



# Opportunities offered by the Joint Research Centre to the Serbian Research Community

*Dr Ing. Giancarlo Caratti*  
*Head of Customer and Stakeholder Relations*  
*Joint Research Centre, European Commission*

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<http://www.jrc.ec.europa.eu>

- **Objective of today's event**
- **Introduction to the JRC**
- **Support to Enlargement Policy**
- **Instruments**
- **Example of JRC Projects**
- **Collaboration JRC-Serbia**
- **JRC Contacts**

*To stimulate participation of Serbian research and experts in FP7.  
Focus will be on the following instruments ([www.cordis.europa.eu](http://www.cordis.europa.eu)):*

**FP7 Thematic Programmes** – Opportunities for collaborative projects (emphasis on problem solving)

**JRC** – Research in support to EU policies - S&T aspects of EU acquis

**COST** – Support participation in pan-European scientific networks and incubator of FP7 projects

**People** – Mobility opportunities for Serbian researchers

**Ideas** – Investigation driven frontier research

**IPA** – Support to scientific / technical infrastructure related to implementation of EU acquis

... 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.



**IRMM** - Geel, Belgium

Institute for Reference Materials and Measurements

**ITU** - Karlsruhe, Germany

Institute for Transuranium Elements

**IE** - Petten, The Netherlands and Ispra, Italy

Institute for Energy

**IPSC** - Ispra, Italy

Institute for the Protection and Security of the Citizen

**IES** - Ispra, Italy

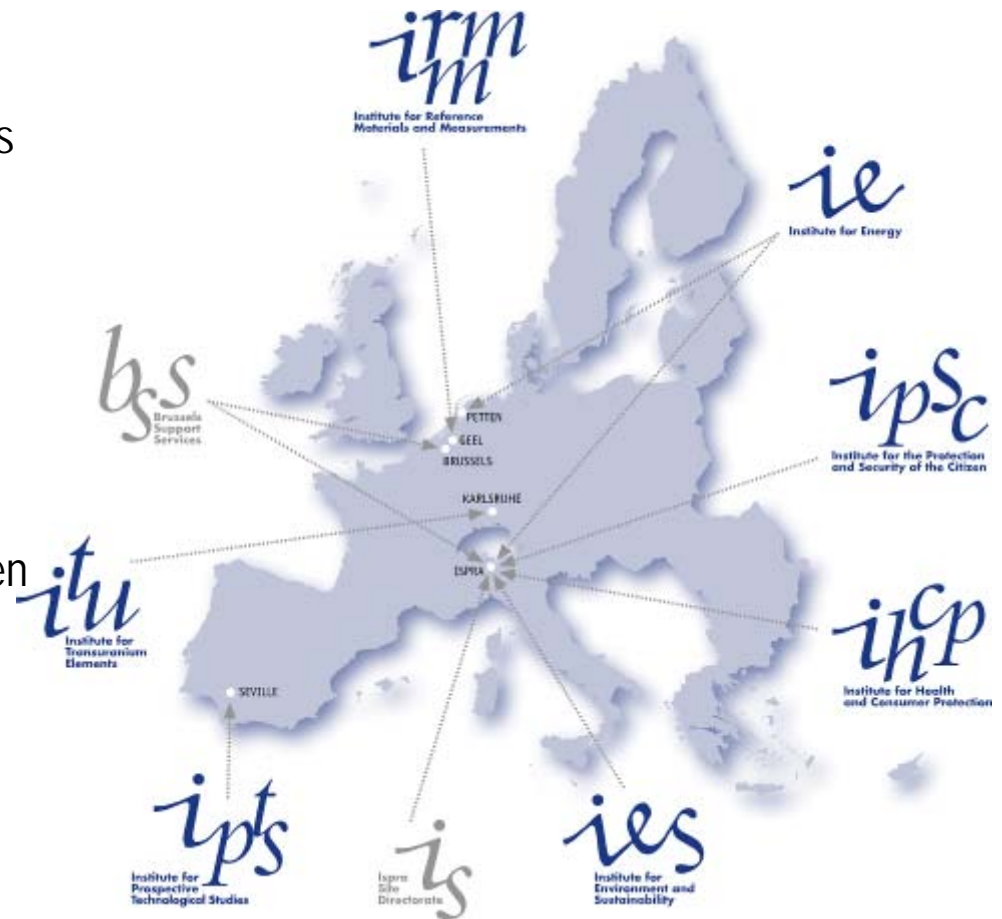
Institute for Environment and Sustainability

**IHCP** - Ispra, Italy

Institute for Health and Consumer Protection

**IPTS** - Seville, Spain

Institute for Prospective Technological Studies



**~ 2700 staff + 250 competitive**

**~ 340 M€/y budget (+ ~ 50 M€/y competitive income)**

## 683 M€ 'Prosperity'

- Chemicals
- Biotechnology
- Energy and Transport
- Information Society

## 517 M€\* 'Nuclear'

- Nuclear Energy, Safety and Security

## 88 M€ 'World Partner'

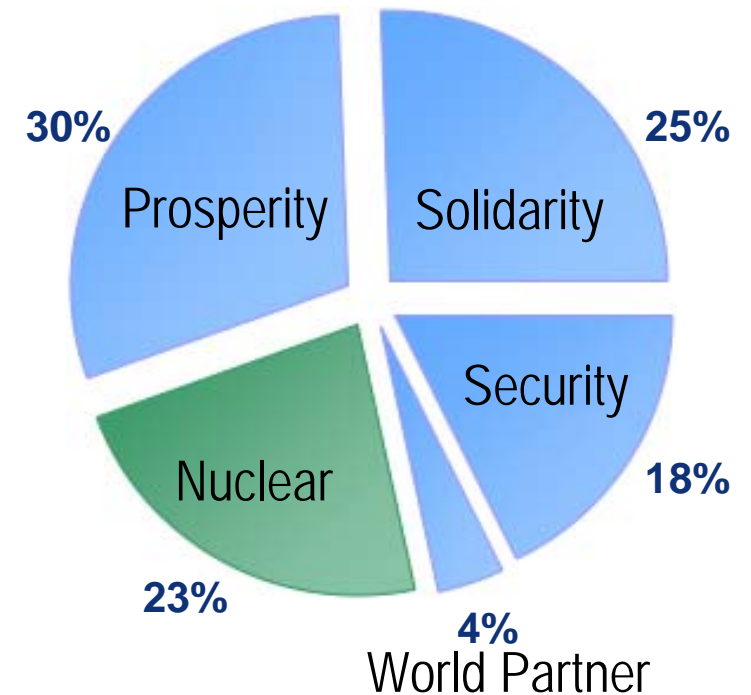
- Global Security


## 578 M€ 'Solidarity'

- Environment
- Health
- Climate Change
- Rural Development

## 403 M€ 'Security'

- Natural Disasters
- Internal/External Security
- Food Chain

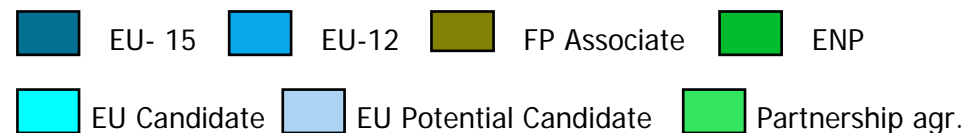
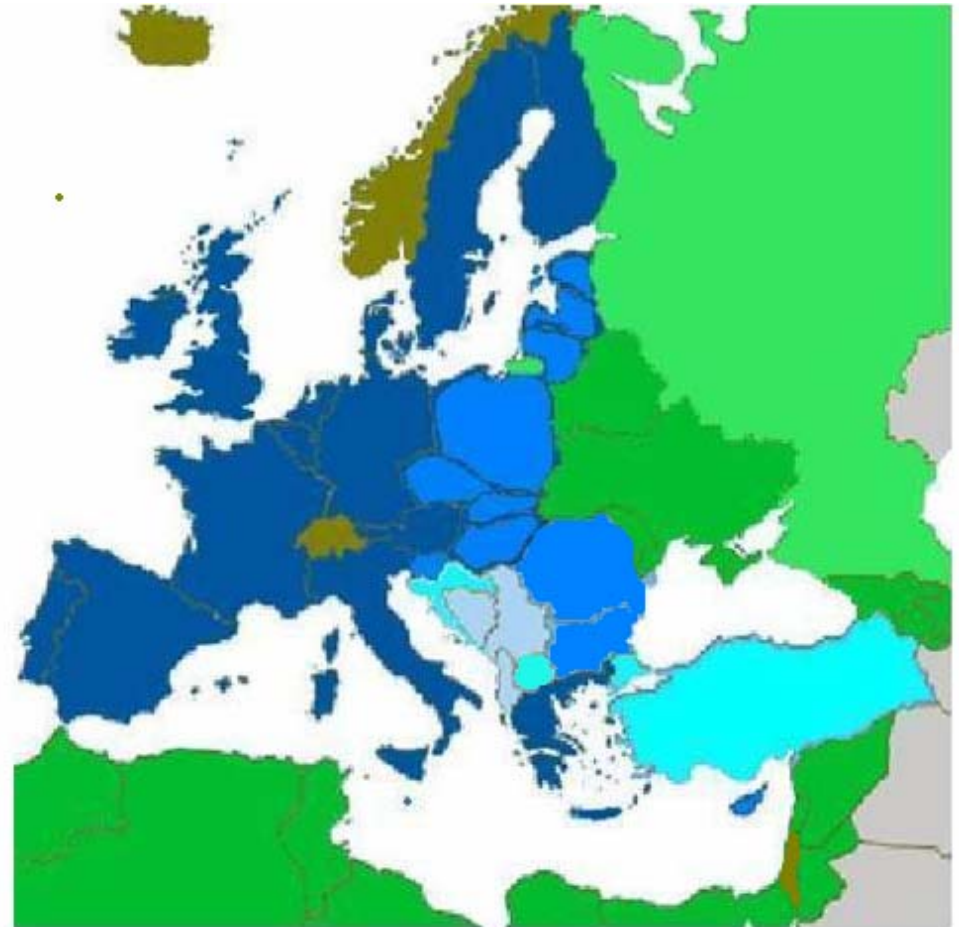


 Non-nuclear (7-year programme)

 Nuclear (5-year programme)

## Strategic Objectives:

- To help the New Member States, Candidate and Potential Candidate Countries in dealing faster with the “EU acquis” in areas of JRC competence
- To contribute to the development of the “European Research Area”



***Free Movement of Goods.*** Chemical Measurements; Certified Reference Materials, Metrology ...

***Telecommunications and information technologies.*** Cyber-security; Information Society Policies ...

***Agriculture; Food safety; veterinary and Phytosanitary policy.*** Compliance with CAP; Crop Forecasts; Livestock Traceability; Authentication of Origin; Food Safety; Organic Food ...

***Fisheries.*** Vessel Monitoring Systems, stock depletion...

***Transport Policy.*** Pollution from Road Vehicles, Aviation Safety ...

***Energy.*** SET Plan, Nuclear safety and security, renewables, energy efficiency, biofuels ...

***Economic and Monetary Policy***

Economic Analysis; Lisbon process ...

***Science and Research***

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

***Environment***

Air, Water and Soil Quality; IPPC; GMOs; REACH, Natural Hazards, Climate Change, Illicit Discharges from Ships, INSPIRE, ...

***Consumer and Health Protection***

Human exposure to Physical Agents, RAPEX, ...

***Justice, Liberty and Security***

Border Control, Vulnerable Infrastructures, ...

## Through 4 intertwined instruments:

- 1. Projects (Institutional Networks, Indirect Actions, Collaboration Agreements)**
- 2. Job opportunities (hosting experts; exchange of staff)**
- 3. Advanced training courses and workshops**
- 4. Access to infrastructure**



**Institutional Networks:** harmonisation and validation of methods and measurements, establishment of common standards, provision of scientific and technical support in the implementation of EU legislation

JRC collaborates with over 1000 partner organisations in some 100 institutional networks.

**Indirect Actions:** JRC participates on equal competitive basis in the EU Research Framework Programme

JRC is involved in 250 actions, collaborating with some 1000 partner organisations (FP6)

**Collaboration Agreements:** concern joint research, information sharing and sometimes the exchange of personnel

JRC has some 200 operational collaboration agreements with public and private research organisations, universities and national and international bodies

**JRC applies to FP7 calls on “equal footing” and on “competitive basis” equal to all other organisations**

**Possible proposals for submission of joint proposals could be routed via either the JRC institutes, JRC Brussels or country National Contact Point (or vice-versa)**

**Offers for cooperation will be considered (based on mutual interest and added value)**



- Policy of attracting top scientists and professionals
- Working in multidisciplinary institutes; wide range of scientific activities
- Supporting researcher's integration
- Welcoming staff from new Member States and Candidate Countries
  - “Enlargement & Integration Action” positions
  - Grantholders
  - Seconded National Experts
  - JRC Trainees



Visit: [www.jrc.ec.europa.eu/jobs](http://www.jrc.ec.europa.eu/jobs)

- IPSC:** **18 positions** for Grantholders (Post-Docs), SNE's and Trainees  
Deadlines: 30th June, July, September.  
Themes: fisheries, traceability, security, biometrics, lifelong learning
- IHCP:** **6 positions** for Grantholders (Post-Docs) and a trainee  
Deadlines in July.  
Themes: nanobiosciences/ nanotechnology, in vitro methods/alternative methods and ECVAM, health and environment, GMOs
- IRMM:** **3 positions** for Grantholders (Post-Docs)  
Deadlines: August, September.  
Themes: food and feed analysis, reference materials for microbiology
- ITU:** **2 positions** for Research Fellowship and a Grantholder (PhD student)  
Deadlines in July, August.  
Themes: applications of NMR in solid materials, XRF modelling
- IPTS:** **2 positions** for Grantholders (senior researchers)  
Deadlines: 30th June.  
Themes: industrial research and innovation, regional modelling
- IE:** **1 position** for Seconded National Expert with deadline in July. Theme: assessment of GHG emissions from bioenergy

... more to come ...

**Goal:** to disseminate the results of individual projects and studies and to support Member States and Candidate Countries in implementation of EU policies

**Areas:** Food, Chemicals, Environment, Metrology, Agriculture, Energy and Nuclear Safety, etc. areas of competence of the JRC

**Statistics:**

JRC	2005	2006	2007	2008
Advanced courses and workshops	102	137	86	45
Experts attending	4 020	4 460	3 500	3 000

**Link:** <http://ec.europa.eu/dgs/jrc/index.cfm?id=5450&lang=en>

**JRC has many unique laboratories and research facilities open to co-operations, some with dedicated training programmes or run as user facilities, e.g.:**

- Seven Community Reference Laboratories (CRLs)
  - CRL for GMOs in food and feed; CRL for feed additives; CRL for food contact materials; CRL for heavy metals in feed and food; CRL for mycotoxins in food and feed; CRL for polycyclic aromatic hydrocarbons
- The Vehicle Emissions Laboratory (VELA) – JRC-IES (Ispra)
- Geel Linear Accelerator (GELINA) – JRC-IRMM (Geel)
- High Flux Reactor (HFR) – JRC-IE (Petten)
- Hot Cell Laboratory – JRC-ITU (Karlsruhe)
- European Laboratory for Structural Assessment (ELSA) – JRC-IPSC (Ispra)

...and many others



## Long-standing experience in support to a range of Community policies requiring GMES related information, e.g. in the areas of:

- Natural Resources
- Agriculture
- Environment
- Development and Humanitarian Aid
- Global Change
- Civil Protection
- Security



Forest fire in South Asia  
Using satellite topographic data a high-resolution data  
Sultan of Selam  
Lukole refugee camp in Tanzania  
Images from a period showing a formation of fishing vessels

## The Community Reference Laboratory for GM Food and Feed

- CRL runs European Network of GMO Laboratories (ENGL): 120 laboratories in 27 Member States+NO+CH
- So far, 74 cases received;
- 34 validation reports published (+ 17 validations completed for which reports will be published within 2008);
- 4 reports for emergencies / non-approved GMOs published (Maize (BT10, “event 32”), Rice (LL601,Bt63));
- The CRL is ISO 9001:2000 certified and ISO 17025 accredited;
- It carries out extensive training programs in co-operation with the WHO.



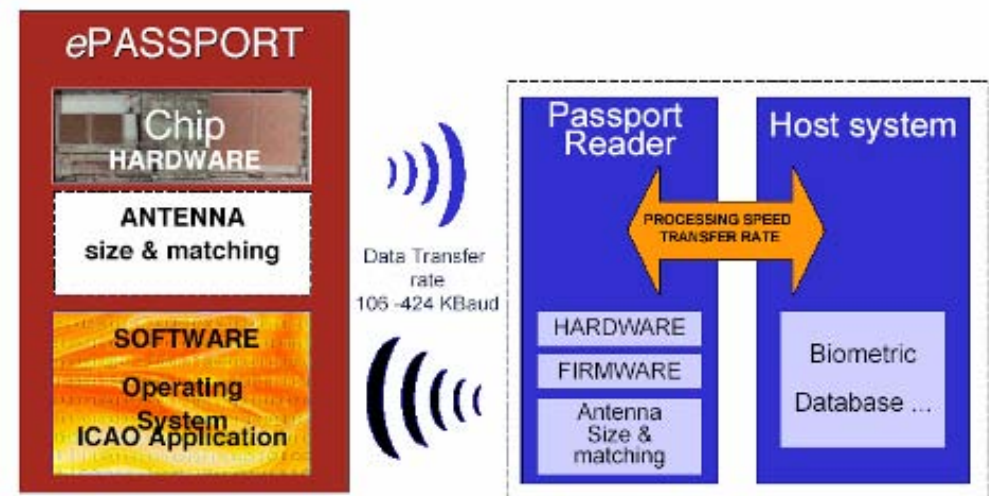
Validity Assessment of the Detection Method of Maize Event Bt10 through Investigation of Its Molecular Structure; *J. Agric. Food Chem.*, March 24, 2009 (web)



## Hague Program 2005 Action Plan: Coherent approach and harmonized solutions in the EU on biometric identifiers and data

Integrate biometric identifiers in travel documents, visa, resident permits, EU citizens' passports & information system

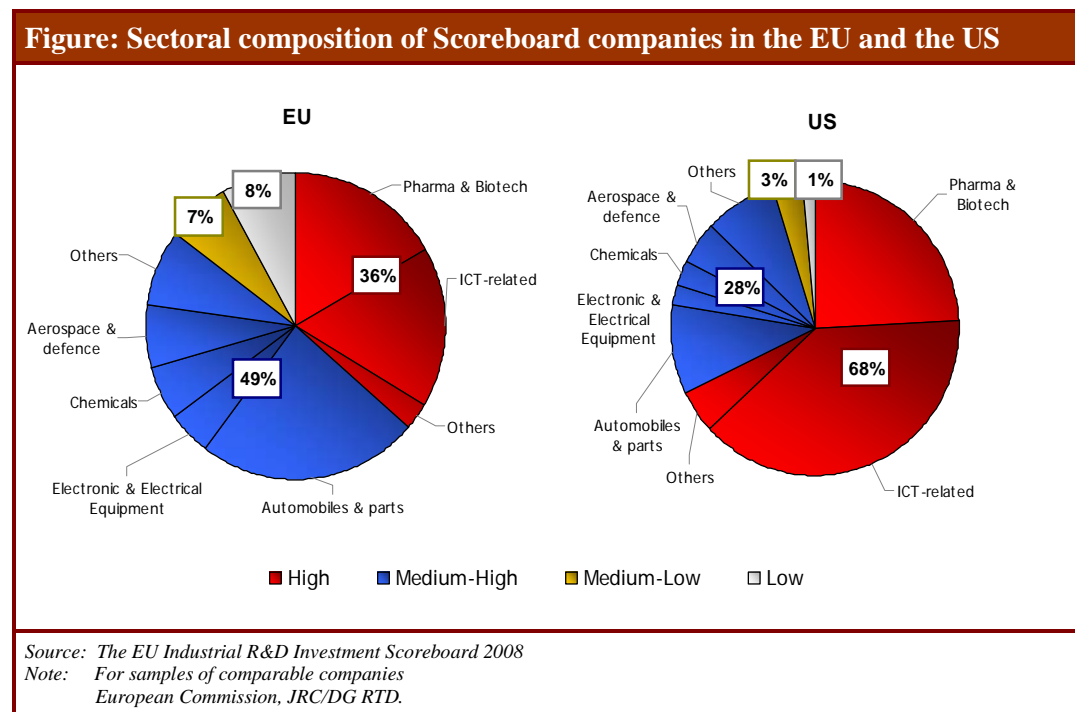
- Tests of conformity of passports issued by Member States
- Tests of interoperability of electronic passports and readers
- Evaluation of performance of biometric identification systems
- Technical support to the development of standards



## Analysis of private R&D

The objective is to provide EU policy makers with a better understanding of investment in research and its relation to economic performance (thus helping to design policies to reach the Lisbon targets)

Examples of products: EU Industrial R&D Investment Scoreboard (annual); sector studies; relation between corporate R&D and productivity; Survey on R&D investment business trends (annual)



R&D investment gap is structural

- Some 160 Serbian experts participated in the JRC Enlargement and Integration Workshops in the last 3 years
- Collaboration (5 ongoing FP projects and 1 MoU)
  - WBC INCO NET
  - Flood forecasting
  - Health risk from environmental pollution
  - Technology related risk monitoring and management
  - Genetic testing
  - Food
- Exchange of information in many areas: further efforts needed to formalise these as collaboration activities
- Bilateral contacts and technical visits to Institutes

**NCP: Jadranka Đuričić** [jadranka.djuricic@nauka.gov.rs](mailto:jadranka.djuricic@nauka.gov.rs)

## Contacts in the JRC institutes:

**IPSC** [carmelo.addabbo@ec.europa.eu](mailto:carmelo.addabbo@ec.europa.eu)  
[anne-marie.morrissey@ec.europa.eu](mailto:anne-marie.morrissey@ec.europa.eu)

**IES** [arwyn.jones@ec.europa.eu](mailto:arwyn.jones@ec.europa.eu)  
[carla.dal-molin@ec.europa.eu](mailto:carla.dal-molin@ec.europa.eu)

**IHCP** [nicholas.nicholson@ec.europa.eu](mailto:nicholas.nicholson@ec.europa.eu)

**IPTS** [vincenzo.cardarelli@ec.europa.eu](mailto:vincenzo.cardarelli@ec.europa.eu)

**EI** [roger.hurst@ec.europa.eu](mailto:roger.hurst@ec.europa.eu)

**IRMM** [doris.florian@ec.europa.eu](mailto:doris.florian@ec.europa.eu)

**ITU** [victor.esteban-gran@ec.europa.eu](mailto:victor.esteban-gran@ec.europa.eu)

## Contacts in the JRC - Brussels:

[giancarlo.caratti@ec.europa.eu](mailto:giancarlo.caratti@ec.europa.eu)

[milena.raykovska@ec.europa.eu](mailto:milena.raykovska@ec.europa.eu)

[jana.machajova@ec.europa.eu](mailto:jana.machajova@ec.europa.eu)

[ole-peter.ostermann@ec.europa.eu](mailto:ole-peter.ostermann@ec.europa.eu)

**Gateway: [www.jrc.ec.europa.eu](http://www.jrc.ec.europa.eu)**

**Thank you for your attention**

