

WISTP'2007

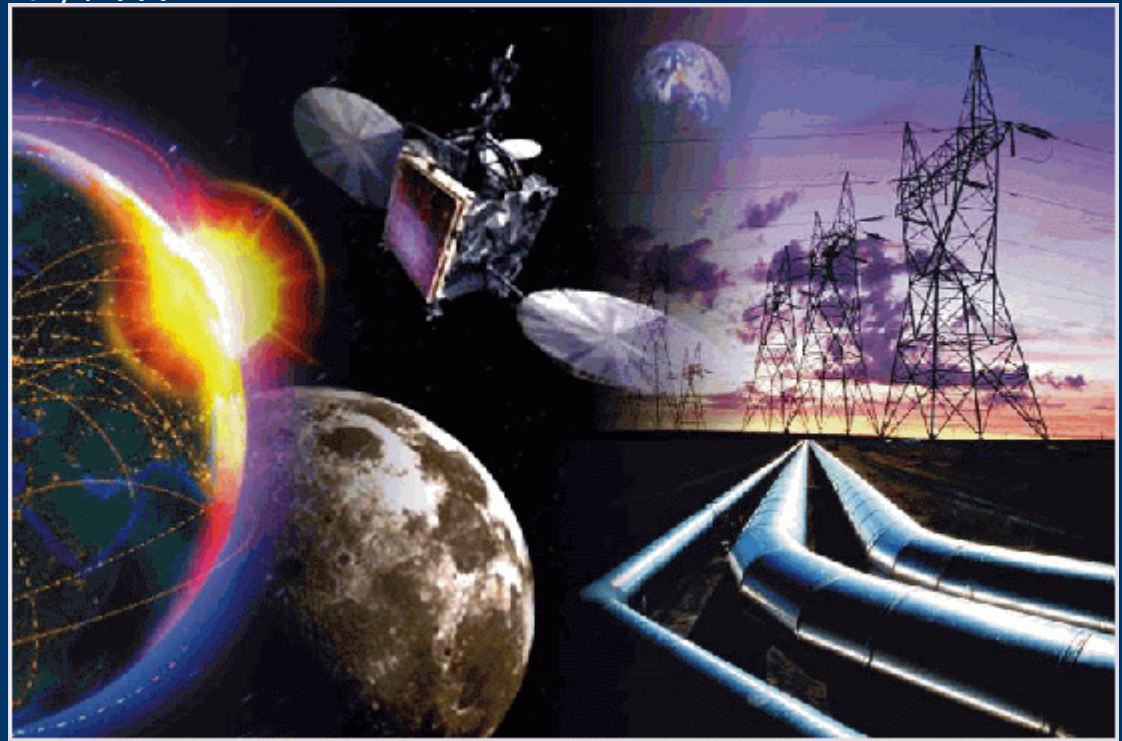
Critical Infrastructure Security

What is it all about
and
how does it related to ICT security?

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Critical infrastructures

- Telecommunications
- Transportation: Roads, railways, ...
- Energy: Gas/electricity/...
- Financial services
- Borders
- Manufacturing
- Water
- Health care
- Emergency services sectors



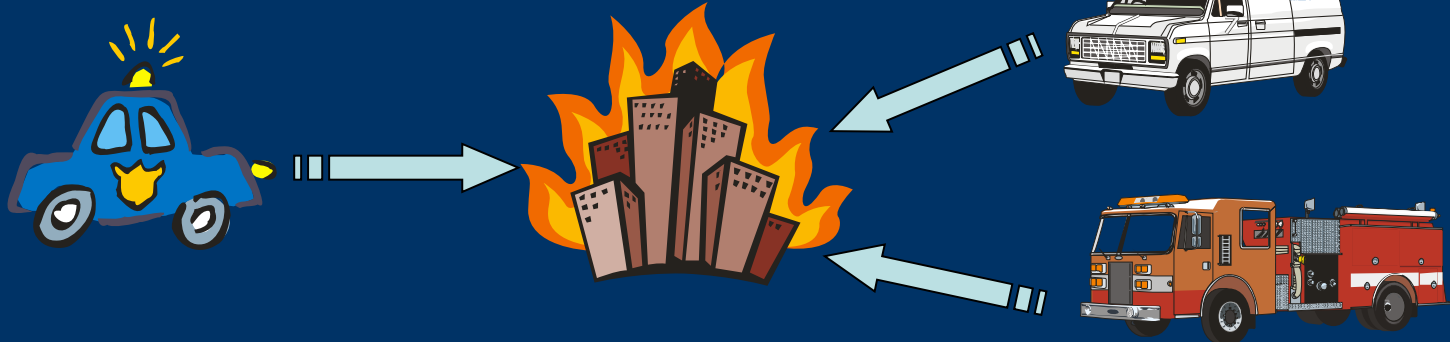
Which type of CRISIS ?

Crisis (source: Wikipedia) *is a turning point or decisive moment in events. Typically, it is the moment from which an illness may go on to death or recovery. More loosely, it is a term meaning 'a testing time' or 'emergency event'. It is a concept in economics (discussed elsewhere) and in international relations.*



- **Financial crisis** - short term liquidity or cash flow problems; and long term bankruptcy problems
 - **Public relations crisis** - More commonly called "crisis communications," negative publicity that could adversely affect the success of the company
 - **Strategic crisis** - changes in the business environment that call the viability of the company into question - for example the introduction of the automobile was a strategic crisis for buggy-whip manufacturers
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Rescue and Emergency



Solutions: MANET, Sensors networks, Vehicular networks, DT networks ?



Source: Spears Project
www.freeband.nl

Crisis and the EC in FP7?

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES
1. Security of citizens / 1.2 Integration projects	<i>SEC-2007-1.2-01 Intelligent urban environment observation system</i>	<i>Collaborative project</i>
	<i>SEC-2007-1.2-02 Integrated mobile security kit</i>	
1. Security of citizens / 1.3 Capability projects	<i>SEC-2007-1.3-01 Stand off scanning and detection of hidden dangerous materials and/or stowaways, fast and reliable alerting and specification</i>	<i>Collaborative project</i>
	<i>SEC-2007-1.3-02 Improved control of explosives throughout their "lifecycle"</i>	
	<i>SEC-2007-1.3-03 Localisation and tracking of components of substance production</i>	
	<i>SEC-2007-1.3-04 Observation through water, metal, ground etc</i>	
	<i>SEC-2007-1.3-05 Water distribution surveillance</i>	
	<i>SEC-2007-1.3-06 Secure strategic information management system</i>	
2. Security of infrastructures and utilities / 2.1 Demonstration projects	<i>SEC-2007-2.1-01 Security of critical infrastructures related to mass transportation</i>	<i>Coordination and support action (supporting)</i>
2. Security of infrastructures and utilities / 2.2 Integration projects	<i>SEC-2007-2.2-01 Integrated protection of rail transportation</i>	<i>Collaborative project</i>
2. Security of infrastructures and utilities / 2.3 Capability projects	<i>SEC-2007-2.3-01 Detection of unattended goods and of owner</i>	<i>Collaborative project</i>
	<i>SEC-2007-2.3-02 Detection of abnormal behaviour of vehicles & threats, both in wide and small land areas</i>	
	<i>SEC-2007-2.3-03 Detection of abnormal behaviour</i>	
	<i>SEC-2007-2.3-04 Small area 24 hours surveillance</i>	

Crisis and the EC in FP7?

3. Intelligent surveillance and border security / 3.1 Demonstration projects	SEC-2007-3.1-01 Integrated border management system	Coordination and support action (supporting)
3. Intelligent surveillance and border security / 3.2 Integration projects	SEC-2007-3.2-01 Main port security system (including containers)	Collaborative project
	SEC-2007-3.2-02 Unregulated land borders surveillance system	
	SEC-2007-3.2-03 Integrated check points security	
3. Intelligent surveillance and border security / 3.3 Capability projects	SEC-2007-3.3-01 Air 3D detection of manned and unmanned platforms	Collaborative project
	SEC-2007-3.3-02 Surveillance in wide maritime areas through active and passive means	
	SEC-2007-3.3-03 Solutions for ensuring end-to-end communication availability, relying on physical and logical technologies, on diversity of hybrid systems	
4. Restoring security and safety in case of crisis / 4.2 Integration projects	SEC-2007-4.2-01 Network enabled command and control systems	Collaborative project
	SEC-2007-4.2-02 Integrated specialist search and rescue system	
	SEC-2007-4.2-03 Post incident basic service restoration system	
	SEC-2007-4.2-04 Wireless communication for EU crisis management	
4. Restoring security and safety in case of crisis / 4.3 Capability projects	SEC-2007-4.3-01 Developing a common operational picture between regional and national authorities, first responders etc.	Collaborative project
	SEC-2007-4.3-02 Intelligent decision support	
	SEC-2007-4.3-03 Personal equipment	
	SEC-2007-4.3-04 Neutralisation of devices/effects	