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## **ENISA Activities**

#### Industry Seminar Information Security ISO/IEC JTC SC27

10<sup>th</sup> October 2008, Limassol, Cyprus

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# **Overview of Content**

- Work on Risk Management
- Awareness raising
- Resilience (Dr. Ikonomou)





# Risk Management (1) **RM** in Businesses



- In 2007: An approach for RM in SMEs
- In 2007-2008: Working Group on Risk Management \*
- In 2007-2008: Integration of RM with operational \* processes and Corporate Governance
- In 2008: Pilots of the RM approach with multipliers (Univ. of Bologna - IT, IAAITC- UK, GMV - SP)
- In 2008: Overview of existing models in Business Continuity (IT-Contingency)
- In 2008: Overview of existing methods/tools in Business Continuity (IT-Contingency)
- In 2008-2009 (yet to start): Business Continuity ach for SMES approach for SMEs



# Risk Management (2) Emerging and Future Risks

- In 2006: Road mapping to identify sequence of tasks
- In 2006: Identification of Information collection and dissemination process
- In 2007: Requirements for identification of Emerging and Future Risks (Methods)
- In 2007-2008 : EFR workflow
- In 2008: Establishment of Stakeholder Forum
- In 2008: Specification of the workflow
- In 2008: Test scenario to validate EFR workflow
- In 2008: First prototype of the EFR

<u>http://www.enisa.europa.eu/rmra/er\_home.html</u> 





## What's next? ENISA WP2009

- Perform further and more extensive validation tests of the life cycle (proof of concept cont.)
- Establishment of the Stakeholder Forum
- Brokerage of achieved results
- Maintain the EFR lifecycle according to feedback received

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## 2008 Publications of ENISA's AR section and AR Community members

- Obtaining support and funding from senior management for awareness \* raising initiatives
- Secure printing (based on controls from standards COBIT and ISO 27001) \*
- Secure USB flash drives \*
- Key facts and figures about the Awareness Raising Community and its \* members (*electronic booklet*)

#### Latest publications - October 2008

- Children on virtual worlds What parents should know \* giving recommendations to parents and guardians whose children participate in online virtual worlds.
- Social Engineering: Exploiting the Weakest Links







The ability of a system to provide & maintain an **acceptable** level of service in face of faults (unintentional, *intentional, or naturally caused*) affecting normal operation.

- \* The main aim of resilience is for faults to be invisible to users;
- \* A resilient network must guarantee protection and / or restoration schemes;
- Real-time applications demand that resilient end-to-end services be extended across the network;
- **\*** The classification of a networks resilience has to be given from the availability and performance perspective;



- Flash crowd events
- Cyber attacks
- ★ Outages to other services affecting the network
- ★ Natural disasters
- System/Logical failings





- Network resilience is an issue of risk management.
- Mitigation of identified risks involves technical measures such \* as:
  - ★ Resilient design;
  - ★ Resilient transmission media;
  - ★ Resilient equipment;

#### ...and Technologies which might improve Resilience:

- **\* MPLS**
- **\* IPv6**
- **\* DNSSEC**
- **\*** S-BGP
- **\* Other ?**



.01001001000101100www.enisa.europa.eu



## **\*** MPLS

- ★ OSI Layer 2.5 technology.
- \* Used by operators in IP backbones, replacing Frame Relay and ATM.

★ IPv6

- ★ OSI Layer 3 technology replacing IPv4.
- \* Action Plan for the deployment of Internet Protocol version 6 (IPv6) in Europe.

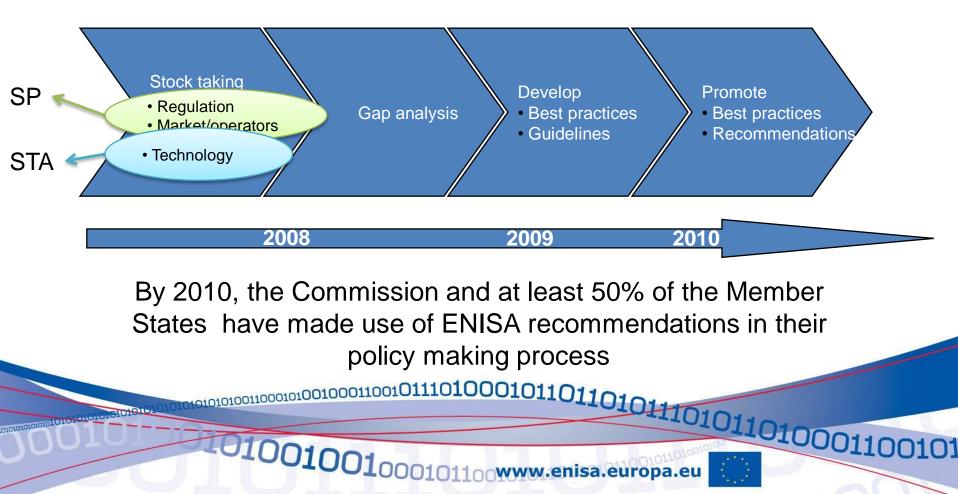
## **\*** DNSSEC

\* A technology improving the security of Domain Resolution Service.

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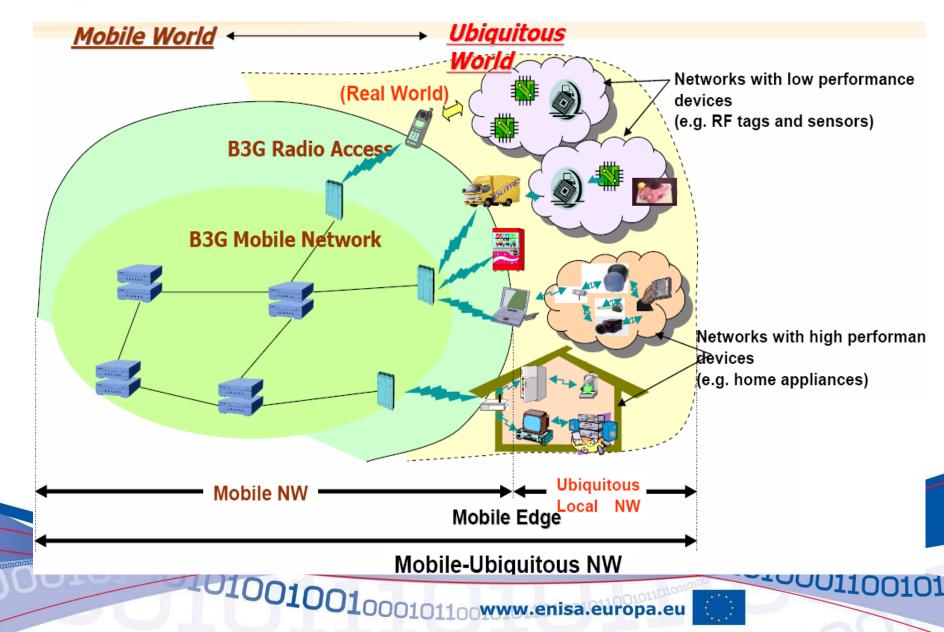


Collectively evaluate and improve resilience in European e-Communication networks



## WP2009 - Future Networking Trends

European Network





An in-depth look on the ENISA activities on resilience...



#### Workshop on "Improving Resilience in European e-**Communication Networks**", Brussels, 12-13 November 2008 http://www.enisa.europa.eu/sta/workshop2008

### ★ Two days workshop, where:

- ★ the findings of the stock taking activities carried out during 2008 will be presented;
- ★ including the possible directions in terms of recommendations that the Agency will follow in the course of next year;
- ★ For further information:

http://www.enisa.europa.eu/sta/workshop2008



# Where to find...

- RM Web site: http://www.enisa.europa.eu/rmra/rm\_home.html
- Emerging Risks: http://www.enisa.europa.eu/rmra/er home.html
- Awareness Raising: http://www.enisa.europa.eu/pages/05 01.htm
- Resilience: http://www.enisa.europa.eu/pages/resilience.htm http://www.enisa.europa.eu/sta/



### Thank you for your attention!

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ENISA Website: <u>www.enisa.europa.eu</u> http://www.enisa.europa.eu/sta/