



Presentation to  
PSC Europe Forum Conference 2009

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# Presentation objectives

- Introduce the Project
  - Define SECRI COM
  - Vision
  - Programme & Partners
- Introduce the Approach Taken
- Aspects of User Requirements
- Architectures and Technology
- Finalisation

- Seventh Framework Programme – FP7
- Wireless Communication for Crisis Management
  - Multi-Agency/Multi-National
- 13 Partners
- Start date: 1<sup>st</sup> September 2008
- End date: 30<sup>th</sup> April 2012
- 44 months duration
- Total cost ~ €12.5M
- EU contribution ~ €8.6M

# The Consortium

- User Requirements



- Infrastructure



ARDACO



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- Applications



ARDACO



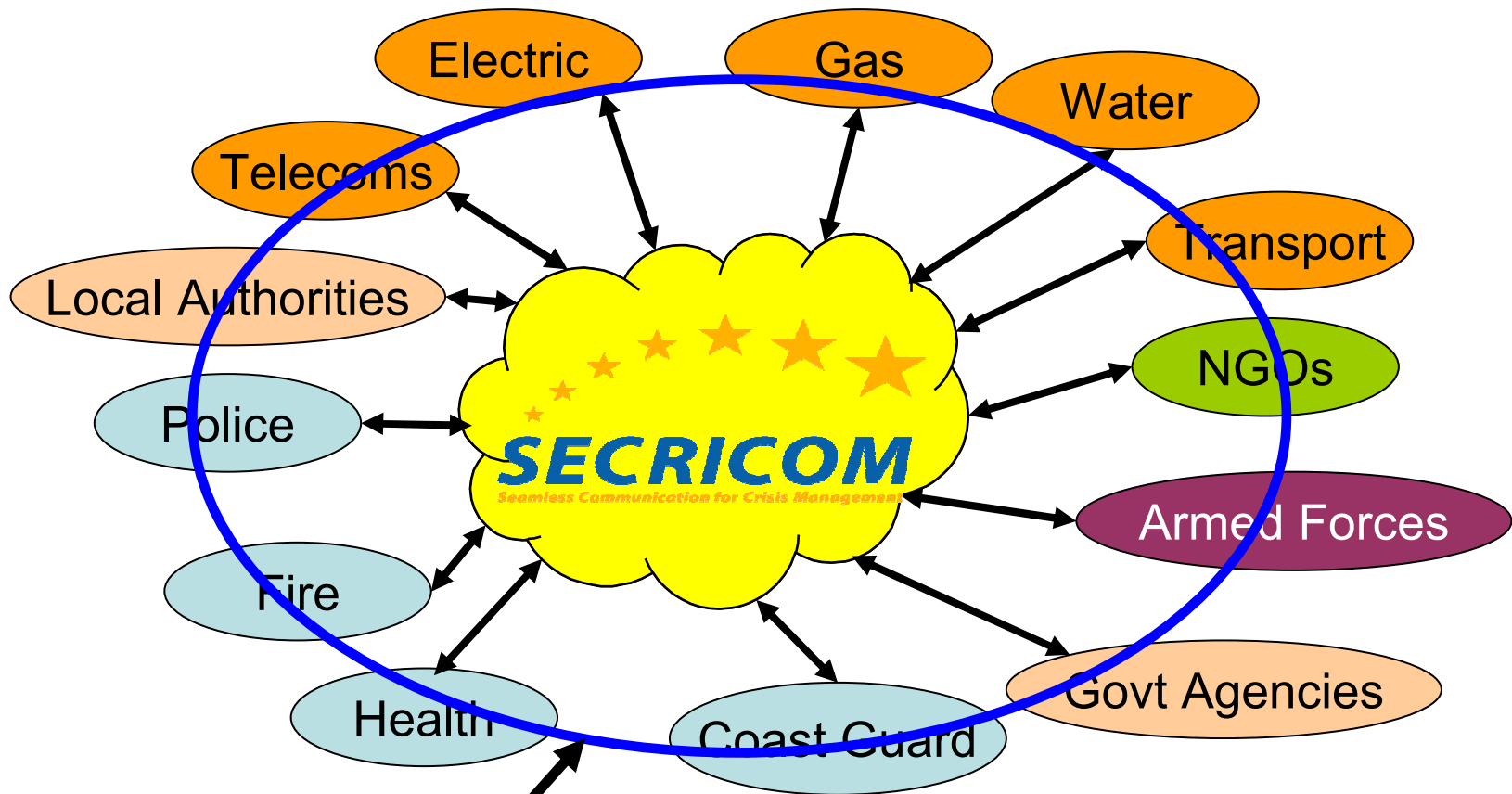
- Ability for responders to operate across different European emergency services / responder agencies as one cohesive unit at the time of a crisis
- Secure communication system during a crisis with technical interoperability built into the design



# Aims

- Provision of seamless communications for emergency agencies at times of crisis
- Enhance interoperability among heterogeneous secure communication systems
- Enhance interconnectivity between different networks and User Access Devices
- Exploit existing communication systems
- Interface towards emerging SDR systems in a generic manner
- Mitigate some of the key capability gaps faced by users of existing systems

# Business Stakeholders



**International Border**

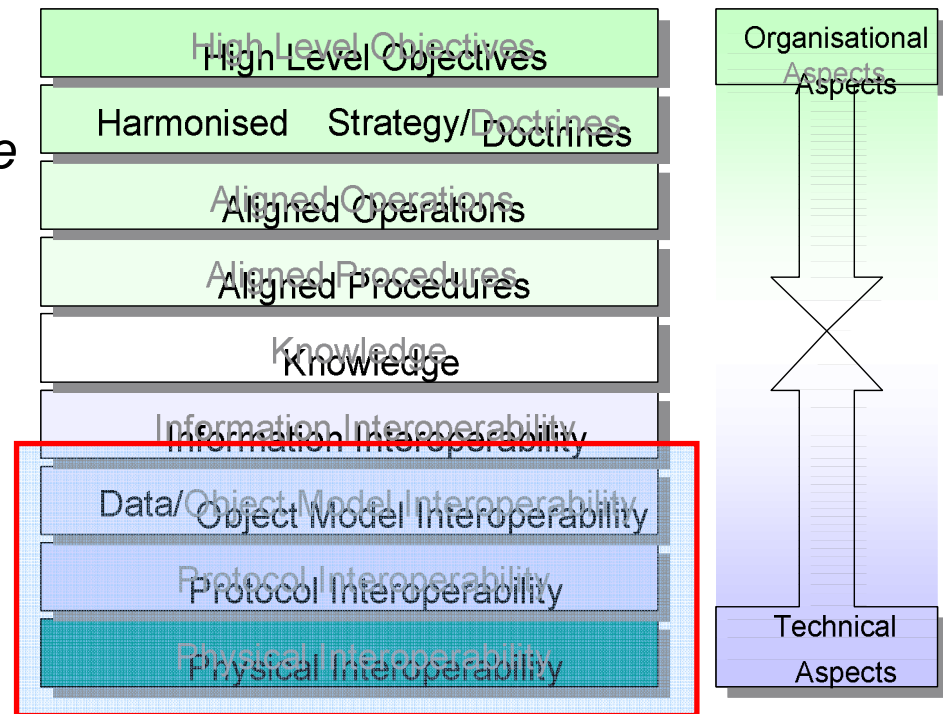
# Interoperability

## Definition:

*The capability of two or more organisations or discrete parts of the same organisation to exchange decision-critical information and to use the information that has been exchanged.*

*Clearly, interoperability ranges from organisational to technical aspects all of which must be 'harmonised' in order to achieve full interoperability.*

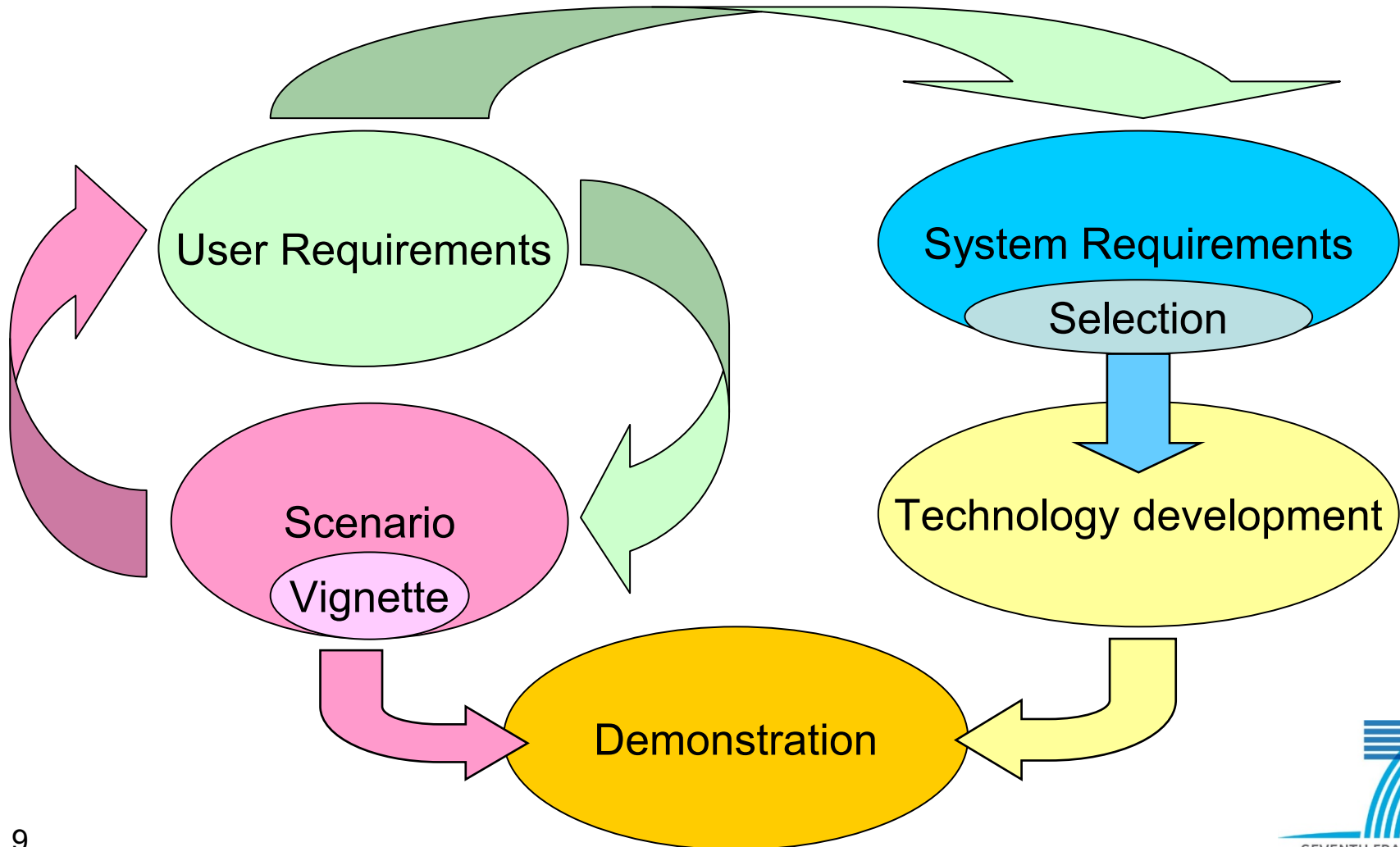
## Layers of Interoperability



**Scope:** The technical aspects of Interoperability

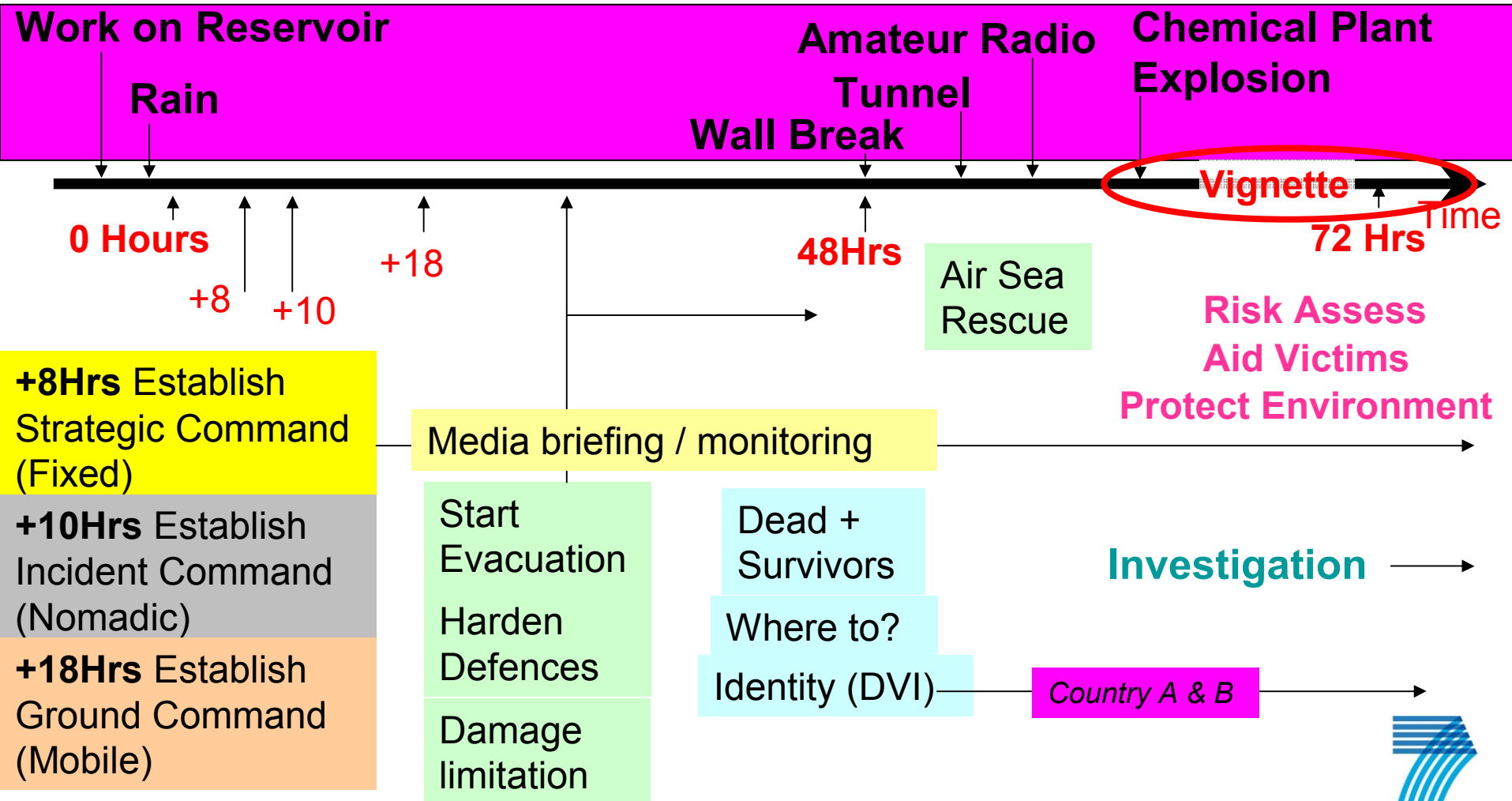


# Project Approach

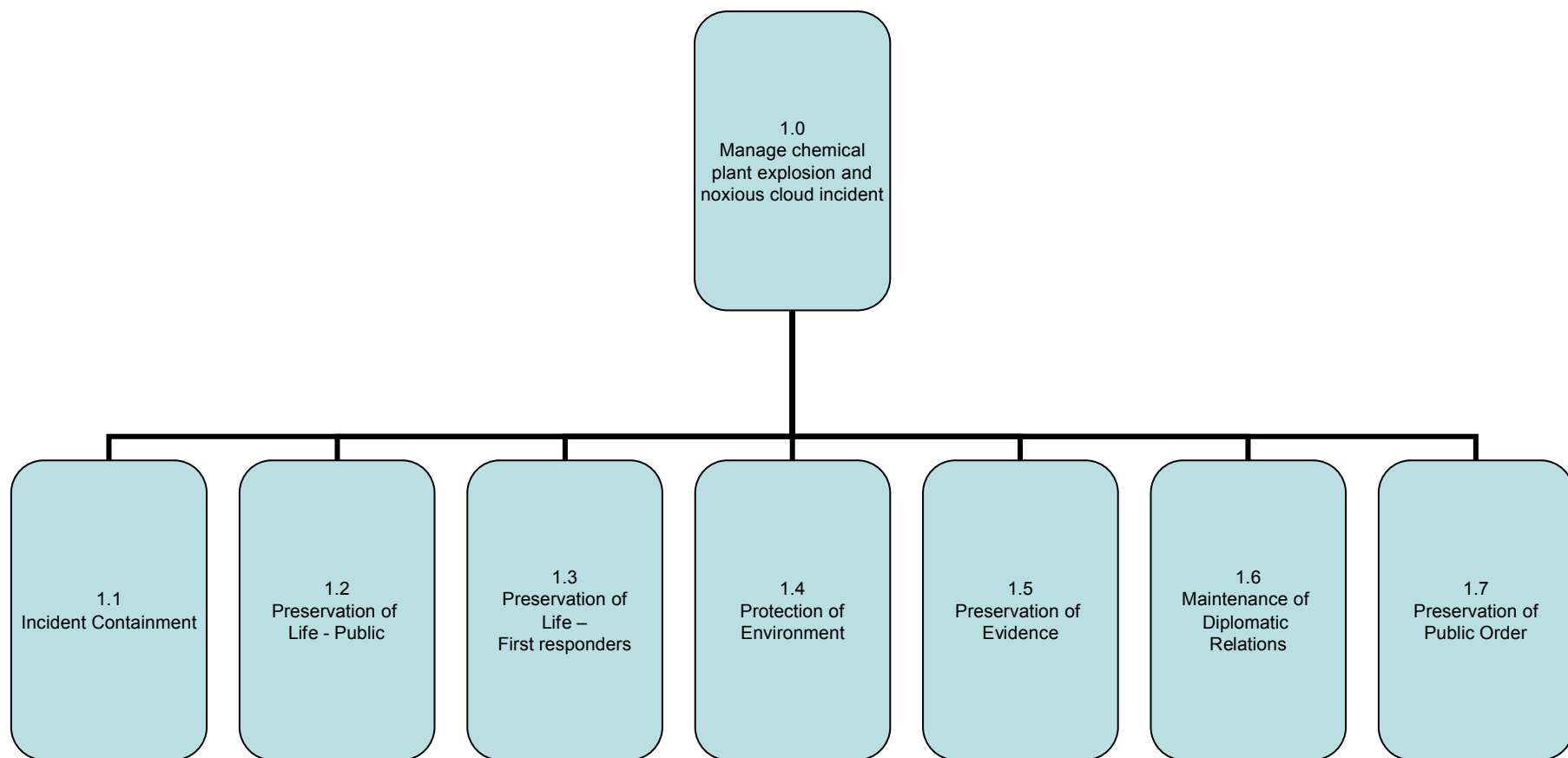


# Scenario and User Requirements

# Scenario



# Use Case (Vignette Example)



## Benefits to the Stakeholder

- User driven process for requirements capture
- Requirements emerge from realistic scenario
- Requirements become scenario independent
- Clear audit trail from requirements through systems requirements to final demonstrator test

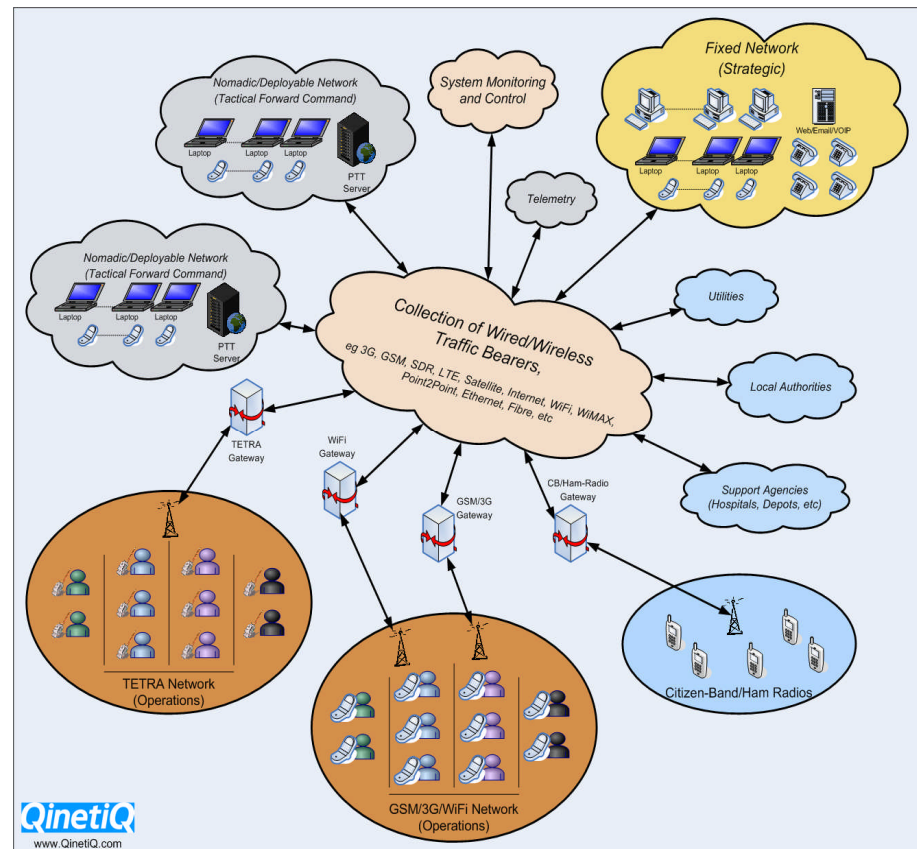
# System Architecture and Solution Technologies

Clear Need for communications that can be relied upon

# Communications System Requirements: Holistic High Level View

The communications system architecture allows:

- Technical interoperability:  
Able to extend comms across different agencies and countries.
- Service expandability:  
Able to extend comms into areas of poor coverage.



# Communications System Requirements: Confidentiality + Integrity

Confidentiality: This is being tackled in two ways

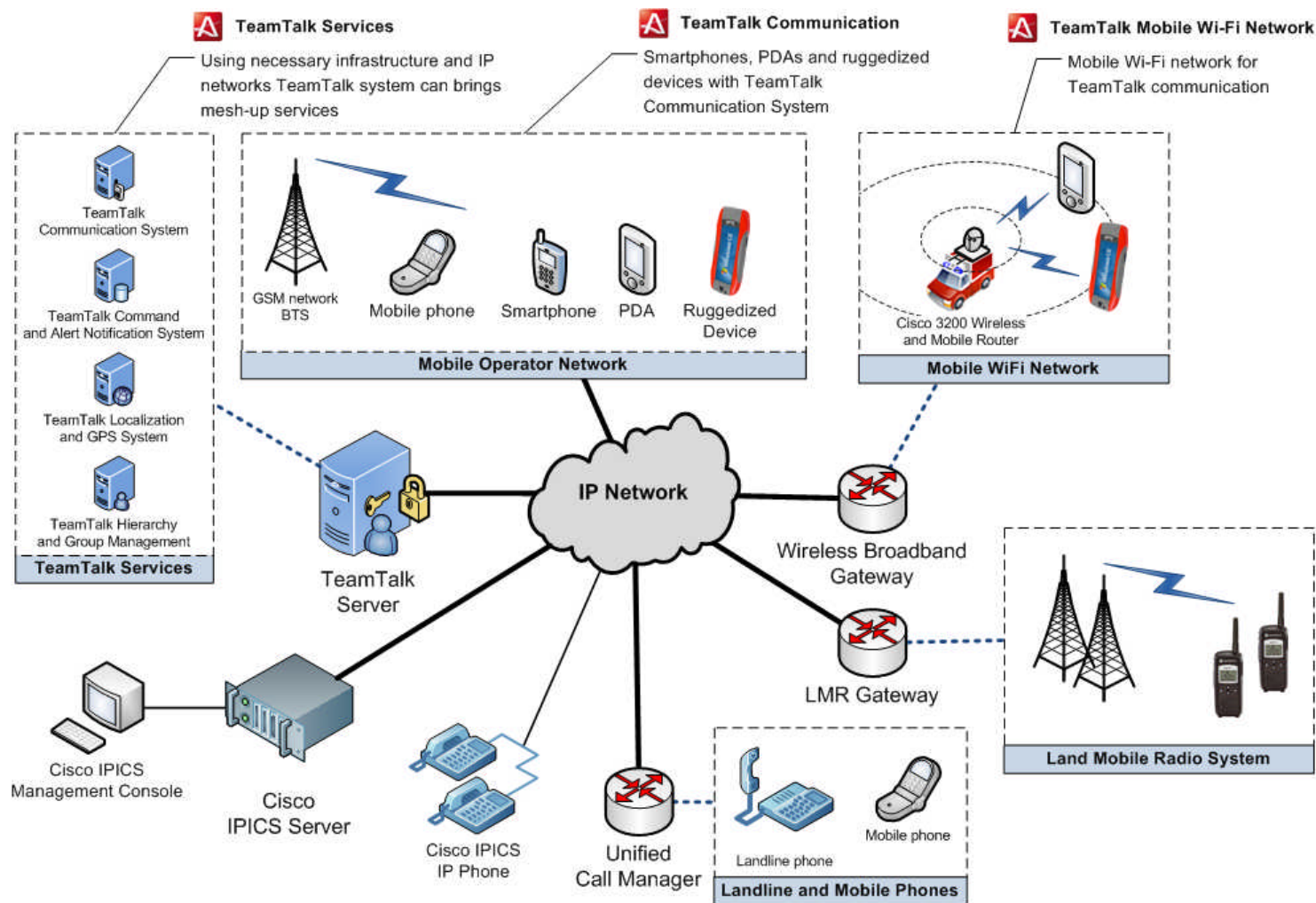
- End-device to end-device
- Node to node

Integrity:

- System integrity: is the terminal/computer platform you are using infiltrated? Has the platform integrity been compromised?
  - Malware, Trojan horses, etc
- Information exchange integrity: in a multi-agency/multi-state scenario, how does an agency's database 'trust' an external query? Is the query made from a trusted agency? Or.....?
  - Information exchange between distributed multi-agency/multi-national databases



# System Convergence



Where are we?

# Where are we?

- **Scenario Development & Validation**
- **C2 Structure Validation**
  - UK, Slovakia, Luxembourg
- **Validation of Top Level User Requirements**
  - Swedish Police
  - Basque Regional Emergency Communications Centre
  - UK: Fire, Police, Ambulance & Local Authority
- **User Workshop to Define IERs September 2009 in London:**
  - London Fire Brigade
  - Northamptonshire County Council
  - Dept of Health
  - Hampshire Constabulary
- **Identification of System Solutions and Solution Developments**
- **Planned Exhibition: BAPCO Conference, April 2010, London**

# Questions ?



## Contact

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