



# Necessitat d'Informació de sòls a la Comunitat



Luca Montanarella European Commission

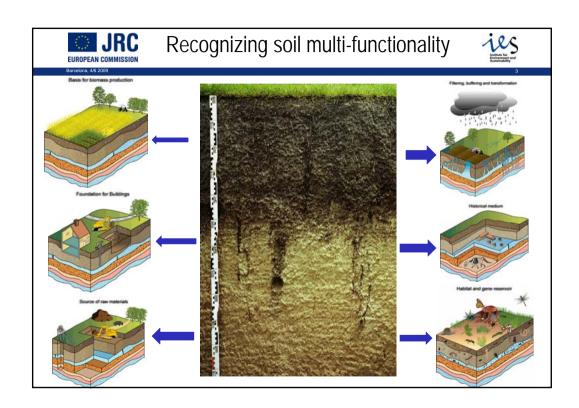




# EU Thematic Strategy for Soil Protection adopted by the European Commission on the <u>22<sup>nd</sup> of September 2006</u>

- COMMUNICATION <u>COM(2006) 231</u> on the Thematic Strategy for Soil Protection
- DIRECTIVE <u>COM(2006) 232</u> establishing a framework for the protection of soil and amending Directive 2004/35/EC
- IMPACT ASSESSMENT <u>SEC(2006) 620</u> of the Thematic Strategy for Soil Protection

http://ec.europa.eu/environment/soil/index.htm





#### **ACTIONS AND MEANS** of the Soil Thematic Strategy



- Still to be implemented:
  - <u>Framework legislation</u> with protection and sustainable use of soil as its principal aim;
- Already in the implementation phase:
  - <u>Integration</u> of soil protection in the formulation and implementation of national and Community policies;
  - <u>Research</u> supported by Community and national research programmes;
  - Public awareness of the need to protect soil.



### Integration of soil protection in EU policies is



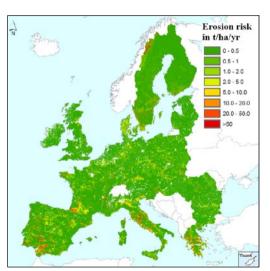
- Common Agricultural Policy (CAP)
- Climate Change Policy
- Water Protection Policy
- Biodiversity Protection Policy
- Forest Protection Policy
- Regional Policies
- Food Safety (EFSA)
- Energy Policy
- Development Policy
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### Soil erosion in Europe



Barcelona, 4/6 2009

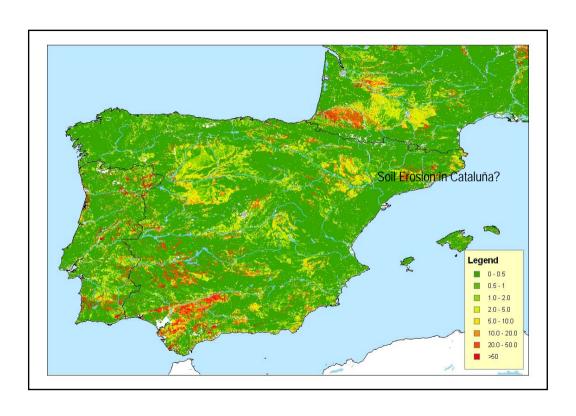


Map showing the risk of water erosion in the 27 Member States of the European Union





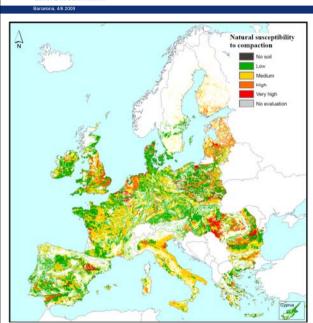
Examples of rill erosion and redeposition of sediment at the base of the slope





### Soil compaction in Europe





Map of the natural susceptibility of soils to compaction in the 27 member states of the European Union.



Harvester for sugar beet (above) and compacted soil (below)

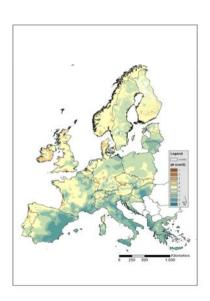


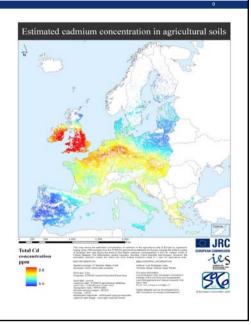
Soil compaction in Cataluña?

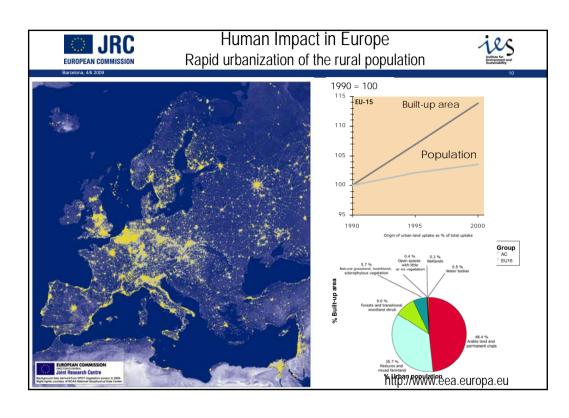


## Acidification and heavy metals

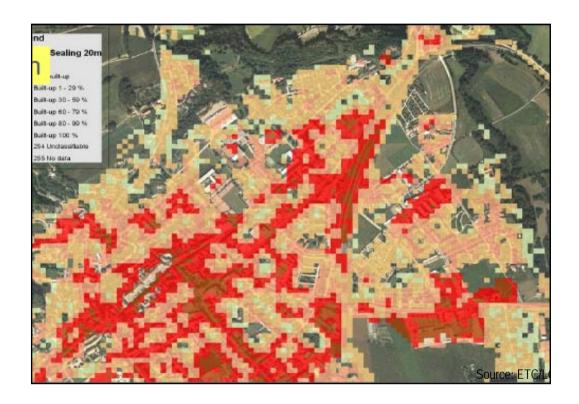


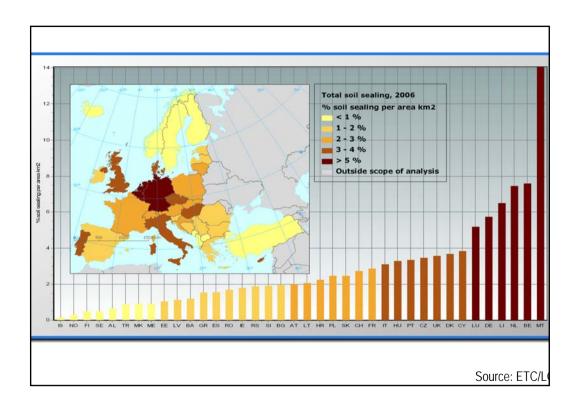


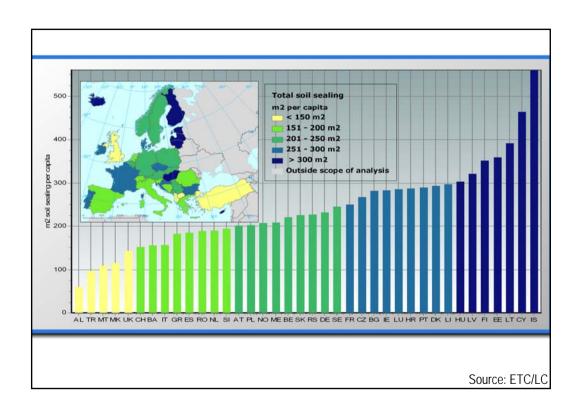


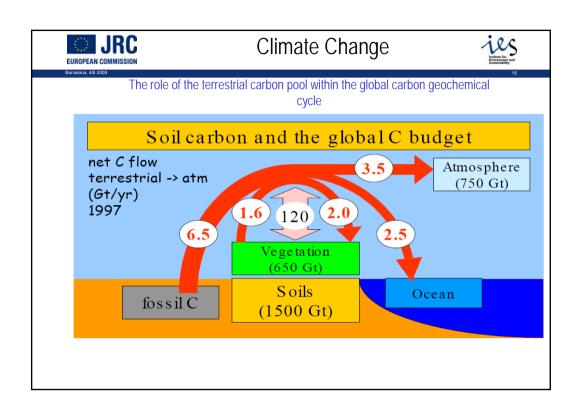








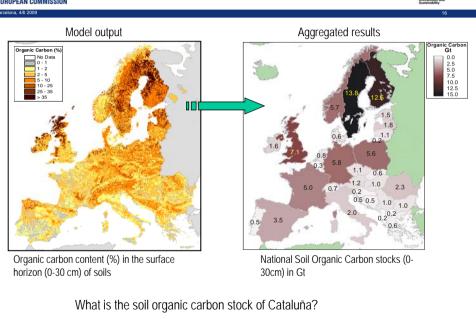






#### Soil Organic Carbon in European Soils

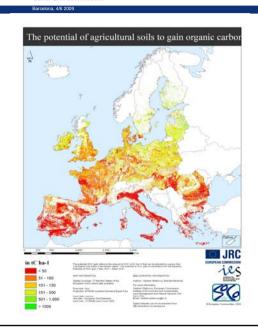


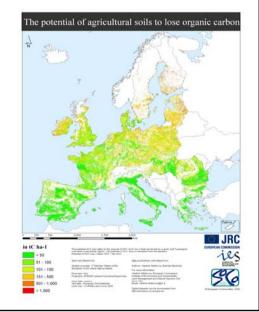


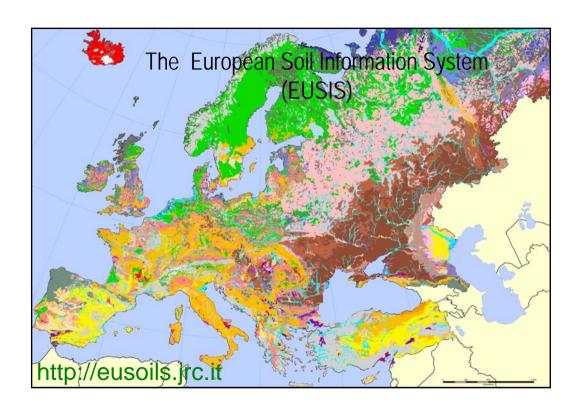


### Where can we lose or gain SOC in Europe?





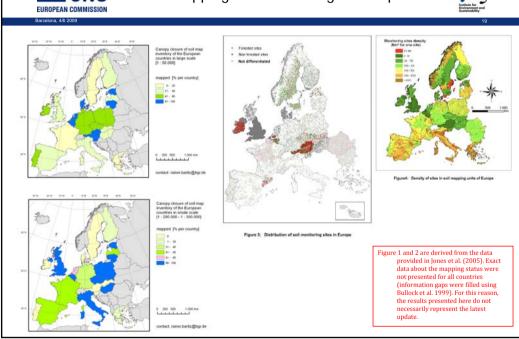






### Soil mapping and monitoring in Europe

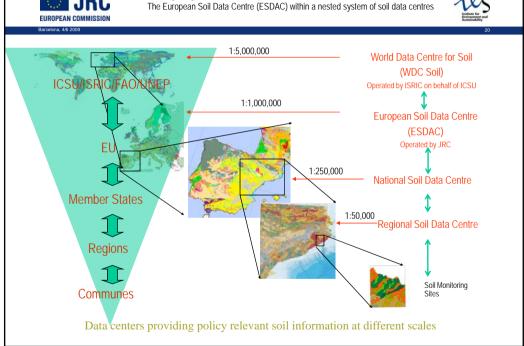






Integrating data ad different spatial scales: From the Local to the Global Scale







### Thank you for your attention!



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http://ies.jrc.ec.europa.eu http:/eusoils.jrc.it