



Soil Organic Carbon in EU Soils

Healthy soils for healthy food, people, nature and climate
within the European Green Deal



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Joint
Research
Centre

4 per 1000, 9th December 2020

Green Deal and soil organic carbon (SOC)



**NO NET
EMISSIONS OF
GHG BY 2050**



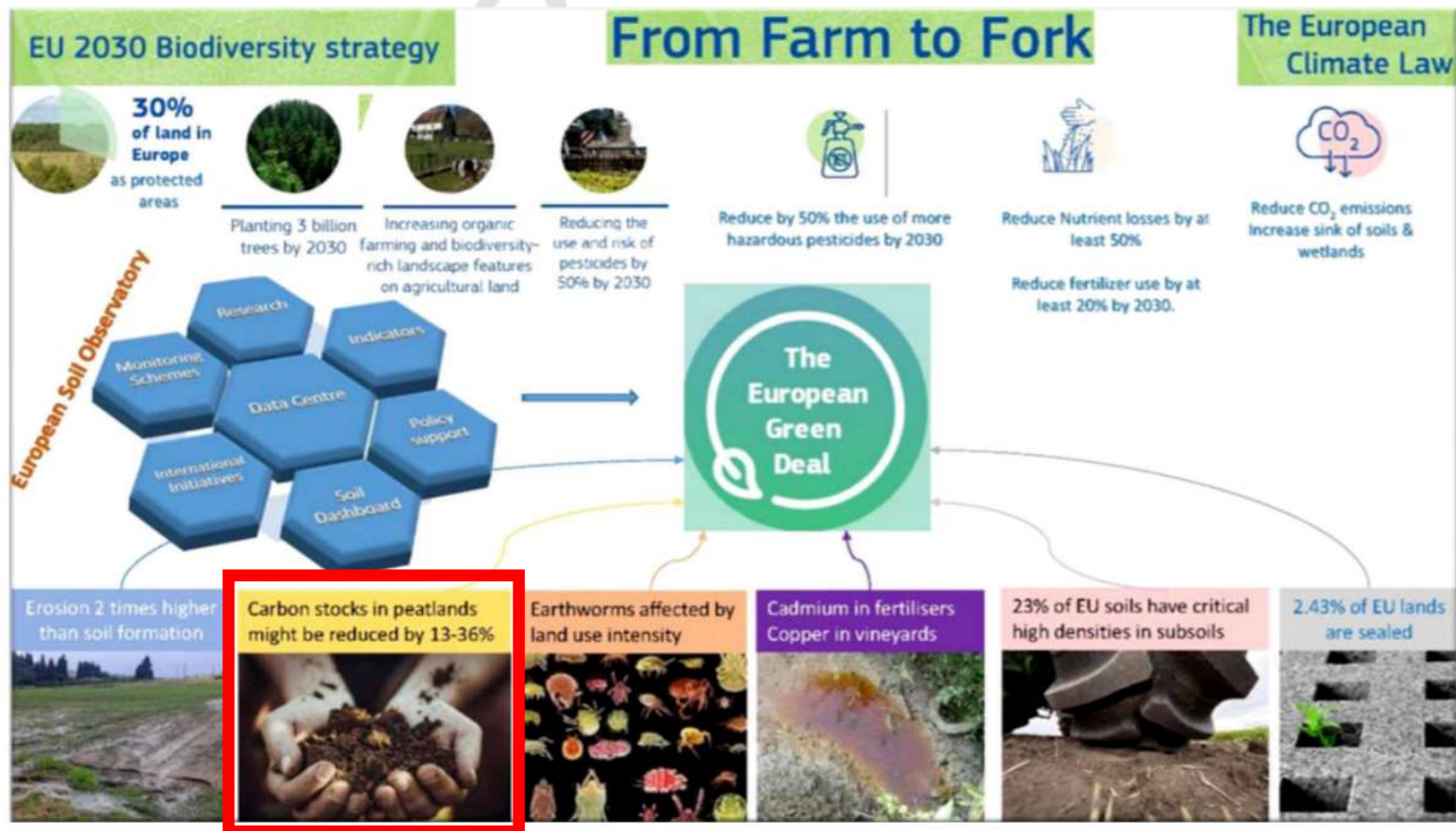
- Forests are a C sink
- Agriculture still emits **10%** of total EU GHG emissions
↓
- **No decreasing trend** in the last years!
↓
- Need to reduce non-CO₂ emission and **sequester C in soils**

Soils in Horizon Europe and Missions



- Soils are threatened: 60-70% of all soils in Europe are unhealthy as due to current management practices, pollution, urbanisation and the effects of climate change

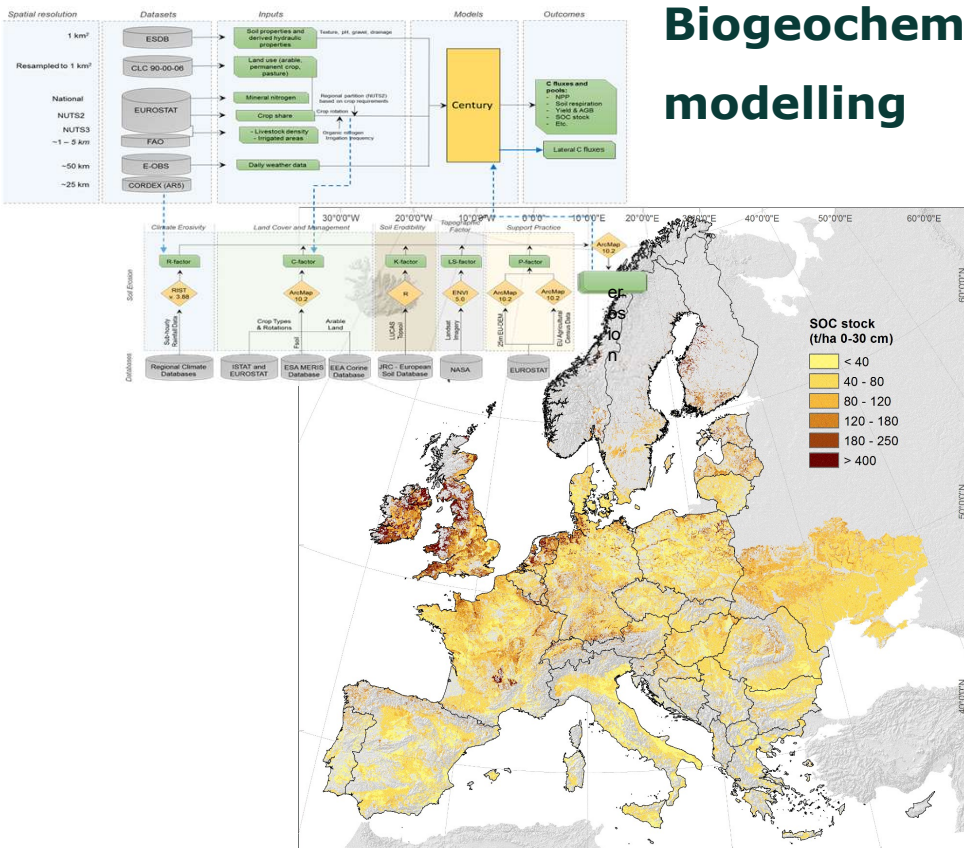
How to support SOC levels?



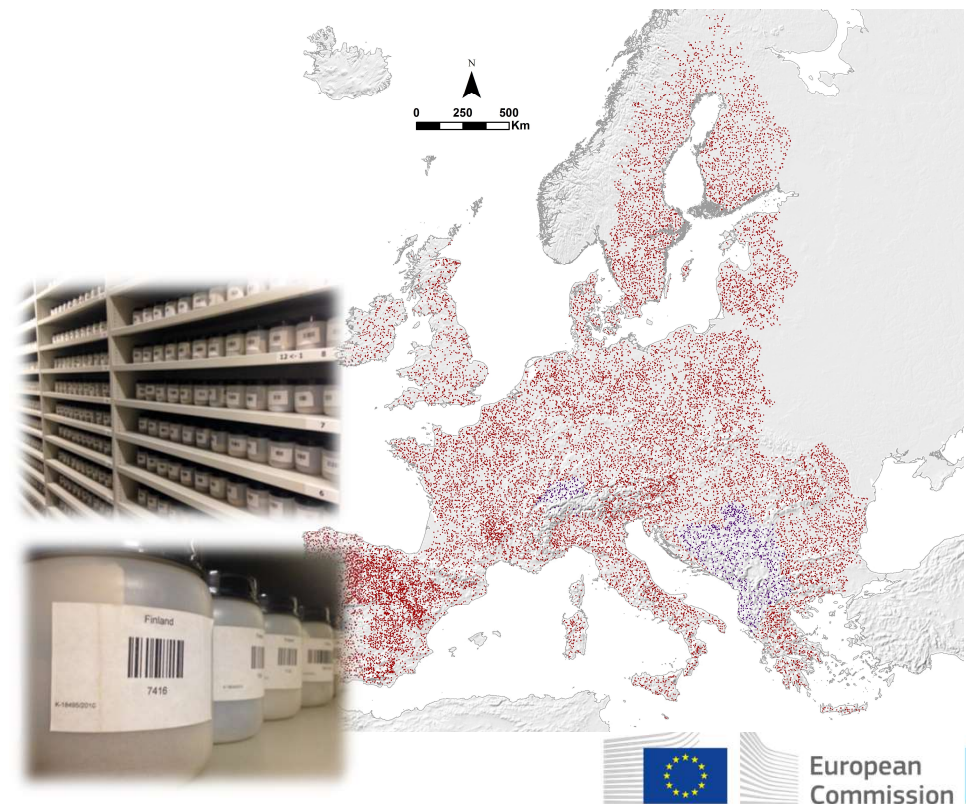
- Quantify SOC
- Promote C sequestration
- Create common monitoring schemes

JRC activities on SOC

Biogeochemical modelling



LUCAS soil



[illegible]

EU SOIL
OBSERVATORY



ESDAC

**Goal 2: A stronger European
Soil Data Centre**



Support to policy implementation: Monitoring and indicators for the EU Soil Thematic Strategy

Goal 5: Provide an European Soil