



DG JRC's support to EU Enlargement Process

Screening with Croatia and Turkey

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Institutional and Scientific Relations

DG Joint Research Centre

European Commission

<http://www.jrc.cec.eu.int>



The mission of DG JRC

to provide customer-driven scientific and technical support for the conception, development, implementation and monitoring of EU policies.



As a service of the European Commission, the JRC functions as a reference centre of science and technology for the Union. Close to the policy-making process, it serves the common interest of the Member States, while being independent of special interests, whether private or national



The structure of DG JRC

7 Institutes in 5 Member States \cong 2500 staff \cong 300 M€/y budget + 40 M€ income

1000 partners in networks + 1500 partners in indirect actions



IE - Petten The Netherlands
- *Institute for Energy*



IRMM - Geel Belgium
- *Institute for Reference Materials and Measurements*



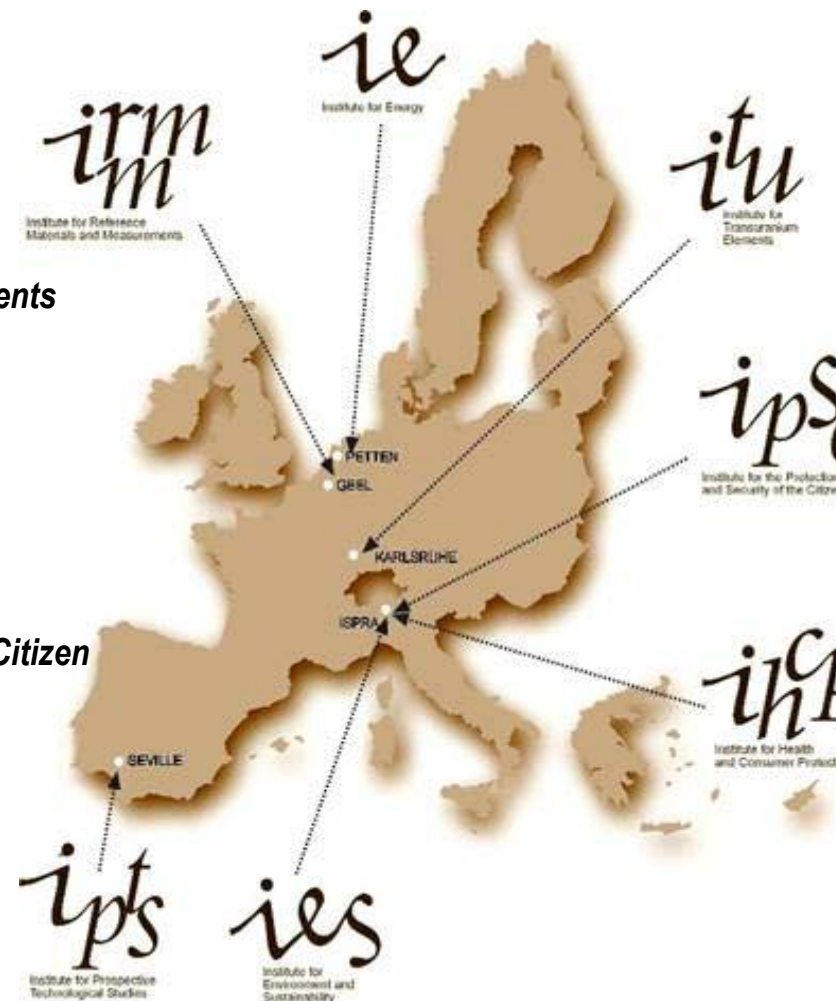
ITU - Karlsruhe Germany
- *Institute for Transuranium Elements*



IPSC - IHCP - IES - Ispra Italy
- *Institute for the Protection and Security of the Citizen*
- *Institute for Health and Consumer Protection*
- *Institute for Environment and Sustainability*



IPTS - Seville Spain
- *Institute for Prospective Technological Studies*



Chapter 1: Free Movement of Goods

Chemical Measurements; Certified Reference Materials, Metrology

Chapter 10: information Society and Media

Information Society Policies; Cyber-security; European Media Monitoring

Chapter 11: Agriculture and rural development Remote Sensing Monitoring; Crop Production Forecasts; Environment Concerns in Agriculture;

Chapter 12: Food Safety, Veterinary and Phytosanitary policy

Livestock Traceability; Authentication of Origin; Food Safety; Organic Food; Mycotoxins; Processed Food; Acrylamides; Allergens; Nutrients and Food Additives; Pathogens Detection (incl. TSE); Certified Reference Materials; Veterinary Drugs and Pesticides

Chapter 13: Fisheries

Compliance with EU Regulations; Vessel Monitoring Systems

Chapter 14: Transport Policy

Pollution from Road Vehicles; Aviation Safety (accident reporting), Tachographs

Chapter 15: Energy

Energy Efficiency; Energy Modelling; Fuel Cells; Photovoltaics; Electricity Storage; Energy from Biomass and Waste; Alternative Fuels; Techno-Economic Analysis; Nuclear Safety, Security and Waste Management; Radiation Protection

Chapter 17: Economic and Monetary Policy

Analyses of the Lisbon Process; Economic Analysis

Chapter 25: Science and Research

ERA Progress Monitoring; Support to the 3% Action Plan; Foresight

Chapter 27: Environment

Air, Water and Soil Quality; IPPC; GMOs; Biotechnology Foresight; Chemical Safety (REACH); Biocides; Alternative Tests; Human Exposure to Chemicals; SEVESO II and Natural Hazards; Forests; Floods; Landslides; Avalanches and Volcanoes; Earthquake Damage; Climate Change, Illicit Discharges from Ships, Geographical Information Systems

Chapter 28: Consumer and Health Protection

Human exposure to Physical Agents; Health Reference Systems; Foresight

Chapter 30: External Relations

Security, Border Control, Vulnerable Infrastructures, Information Support for Rapid External Action; Civilian Demining; Support to Food Security and Food Aid

DG JRC and Enlargement

Strategic Objectives:

- To help the Candidate Countries in dealing faster with the “EU acquis” in areas of DG-JRC competence
- To contribute to the development of the “European Research Area”





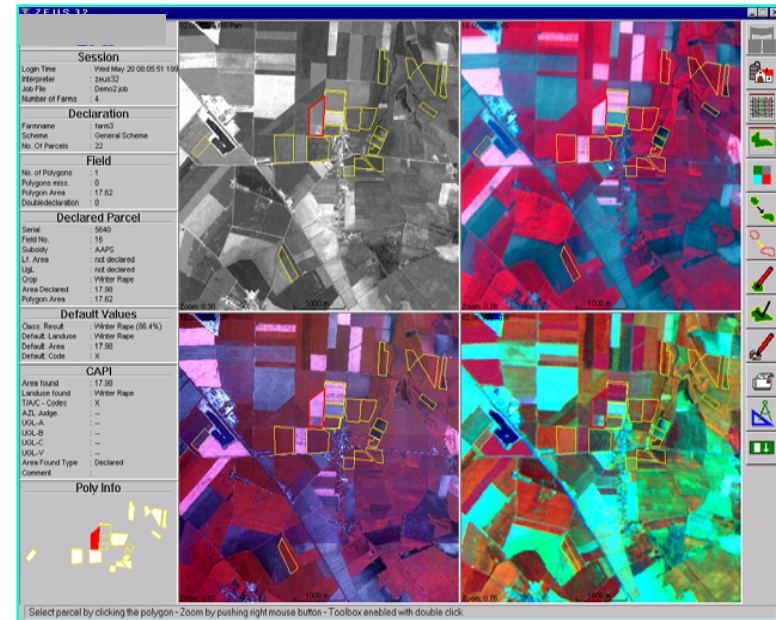
DG JRC 's Enlargement and Integration Action

A specific action dedicated to NMS and CC

Five Intertwined Instruments:

1. Focus JRC core projects on specific Enlargement needs
2. Networks and Indirect Actions
3. Host experts, research fellows
4. Advanced training courses and workshops
5. Information and awareness actions

- 40% of EU budget on agriculture
- Samples of farmers declarations (~5%) checked with Remote Sensing.
- DG JRC supports EC and national administrations at technical level (specifications, recommendations, quality control)
- **Advances in technology improve process by:**
 - Exploitation of very high resolution imagery (air- and space-borne sensors);
 - Accurate positioning and area measurement with GPS and ortho-imagery
 - Data storage and information management
- **Focus on Candidate Countries:**
 - Support development and implementation of Integrated Administrative Control System
 - Carry out Pilot projects
 - Organize training activities
 - Provide early statistical estimations of crop yields

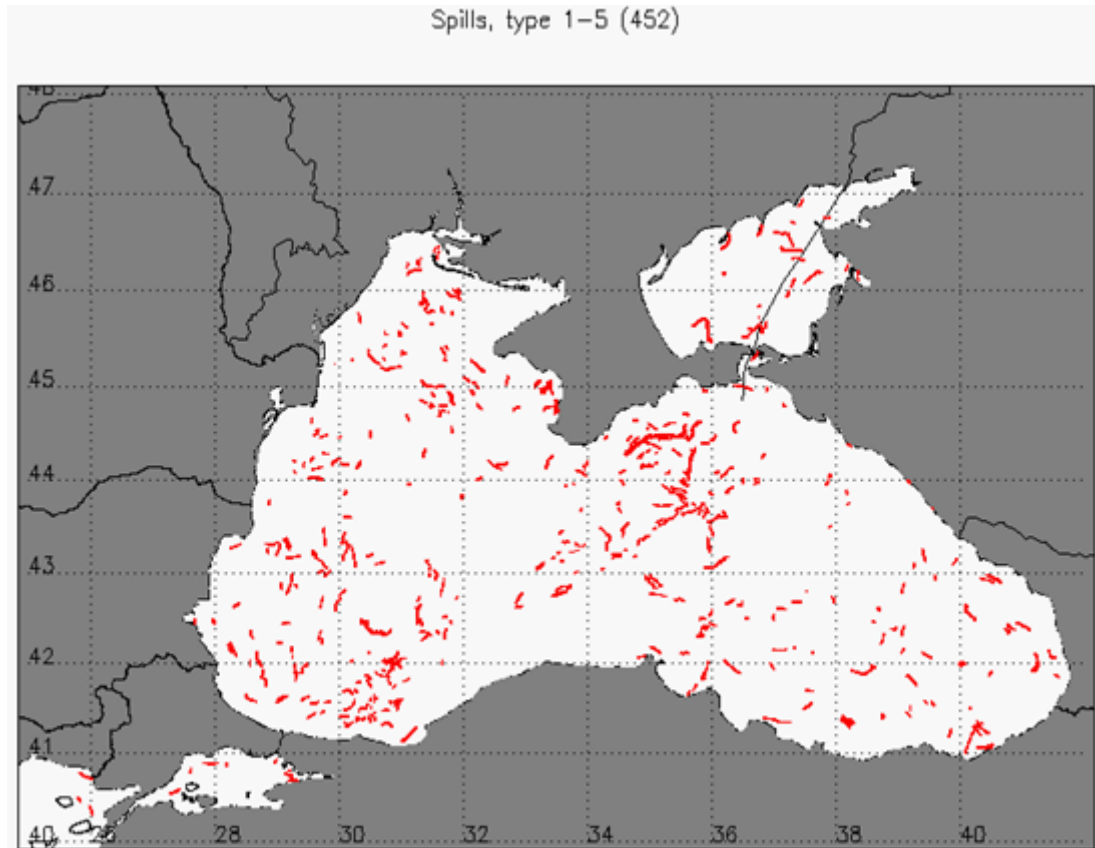


Example - Illicit Oil Discharges in the Black Sea

The mapping of illicit oil spill is based on the analysis and interpretation of satellite Radar image

Main aims are:

- Development of improved methodologies for estimation of relevant parameters concerning oil spills and spilling scenarios
- Identifying areas facing chronic pollution and support the development of an integrated approach for early warning and prompt response
- Modeling and simulations to reconstruct pollution scenario



Spills in the Black Sea
(880 satellite images analyzed - 452 spills detected)

Proposal from the Commission:

- High and increasing customer demand (DGs, Council, Parliament, Member States...) necessitating strong R&D effort
- Support to Candidate Countries emphasised in DG JRC specific programmes
- Continuity in major areas with growth in specific areas (e.g. security, sustainable agriculture, support to Lisbon strategy)
- Slight increase in budget (6% beyond inflation)

DG JRC and Turkey

- DG JRC organised with TÜbitak and the General Secretariat for EU Affairs two information events in Ankara and Gebze (18-19/10/05) with some 400 participants including representatives from Ministries.
- several **joint research projects and activities** in S&T areas including:

Bio/Food/Chemicals

- **GMO**
- **Alternative methods**
- **Food safety**

Environment

- **Soil Quality**
- **Marine environment**
- **hazards**

Agriculture

- **Compliance with CAP**
- **Animal identification**
- **Sustainable agriculture**

Others

- **Nuclear safety and security**
- **Technology Foresight**
- **Metrology**

- 10 Turkish **researchers** currently working at the DG JRC institutes within projects of interest to Turkey
- 150 Turkish experts participate in over 100 **workshops** in 2005 organised by DG JRC on S&T aspects of the EU acquis

- Information Day organised with Ministry Science, Education and Sport in Zagreb on 10 March 2005 (~200 participants)
- **Collaboration started** in the following areas:
 - **Metrology**
 - **Compliance with CAP**
 - **Animal identification**
 - **Wine data bank**
 - **Soil Quality**
 - **Radioactivity Monitoring**
- Opportunities for **Croatian researchers** to work at the DG JRC institutes will open after Croatia's association to FP6
- Some 80 Croatian experts participate in DG JRC **workshops** in 2005 on S&T aspects of the EU acquis with the support of TAIEX

Whom to contact at DG JRC ?

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