

Improving Resilience in European e-Communication networks

MTP 1

Dr. Vangelis OUZOUNIS
Senior Expert – Security Policies
Technical Department
ENISA

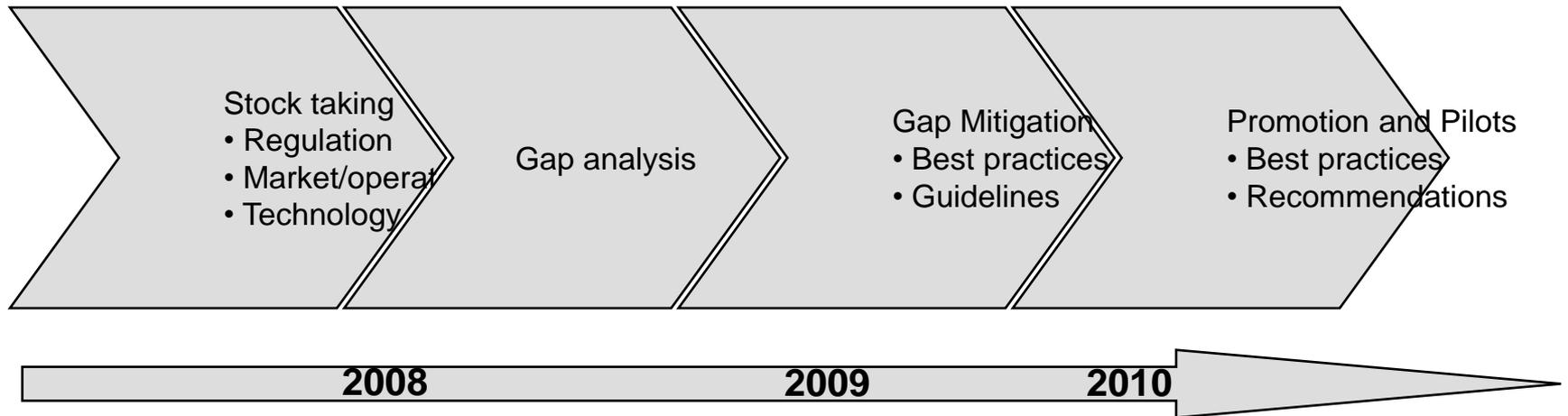
29th of May, Athens

Outline

- ENISA's MTP 1 Work Programme
 - Work Packages
 - Challenges
- Challenges
- Expression of Interest
- Conclusions

MTP1: Resilience

Collectively evaluate and improve resilience in European e-Communication networks



By 2010, the Commission and at least 50% of the Member States have made use of ENISA recommendations in their policy making process

Work Package 1.1

- Objectives
 - analyse existing regulatory measures and requirements put in place by Member States on network and service providers regarding resilience of their operations
- Scope (indicative)
 - identifying authorities in MS and their tasks (e.g. audits, information collection),
 - analysing existing regulatory measures (regulations, recommendations, guidelines)
 - analysing preparedness and recovery measures (e.g. specification, testing, restoration, repair and recovery plans of priority communications)
 - analysing incident response capabilities
 - data exchange among providers, mutual co-operation
 - overall risk assessment measures
- Stakeholders
 - regulators (e.g. ERG and IRG) and National Agencies/Authorities
 - sector associations (e.g. EICTA, ETNO, EUROISPA, national ISP associations, ...)
 - pan European Telcos, ISPs, Service Providers, ...
 - domain experts and specialised companies
- Approach
 - scoping of topics & identification of stakeholders (workshop Q1 08, Brussels) ¹
 - workshop on questionnaire and stock taking (16.06, Brussels)
 - data collection through targeted interviews of MS representatives (Q2+3 08)
 - analysis of collected data (Q3+4 08)
 - validation of findings with experts and stakeholders (consultation Workshop, Q4 08)
 - Publication of stock taking results

Work Package 1.2

- Objectives
 - analyse approaches, methods, measures and strategies deployed by Network Providers to maintain an acceptable level of operational service
- Scope
 - preparedness and protection measures (e.g. contingency and business continuity plans, priority communications, critical communication paths,)
- Stakeholders
 - Network and Service Providers, ISPs, ESPs, cc-TLDs,
 - sector associations (e.g. EICTA, ETNO, EUROISPA, GSM Association, National and Regional ISP associations, ...)
 - domain experts and specialised companies in resilience services/products
- Approach
 - identification of topics and stakeholders (workshop Q1 08, Brussels)
 - data collection through an online survey (Q2+3 08)
 - analysis of collected data and measures (Q3+4 08)
 - validation of findings with experts and stakeholders (consultation workshop Q4/08 to Q1/09)

Work Package 1.3

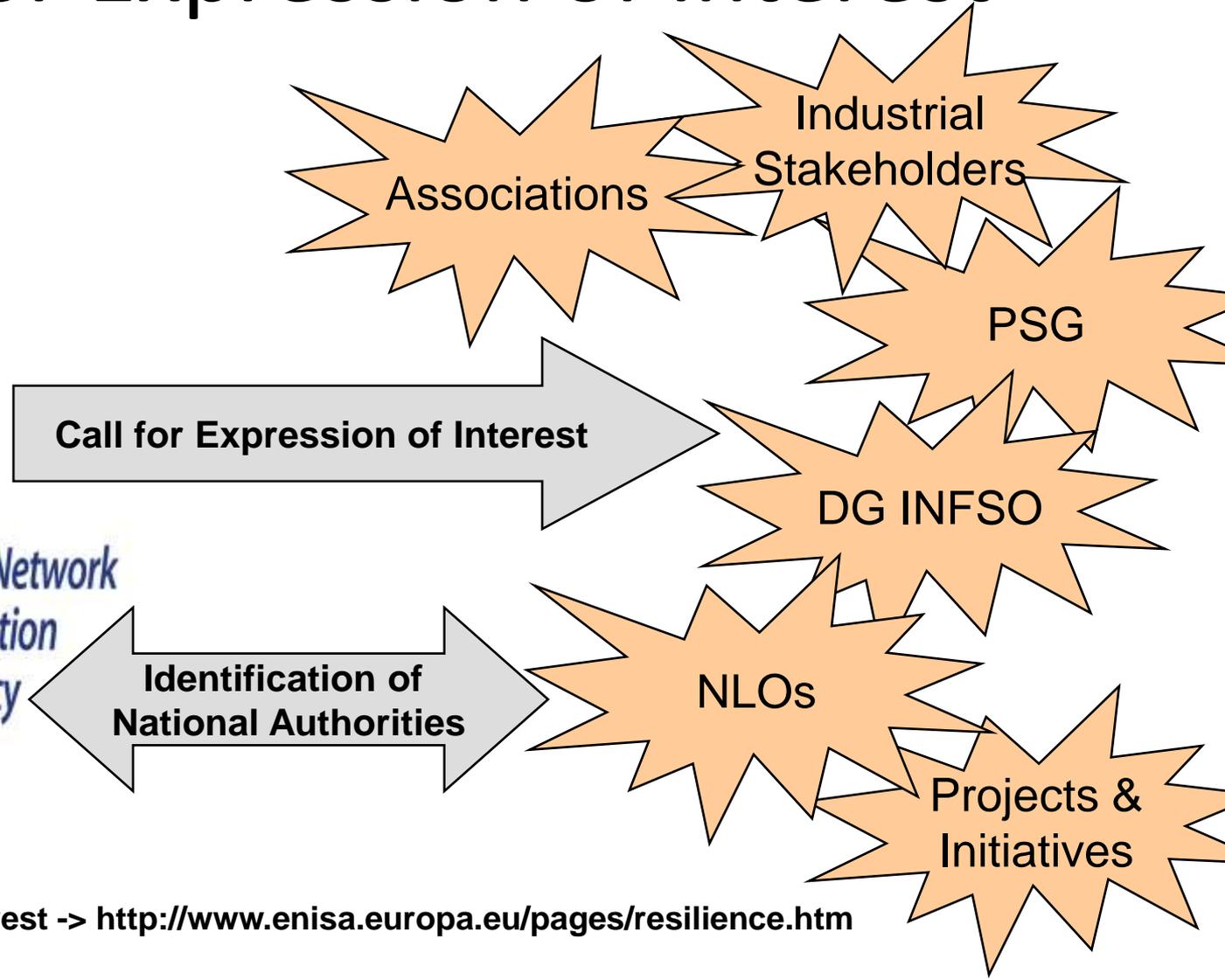
- Objectives
 - analyse current and emerging technologies used by network and service providers to enhance the resilience of their operations
- Scope
 - Internet backbone technologies, DNSEC, security in BGP, IPv6 deployment, ...
- Stakeholders
 - network equipment providers, software providers, service developers, outsourcing service providers, ...
 - domain experts and specialised companies in resilience service products
 - Research institutes and standardisation bodies
- Approach
 - selection of topics & stakeholders (consultation workshop, Q1 08, Brussels)
 - consultation with stakeholders through seminars, studies, interviews, expert groups (Q2+3 08)
 - analysis of resilience enhancement of existing and emerging technologies (Q4 08)
 - validation of findings with experts and stakeholders (consultation workshop Q4 08 to Q1 09)

Challenges



- **complexity (overlapping, conflicting) regulations and measures in MS**
- **multiplicity of owners and point of references**
- **diversity of requirements from different sectors**
- **variety of expectations from different sectors**
- **emerging topic, only a few pan European specialised professional bodies**
- **existing stakeholder groups just started developing capabilities**
- **standards and technologies in progress**

Call for Expression of Interest



Call for Expression of Interest -> <http://www.enisa.europa.eu/pages/resilience.htm>



Identification of National Authorities

- **Who**
 - defines security measures at national level for public communication networks and services
- **Which**
 - security measures were defined
- **How**
 - companies ensure compliance with measures
 - compliance is ensured
 - breaches or deviations from security measures are dealt by both companies & authorities
 - regulation influences security threats
 - can we improve our measures (best practices)?
- **Which is the status so far (lessons learned, way forward)**
- **Response (ENISA's National Liaison Officers)**
 - Austria, Cyprus, Estonia, Finland, Germany, Greece, Iceland, Ireland, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Norway, Portugal, Sweden, UK

Conclusions

