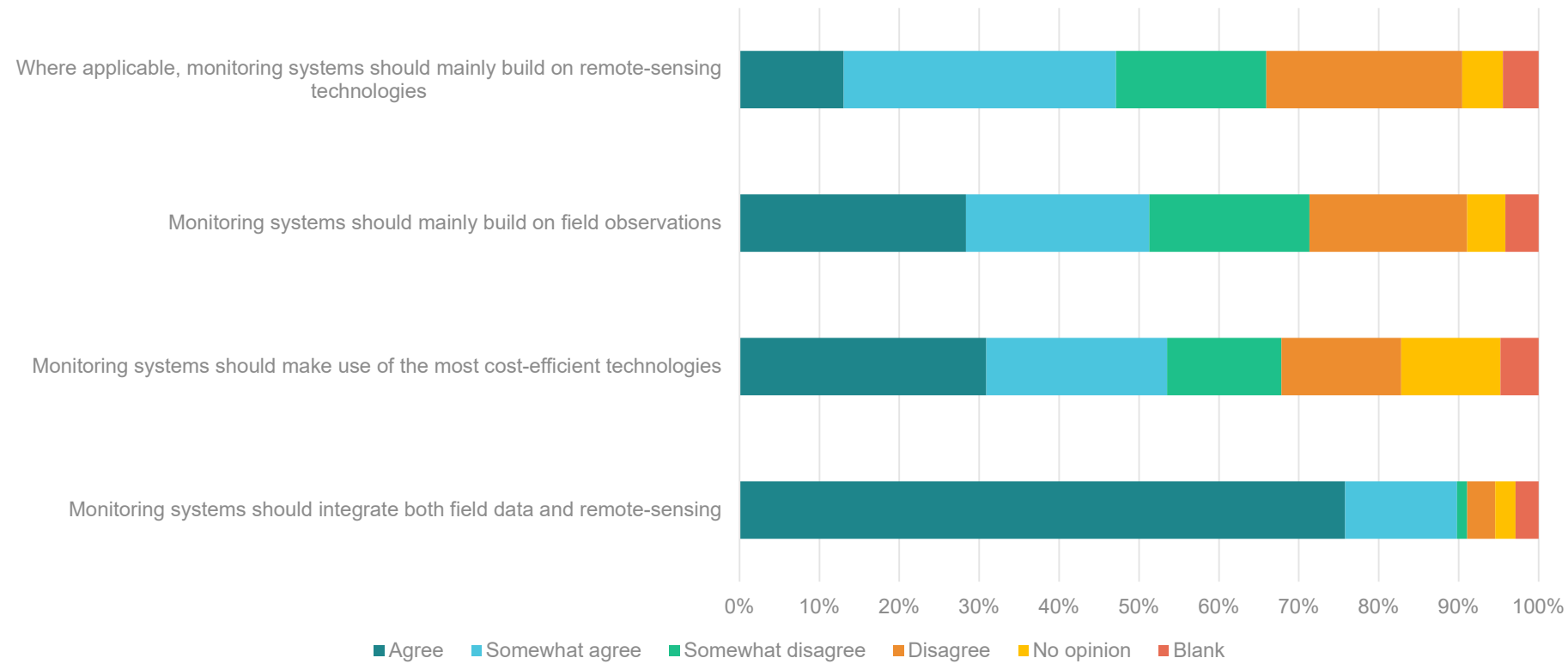
Indicators–Bioeconomy

Indicator	Existing/ obligation/Policy Need	proposed legal	Current Reporting	Monitoring/ Data NFI	Availability SoEF	EOs Potential	
Gross value added of forest sector		Bioeconomy		SoEF/ESTAT	-	27	
Net revenue		Bioeconomy		SoEF/ESTAT	-	22	
Investments in forests and forestry		Bioeconomy		SoEF	-	19	
Forest Sector employment		Bioeconomy		SoEF/ESTAT	-	25	
EU supply and uses of woody biomass (energy and material)		Bioeconomy		ESTAT			
Wood energy - feedstock sources (primary/secondary biomass)		RED II		ESTAT	2	17	
Harvested quantity and market value of non-wood forest products		Bioeconomy		SoEF/FRA	-	22	
Value of marketed forest services		Bioeconomy		SoEF/INCA	-	12	
Net annual increment of growing stock volume (on all forest; on FAWS)		Forest and Ecosystem Accounts Proposal		SoEF	18	18	
Felling and roundwood removals		Forest and Ecosystem Accounts Proposal		SoEF	18	26	
Growing Stock		Forest and Ecosystem Accounts Proposal		SoEF	24	22	

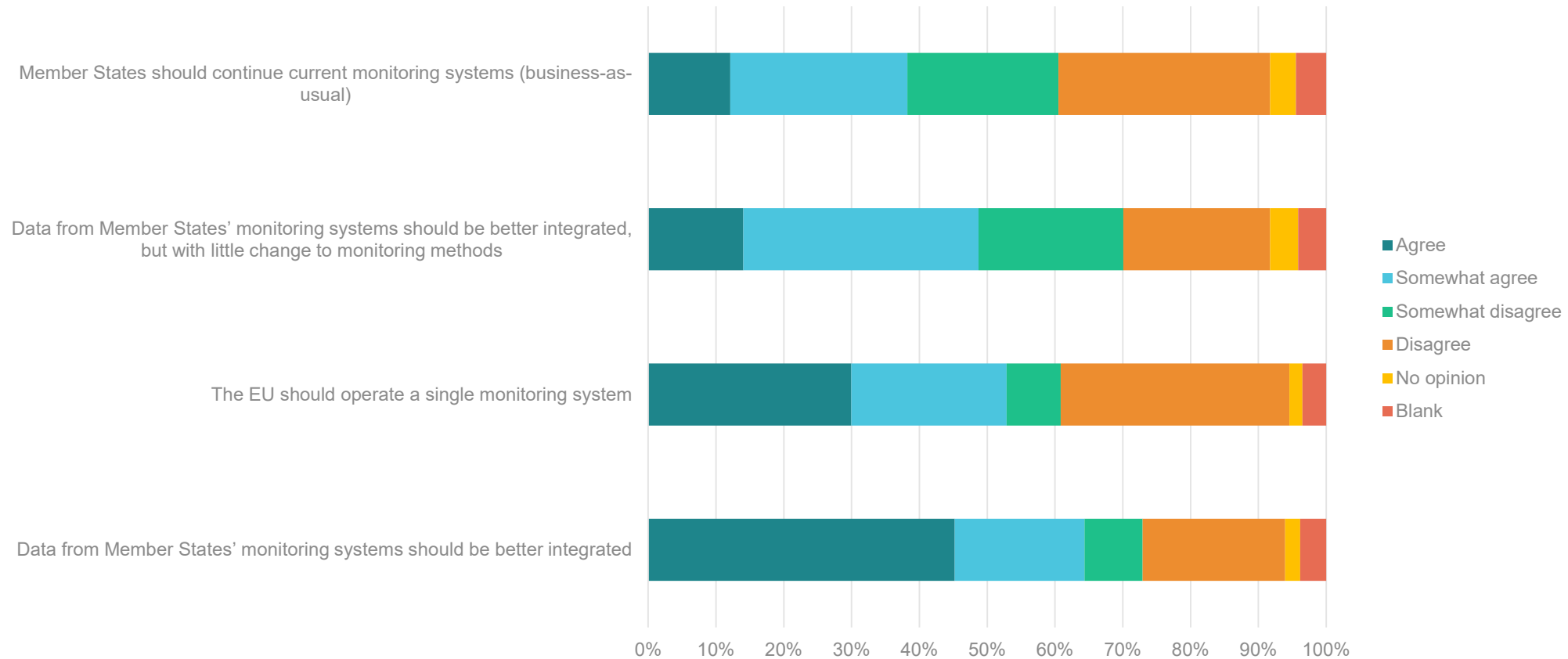
Possible improvements to EU forest monitoring



How to collect the information we need?



How to ensure the forest information we need?



An EU framework for consistent, comparable, timely and accessible data on EU forests

