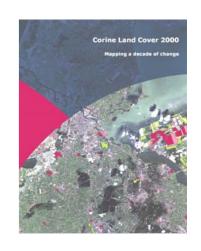
Use of CORINE Land Cover in delivering the EEA strategy

Prof. Jacqueline McGlade Executive Director

Acknowledgements

- EIONET Member Countries
 - ✓ national teams / co-funding
- Commission Services:
 - ✓ JRC: joint coordination of the project (IMAGE2000)
 - ✓ DGs Agriculture, Environment, Regional Policy (co-funding)
 - ✓ Others: Research, Eurostat
- Eurimage, Swedish Space Coorporation, Metria
 - ✓ multiple use satellite data
- European Topic Centre on Terrestrial Environment
 - ✓ technical coordination



CORINE* Land Cover (CLC): A European transboundary land cover database



A tool for monitoring Europe's changing landscape

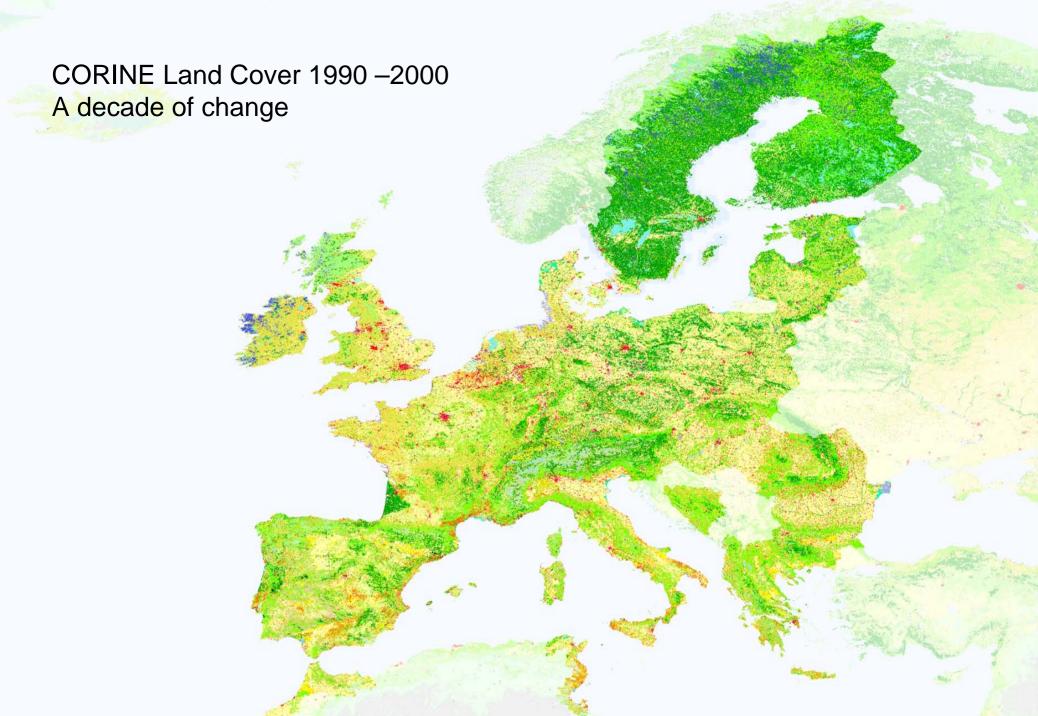




1989

1956

Source: J. Jaeger 2004

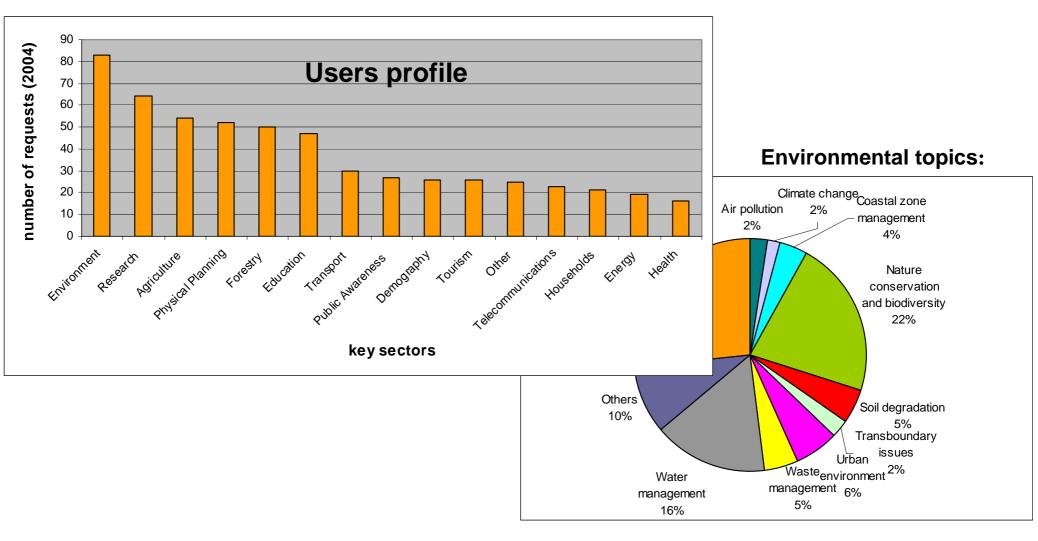


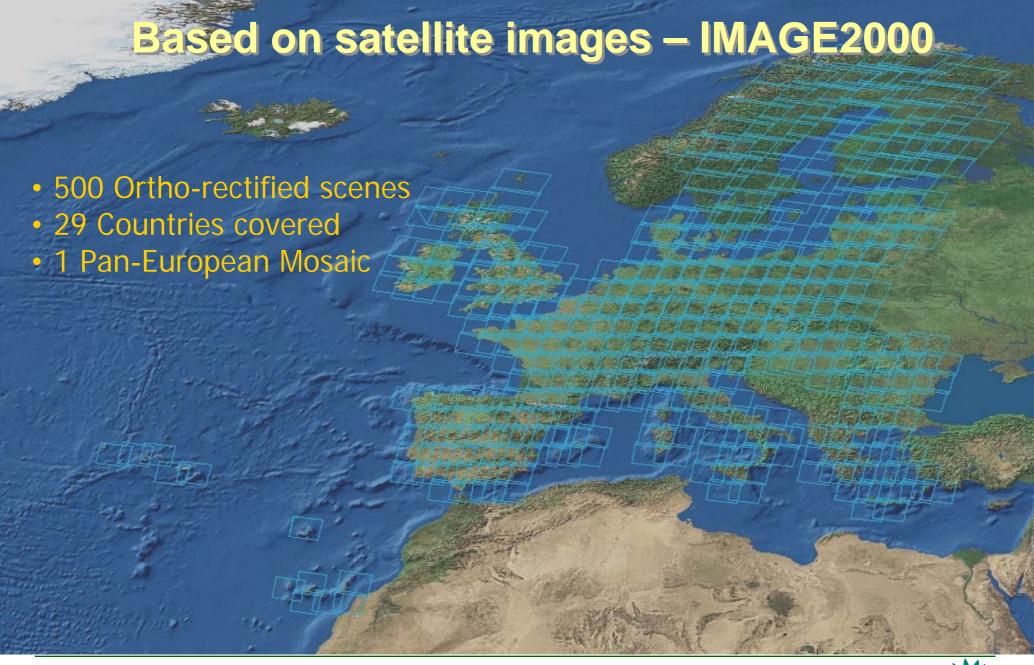
Some facts and figures about the project

- 29+ participating European countries
 Involvement of local, regional and national expertise
- > 100 participating organisations (public/private)
- > 150 person-years for production of the database
- 13 Meuro based on co-funding 50/50 shared costs
- Updated every 10 years
- High number of users (first CLC1990 >10 000 users)
- Large volume data freely accessible:

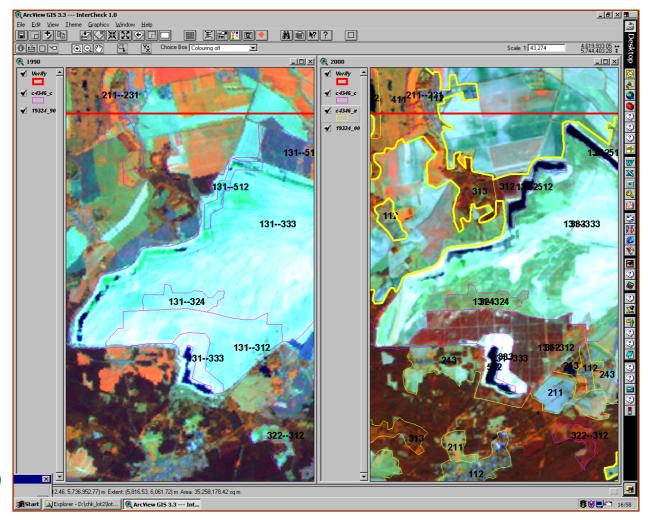
IMAGE2000: 150 Gb / CLC2000: 2 Gb

A multi-purpose product





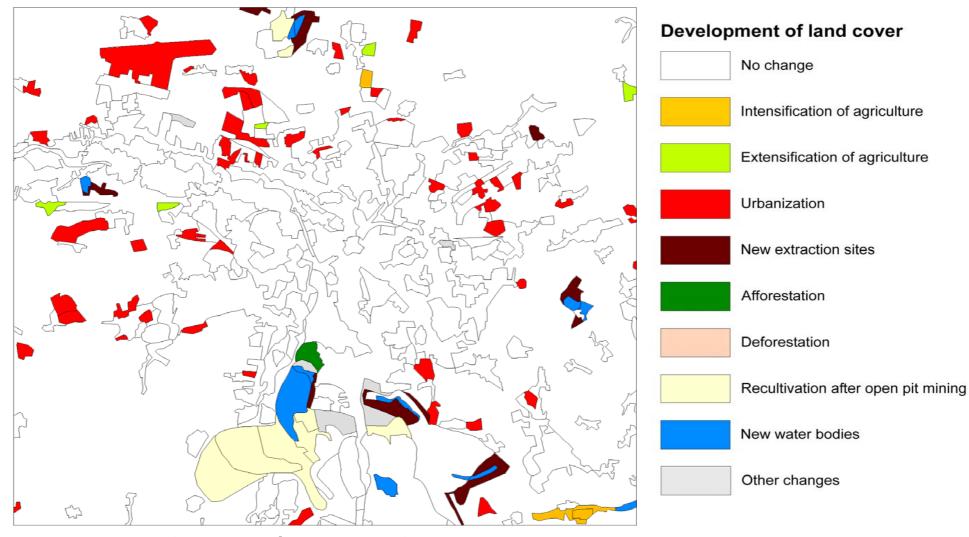
A standard European methodology for mapping land cover changes 1990 - 2000



1990

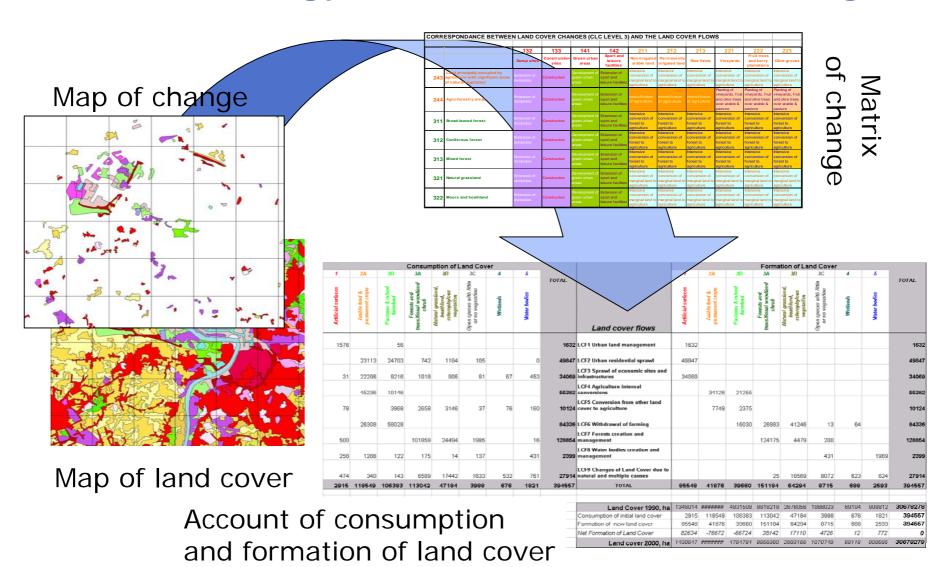
2000

Example of mapping land use changes (Region of Leipzig)



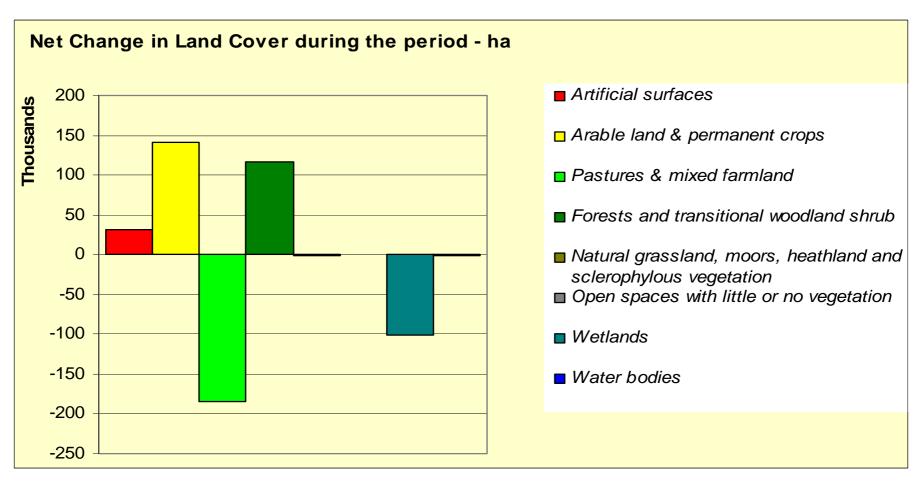
Development of land use / land cover from 1990 to 2000 in 9 grouped change classes

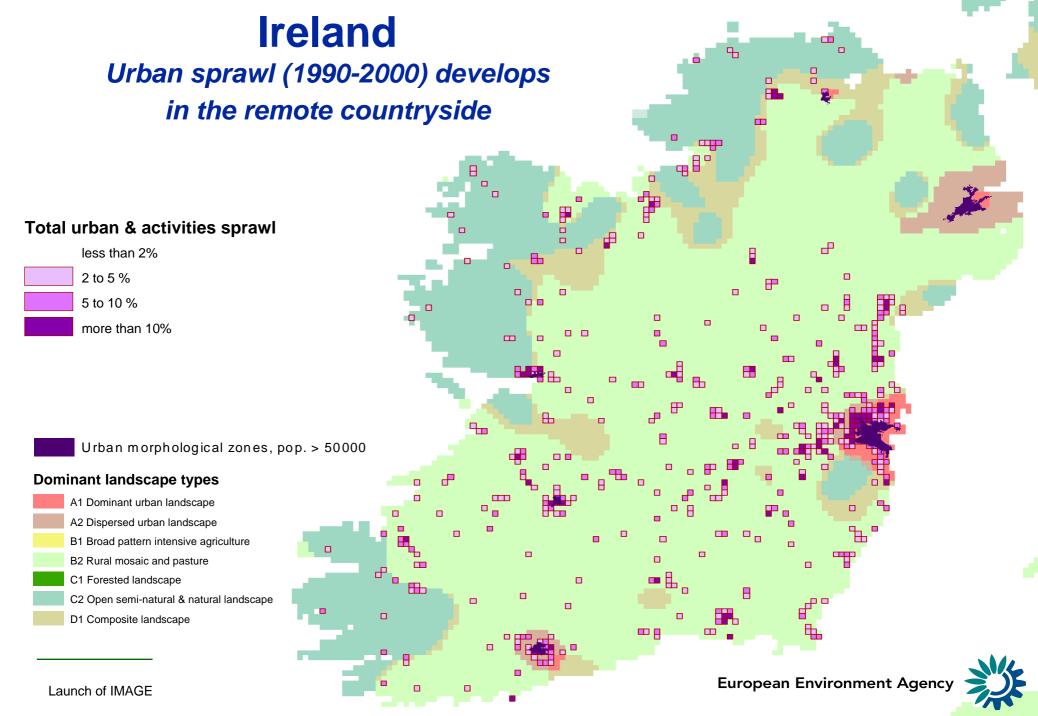
Methodology of land cover accounting



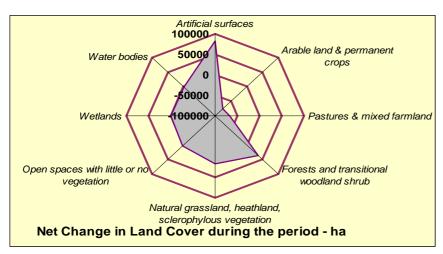
Example of result of land cover accounts:

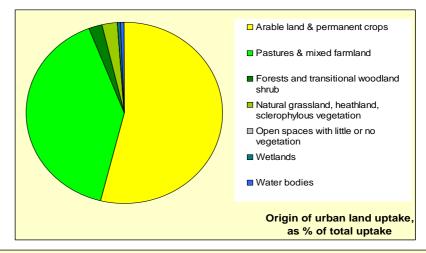
Ireland, Net Change in Land Cover 1990-2000, 1000 hectares

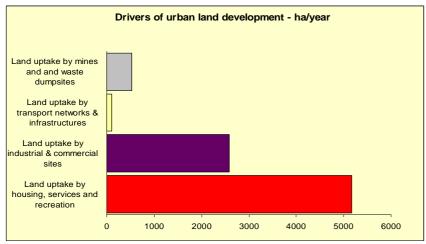


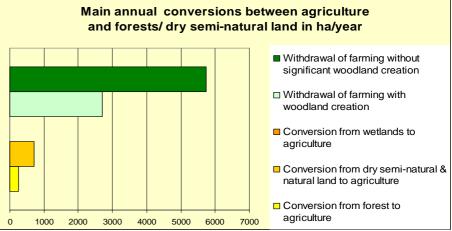


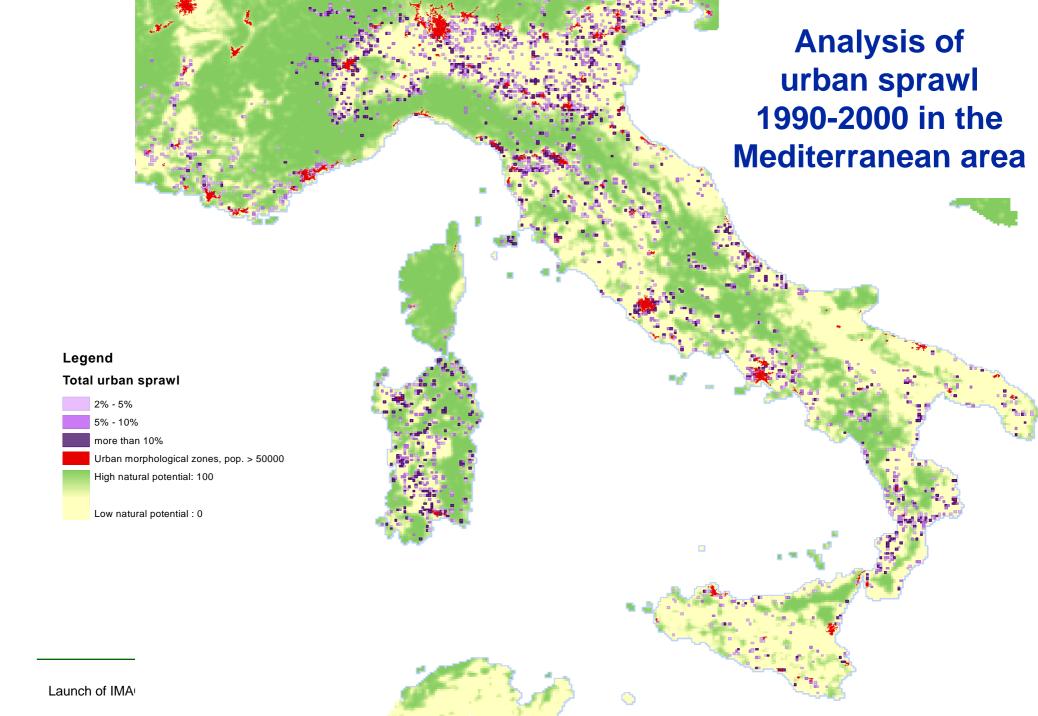
Indicators derived from land accounts Italy 1990-2000





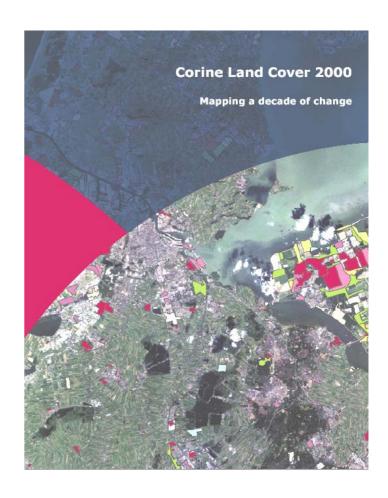






Supporting major EU policies

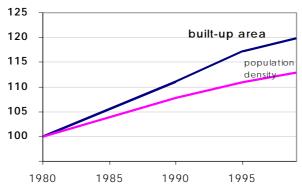
- Environment Policy
 - ✓ Habitat Directive, Biodiversity convention
 - reference layers NATURA2000 GIS
 - ✓Water Framework Directive
 - characterisations of water catchments
 - ✓Integrated Coastal Zone Management
 - interim evaluation European coastal strategy
 - ✓ Climate change
- Rural Development
- Regional Policy
 - √ territorial indicators
- Research Policy

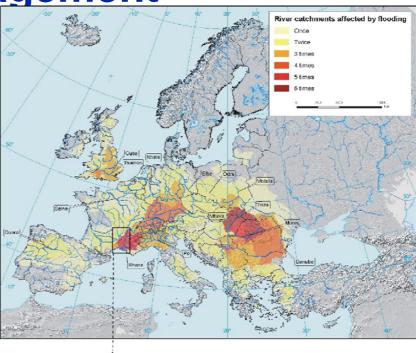


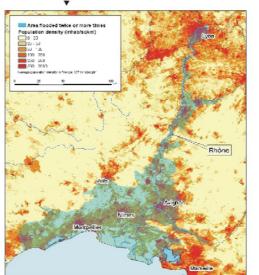
Flood risk management



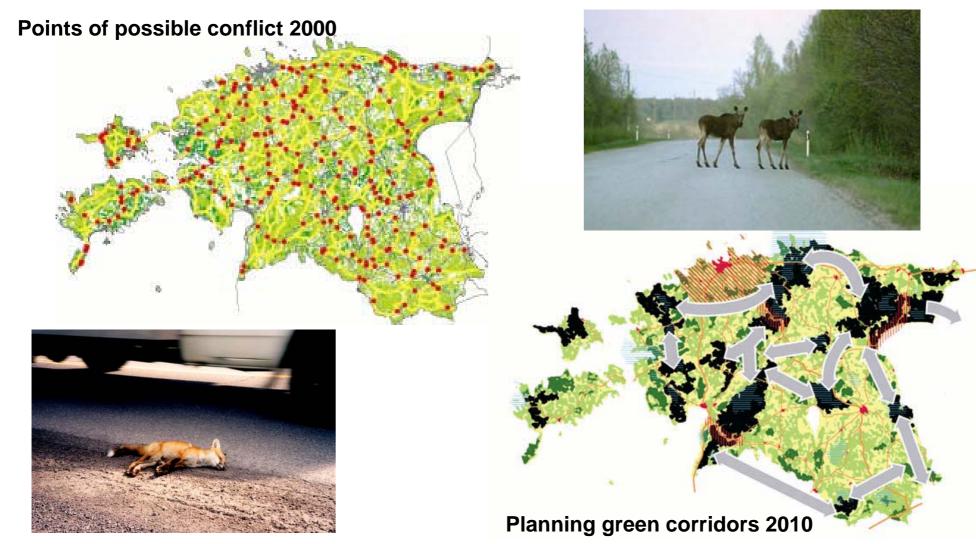
EU average built-up area in 2000 : 90 m² / person



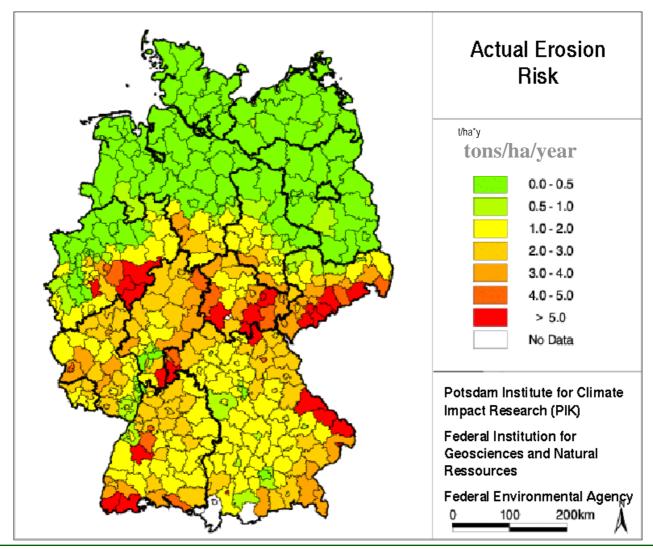




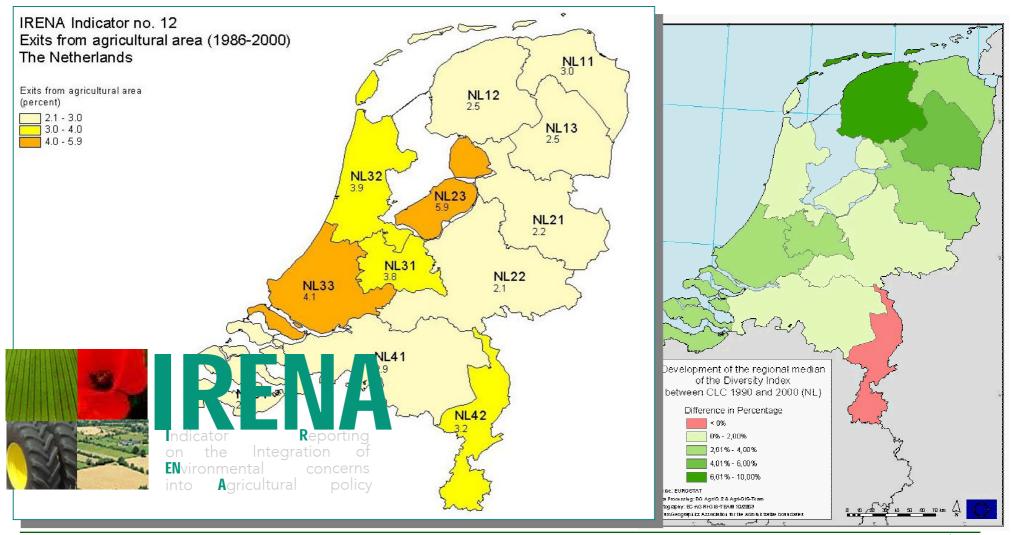
Halting loss of biodiversity – Example Estonia



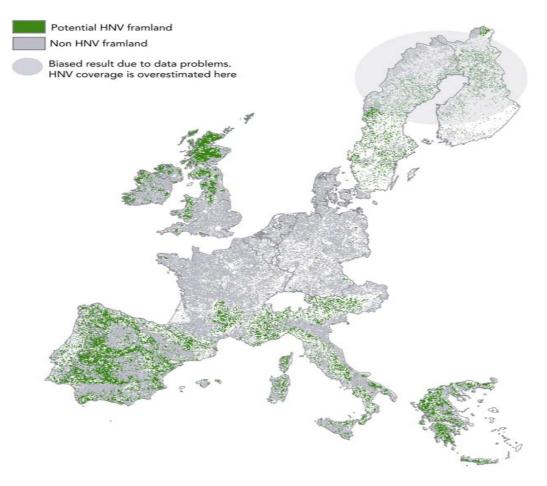
Modelling soil erosion risk – example Germany



Agri-environment indicators – example Netherlands

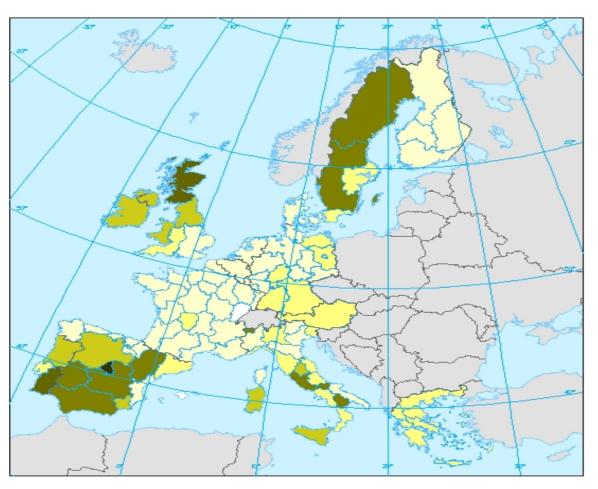


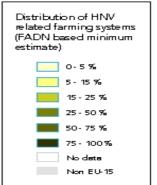
Distribution



Land cover based estimate

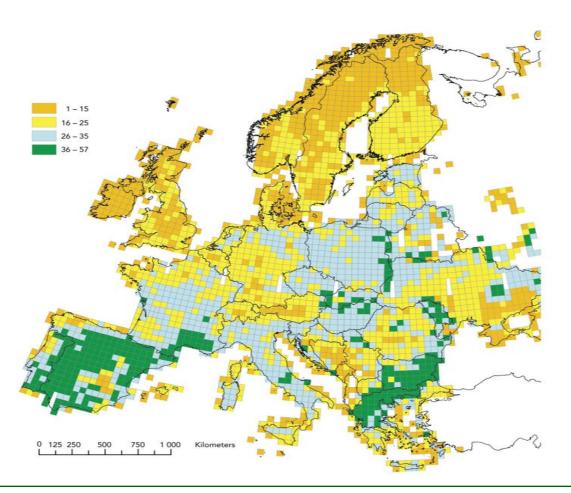
Distribution





Farm system based estimate

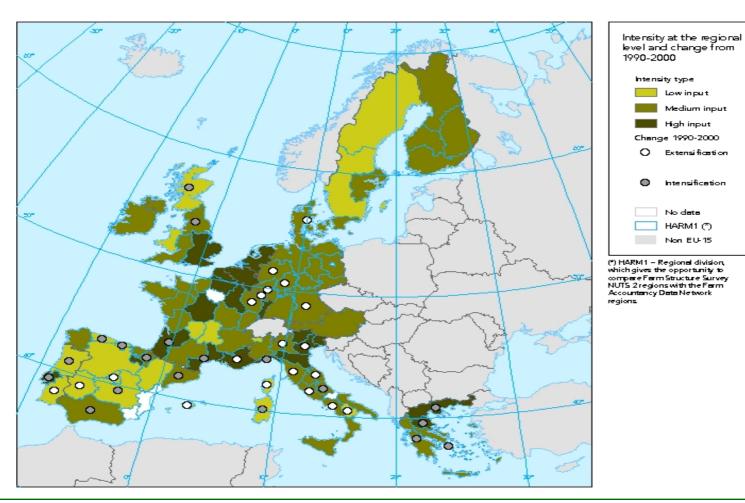
Distribution



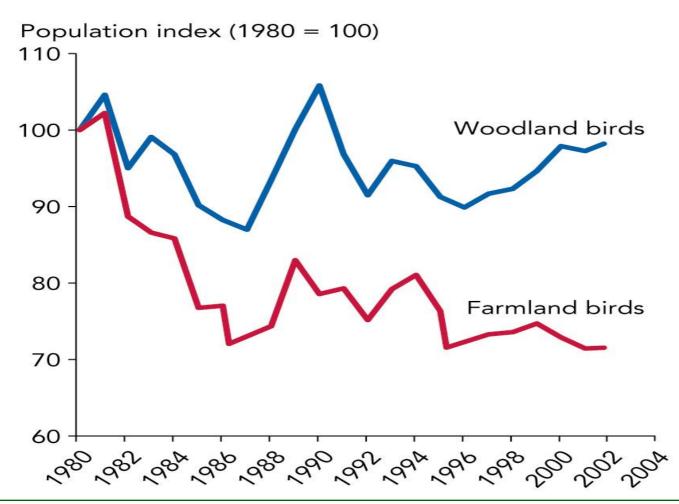
Species based estimate

IRENA

Farming intensity trends

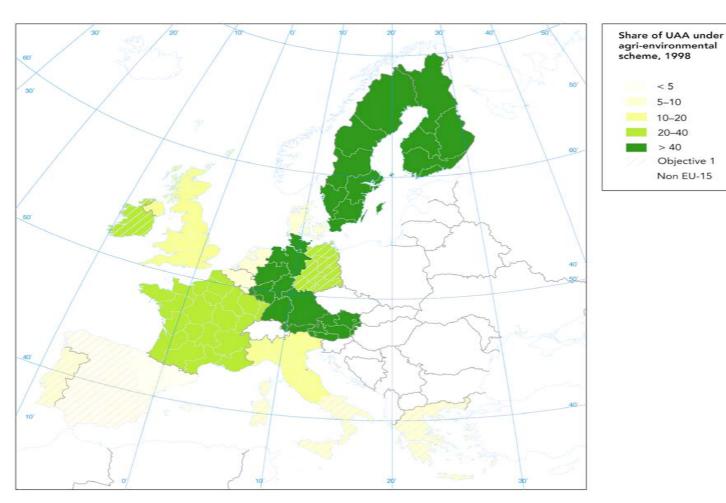


Species richness

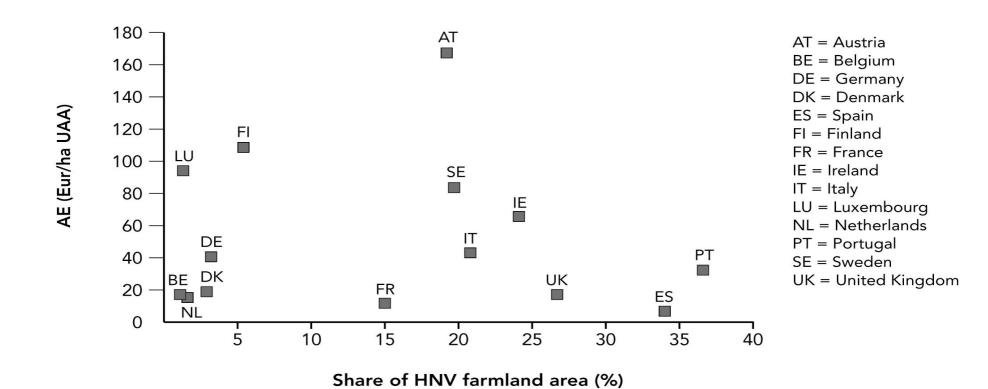


IRENA

Agri-environment schemes

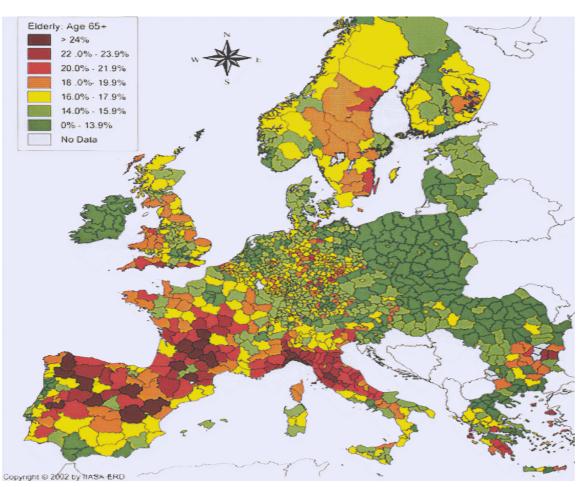


Targeting



PRELUDE

Context: demography



Aging and depopulation

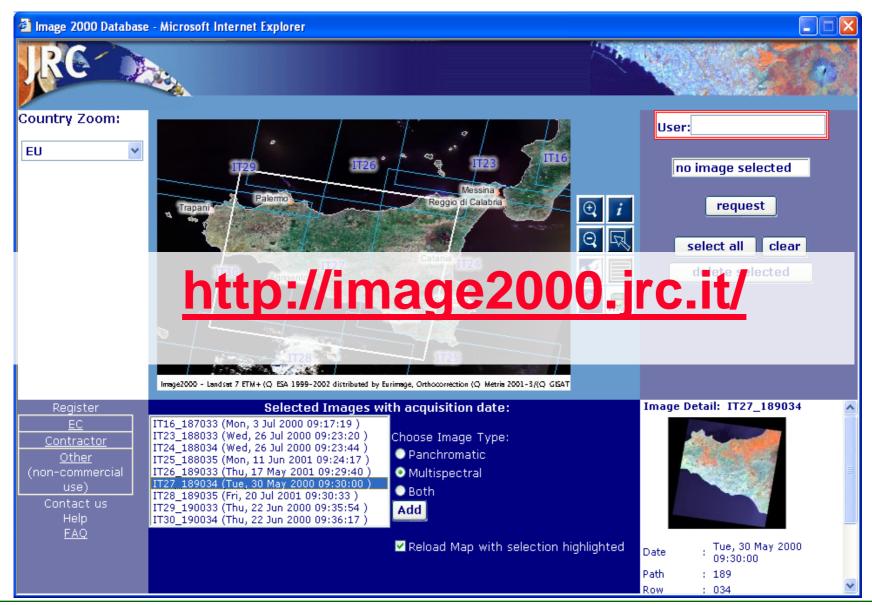
Data dissemination from 17 Nov 2004 onwards:

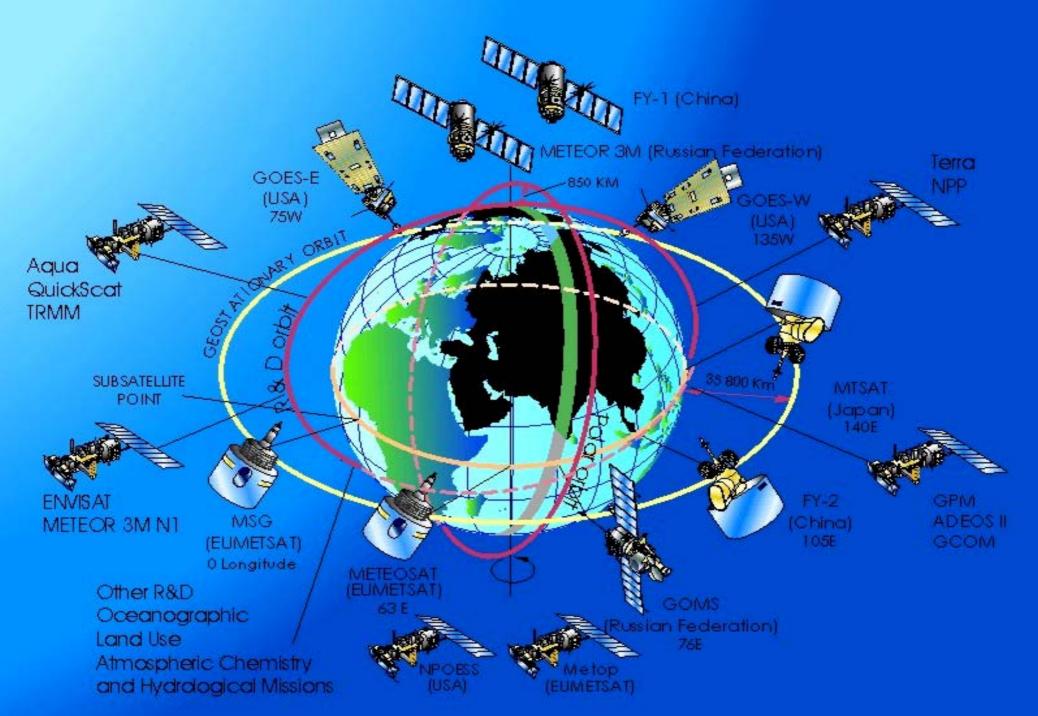


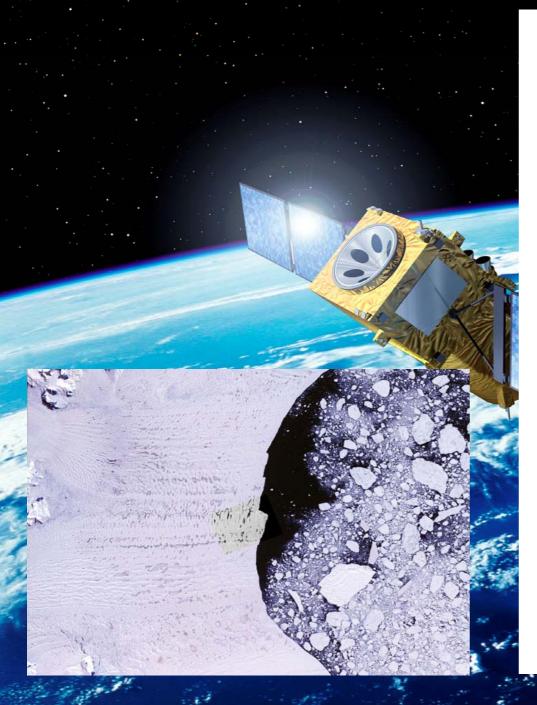
- Widest possible dissemination results are available free of charge
- A first step towards building a European Spatial Data Infrastructure (INSPIRE)



Data dissemination from 17 Nov 2004 onwards:

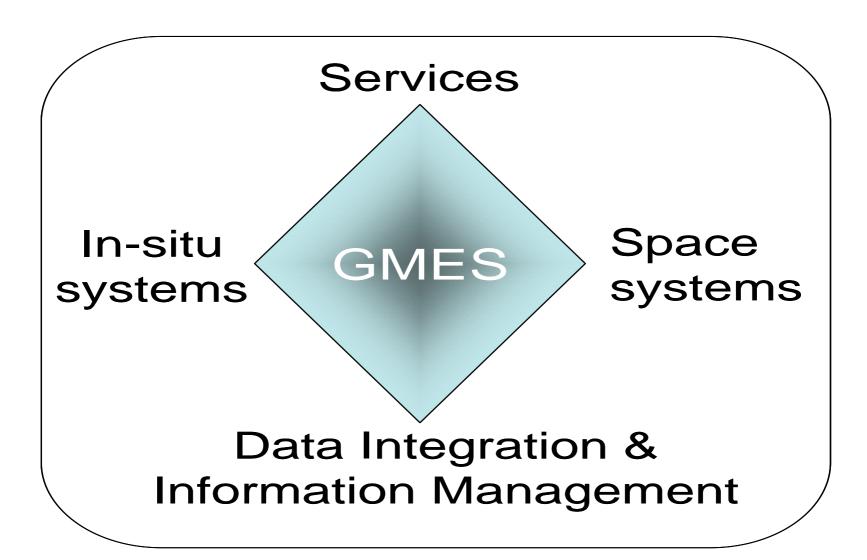








Global Monitoring for Environment and Security



Benefits Focus



Natural & Human Induced Disasters



Water Resources



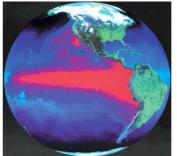
Terrestrial, Coastal & Marine Ecosystems



Human Health & Well-Being



Energy Resources



Climate Variability & Change



Sustainable Agriculture & Desertification



Biodiversity

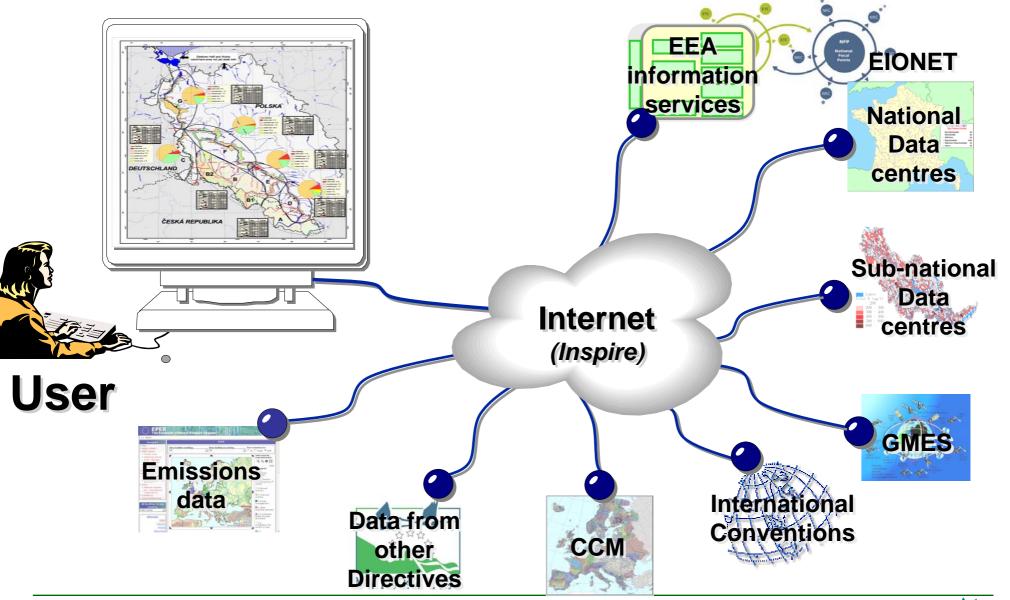


Weather

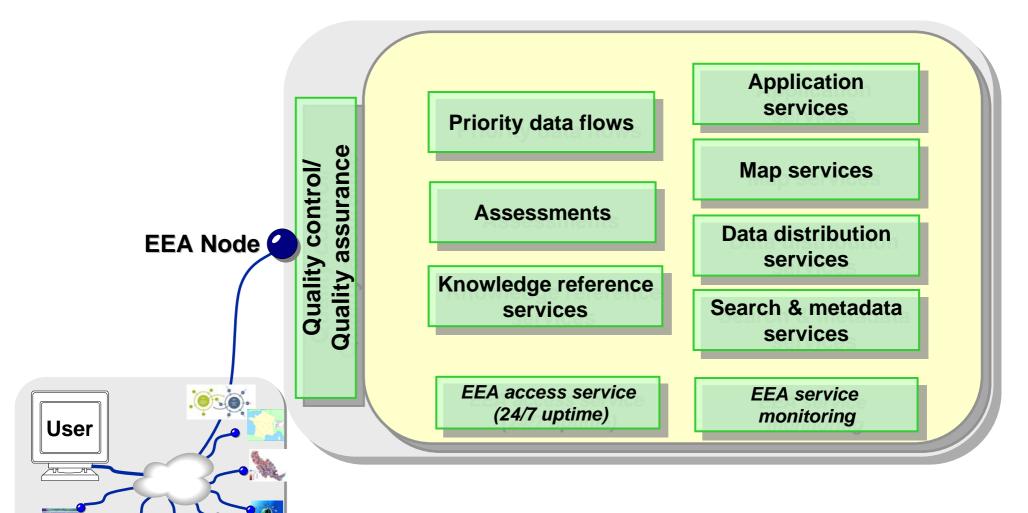
Information,

Forecasting & Warning

Building the European Spatial Data Infrastructure



EEA information services



Thank you for your attention!



http://www.eea.eu.int