

The Institute for Environment and Sustainability

Prof. Dr. Leen Hordijk

Director

IES Mission Statement

The mission of the Institute for Environment and Sustainability is to provide scientifictechnical support to the European Union's Policies for the protection and sustainable development of the European and global environment.



Customers: EC, EEA, EP, Member States, Global Organisations



What is the Joint Research Centre?



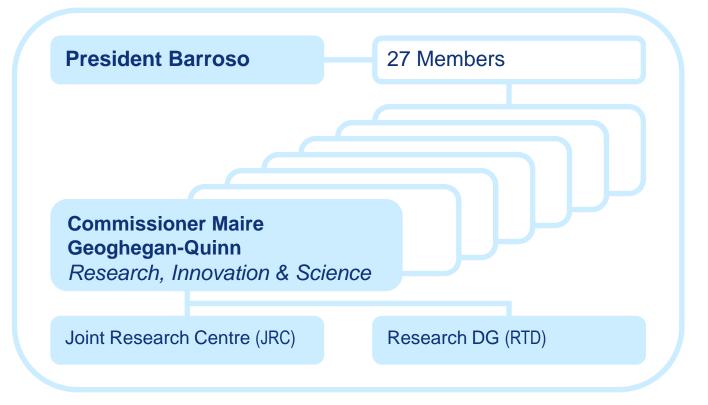
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The JRC is one of the Directorate Generals of the European Commission











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Our Structure: 7 Institutes in 5 Member States

IRMM - Geel, Belgium
Institute for Reference Materials and Measurements

ITU - Karlsruhe, Germany
Institute for Transuranium Elements

IE - Petten, The Netherlands – Ispra, Italy Institute for Energy

IPSC - *Ispra, Italy*Institute for the Protection and Security of the Citizen

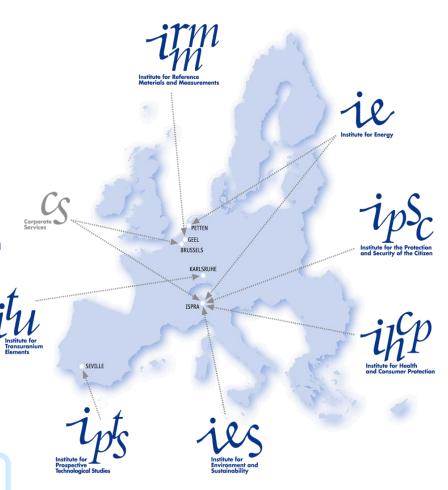
IES - *Ispra, Italy*Institute for Environment and Sustainability

IHCP - Ispra, Italy
Institute for Health and Consumer Protection

IPTS - Seville, Spain
Institute for Prospective Technological Studies

~ 2750 staff

~ 330 M€/y budget (+ 40 M€/y competitive income)





Organisational Chart IES, June 2010

Director Leen HORDIJK

Task Force Environment and Health
Peter PÄRT

H00 - Office of the Director
Pamela KENNEDY

H01 - Management Support Unit
Neil HUBBARD

Total staff: approx. 460

H02 · Climate Change Unit Frank RAES

H03 - Global Environment Monitoring Unit
Alan BELWARD

H04 · Transport and Air Quality Unit
Alois KRASENBRINK (acting)

H05 · Rural, Water and Ecosystem Resources Unit
Giovanni BIDOGLIO

H06 - Spatial Data Infrastructures Unit
Alessandro ANNONI

H07 · Land Management and Natural Hazards UnitGuido SCHMUCK

H08 - Sustainability Assessment
Guido SCHMUCK (acting)





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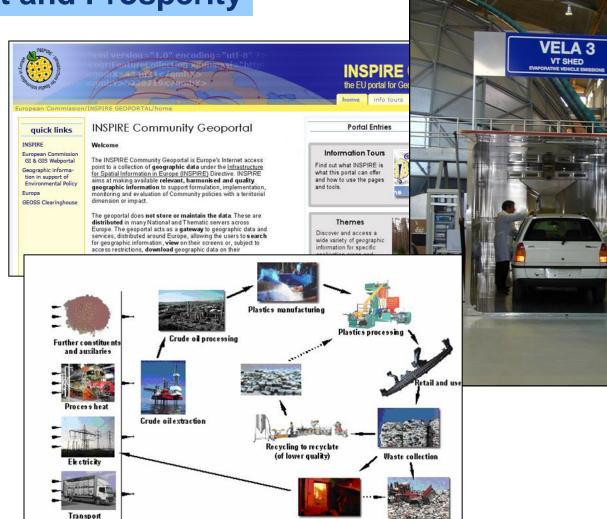
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Environment and Prosperity

INSPIRE

Sustainable Transport

Life Cycle Assessment



Incineration, electricity generation





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Environment and Solidarity

Marine Environment

Water Quality

Agri-environment

Soil and Forest
Data Centres

Greenhouse Gas Inventories







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Environment and Security

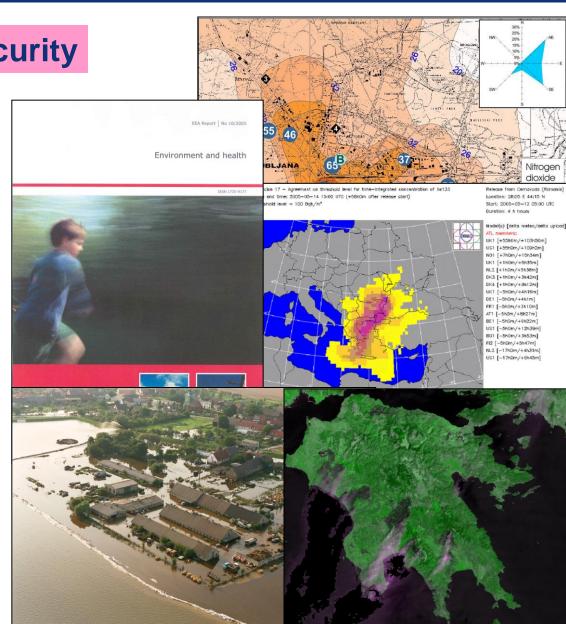
Environmental Pollution

Radioactivity Monitoring

Environment and Health

Floods & Droughts

Forest Fires







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The Global perspective, including support to Africa

Climate Change

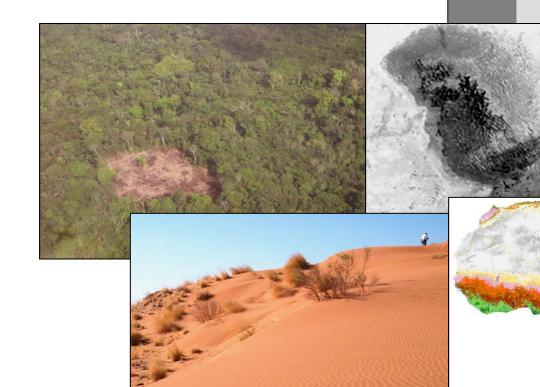
GMES

Deforestation

Desertification

Biodiversity

RESEARCH AT JRC in support of EU CLIMATE CHANGE policy making





Why did we form an Action-team "MAPLE"?



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MAPLE means <u>Monitoring across policies and environmental media</u> Primary objective:

 support Commission activities through the use of environmental monitoring data on the occurrence and levels of pollutants in <u>all</u> media and natural resources

Aims:

- Provide policy options when environmental measurements are needed
- Explore the feasibility of a monitoring concept
- Ensure comparability of monitoring data in space and time
- Anticipate upcoming issues by horizon scanning pan-regional monitoring activities

MAPLE maintains a series of cutting-edge analytical and bio-analytical measurement and monitoring capabilities. Striving for integrated approach based on monitoring and modelling, MAPLE supports other JRC Action-teams and activities.















IES Networking



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National Institutes

PEER Group (ALTERRA, CEH, CEMAGREF, NERI, SYKE, UFZ, JRC-IES), European Soil Bureau Network, Air Quality Reference Laboratories

European Institutions

EEA, ESA, ECMWF

African Institutions

AUC, Regional Economical Centres (REC), RCMRD, ...

Global Organisations

FAO, WHO, WMO, GEO / GEOSS, UNEP, UNFCCC, UNCCD, UN CBD, IIASA



Technical Infrastructures for Environmental Research



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- Vehicle Emission Laboratories (VELA 1-7)
- European Reference Laboratory for Air Pollution (ERLAP)
- High Performance Analytical Laboratories, incl. 3 Mobile Labs
- EMEP/GAW Super Site (Climate Monitoring) at the JRC Ispra
- Greenhouse Gas Flux Measurement Towers
 San Rossore and Parco del Ticino
- Marine measurement stations in the Adriatic and Baltic Sea









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Key Information Systems and Databases

- Technical Secretariat of INSPIRE / European Geoportal
- Water Information System for Europe (WISE)
- European Forest Fire Information System (EFFIS)
- **European Flood Alert System (EFAS)**
- WMO World Data Centre for Aerosols
- Radioactivity Environmental Monitoring Database (REM)
- European and Africa and Northern Circumpolar Soil Database
- Global Land Cover 2000 Database
- Assessing protected areas in Africa Tool (APAAT)
- EU Water Initiative Communication and Information System (EUWI-CIS) & AquaKnow project
- Database on burnt areas in Africa



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Broad Customer Base

- DG Environment & DG Climate Action
- DG Agriculture and Rural Development
- **DG MOVE**
- DG External Relations, DG Development, DG EuropeAid
- DG Regional Policy
- **DG** Eurostat
- **DG** Research
- DG Enterprise and Industry
- DG Health and Consumer Protection
- **European Environment Agency**
- African Organisations (AUC, RCMRD, RECs, etc.)
- UN Organisations (UNEP, WMO, FAO etc.)



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