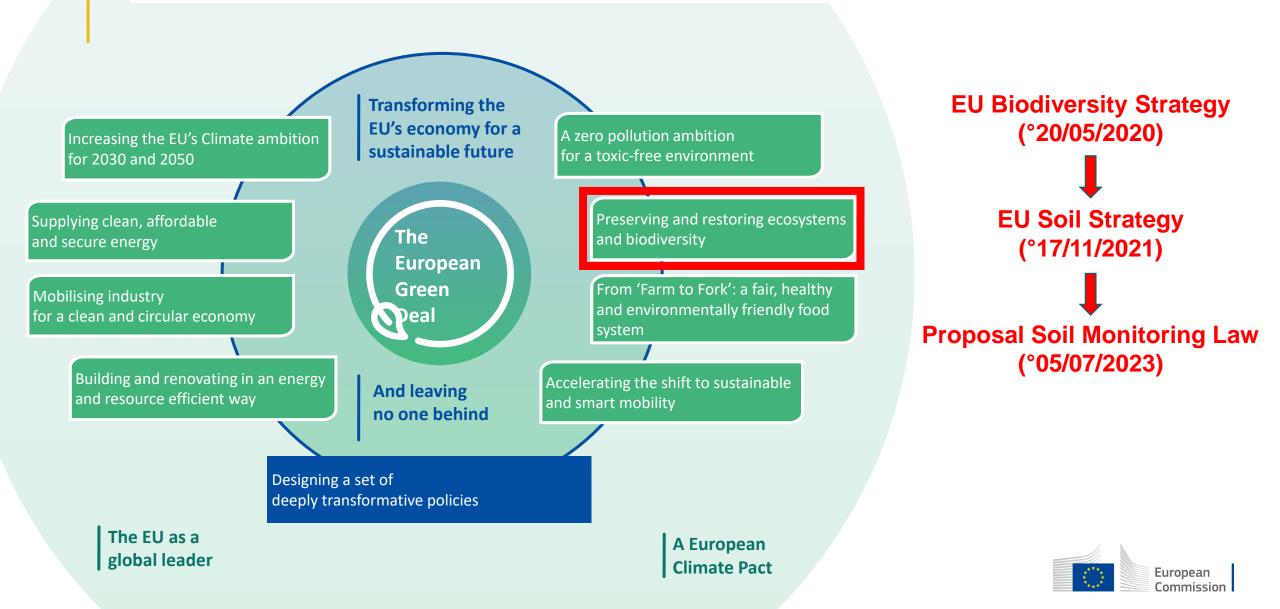


Soil Monitoring Law proposal

30 januari 2024

Bavo Peeters ENV.D1 Land Use & Management

European Green Deal (°11/12/2019)



Process

- EU Soil Strategy: 17/11/2021
- <u>Call for evidence</u>: 16/02/2022 16/03/2022 (189 replies)
- Public consultation: 01/08/2022 24/10/2022 (5.782 replies)
- Other consultation activities:
 - EU soil expert group meetings: <u>old</u> & <u>new</u> composition
 - Interviews
 - Targeted questionnaire
- Impact assessment study: coordinating contractor Trinomics
- <u>Regulatory scrutiny board opinions</u>: 17/02/2023 & 28/04/2023
- Publication of the impact assessment: 05/07/2023



SUSTAINABLE USE OF NATURAL RESOURCE

European Commission Commission européenne



#EUGreenDeal #EUFarm2Fork

filling a major legal gap to bring soil under our legal acquis. This will become the first EU law on soil. **Our ultimate** objective is to achieve healthy soils by 2050. "

" Today, we are





Scope of the proposal

- Directive allows flexible and proportionate intervention
- All soils in the territory of Member States
- Staged approach
- Building on existing policies



Soil Monitoring Law

Directive on soil monitoring and resilience



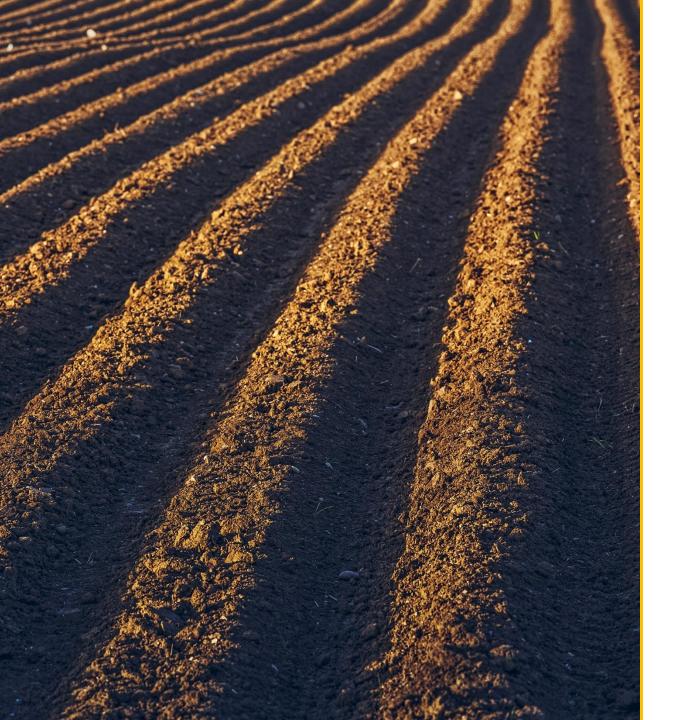




Objectives

- Solid and coherent soil monitoring framework
- Healthy soils by 2050
- Providing ecosystem services
- Environment, social and economic needs
- Climate change, biodiversity, resilience against natural disasters, food security, human health





Definitions

- Healthy soils: several soil descriptors
 with or without criteria
- One out all out principle
- Land take
- Specific terminology defined in article 3 and throughout the legal text





Monitoring & assessment

- Soil districts & competent authorities
- Soil health descriptors and criteria
- Methodologies for sample survey and analysis of descriptors
- Regular monitoring and assessment



Descriptors and criteria

Degradation process	Descriptor					
Part A	Criteria set at EU level					
Salinization	Electrical conductivity (deci-Siemens / meter)					
Erosion	Erosion rate (tonnes / hectare / year)					
Loss of soil organic carbon (SOC)	SOC concentration (g / kg)					
Subsoil compaction	Bulk density (g / cm ³)					

Part B	Criteria set at MS level
Excess nutrient content	Extractable phosphorus (mg / kg)
Soil contamination	Concentration of heavy metals and selection of organic contaminants (µg / kg)
Reduction of capacity to retain water	Water holding capacity (% of volume of water / volume of saturated soil)



Descriptors and criteria

Degradation process	Descriptor
Part C	No criteria (only monitoring)
Excess nutrient content	Nitrogen (mg / g)
Acidification	Acidity (pH)
Topsoil compaction	Bulk density (g / cm ³)
Loss of soil biodiversity	Soil basal respiration (mm ³ O ₂ / g / hr) + optional

Part D	Land take and soil sealing
Land take and soil sealing	Total artificial land (km ² and % of MS surface)
	Land take, reverse land take, net land take (km ² and % of MS surface)
	Soil sealing (km ² and % of MS surface)
	Optional indicators





Services & support

- Land Use/Cover Area frame Survey (LUCAS)
- Remote sensing through
 Copernicus
- Digital soil health data portal
- Voluntary soil health certification

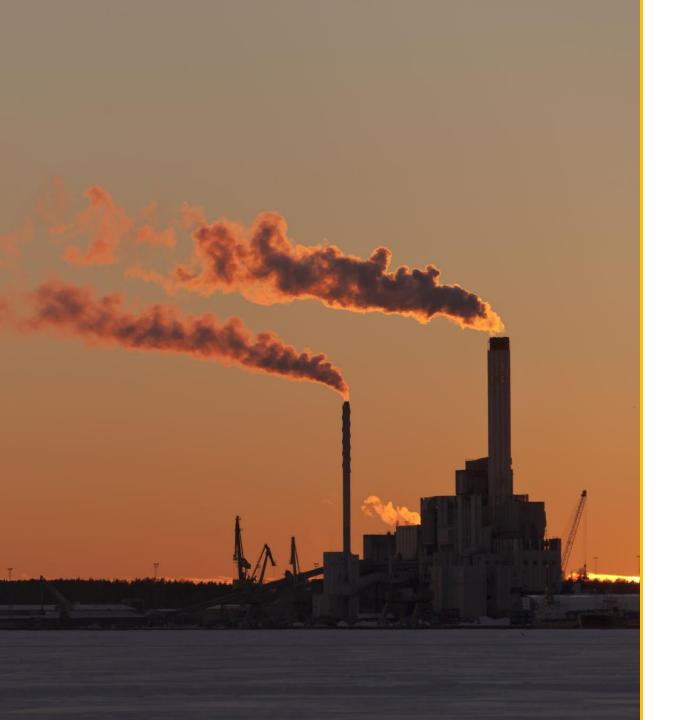




Sustainable soil management

- Basic principles for:
 - Sustainable soil management practices
 - Regeneration practices
- Synergies with other EU plans and programmes
- Public participation
- Advice, training, capacity building, awareness
- Land take mitigation principles





Contaminated sites

- Risk-based approach
- Identification and investigation of potentially contaminated sites
- Risk assessment of contaminated sites
- Risk reduction measures for sites with unacceptable risks
- Public register and public involvement





Reporting & final provisions

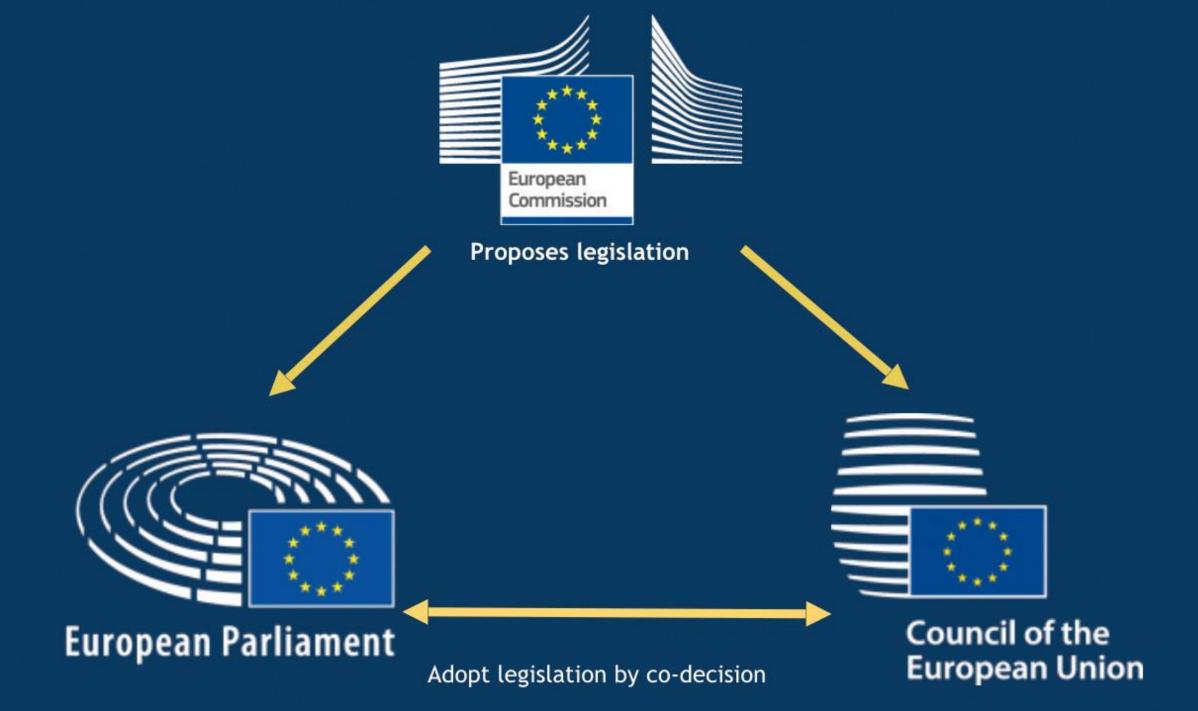
- Regular electronic reporting
- Transparency
- Evaluation and review
- Committee
- Access to justice and penalties
- Transposition



Timeline for implementation

Entry into force	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11
Transposition		7	1								
Establishing soil districts and appoint authorities		1	1								
Establishing digital soil health data portal (COM and EEA)		7									
Soil health certification scheme		7									
First soil measurements (including LUCAS)				J.							
First soil health assessment											
First reporting to the Commission and EEA						\star					
Establishing a register (potentially) contaminated sites				Y							
Establishing a risk-based approach				T.	•						
Identifying potentially contaminated sites							Y	X			
Investigating potentially contaminated sites											
Managing contaminated sites											
Definining SSM and regeneration practices											
Evaluation of the Directive						7	•				
Second soil measurements									ž	T	
Second soil health assessment										7	
Second reporting to the Commission and EEA											\star





Thank you! Questions?

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