



# Joint Research Centre

## *“Robust Science for Policy Making”*



**European Commission  
Joint Research Centre**

Krzysztof Maruszewski  
Director for Institutional and Scientific Relations

Launching FP7 – Conference for Information Multipliers – Brussels, 7-8 February 2007



# What is the JRC?

A Directorate-General of the European Commission:

- Providing **customer-driven and technical support** for the conception, development, implementation and monitoring of EU policies
- Functioning as a **reference centre of science and technology** for the European Union
- Serving the common interest of the Member States, while being **independent of special interests**, whether private or national

# Our Structure: 7 Institutes across 5 Member States

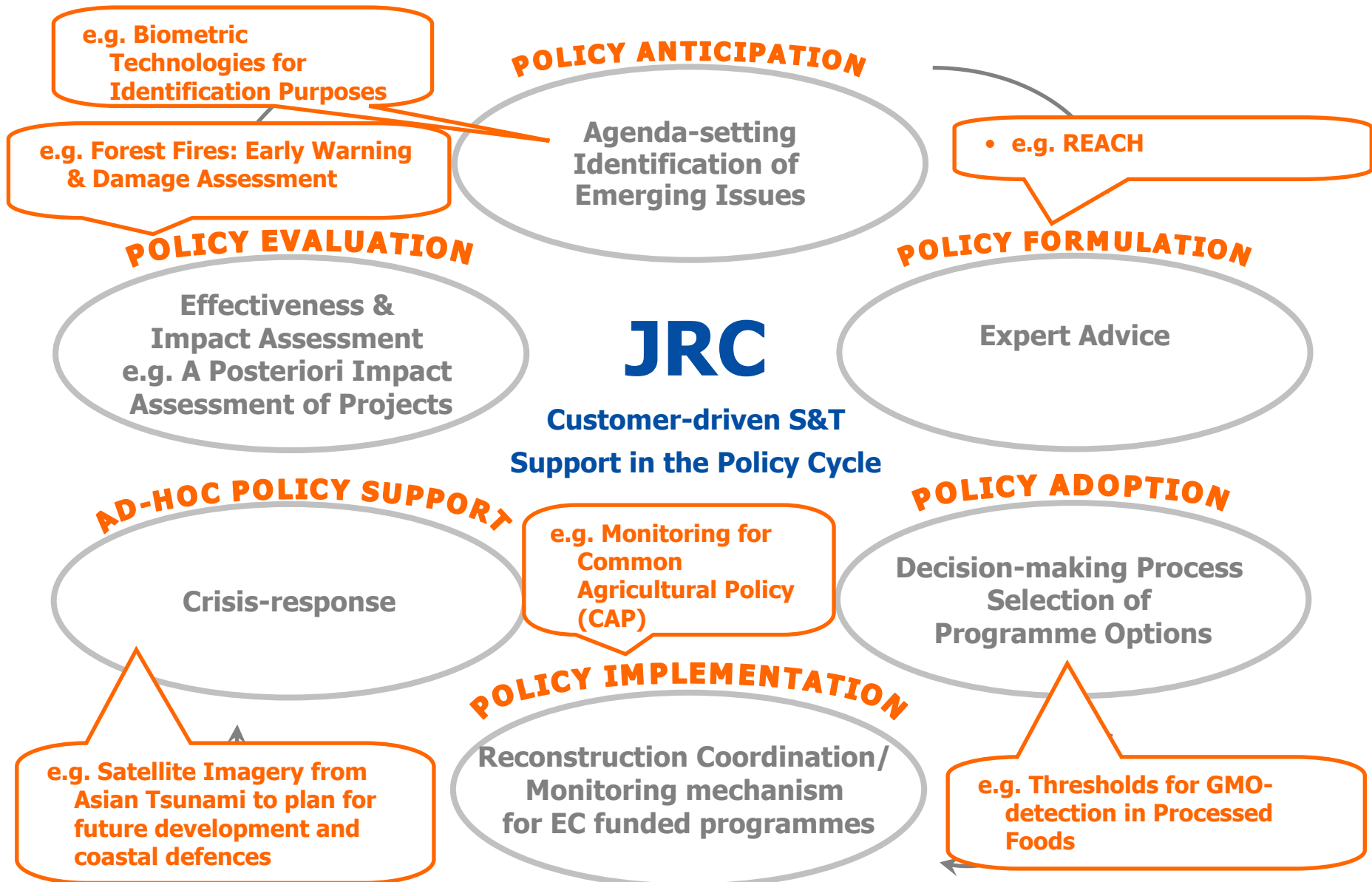
- Institute for Reference Materials and Measurements  
**IRMM** – Geel, Belgium
- Institute for the Protection and Security of the Citizen  
**IPSC** – Ispra, Italy
- Institute for Environment & Sustainability  
**IES** – Ispra, Italy
- Institute for Health and Consumer Protection  
**IHCP** – Ispra, Italy
- Institute for Transuranium Elements  
**ITU** – Karlsruhe, Germany
- Institute for Energy  
**IE** – Petten, The Netherlands
- Institute for Prospective Technological Studies  
**IPTS** – Seville, Spain



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# JRC: At Each Stage of the Policy Process



# Collaborating for Success

- >2,700 scientific and support staff across Europe
- Work with over 1,000 public & private organisations e.g. research centres, universities, regulatory bodies, local authorities, industrial associations and companies
- Involved in more than 150 major networks including partnerships with applicant countries
- Independent of national or commercial interests
- Close proximity to EU policy-makers

# JRC: Our Added Value

- **Quality expertise and support** to other Commission services upon emergence of new issues in crisis situations
- **Anticipation and reinforcement of competences and facilities** in new fields of investigations which are relevant to future policies
- **Strong involvement in networks** (European Research Area) involving Member State authorities, institutions and expert groups
- **Continued day-to-day support** in the preparation, implementation & monitoring of EU regulations

# Example: JRC support to DG Research 2<sup>nd</sup> Industrial R&D Investment Scoreboard

## Investing in research: an action plan for Europe

- **Target:** to raise investment in research up to 3% GDP
- Data on Top 500 EU and non-EU corporate R&D investors
- Up-to-date comparisons between companies, sectors & geographical areas
- Snapshot of the competitive situation of EU Firms in the global R&D environment



## Example: State-of-the-Art Test Facilities

- **Fuel Cell Systems Performance Testing and Standardisation** (IE, Petten)
- Development of harmonised testing procedures applicable to fuel cells stacks & systems
- **High Pressure Storage** (IE, Petten)  
Testing of tanks and safety sensors; development of test procedures for performance testing
- **Vehicle Emission Laboratories (VELA)** (IES, Ispra)  
Allows physical/chemical and toxicological characterisation of emissions from transport fleet
- **Solar Panel Technology Lab** (IES, Ispra)



# Example: JRC Crisis Response



**Nuclear Issues** (ITU, Karlsruhe; IPSC, Ispra; IRMM, Geel)  
*Several illicit trafficking cases since 1994*  
Nuclear forensic analysis techniques,  
advice & training

**Food Quality** (IHCP, Ispra; IRMM, Geel)  
*2006 imports of GM-contaminated rice (LLR601)*  
Validation of detection method



**Natural Hazards** (IPSC, Ispra)  
*2005 Pakistan earthquake*  
Damage assessment by satellite

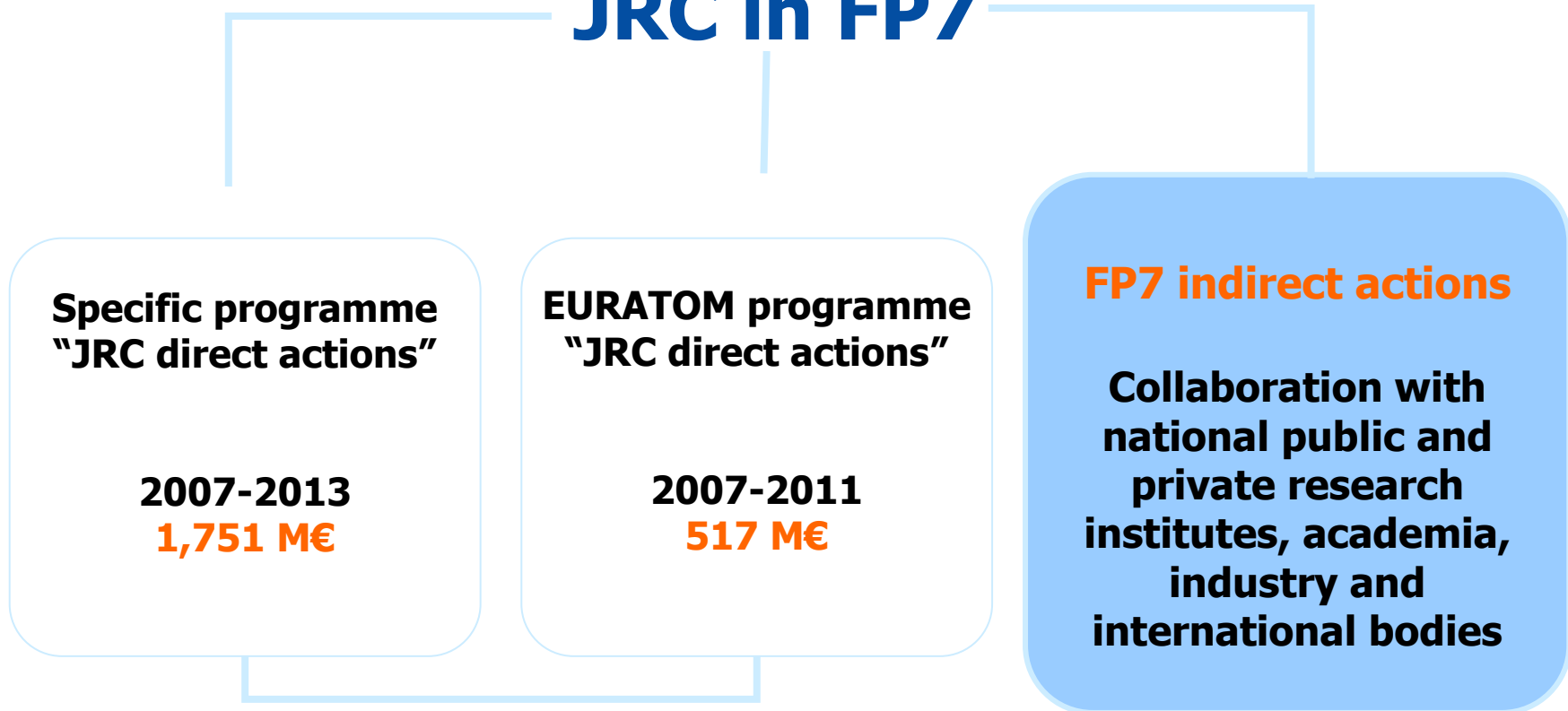
**Humanitarian Crises** (IPSC, Ispra)  
*2006, Lebanon*  
Monitoring of oil spill; damage assessment by satellite



# JRC in FP7

- **Aim:** To reinforce the JRC's **customer-driven orientation** and its already **strong connections** with the scientific community
- FP7 is taking an **integrated approach to the JRC's main task**, the provision of scientific and technological support to policies
- The JRC will engage in activities aimed at **consolidating growth and security and ensuring sustainable development**

## JRC in FP7



**TOTAL JRC = 2,268 M€**

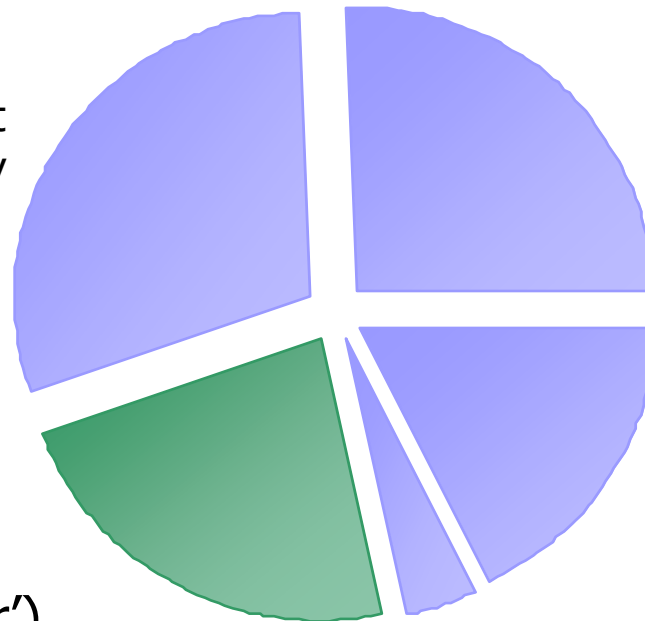
# JRC in FP7: Indicative Budget Breakdown

**683M€** ('Prosperity')

- Chemicals
- Biotechnology
- Energy & Transport
- Information Society

**578M€** ('Solidarity')

- Environment
- Health
- Climate Change
- Rural Development



**403M€** ('Security')

- Natural Disasters
- Internal/External Security
- Food Chain

**517M€\*** ('Nuclear')

- Nuclear Energy, Safety & Security

**88M€** ('World Partner')

- Global Security

■ Non-Nuclear    ■ Nuclear (5-year programme)



# JRC in FP7: New Priorities

- **Support to Lisbon Process**  
Digital divide, econometric tools, interplay between innovation & regulation, standards and references in support of growth...
- **Increase Internal & External Security**  
Addressing terrorist threats, combating proliferation of CBRN, support border control...
- **Understand relationship between Environment & Health**  
Exposure to harmful agents, epidemiological studies, public health studies, enviro- and toxico-genomics, chemical stressors...
- **Sustainable Agriculture**  
Integrated use of agricultural resources, protection of agri-environment and of landscape, social issues...

**JRC**

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