World standards Day 2011
Competitiveness through standardisation

Standards as a tool for Security Industrial Policy

The case of an SME

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Intelligence for Environment & Security
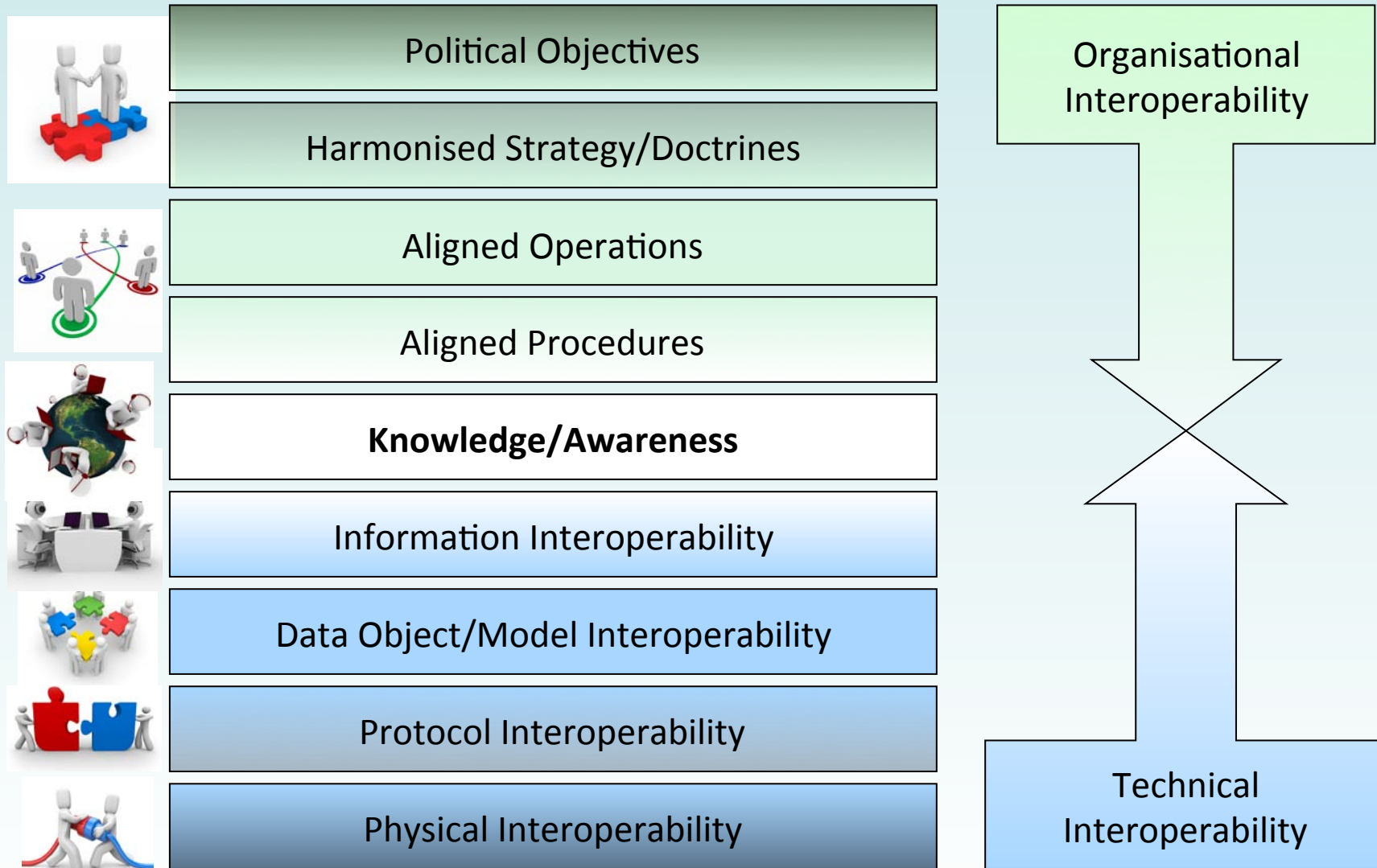# IES Solutions

Our mission

"To create and deliver original, robust and flexible IT solutions that enable customers to exploit and benefit from sensing, communication and data management technologies"

Our goal statement is

Turning research into Intelligent Solutions

Interoperability layers in Emergency Management

Political Objectives	Organisational Interoperability
Harmonised Strategy/Doctrines	
Aligned Operations	
Aligned Procedures	
Knowledge/Awareness	
Information Interoperability	
Data Object/Model Interoperability	
Protocol Interoperability	Technical Interoperability
Physical Interoperability	

The challenge of
Integrated Emergency Management

In spite of the efforts made in integrating Emergency Management, each and every involved Organisation makes use of its own Command and Control System, well adapted to their needs and procedures.

The challenge of integrated emergency management

Unfortunately, such systems are NOT able to share data, or, in other words, are not interoperable

As a consequence of this, operators are used to communicate in voice (typically by phone) even when sitting few meters away from each other

The REACT project

- Funded by the EC under FP6

- 2.5 years, 10 partners

- Trials in Italy, Germany, UK

- Scope: improving emergency
  management through data
  sharing by defining open data
  Protocols and a distributed architecture
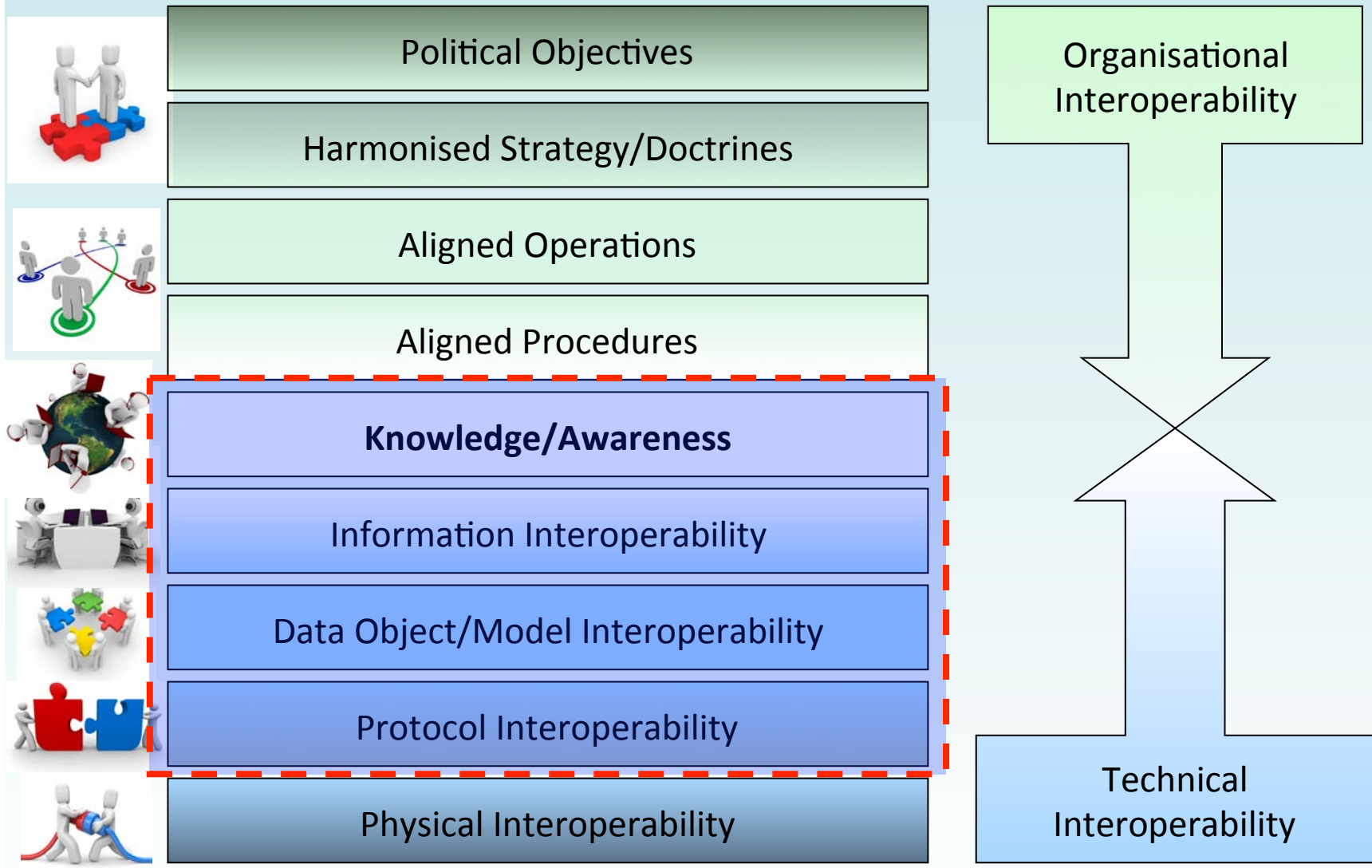 scalable from local level up to European level

Our approach
A non-proprietary standards

Non-proprietary standards allow all emergency Services to adopt them without costs for licensing or special tools:

- CAP (Common Alerting Protocol) used for structuring information in an XML file

- Italian CAP Profile for the further definition of additional information fields

- ATOM FEED as distribution mechanism of CAP messages in a many-to-many distributed architecture

Where we stand

Political Objectives

Harmonised Strategy/Doctrines

Aligned Operations

Aligned Procedures

Knowledge/Awareness

Information Interoperability

Data Object/Model Interoperability

Protocol Interoperability

Physical Interoperability

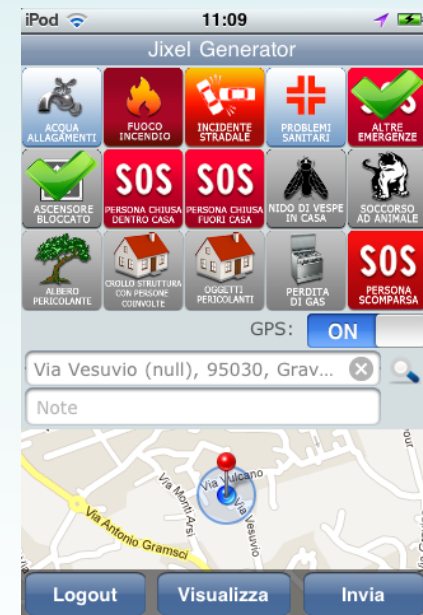Organisational Interoperability

Technical Interoperability

Service/functionalities made possible because of the standard

Being based on open standards, further specialised application can be designed, implemented and integrated. Generating, retrieving, displaying and analysing CAP messages can be adapted to several different scenarios:

- Multilingual Interfaces
- Geographic or thematic Integrations
- Applications for mobile devices
- Icon interfaces (e.g. 115-4-DEAF)

Some final points

- Without standards, SMEs can hardly enter the Security market

- Standards cannot be imposed, but rather suggested, refined and demonstrated with reference implementations to get accepted by users

- Once standards are agreed, a lot of opportunities will open up; in our case for improving cooperation and leveraging the quality and efficiency of Emergency management.

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