

www.uti.eu.com

Integrated security concepts for critical systems

Adrian Floarea
Chief Commercial Officer
UTI

Do you feel secure?

You may not be!

All the systems can be attacked



Bucuresti 10 Octombrie 2013 - Protecția infrastructurilor critice din sectorul energetic.
Dependențe intersectoriale energie-comunicații.

What are you prepared for?



Bucuresti 10 Octombrie 2013 - Protecția infrastructurilor critice din sectorul energetic.
Dependențe intersectoriale energie-comunicații.









Bucuresti 10 Octombrie 2013 - Protecția infrastructurilor critice din sectorul energetic.
Dependențe intersectoriale energie-comunicații.



Threats are borderless

**Attack over RSA
in USA**

STUXNET in Iran



Threats



- **Civil and military information systems can be vulnerable**
- **Critical infrastructure is relying on electronic data**
 - **Solar explosions can perturb or even destroy electronic devices and communication**
 - **Worst case scenario**
 - **Pencil and paper supplies**
 - **Out of the boundaries of today presentation**

Updated security perimeter

What is new

Cloud computing

- Information can be anywhere

Mobile users

- Information available remotely
- Heterogeneous environment

Unconventional On-line presence and social media

- New mechanisms for information sharing and publishing

Difficult to control and monitor

Challenges

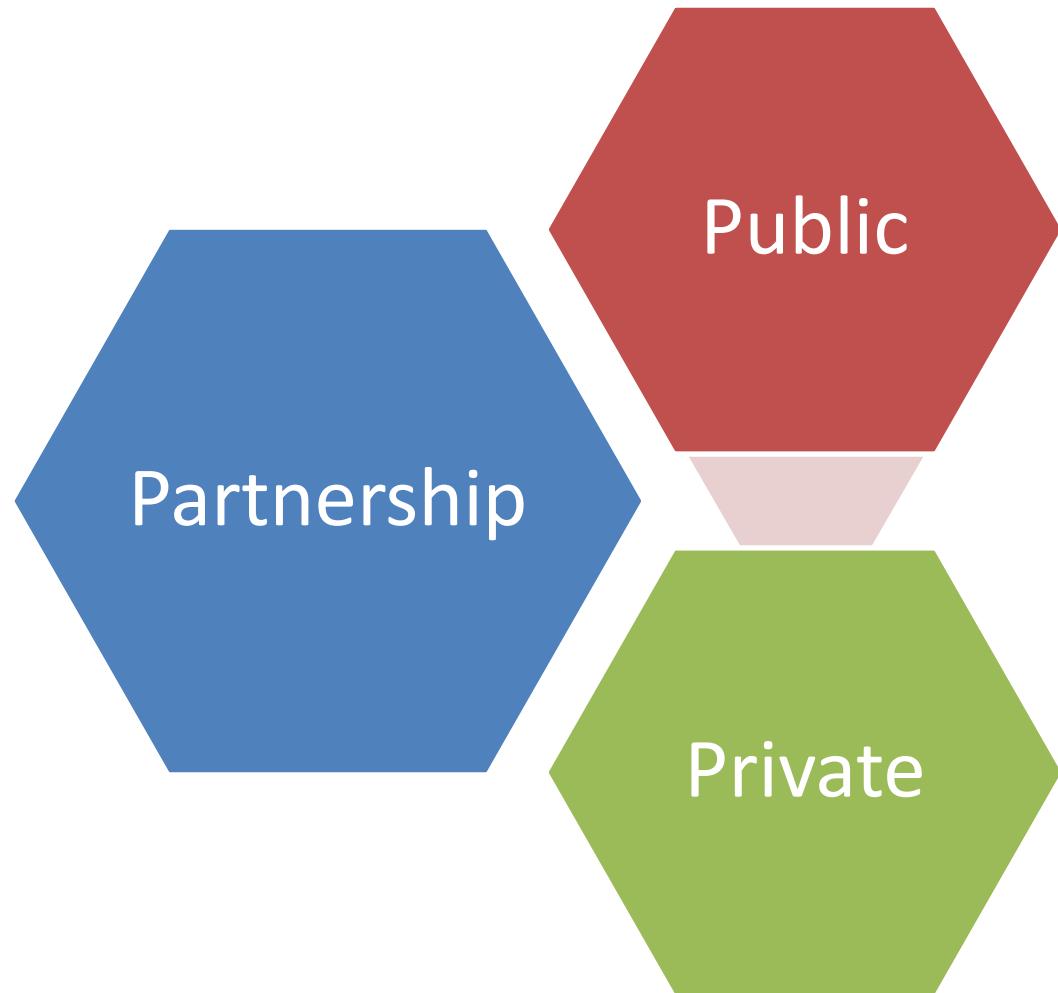
- Technical
- Policies and procedures
- Collaboration and information exchange: CERT/CSIRT, SOC



Emergency preparedness

- Get ready for the unexpected
- Complex situation that occur by surprise
 - Stakeholders are defenseless
 - Plans were not prepared
- Establish an emergency management framework
 - Understandable and sharable
 - Applicable to all stakeholders
 - Flexible

Critical infrastructure crisis management coordination group



- Public – Private partnership
- Involvement of relevant third parties
 - According to the importance of the domain

Critical infrastructure crisis management coordination group, tasks

- Governance
- Target achievement
- Supervise preparation
- Promote improvements of legislation
- Definition of emergency situations
 - Easy to be identified
 - Justify new investments by the stakeholders
- Establish or get on board a technical body
- Establish Critical infrastructure CERT/CSIRT
 - Monitoring, detection, reaction
 - Information sharing
- Circle of Absolute Trust*
 - collaborative mechanism allowing to exchange confidential information anonymously under the govern of a "Trusted Chair"

* Final Report THALES INFORMATION SYSTEMS SECURITY CONSULTING AND EVALUATION for the European Commission Directorate-General "Justice, Freedom and Security"

Practical achievements

- Common governance model
- Technical standards and guidelines
- Exercise and interoperability tests
- Establishment of CERT/ CSIRT by each stakeholders
- Development of complementary systems
 - Early Warning
 - Disaster Warning
 - Investigation / Forensic
 - Information sharing network

What to do

Mission Critical

- Label it “Mission critical” and act accordingly
- Start with available stakeholders
- Obtain support from external organization
- Reuse experience from other industries

Thank you!