



Critical Infrastructure Protection

Recent EU developments

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EU Critical Infrastructure Protection

- **Dam in Poland**
- **Nuclear Reactor in Antwerp**
- **Rotterdam Harbour**
- **Gas-pipeline through Ukraine**

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EU Critical Infrastructure Protection

Themes:

- **Interdependence**
- **Trust**
- **Co-operation**

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EU Critical Infrastructure Protection

The European Programme for Critical Infrastructure Protection (EPCIP)



Measures designed to facilitate the implementation of EPCIP

- **EPCIP Action Plan**
- **CIWIN**
- **CIP expert groups**
- **CIP information sharing**
- **identification and analysis of interdependencies**



Support for Member States concerning National Critical Infrastructure



Contingency planning



External dimension



Accompanying financial measures



Directive 2008/114/EC (8 December 2008)

A procedure for the identification and designation of European Critical Infrastructures (ECI)



EU Critical Infrastructure Protection

Today's focus:

- **Directive 2008/114/EC (8 December 2008)**
- **CIWIN**
- **External relations**
- **Financial Programme (CIPS)**
- **European Reference Network for Critical Infrastructure Protection**

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Directive 2008/114/EC (8 December 2008)

Main Objectives

- **Process for the identification and designation of European Critical Infrastructure (ECI)**
- **Common approach to the assessment of the need to improve protection**

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Directive 2008/114/EC (8 December 2008)

Principles

- **All-hazards approach, but priority to threat from terrorism**
- **Step-by step, sector-based approach – currently covering Transport and Energy**
- **Ultimate responsibility for ECI protecting with MS and operators**
- **Complements and builds on existing work – no duplications**
- **Trust and confidentiality**

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Directive 2008/114/EC (8 December 2008)

Definitions

- **Critical Infrastructure (CI)** – asset, system or part thereof essential for the maintenance of vital societal functions, health, safety, security, economic or social well-being, the destruction or disruption of which would have a significant impact
- **European Critical Infrastructure** – Critical Infrastructure the destruction or disruption of which would have a significant impact on at least two Member States

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Directive 2008/114/EC (8 December 2008)

Identification of ECI

- **ECI must satisfy both cross-cutting and sectoral criteria**
- **Cross-cutting criteria: casualties, economic effects, public effects**
- **Sectoral Criteria have been established for Transport and Energy sectors (classified)**
- **Identifying and designating process to be finished by 12 January 2011 – reviewed on a regular basis**

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Directive 2008/114/EC (8 December 2008)

Designation as ECI

- **Obligation to inform other MS which may be affected**
- **Engage in bilateral or multilateral discussions with those MS**
- **Designation as ECI in agreement with those MS affected – acceptance by the MS on whose territory ECI is located necessary**
- **Obligation to inform operator of ECI of designation**

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Directive 2008/114/EC (8 December 2008)

Operator Security Plans

- Identification of important assets
- Conducting a risk analysis based on major threat scenarios, vulnerability of each asset and potential impact
- Identification, selection and prioritisation of counter-measures and procedures, distinguishing between permanent and graduated security measures

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Directive 2008/114/EC (8 December 2008)

Security Liaison Officers (SLO)

- **Point of contact for security related issues between owner/operator and MS authority**
- **Each MS to assess whether or not an SLO already exists at ECI - if not, MS to ensure that SLO is designated**
- **MS to implement appropriate communication mechanism between SLO and relevant national authority**

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Directive 2008/114/EC (8 December 2008)

Role of the Commission

- Assist MS in the identification of ECI (on request)
- Draw the attention of a MS to the possible existence of ECI
- Develop (non-binding) guidelines for the application of the cross-cutting and sectoral criteria
- Consider further developments on the basis of reports from the MS on types of risks, threats and vulnerabilities

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CIWIN

- **Council Conclusions of 2004 already agreed with the setting up of a network to exchange information on threats and vulnerabilities of trans-boundary critical infrastructures**
- **After further study and consultation, decision taken by Commission to propose an automated system (CIWIN) (2006)**
- **Draft Council Decision adopted by the Commission in October 2008**

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CIWIN

- **Originally, proposal consisted of two main elements – rapid alert system and tool for exchange and repository of information**
- **After first round of negotiations, rapid alert functionality taken out**
- **System currently in pilot phase, to be made available to Member States this summer**
- **Available only for MS authorities, intended to be trusted platform**
- **Further issues to be decided – network infrastructure, level of confidentiality**

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CIWIN

Forum functionality of CIWIN (Sharepoint):

- **Exchange of CIP related information in a secure way**
- **Holding discussions and posting user generated content**
- **Uploading documents, contact information, notifications, shared agenda**
- **Possibility to work together on one document**

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External Dimension

- **Disruption of Critical Infrastructures outside of the EU may impact on EU and vice-versa**
- **External relations therefore important part of EPCIP**
- **Need to agree and develop EU policy before engaging with external partners**
- **Currently work in progress – first discussions started in ProCiv Council Working Group and CIP Contact Points meeting**

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External Dimension

Four possible vectors:

- **Vector 1: general exchanges of good practice on topics applicable to entire EU**
- **Vector 2: external cooperation concerning designated ECI**
- **Vector 3: external cooperation concerning infrastructure in a third country which if disrupted would have an effect on the EU**
- **Vector 4: raising critical infrastructure capacity in priority countries and regions**

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External Dimension

Other issues:

- **Subsidiarity**
- **Sharing information in a spirit of solidarity (on external dependencies)**
- **Common interest leading to a common position for affected MS or EU**
- **Geographic and political priorities to be established**
- **Trust to be built up, step-by-step approach**

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Financial Measures

Main financial Programme: CIPS

- **Focus on prevention, preparedness, consequence management**
- **Issues covered include risk assessment methodologies on CIP, development of methodologies for CIP protection, development of security standards, promoting EU wide cooperation and coordination**

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Financial Measures

AWP 2010 - budget 20 Million Euro

Priorities:

- **facilitating the implementation of Directive 2008/114/EC**
- **Enhancing critical information infrastructure protection**
- **Developing good practice in business continuity planning**
- **Tools/methods to design public spaces**
- **Interdependency analysis**
- **Increasing security awareness of operators**

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Financial Measures

Some examples of projects financed:

- **Definition of a methodology for the assessment of mutual interdependencies between ICT and electricity generation**
- **Assessment and mitigation of risk for disabling the control centre of large power networks by intentional radiofrequency interference**
- **The Vulnerability of Information Systems and the intersectoral, economic and social impacts**
- **Terrorists at the dam**

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European Reference Centre - CIP

Basic concept:

- **There is a need to test security concepts, methodologies and technologies best suited for CIP Protection**
- **Currently, facilities for these sort of tests are limited in number and spread out across Europe**
- **The Reference Network should assist MS and CIP operators in finding adequate facilities for such tests**
- **Sharing the results of the tests in order to minimise duplication of efforts**
- **Assist with standardisation, certification**

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European Reference Centre - CIP

Role of the JRC/Commission

- **Prepare concepts and feasibility**
- **Facilitate finding the required capabilities**
- **Facilitate agreement on test protocols, procedures**
- **Assist in standardisation, certification processes, ensuring EU wide coverage**

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European Reference Centre - CIP

State of Play:

- **Concept discussed with MS in 2008 Contact Point meeting, as well as with industry representatives**
- **Financing included in the CIPS 2009 programme**
- **Joint Research Centre has established Task Force since beginning 2009**
- **Task Force to present feasibility study including available technical capabilities, management structure, budget etc. by end 2009**

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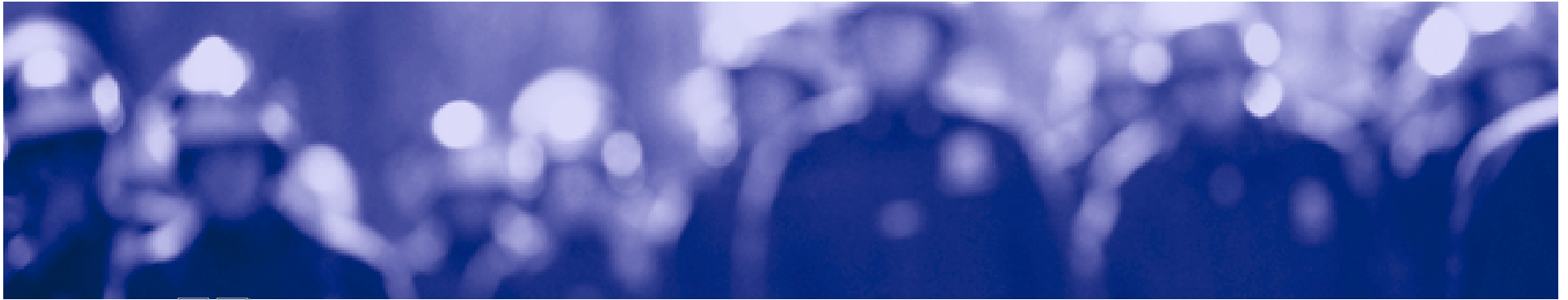


Conclusions

- **A lot of progress over the past years in terms of regulation, concepts and ideas, EU level support**
- **Implementation underway, but will take more time – gradual process**
- **Growing process of trust and understanding of interdependencies**
- **Growing interest in sharing best practices, avoiding duplications, co-operation**
- **Clear benefits for MS authorities and CIP operators**

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Thank you for your attention!

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