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Secure Dynamic Cloud for Information, Communication and Resource Interoperability based on Pan-European Disaster Inventory

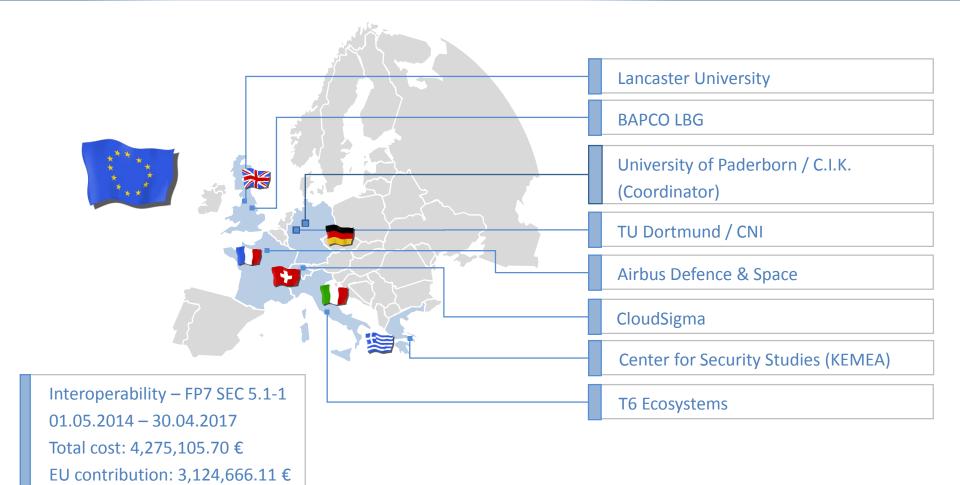
Paul Hirst (British APCO)

PSCE Conference
Graz – 2015/05/27



The SecInCoRe consortium

























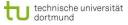




- Data sets
- Processes
- Information Systems

- Business Models
- ELSI Ethical, Legal, Social Issues













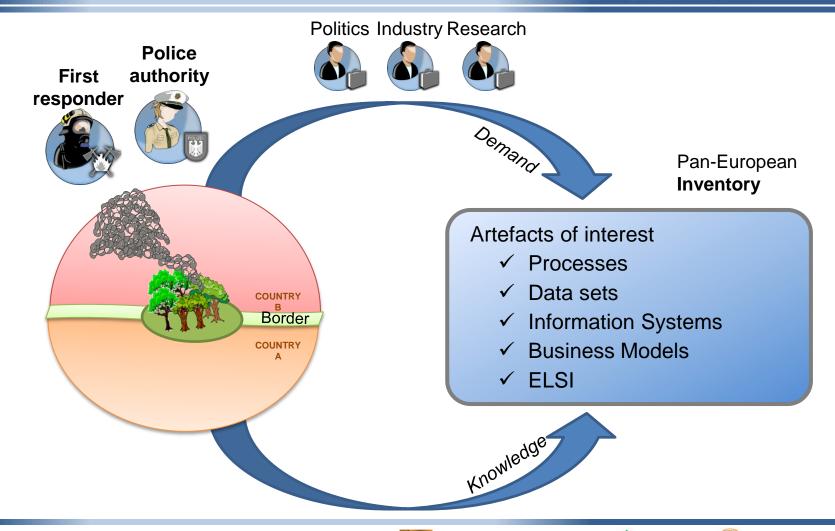






Pan-European inventory

























Common Information Space concept

→ On demand network setup integrated in the crisis management process

→ Secure 'role based' cloud services for interoperability and collaboration

→ **Taxonomy** and 'Common Information **Space'** concept for ELSI aware information exchange













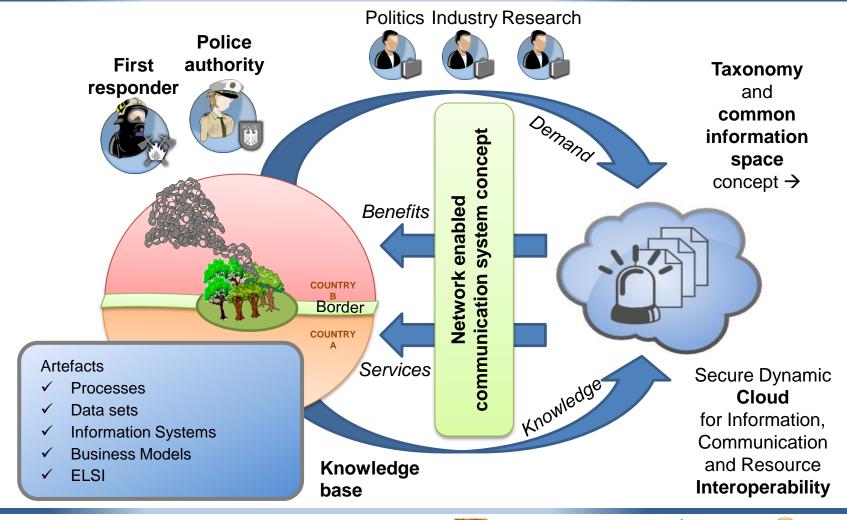




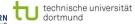


,Common Information Space^e

























Secure & dynamic cloud based system

- New knowledge to enhance efficiency of first responders and police authorities
- Information, Communication and Resource Interoperability in crisis management













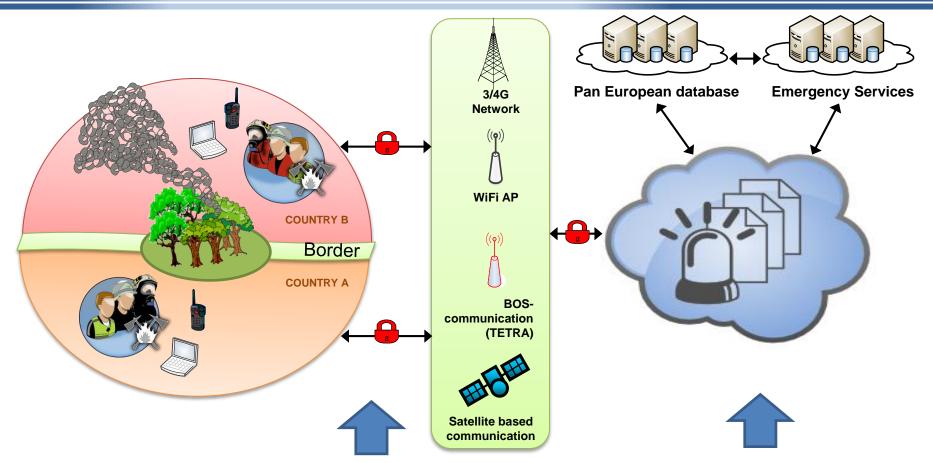






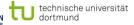
Cloud based network enabled communication





Implementation of communication system and integration to end-user environments

Implementation of pilot cloud services and provision to end-users



















SecInCoRe provides knowledge and concepts, for instance...

- ...when a commander searches for experiences from similar events during a disaster...
- ...when a **planner** searches for best practices from the past...
- ...when an exercise designer or trainer searches for scenarios for real-world or virtual trainings...
- ...when an IT department tries to understand ELSI related to data...











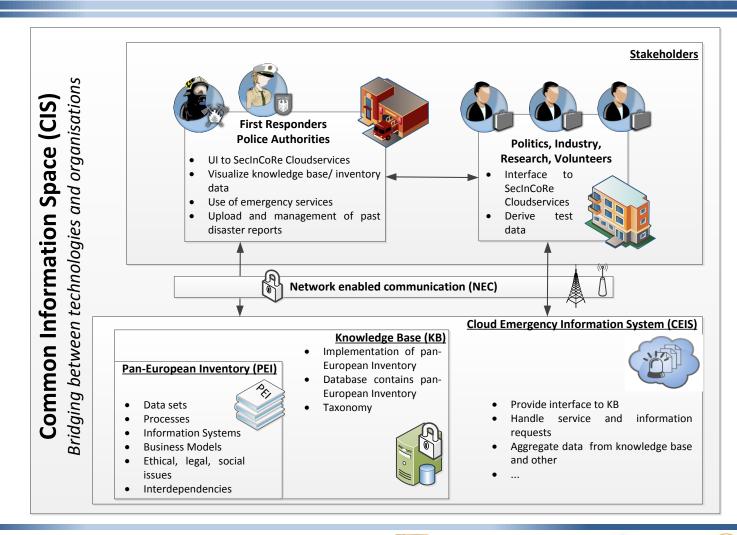






...the idea is...













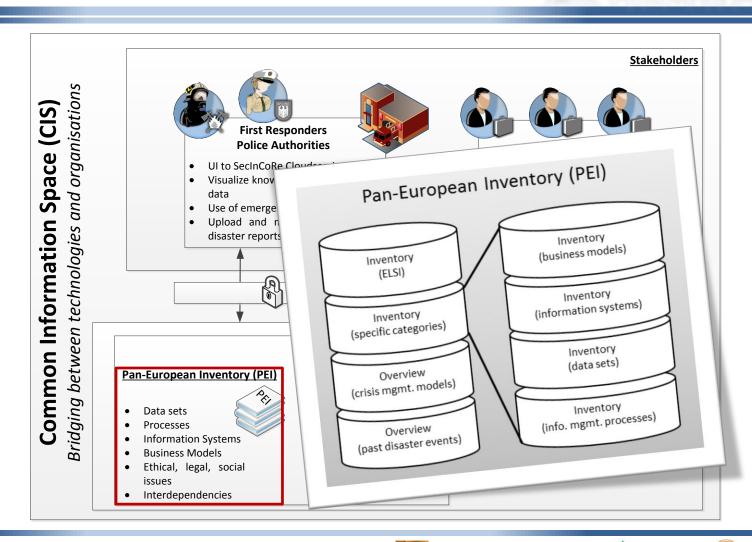




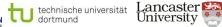


...to gather and store information...















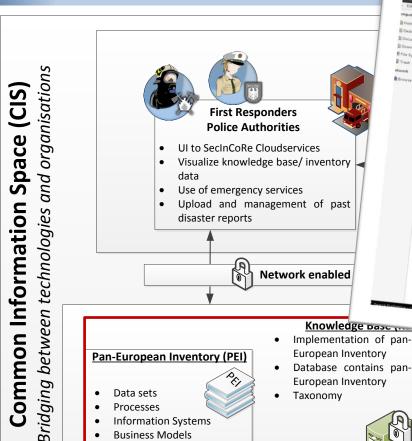


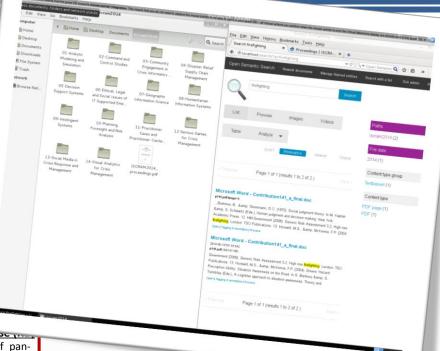




...to model semantics and provide access...







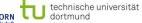
- Data sets
- Processes
- Information Systems
- **Business Models**
- Ethical, legal, social issues
- Interdependencies

- Implementation of pan-European Inventory
- Database contains pan-**European Inventory**
- Taxonomy



- Provide interface to KB
- Handle service and information requests
- Aggregate data from knowledge base and other



















...and exemplarily









Bridging bet Commo

Pan-European Inventory (PEI)

- Data sets
- **Processes**
- Information Systems
- **Business Models**
- Ethical, legal, social issues
- Interdependencies

Knowledge Base (KB)

- Implementation of pan-**European Inventory**
- Database contains pan-**European Inventory**
- Taxonomy

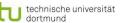


Provide interface to KB

- Handle service and information requests
- Aggregate data from knowledge base and other























Summary & Outlook



- Pan-European inventory
 - of past critical events and disasters and their consequences
 - of data sets, structures & processes, information systems and business models
- Common Information Space (CIS) Secure, dynamic cloud based knowledge base and communication system concept
 - including the inventory and a taxonomy of inventory categories
 - including a network enabled communication system concept
- Conceptual integration of available technology
 - co-design approach, esp. based on cloud computing technology and ELSI
 - for research, demonstration and sustainable uptake of results
 - based on a community building approach
- Research outcomes in terms of
 - evaluation and validation of all results in representative fields of application
 - standardisation and extensions to existing crisis management models and modifications to business models of first responder and Police authorities





















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