CyberRoad Final Workshop

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Aims of my speech

- Quick overview of project organization and goals
- Providing the context for the next speeches
CyberRoad people

«We few, we happy few, we band of brothers»

W. Shakespeare - Henry V
The CyberRoad team
Why CyberRoad?

• The project call: Topic SEC-2013.2.5-1 Developing a cyber crime and cyber terrorism research agenda
  – ......
  – What are the major research gaps?
  – What are the major research topics that must be addressed to fill the gaps?
  – ......

• Research agenda: we have been committed to do a roadmap
• Based on a solid roadmapping methodology
How we did the roadmap

• We built on state-of-the-art methodologies and available guidelines of **S&TRM (science and technology roadmapping)**, including past EU projects
  - EC-funded project eGovRTD2020 www.egovrtd2020.org

• We developed a methodology that takes into account the specific features of the fight against cyber crime and cyber terrorism

• As well as its contextual environment, which encompasses societal, political and economic issues beside technological ones.
How we did the roadmap

Exploratory roadmap using scenario building and gap analysis

Creation of actual & future scenarios

Data Collection
- Surveys & Stakeholders Opinions
- Literature Review
- Workshops

WP2 – WP7

Contextual aspect of CC & CT
(Technological, social, economic, political, and legal landscape)

WP3 & WP4

Cybercrime and Cyber-terrorism threats and defenses

WP5 & WP6

Gap analysis

WP2

Roadmap construction
Project organization

Ensures the management of the Project

WP1 Management
WP organization

WP2
Scientific Coordination

Provides the roadmapping methodology

WP1
Management
WP organization

WP1 Management

WP2 Scientific Coordination

Identify the S.E.P.L. scenario behind Cybercrime and Cyberterrorism

WP3
Social, Economic, Political, and Legal Scenario
WP organization

WP2
Scientific Coordination

WP4
Technological Scenario

Provides a comprehensive view on technologies

WP1
Management
WP organization

WP2
Scientific Coordination

WP3
Social, Economic, Political, and Legal Scenario

WP4
Technological Scenario

Context

WP3 and WP4 identify the context that allows Cybercrime and Cyberterrorism to proliferate

WP1
Management
WP organization

WP2 Scientific Coordination

Address specific issues of Cybercrime (stakeholder needs, best practices, taxonomy of defense solutions)

WP3 Social, Economic, Political, and Legal Scenario

WP4 Technological Scenario

WP5 Cybercrime

WP1 Management
WP organization

WP2
Scientific Coordination

WP3
Social, Economic, Political, and Legal Scenario

WP4
Technological Scenario

As for Cybercrime, but focusing on Cyberterrorism

WP6
Cyberterrorism

WP1
Management
WP organization

WP2
Scientific Coordination

Roadmapping Methodology

WP3
Social, Economic, Political, and Legal Scenario

WP4
Technological Scenario

WP5
Cybercrime

WP6
Cyberterrorism

WP1
Management
Scenario Template

Title

Summary

Threats

Threat 1:
• description
• targeted assets
• threat likelihood
• consequences

Threat 2:
...

Defenses

Key drivers

a one-page narrative description

a list of the threats that emerge from the scenario

a list of the desired defenses

a list of the key driving factors
WP organization

WP2 Scientific Coordination

Roadmapping Methodology

WP3 Social, Economic, Political, and Legal Scenario

WP4 Technological Scenario

WP5 Cybercrime

WP6 Cyberterrorism

Current Scenario

WP1 Management
WP organization

WP organization

Roadmapping Methodology

WP2
Scientific Coordination

WP3
Social, Economic, Political, and Legal Scenario

WP4
Technological Scenario

WP5
Cybercrime

WP6
Cyberterrorism

Future Scenario

WP1
Management
**GAP ANALYSIS**: the process of comparing actual and future views (i.e., the current knowledge and future needs) in order to identify *research gaps*
WP organization

WP2 Scientific Coordination

Roadmapping Methodology

Research Gaps

Research Roadmap

WP3 Social, Economic, Political, and Legal Scenario

WP4 Technological Scenario

WP5 Cybercrime

WP6 Cyberterrorism

Future Scenario

WP7 Dissemination and Exploitation

Ensures dissemination of the project outcomes and supports the involvement of the relevant stakeholders

WP1 Management
Main output: research roadmaps

- Cybercrime
- Economy
- Anti Malware
- Healthcare
- Behavioural security
- Trust chain & identity

Action RT1.a
Action RT1.b
Action RT1.c
Action RT1.d
Action RT2.a
Action RT2.b
Action RT2.c
Action RT3.a
Action RT3.b
Action RT3.c
Action RT3.d
Action RT4.a
Action RT4.b
Action RT4.c
Action RT5.a
Action RT5.b
Action RT5.c
Action RT5.d
We do not claim to make definitive predictions on the future of cyber crime and cyber terrorism, or to provide a complete roadmap of research priorities.

We did an understandable and accountable research roadmap that can help policy-makers to consider and explore the potential evolutions of cyber crime, and to allocate resources on plausible research actions to address research gaps.