

# **Towards a EU policy on critical information infrastructure protection (CIIP)**

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# Network and information security: *The European Context*

- **Strategy for a Secure Information Society** [COM(2006)251]
- Policy initiatives on:
  - **fighting against spam, spyware and malware** [COM(2006)688]
  - **promoting data protection by PET** [COM(2007)228]
  - **fighting against cyber crime** [COM(2007)267]
  - **new Safer Internet Programme** [COM(2008) 106]
- Proposed package to **reform the Regulatory Framework for e-communications** [COM(2007)697, COM(2007)698, COM(2007) 699]
- **European Network and Information Security Agency**, (ENISA) established in 2004

## What's ahead?

- **A policy initiative on CIIP** to be adopted by early 2009 – under the general framework of the European Programme on Critical Infrastructure Protection
- A **public debate on the long terms goals for a reinforced European policy on NIS** and the most adequate means to achieve them



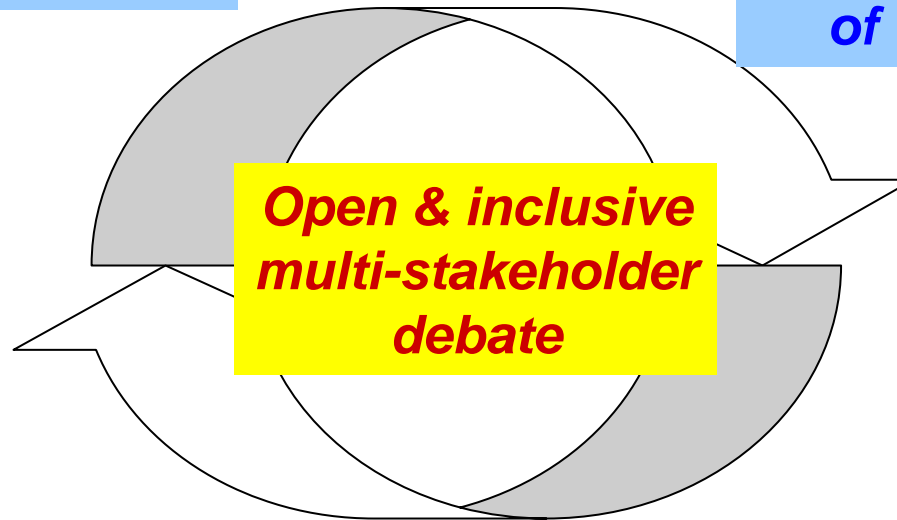
# Towards a secure Information Society

## **DIALOGUE**

*structured and  
multi-stakeholder*

## **PARTNERSHIP**

*greater awareness &  
better understanding  
of the challenges*



**Open & inclusive  
multi-stakeholder  
debate**

## **EMPOWERMENT**

*commitment to responsibilities  
of all actors involved*



# NIS : a cross-cutting issue @ EC

## DG INFSO

- NIS policy
- CIIP
- e-Signature & eID
- e-privacy
- SPAM
- harmful content
- FP7 ICT theme
- IPv6

## DG JLS

- Cyber crime
- EPCIP & support programme
- Data protection
- Data retention
- Travel documents
- Identity theft

## DG MARKT

- e-payment
- e-frauds
- ...

## DG ENTR

- SME's & NIS
- standards
- FP7 Security theme

## DG JRC

- Support to policy DG
- Specific R&D
- ...

## DGIT/ADMIN-DS

- e-Commission
- IDABC
- Internal security rules...

# Public debate on NIS policy

- **Broader thinking** on NIS is essential
- **Commissioner Reding** called on EP and Council to **open an intense debate on Europe's approach to network security** and on how to deal with cyber-attacks
- **Calls were made both in EP and Council** for a debate on further discussion **on the future of ENISA and on the general direction of the European efforts** towards an increased network and information security
- **Aim and Scope:**
  - objectives of a modernised NIS policy at EU level, and the means to achieve those objectives

# Public Consultation “Towards a Strengthened NIS Policy in Europe”

- **The Commission launched an on-line public consultation (07/11/08 – 09/12/09)**
  - challenges to NIS
  - priorities of a modernised NIS policy
  - means needed to address the challenges
- **The Council will be involved**
  - Telecom Working Group March
  - Ministerial Conference in Tallin (27-28 April 2009)
  - Exchange of views at the European TTE Council on 12 June 2009 – Presidency guidelines



# A Policy initiative on CIIP *motivation*

- CII are the nervous system of the Information Society
- Liberalisation, deregulation and convergence → **complexity / multiplicity of players**
- Infrastructures are privately owned and operated → **accountability vs. control**
- Ensuring the stability of society and economy is governments' responsibility
- CII stretch out well beyond national borders → **globalisation**
- The level of security in any country depends on the level of security put in place outside the national borders → **issue of sovereignty**
- National governments face very similar issues and challenges
- The private sector is calling for harmonised rules

## All this calls for

- A more integrated and co-ordinated EU approach to complement and add value to the national programmes
- A greater effort to reinforce the EU security and wealth creation capabilities



## Policy initiative on CIIP – Q1 2009: *Preparatory activities (1/2)*

- **2006:**

- **Study** on “Availability and Robustness of Electronic Communications Infrastructures” (ARECI)

- **2007**

- Informal **meeting** of National experts on CIIP – Brussels, 19 January 2007
- Public **consultation** on the final ARECI report drafted by Alcatel-Lucent - April 2007
- Member States and private sector **meeting** on the outcomes of the public consultation– Brussels, 18 June 2007”
- **Workshop** on “cc TLD’s Contingency practices”, 19/09/2007
- **Workshop** on challenges for awareness raising, 07/12/2007





## Policy initiative on CIIP – Q1 2009: *Preparatory activities (2/2)*

- **2008**

- **Workshop** on “Learning from large scale attacks on the Internet: policy implications”, Brussels, 17 January 2008;
- **2 Meetings** with MS on the criteria to identify European Critical Infrastructures in the ICT sector, Brussels, 5 February & 29 May 2008;
- **Workshop** on “The role of the private sector for Critical Information Infrastructure Protection”, Brussels, 26 June 2008;
- **Questionnaire** sent to Member States



# Planned policy on CIIP

- **Goal**

- Protect Europe from large scale cyber attacks and disruptions
- Promote security and resilience culture (*first line of defense*) & strategy
- Tackle cyber attacks & disruptions from an ecosystem perspective

- **Aims**

- Enhance the CIIP preparedness and response capability in EU
- Promote the adoption of adequate and consistent levels of preventive, detection, emergency and recovery measures
- Foster International cooperation, in particular on Internet stability and resilience

- **Approach**

- **Build** on national and private sector initiatives
- **Engage** public and private sectors
- **Adopt** all-hazards
- **Be** multilateral, open and all inclusive



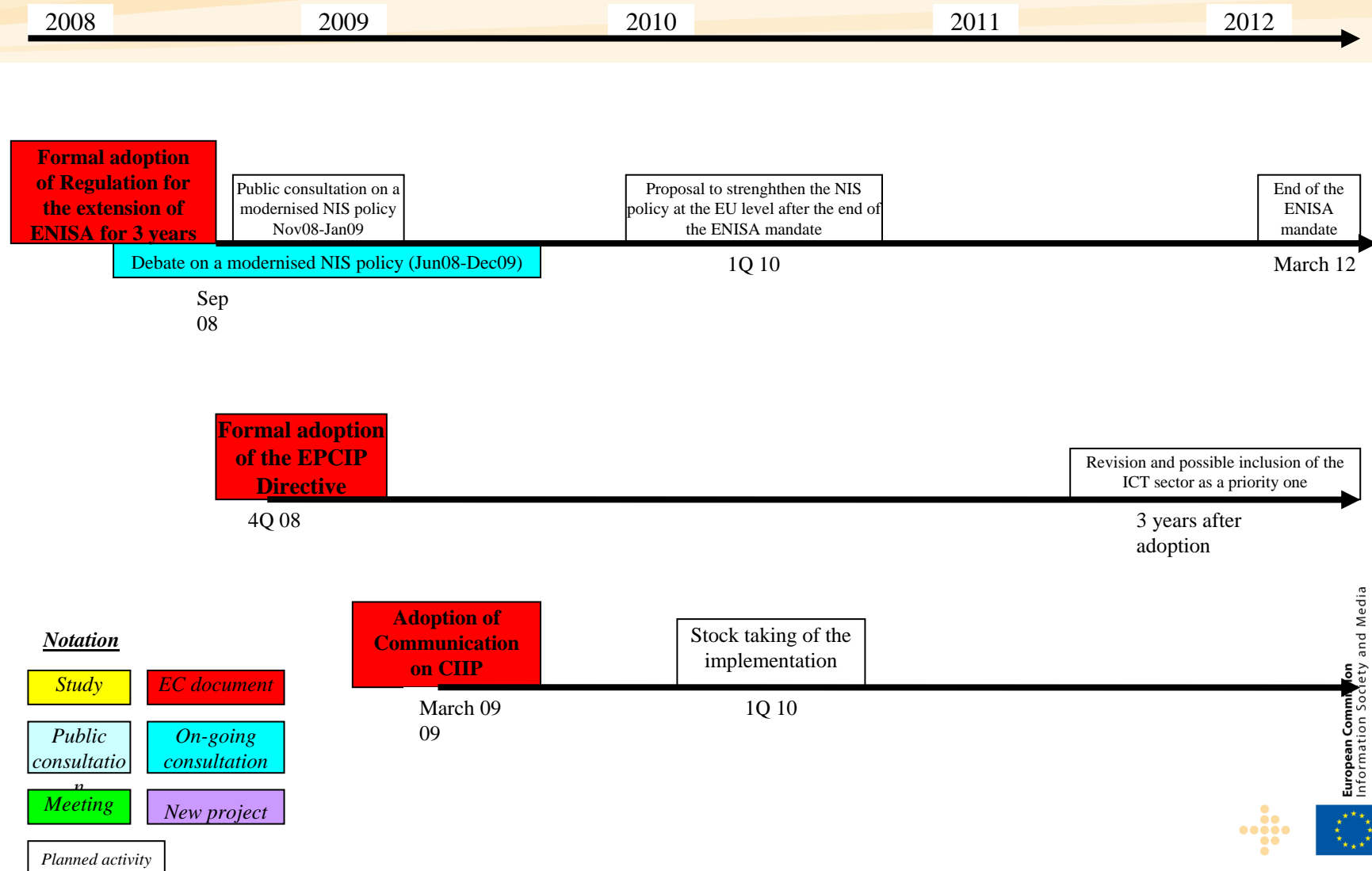
# Planned policy on CIIP

## *Specific objectives*

- Foster the **cooperation** between Member States
- Develop a trusted **public-private partnership** at the EU level on security and resilience of CIIs
- Enhance the **incident response capability** at national and European level
- Promote the organisation of national and pan-european **exercises** for contingency planning and disaster recovery
- Tackle the **international dimension** of CIIP to reinforce co-operation on global issues
  - In particular on the security and the robustness of the Internet



# TIMELINE OF THE CIIP INITIATIVE: *implementation activities*



# **Policy initiative on CIIP:**

## ***Current situation and immediate next steps***

- **Q3-Q4 2008**
  - Completion of the survey on MS policy approaches on CIIP
    - Focus on i) definitions/criteria; ii) risk assessment activities; iii) incident response capability; iv) Public Private Partnership; v) International dimension
  - Analysis of inputs
- **January 2009**
  - Procedure for formal adoption of Communication + Impact Assessment
  - Inter-Service Consultation started (CISNet 102779 DG INFSO, 'Communication from the Commission on Critical Information Infrastructure Protection (CIIP): "Protecting Europe from large scale cyber-attacks and disruptions: enhancing preparedness, security and resilience"')
  - [DEADLINE: 18/02/2009](#)
- **5 February 2009**
  - Workshop with MS on DNSSEC deployment
- **March 2009 (tentative)**
  - Adoption of Communication on CIIP
- **31 March 2009**
  - Workshop on vulnerability disclosure



# Policy initiative on CIIP: Next steps - Medium term 1/2

- **Projects & studies being launched soon**
  - A study on **dependencies on ICTs** of finance, energy and transport sectors\*
  - Grants for prototyping a **European multilingual information sharing and alert system** to provide appropriate and timely information via dedicated e-security web portals on threats, risks and alerts as well as on best practices\*
  - Grant for a project on **DNS resilience**\*

## Call for tenders just closed:

- A study on measures to **analyse and improve European emergency preparedness** in the field of fixed and mobile telecommunications and Internet\*
- A study to **support the process to define sectoral criteria** to identify European Critical Infrastructures in the ICT sector focusing on the sub-sectors of Internet, fixed and mobile telecommunications\*

\* Projects and studies funded under EPCIP financial scheme: "*Prevention, Preparedness and Consequence Management of Terrorism and other Security Related Risks*"



# Policy initiative on CIIP: Next steps - Medium term 2/2

- **Call for Tenders & for Proposals planned in 2009**
  - Grant for the development, implementation and evaluation of a **large-scale pan-European exercise** to test Internet contingency plans\*
  - Grant for the development of national business case for the **implementation of priority communications capability** on public networks\*
  - Grant on **public-private partnership** initiatives to enhance security and resilience of fixed and mobile telecommunications as well as the Internet\*
  - Grant for the development of **inter-dependency modelling tools** for the ICT sector\*
  - Study aiming the development of a methodology and research of quantitative data on the **economics of security and resilience** in CII
  - Study on the security and resilience challenges brought about the **convergence towards IP networks**

\* Projects funded under EPCIP financial scheme: "Prevention, Preparedness and Consequence Management of Terrorism and other Security Related Risks "





**THANKS FOR YOUR ATTENTION**

**QUESTIONS?**



**European Commission**  
Information Society and Media



# Web Sites

## EU policy on secure Information Society

[http://ec.europa.eu/information\\_society/policy/nis/index\\_en.htm](http://ec.europa.eu/information_society/policy/nis/index_en.htm)

## Page on CIIP activities

[http://ec.europa.eu/information\\_society/policy/nis/strategy/activities/ciip/index\\_en.htm](http://ec.europa.eu/information_society/policy/nis/strategy/activities/ciip/index_en.htm)

## Page on ARECI study

[http://ec.europa.eu/information\\_society/policy/nis/strategy/activities/ciip/areci\\_study/index\\_en.htm](http://ec.europa.eu/information_society/policy/nis/strategy/activities/ciip/areci_study/index_en.htm)

## Page on the workshop on large scale attacks

[http://ec.europa.eu/information\\_society/policy/nis/strategy/activities/ciip/large\\_scale/index\\_en.htm](http://ec.europa.eu/information_society/policy/nis/strategy/activities/ciip/large_scale/index_en.htm)

## Inter-Service Consultation

[http://www.cc.cec/cisnet/CisServlet.CISNet?A\\_ACT=ACT900&A\\_MTD=MTD905&A\\_CON=CIS\\_CONSULT4315902342](http://www.cc.cec/cisnet/CisServlet.CISNet?A_ACT=ACT900&A_MTD=MTD905&A_CON=CIS_CONSULT4315902342)

## Public consultation "Towards a Strengthened Network and Information Security Policy in Europe"

[http://ec.europa.eu/information\\_society/newsroom/cf/itemdetail.cfm?item\\_id=464](http://ec.europa.eu/information_society/newsroom/cf/itemdetail.cfm?item_id=464)

<http://ec.europa.eu/yourvoice/ipm/forms/dispatch?form=InfsoNis>



# Links to EU Policy Document 1/2

- **Strategy for a Secure Information Society [COM(2006)251]**  
[http://eur-lex.europa.eu/Result.do?T1=V5&T2=2006&T3=251&RechType=RECH\\_natur&Submit=Search](http://eur-lex.europa.eu/Result.do?T1=V5&T2=2006&T3=251&RechType=RECH_natur&Submit=Search)
- **Fighting spam, spyware and malicious software [COM(2006)688]**  
[http://eur-lex.europa.eu/Result.do?T1=V5&T2=2006&T3=688&RechType=RECH\\_natur&Submit=Search](http://eur-lex.europa.eu/Result.do?T1=V5&T2=2006&T3=688&RechType=RECH_natur&Submit=Search)
- **Promoting data protection by Privacy Enhancing Technologies (PETs) [COM(2007)228]**  
[http://eur-lex.europa.eu/Result.do?T1=V5&T2=2007&T3=228&RechType=RECH\\_natur&Submit=Search](http://eur-lex.europa.eu/Result.do?T1=V5&T2=2007&T3=228&RechType=RECH_natur&Submit=Search)
- **Towards a general policy on the fight against cyber crime [COM(2007)267]**  
[http://eur-lex.europa.eu/Result.do?T1=V5&T2=2007&T3=267&RechType=RECH\\_natur&Submit=Search](http://eur-lex.europa.eu/Result.do?T1=V5&T2=2007&T3=267&RechType=RECH_natur&Submit=Search)
- **Package to reform the Regulatory Framework for e-communications [COM(2007)697, COM(2007)698, COM(2007) 699]**  
[http://ec.europa.eu/information\\_society/policy/ecomm/tomorrow/index\\_en.htm](http://ec.europa.eu/information_society/policy/ecomm/tomorrow/index_en.htm)

# Links to EU Policy Document 2/2

- **European Programme for Critical Infrastructure Protection [COM(2006) 786]**  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=COM:2006:0786:FIN:EN:PDF>

- **Directive on the identification and designation of European Critical Infrastructure and the assessment of the need to improve their protection**

**Press release:**

[http://www.consilium.europa.eu/ueDocs/cms\\_Data/docs/pressData/en/jha/101001.pdf](http://www.consilium.europa.eu/ueDocs/cms_Data/docs/pressData/en/jha/101001.pdf)

**Final text:**

<http://register.consilium.europa.eu/pdf/en/08/st09/st09403.en08.pdf>

- **EPCIP financial scheme: "*Prevention, Preparedness and Consequence Management of Terrorism and other Security Related Risks*"**

**Call for proposals**

[http://ec.europa.eu/justice\\_home/funding/cips/funding\\_cips\\_en.htm](http://ec.europa.eu/justice_home/funding/cips/funding_cips_en.htm)

**Call for tenders**

[http://ec.europa.eu/justice\\_home/funding/tenders/funding\\_calls\\_en.htm](http://ec.europa.eu/justice_home/funding/tenders/funding_calls_en.htm)

**Call for expression of interest (looking for external experts)**

[http://ec.europa.eu/justice\\_home/funding/tenders/funding\\_interest\\_en.htm](http://ec.europa.eu/justice_home/funding/tenders/funding_interest_en.htm)

