



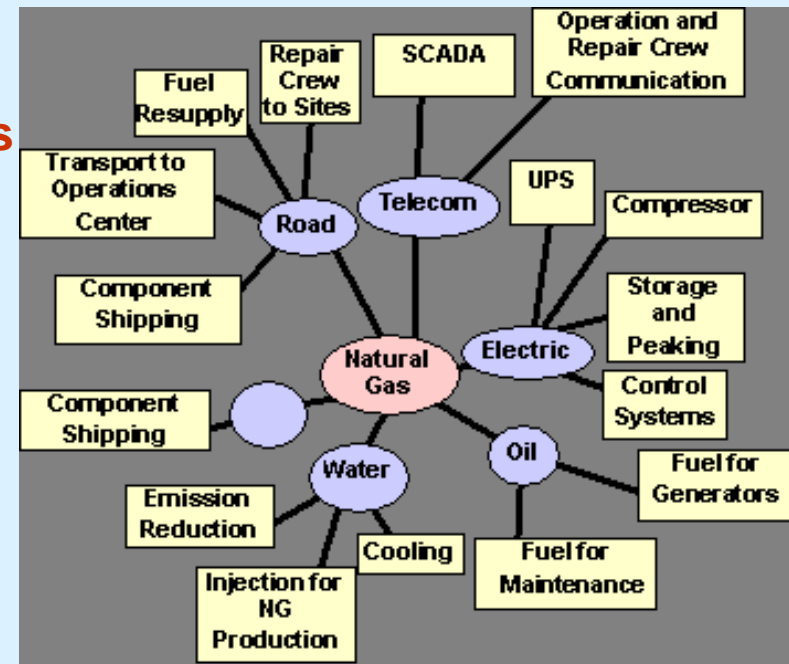
**The "Joint Call ICT & Security 1":  
A joint approach with the FP7 ICT theme  
for critical infrastructure protection**

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# Protection of Critical Infrastructures Challenges

- Liberalization, Deregulation
- Global, Cross border CI's
  - Different policy & regulatory frameworks
  - Different protection measures and technologies
- Openness & Interconnection
  - Interdependencies
  - Large scale, multi layer systems
  - Complexity, Chaotic Behavior
  - New Vulnerabilities, Cyber-threats
- Law enforcement, Crisis Management





# Protection of Critical Infrastructures

## The Context

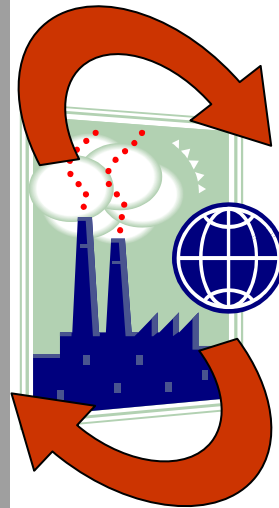
### Policy

**2004:** EU program on CIP (EPCIP) and CI Warning Info Network (CIWIN)

**2006:** Communication and Directive on EPCIP – sectoral approach

**2007:** Communication on Protecting Europe's Critical Energy and Transport Infrastructure

**2007:** INFSO consultation process for policy initiative in ICT sector



### Research

**IST-FP6 (2002-2006)**  
9 RTD projects, 36M€EU funding

**PASR (2004-2006)**  
5 projects for about 11,5M€ – total cost

**FP7: Joint ICT-Security Research Initiative**



# Protection of Critical Information Infrastructures

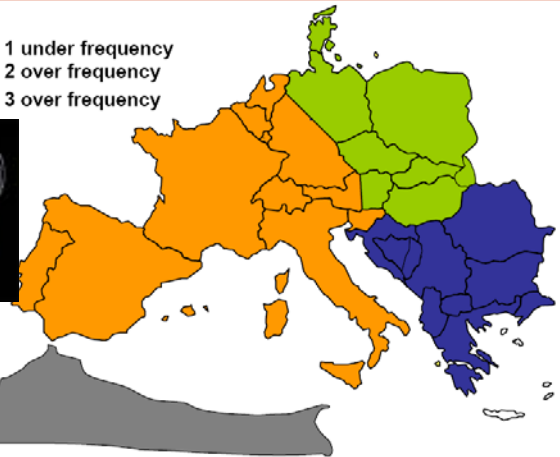
## Ongoing IST-FP6 work

- Critical Utility Infrastructural Resilience
- Integrated Risk Reduction of Information-based Infrastructure Systems
- Dependability of interdependencies
- Management Decision Support for Critical Infrastructures
- Research coordination on CIIP

**Saturday 04 NOV 06 at 22:10**

**A system disturbance of the electricity grid originated in Germany led to disruptions of supply in many EU countries**

- Area 1 under frequency
- Area 2 over frequency
- Area 3 over frequency





# Critical Infrastructures Protection Ongoing PASR Work

- **Vital Infrastructures Threats and Assurance**
- **Transport Infrastructures Protection System**
- **Open Robust Infrastructures**
- **Protection of Air Transportation and Infrastructure**
- **On-line monitoring of drinking water**



# Joint FP7 initiative between Security and ICT Themes on Protection of Critical Infrastructures

## Aims

- Create more secure and dependable Critical Infrastructures (CI's)
  - Protect CI's against deliberate acts of terrorism, natural disasters, negligence, mismanagements, accidents, computer hacking, criminal activity and malicious behaviour
- Develop new technical solutions that support and refine the policy options and legislative processes
- 'Coalition formation' and 'consensus building'



# Joint FP7 initiative between Security and ICT Themes on Protection of Critical Infrastructures (1)

## Focus of the ICT Theme

Technology building blocks for creating secure, resilient, responsive and always available information infrastructures linking critical infrastructures (CI's)

- a) Manage complex interconnected and interdependent CI's;
- b) Build secure and resilient networked and distributed information and process control systems;  
Risk analysis, security configuration & management, forensics;
- c) Develop research roadmaps, metrics, benchmarks, IN-CO, ...



# Joint FP7 initiative between Security and ICT Themes on Protection of Critical Infrastructures (2)

## Focus of the Security Theme

Technology building blocks for secure, resilient and always available transport & energy infrastructures that survive malicious attacks or accidental failures and guarantee continuous provision of services

- a) Risk assessment and contingency planning for interconnected transport or energy networks
- b) Modelling and simulation for training
- c) Optimised situational awareness through intelligent surveillance of interconnected transport or energy infrastructures
- d) ICT support for first responders in crises occurring in critical Infrastructures



# Joint FP7 initiative between Security and ICT Themes on the Protection of Critical Infrastructures Expected Impact

- Improving significantly the security, performance, dependability and resilience of CI's (while considering also organizational, human, societal and legal aspects)
- Reinforcing European industry's potential for leadership
- Increasing and preserving trust in the use of technologies for the protection of CI's
- More effective protection through enhanced co-operation, coordination and focus
- Contribution to the development and promotion of metrics, standards, evaluation & certification methods and best practice in security of CI's



# Joint FP7 initiative between Security and ICT Themes on the Protection of Critical Infrastructures Evaluation of Proposals

## ■ Guidelines for Prospective Proposers

- When submitting a proposal: indicate in which Theme your proposal fits best (ICT or Security)
- Proposals must not contain any classified information
- Special handling of proposals requiring classified inputs or producing classified outputs
- **[Security Theme only]** If 75% of Community funding is requested, demonstrate in the proposal that the required conditions apply!

## ■ Evaluation Procedure

- Single-step evaluation procedure, in January 2008
- **Joint evaluation of submitted proposals**
- Evaluators could move transparently proposals from one Theme to the other, according to where it fits best (centre of gravity)
- Evaluation panel will comprise also end-users



# Joint FP7 initiative between Security and ICT Themes on the Protection of Critical Infrastructures Budget Call and Information

- **Funding Schemes: Collaborative Projects, CSAs**
- **Joint Call ICT & Security 1 (FP7-ICT-SEC-2007-1)**
  - Opening 30 August 2007
  - Closing 29 November 2007 at 17:00 (Brussels local time)
- **Indicative Call Budget: 40 m€**
  - 20 m€ by ICT Theme and 20 m € by Security Theme
  - Up to 36 m€ Collaborative Projects
    - Typical size: 2-5 m€ (total cost)
    - Duration: 2-4 years
  - Up to 4 m€ Coordination and Support Actions
    - Average size: 0.5 m€
    - [For the Security Theme]: 1 m€ reserved for International cooperation



# Further Information & Contact

- See <http://cordis.europa.eu/fp7/> for:
  - **Legal FP7 documents** (FP Decision, Rules for participation, Specific programmes, Rules for proposal submission, evaluation & selection)
  - **Contractual Information** (Consortium Agreement checklist, Guidelines for negotiation, Financial guidelines, Model grant agreements)
- ICT-FP7: <http://cordis.europa.eu/fp7/ict/>
- Security-FP7 [http://ec.europa.eu/enterprise/security/index\\_en.htm](http://ec.europa.eu/enterprise/security/index_en.htm)
- Open calls (ICT and Security included):  
<http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.FP7CallsPage>

## Contacts for the Joint Call:

- **[ICT Theme]** Angelo.Marino AT ec.europa.eu,
- **[Security Theme]** Laurent.Cabirol AT ec.europa.eu