

#### **Brief overview**

- Forest monitoring for policy implementation, actors, and instruments
- Possible components of forest monitoring
- Challenges, possible next steps



# Forest monitoring discussion -recap

#### Europe's forests under pressure

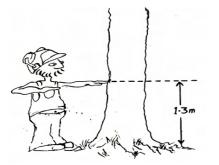


EU forest-related policies





SELECTION OF INDICATORS





**European Environment Agency** 



## EU forest information: actors and instruments



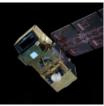






Sentinels 1-3









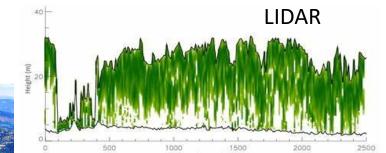
**Horizon** 

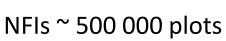
**Europe** 

**JRC** 

















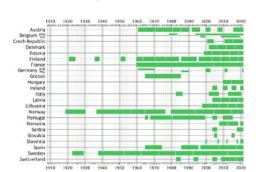


**European Environment Agency** 

Forest ecosystem condition







#### Reporting processes

**EEA/EIONET FISE** Forest Europe **FAO EUROSTAT UNECE JRC** 

International Agreements

Kyoto/LULUCF **UNFCCC** REDD, CBD RED, EU FRA, UNECE Forest Europe

Forest data & information

Horizon Europe

COST

Research

Interreg

**EU** Green Deal

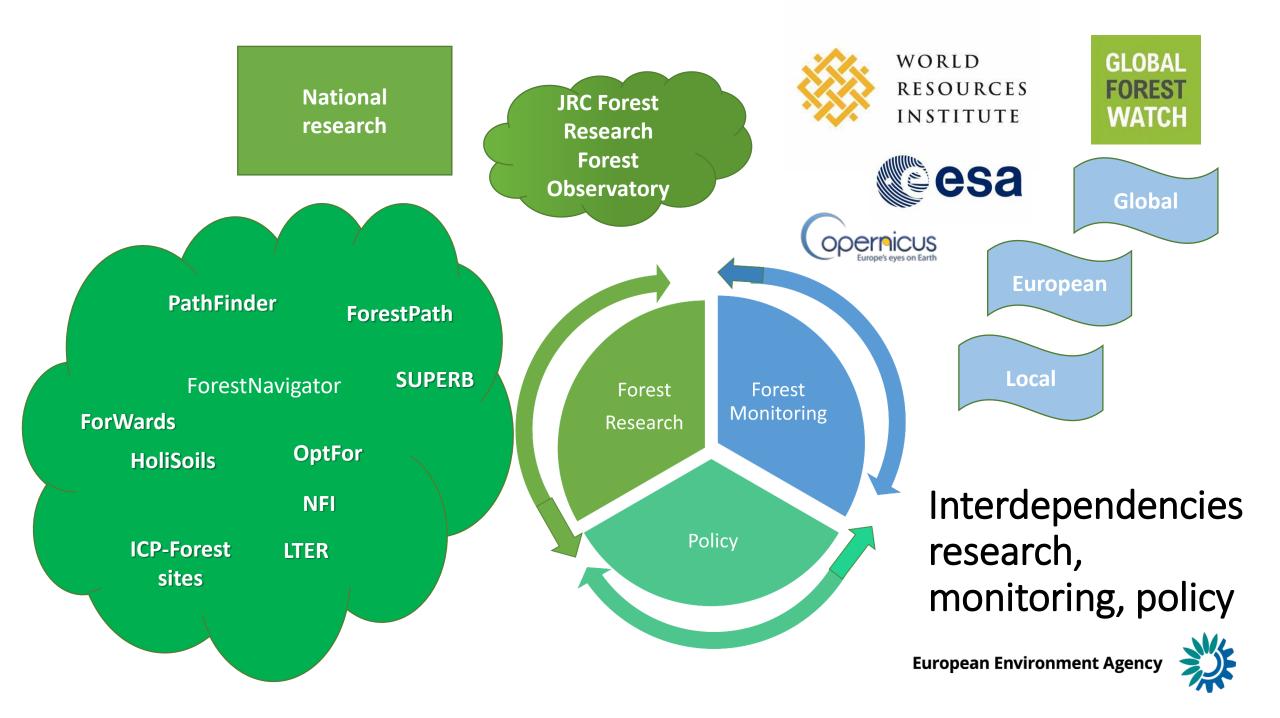


**Environmental** acquis

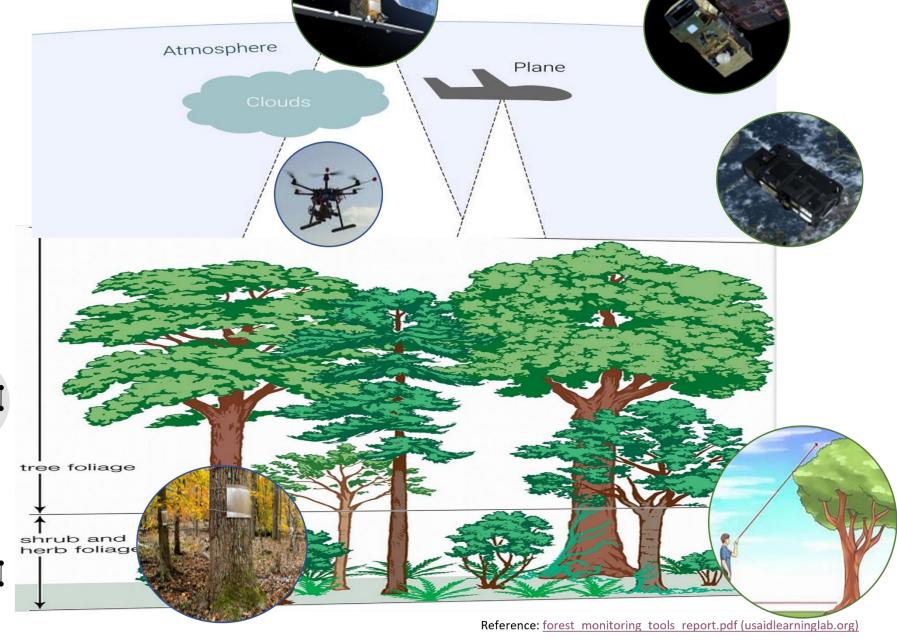
**European I**nvironment Agency

Modified with permission from K. Schadauer

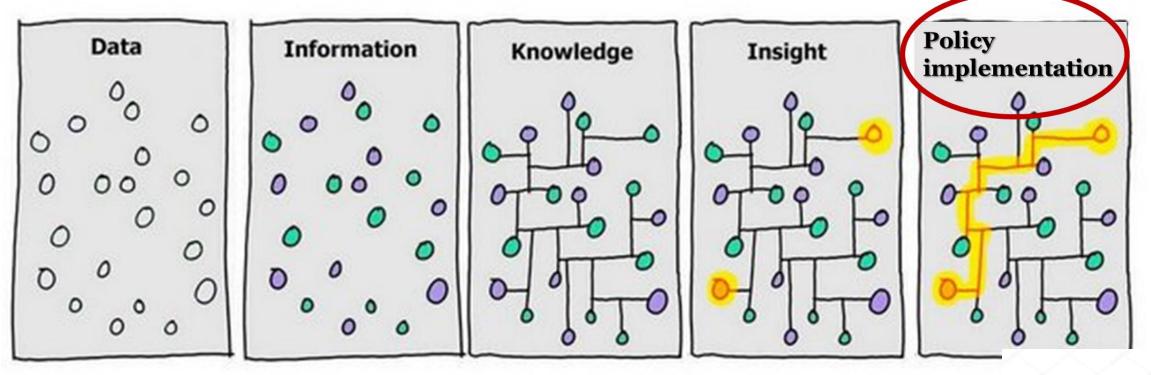
"EU forest-related policies"



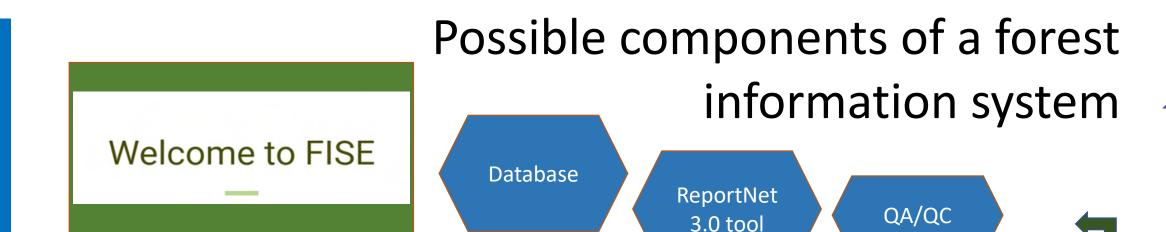
Interactive forest monitoring



#### Forest information for European policy implementation



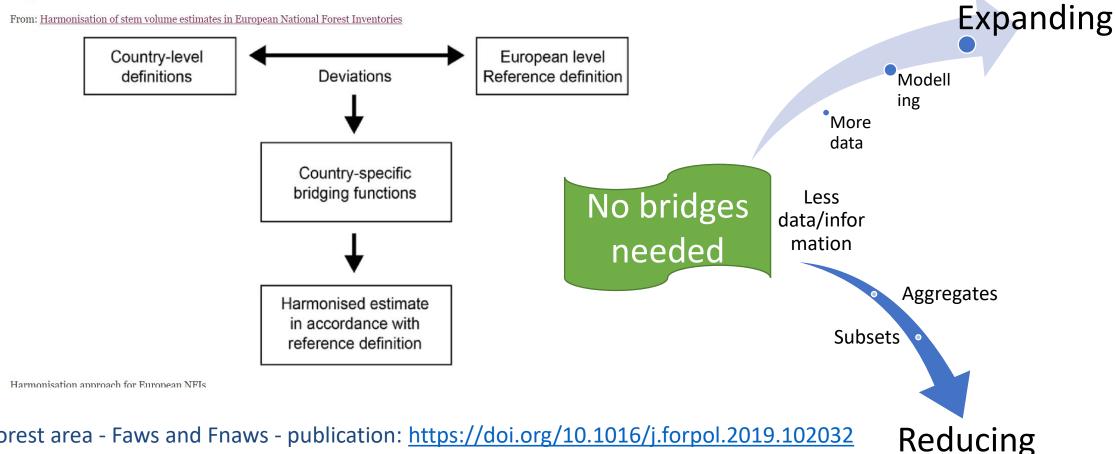




Upscaling to 50 x 50 km2/ NUTS3 / other region / QA/QC national level Harmonisation of variables towards internationally QA/QC agreed reference definition Integrating field Field data Spatial explicit QA/QC Other statistics and remote sensing (NFI, ICP, other) information an E information

#### Harmonisation procedures

Fig. 2



- Forest area Faws and Fnaws publication: <a href="https://doi.org/10.1016/j.forpol.2019.102032">https://doi.org/10.1016/j.forpol.2019.102032</a>
- Biomass: Two SCs with JRC: reports, a publication about the map from JRC
- Volume: Diabolo Publication: <a href="https://doi.org/10.1016/j.foreco.2021.119868">https://doi.org/10.1016/j.foreco.2021.119868</a>
- Increment: Two SCs with JRC: reports, publication is starting



### Operationalise upscaling procedures







PathFinder ForestPath

**SUPERB** 

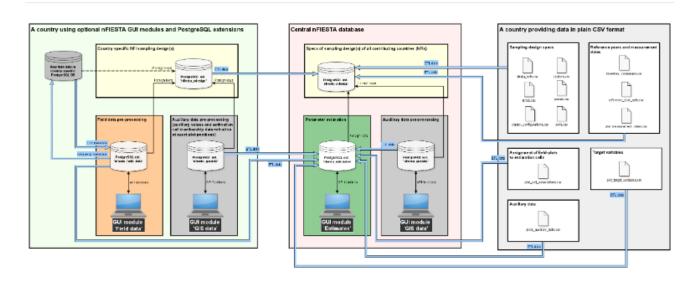
ForestNavigator

**HoliSoils** 

**ForWards** 

**OptFor** 

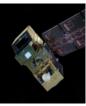
The architecture of nFIESTA (PostgreSQL extensions, DBs and GUI modules)



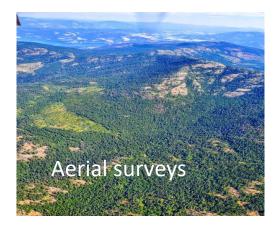
#### The Earth observation components

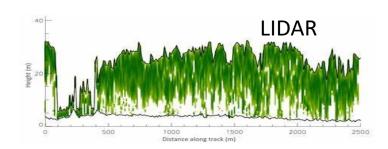
Sentinels 1-3

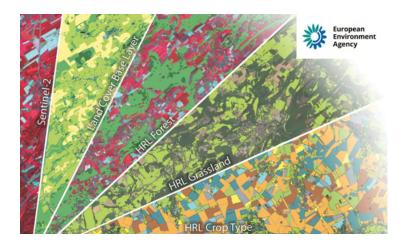






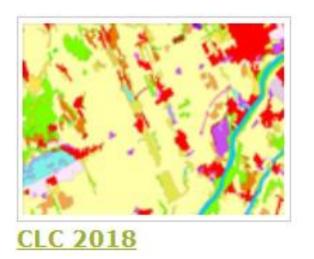














#### Important issues to discuss

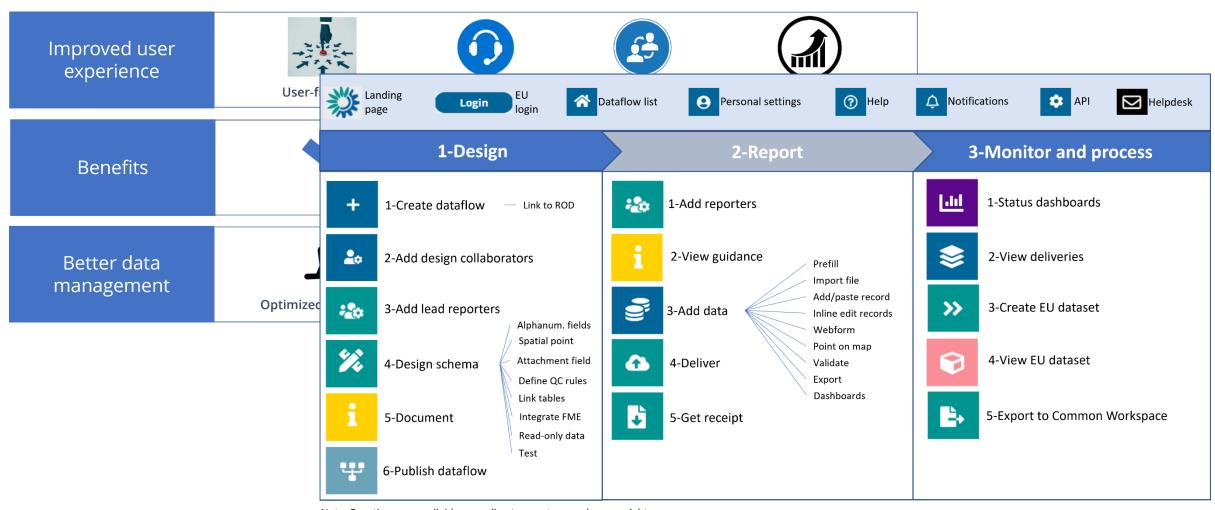
- Relation to other European and global forest reporting processes
- Reducing the reporting burden
- Synchronising the reporting
- Expand the reporting of harmonised upscaled forest information?
- What about standardisation?

- Technical and quality issues
- Assessing and reporting on accuracies, precision, consistency checks
- Reducing and reporting on the biases
- Reporting metadata information



#### ReportNet 3.0 forest indicators

. . .



Note: Functions are available according to user type and access rights

**10 Actions** to Streamline Environmental Reporting

Action 3 - Modernise eReporting including through a more advanced Reportnet and making best use of the existing infrastructure





Q Search website

Europe's forests

Countries

Data catalogue

Knowledge

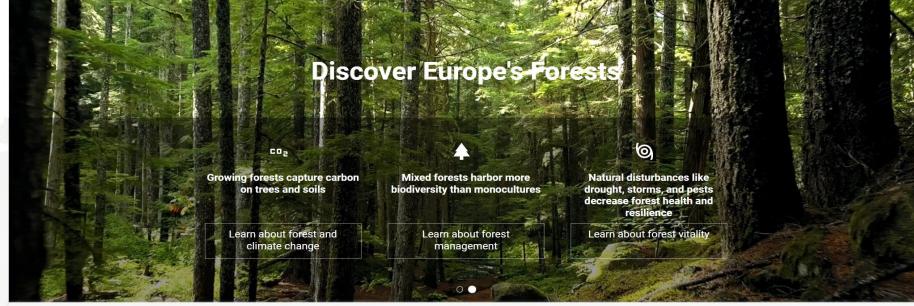


THE 3 BILLION TREE PLANTING PLEDGE FOR 2030 LEARN MORE AND JOIN THE PLEDGE

Forest Information System for Europe

Search website

Policy and reporting Europe's forests Country and regions Resource library



THE 3 BILLION TREE PLANTING PLEDGE FOR 2030 LEARN MORE AND JOIN THE PLEDGE



