



Soil carbon management for climate change mitigation and adaptation: framing and integrating the issue in the evolving policy environment

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Outline

- Introduction
- Soil carbon management in the current regulatory framework
- Challenges for better integration of soil carbon management in future policies



Soil carbon management in the current regulatory framework

- Importance of soil recognized at a strategic level:
 - Soil Thematic Strategy, 2006
 - Draft Soil Framework Directive, 2006
 - Communication on land as a resource, expected 2014
- No overarching policy framework for soil protection
- Soil carbon management (soil organic matter) not targeted by existing policies

Management practices	Relevance to objectives of existing policies	Policy instrument
Organic manure input	Nitrates Directive	Nitrate vulnerable zones Nutrient budget plans CAP cross-compliance
Cover crops, perennial crops, legumes	WFD, Nitrates Directive, Resource Efficiency Roadmap, Adaptation Strategy, Floods Directive	CAP rural development plans River Basin Management Plans (RBMPs) CAP Pillar 1 greening payments
Incorporation of crop residues	WFD, Nitrates Directive, Resource Efficiency Roadmap, Adaptation Strategy	CAP cross-compliance (ban on arable stubble burning)
No-tillage practices	WFD, Nitrates Directive, Resource Efficiency, Adaptation Strategy, Floods Directive	CAP rural development plans RBMPs
Organic farming	Birds and Habitats Directives, WFD, Nitrates Directive, Floods Directive, Adaptation Strategy	Primarily CAP rural development LIFE+ Pillar 1 greening payments for grassland protection RBMPs
Maintenance of permanent grassland		
Maintenance and restoration of peatlands and wetlands (including rewetting of organic soils)		
Conversion of arable land to grassland in risk areas		
Afforestation of cropland / woodland creation in risk areas		





Soil carbon management in the Common Agricultural Policy

- Pillar 1 (direct farm payments)
 - ► Greening measures: → 30% of Pillar 1 budget
 - ► Cross-compliance: GAEC standards, Statutory Management Requirements, Farm advisory → BUT missed opportunity: GAEC 7 on protection of carbon rich soils
- Pillar 2 (rural development)
 - ► A large choice of measures: Agri-environment-climate, organic farming, environmentally friendly investments; Farm advisory support





Challenges in developing policies for soil carbon management

- How should soil carbon management be framed?
- The need for a horizontal mechanism
- Soil carbon benefits are difficult to demonstrate and convey
- Complexity of translating science into policy
- Lower political urgency at the local level
- Institutional and financial capacities





Thank you for your attention.

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