



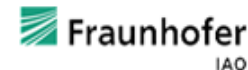
A Decision Support Tool for Reconstruction and recovery and for IntEroperability of international Relief units in case Of complex crises situations, including CBRN contamination Risks

DESTRIERO DISSEMINATION DAY

19th August 2016

Speakers: Tom Flynn @TomFlynnConsult

Welcome



Tom Flynn – Chairperson:



CEO of TFC Research and Innovation Limited.
Working for Saadian on the Destriero and Sector projects.

Working for the European Commission on the EDEN and GIFT-CBRNE projects.

Co-founder of the NSAI Citizen and Society standards group with Stephen Purcell.
(opposite)

Member of the CEN TC391 and ISO 232 standards committees, both of which address issues related to Citizen and Societal Security.

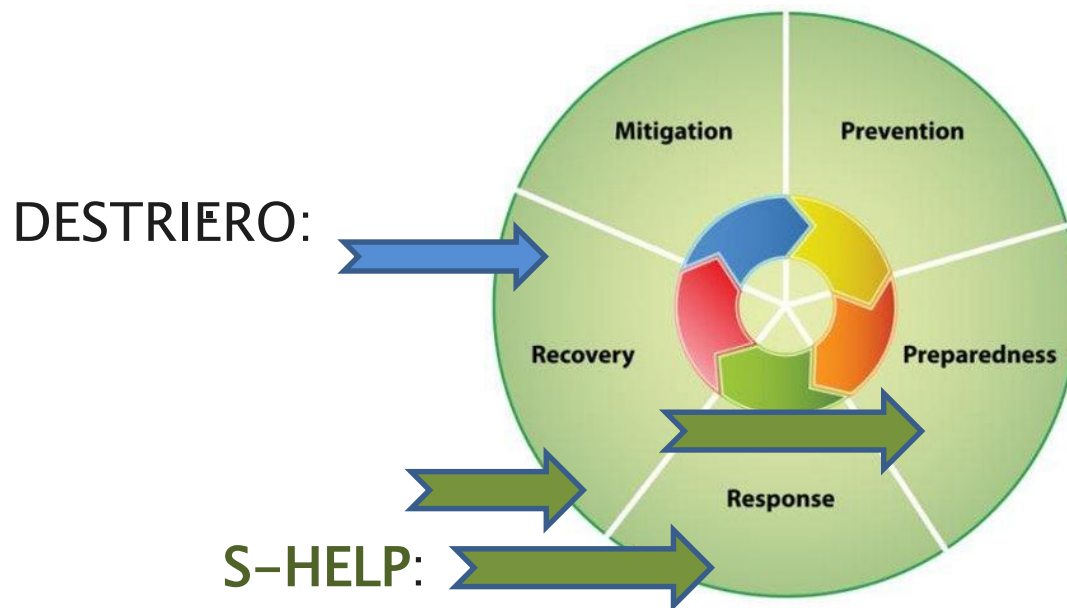
Working with DIN (Germany) on the development of a CEN CWA document and separately with Q-Validus (Ireland).

Chairperson of the European Security Research event. (www.ESRDublin2015.eu)

Agenda:

09:30 - 09:50	Dissemination Day Registrations
09:50 - 10:00	Welcome Opening - chair Tom Flynn (Saadian Technologies)
Session 1: DESTRIERO A Reconstruction and Recovery Planning for large scale crisis and disaster management	
10:00 - 10:30	DESTRIERO - What is it all about? Lex McCoubrey (PSNI) Elena Francioni (e-GEOS)
10:30 - 11:00	DESTRIERO - Demonstration and Q&A. Allan Coyle (Saadian Technologies)
11:00 - 11:30	Teas and coffee network.
Session 2: S-HELP A holistic framed approach to healthcare preparedness, response and recovery.	
11:30 - 12:00	S-HELP - What is it all about? Silvia Planella (UCC)
12:00 - 12:30	Presentation of Crisis Communication Tool (CCT and Q&A.) Martina Madden (Future Analytics)
12:30 - 13:00	Closure - chair Tom Flynn (@TomFlynnConsult)
13:00 - 14:00	Lunch and network. Collection of Questionnaires.

Software Tools for Crisis and Emergency Management



www.fp7-destriero.eu

www.fp7-shelp.eu

- DESTRIERO focuses on post-crisis reconstruction and recovery planning



- A platform designed to:
 - Support continuous damage and contamination assessment
 - Increase and improve information sharing
 - Support prioritisation and joint decision making

S-HELP: Securing Health. Emergency. Learning. Planning.

- Development of Decision Support System to Improve Preparedness and Response of Health Services Involved in Large-Scale Emergency Situations.
- Define an Interoperability Standard for multiple agencies to enable communication across geographical and cultural boundaries.
- Develop and deliver a Holistic Framed and Integrated approach to healthcare preparedness, response and recovery.

S-HELP: Securing Health. Emergency. Learning. Planning.

Capability and Impact of S-HELP Tools and Decision Support System will be measured through 3 Simulated Scenarios:

- Mass Flooding: natural disaster, regional event.
- Chemical Explosion: deliberate, cross-border event.
- Biological Contamination: accidental, international event.

Flooding Scenario – Cork, Ireland in September 2016.

European Commission – Community of Users Initiative:

- Impacts European policy on security research.
- Forum for exchange – acts to help bridge the knowledge gap and transferability of security research activities to/from operations.
- Mapping policies and research projects that has been carried out in light of operational features regarding the overall risk management cycle (from preparedness / prevention, detection / surveillance, response / recovery) and the need to ensure a proper transfer (and implementation) of research outputs to users.
- Identifies and presents technology tools coming down the line.

Contact for joining the CoU group:

philippe.quevauviller@ec.europa.eu

Forthcoming Community of Users meeting dates:

Brussels: 10th October 2016 on CBRN-E, followed by EDEN final conference and CBRN Innovation Fair on October 11–12th 2016.

Free Registration: <https://cbrne-fair2016.eu/>

Lyon: 21st October 2016 on Flood Risks.

Brussels: 12th December 2016 on Water Safety and Security.

International and National Standardisation:

- NSAI/Societal and Citizen Security Interest Group: est. Sept 2014.
 - Aims to represent Irish interest in standardization for Societal security, and specifically Emergency management, Crisis management and Business continuity at European and International levels.
- CEN TC 391 / WG1: HealthCare WG2: CBRNE WG3: Crisis Mgm.
Providing input to:
 - BSI Enhancing organizational resilience using management standards.
 - European Crisis Management – Guidance and Best Practice (EN 11200).
- www.esrdublin2015.eu
 - EU projects, CoU and Standardisation presentations can be viewed from the site.

International and National Standardisation (sample):

MB/ NC ¹	Line number (e.g. 17)	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments	Proposed change
FAC	Pg 25	7.7	n/a	ed	<i>'Consistency of message'</i>	Add *Monitoring and measuring communication heading. Add information about how the organisation assess the impact of the message it is disseminating in the crisis situation Change to – *Media: the opportunities, risks, and incorporate social media
FAC	Pg 25	7.9	n/a	ed	<i>'Social media: the opportunities and risks'</i>	Make this a subsection of 8.1 Develop people and rehearsing crisis management arrangements
FAC	Pg 27	8.3	n/a	ed	<i>'Training for crisis management'</i>	Change to *Post-crisis and pre-crisis
FAC	Pg 29	8.8	n/a	ed	<i>'Post-crisis and exercise activity'</i>	
TFC				ge	<i>The document is tremendous but a bit linear in its structure. European cross-border 'crisis' does not seem well enough reflected in this version of the draft and should be given a greater consideration than what seems to be case.</i>	
TFC				ge	<i>The importance of Interoperability does not seem to fit well in the document. As we move further away from the 20th century, the importance of interoperability cannot be understated.</i>	
TFC				ge	<i>Rules of engagement were not sufficiently clear to me. The role of interoperability in a crisis may not be fully understood.</i>	See web cast on http://tomflynn.org
TFC		8.1		ge	Check table of content	
TFC		Introduction	4	ge	<i>Please consider ISO 31000:2009 (Risk management – Principles and guidelines for the emergency preparedness stage and ISO 22320:2011 (Societal security – Emergency management – Requirements for incident response) for the emergency response also. They might deliver useful insights for chapter 4.5 and 4.6.</i>	Review aforementioned standards https://en.wikipedia.org/wiki/ISO_31000 https://www.iso.org/obp/ui/#iso:std:iso:22320:2011:en

Comments from the ISO/CS editing unit are provided in the table, e.g. CN for China; comments from the ISO/CS editing unit are provided in the table, e.g. CN for China; comments from the ISO/CS editing unit are provided in the table, e.g. CN for China.

Where are we going:

- **We want to hear from you** – issues that you face – needs that you have and how European research might help going forward.
- Strengthen ties with the European Commission through the Community of Users initiative.
- We want to include operatives on the NSAI/Societal and Citizen Security Interest Group.
- Should we run a similar event in future and more often?

Thank You!

Tom Flynn

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Personal email: tomflynn172@gmail.com





A Decision Support Tool for Reconstruction and recovery and for IntEroperability of international Relief units in case Of complex crises situations, including CBRN contamination Risks

The DESTRIERO Project

Speakers: Inspector Lex McCoubrey, PSNI
Ms. Elena Francioni, e-GEOS
Mr. Allan Coyle, SAADIAN

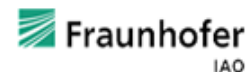


Table of contents

- The problem from the End Users point of view
 - Context
 - Main challenges
- The DESTRIERO Solution
 - The project
 - The platform
- Live demonstration of the system
- Future directions



- Increasing impact of natural and man-made disasters.
- Consequence management – CBRN / Complex Hazmat contamination.
- Long term management of effect.
- Recovery and reconstruction period.

Need for:

Post Disaster Needs Assessment (PDNA)

Reconstruction & Recovery Planning (RRP)

The Challenge (1 / 4)

- Diverse stakeholders are involved
 - Policy Makers
 - Strategic Coordinators
 - Operational Units
 - General Public

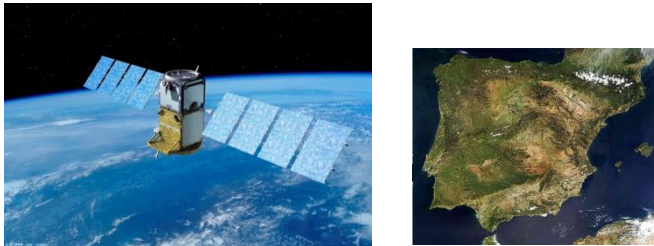

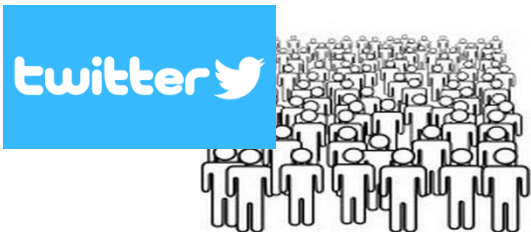



The Challenge (2 / 4)

- The decision makers need to communicate and co-ordinate
- We need to agree on plans
 - Under pressure
 - With limited resources
 - Lack of accurate information
 - From different locations

The Challenge (3 / 4)

- We need to share the same view of the situation

Diverse Heterogeneous data sources	
 <p>Satellite, maps</p>	 <p>Field (sensors, reports, ...)</p>
 <p>People (crowd-sourcing)</p>	 <p>Official sources</p>

The Challenge (4/4)

- We need to assess the impact of the disaster
 - How to assess the nuclear contamination level?
- We need to select and prioritise reconstruction projects
 - How to select projects, based on different criteria (e.g. budget and benefits for society)?

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DESTRIERO Project & Consortium

DESTRIERO is an FP7 Collaborative Project contributing to the Call – Theme SECURITY, Topic SEC-2012.4.3-1

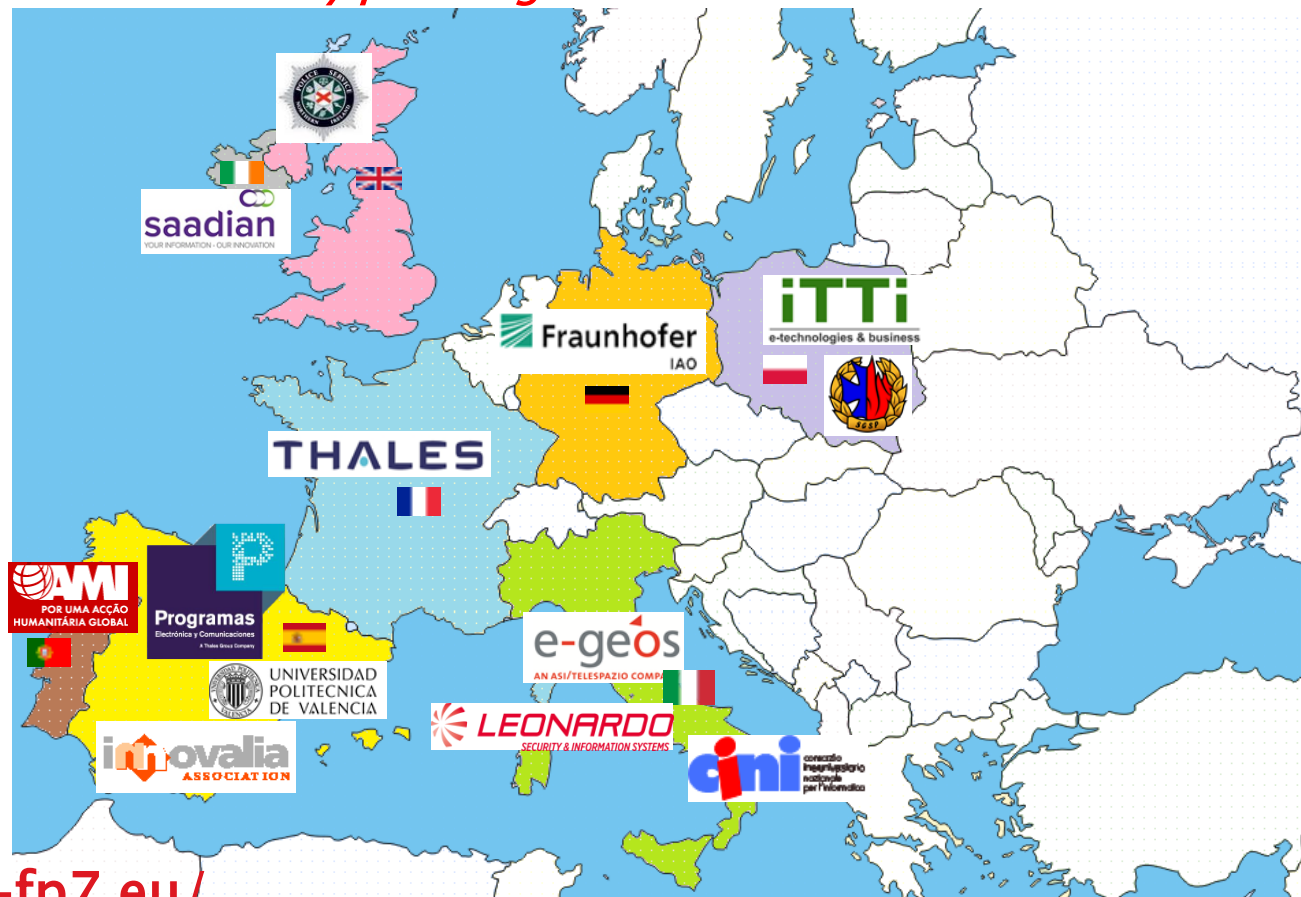
Next generation damage and post-crisis needs assessment tool for reconstruction and recovery planning”

Project main features

- 4,1 M€ budget
- 2,9 M€ EU Contribution
- 36 months duration

Consortium

- 13 partners
- Partners from 8 countries
- Plus User Group



<http://www.destriero-fp7.eu/>

What's needed?

- An adequate coordination for assessment, reconstruction and recovery

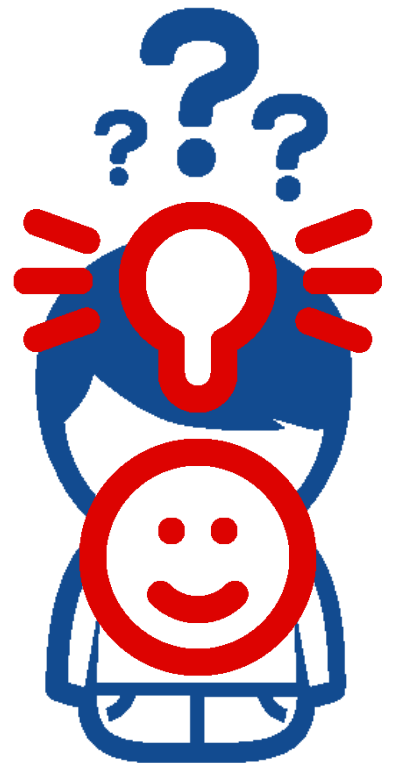
BUT:

in

NO adequate
available

DESTRIERO aims
to fill this gap

management stages
no platform or tools are

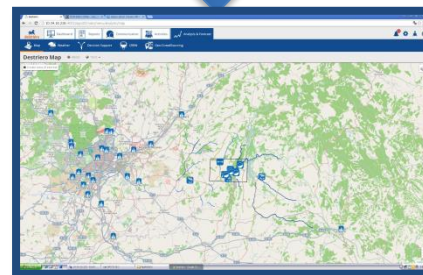


- DESTRIERO focuses on post-crisis reconstruction and recovery planning

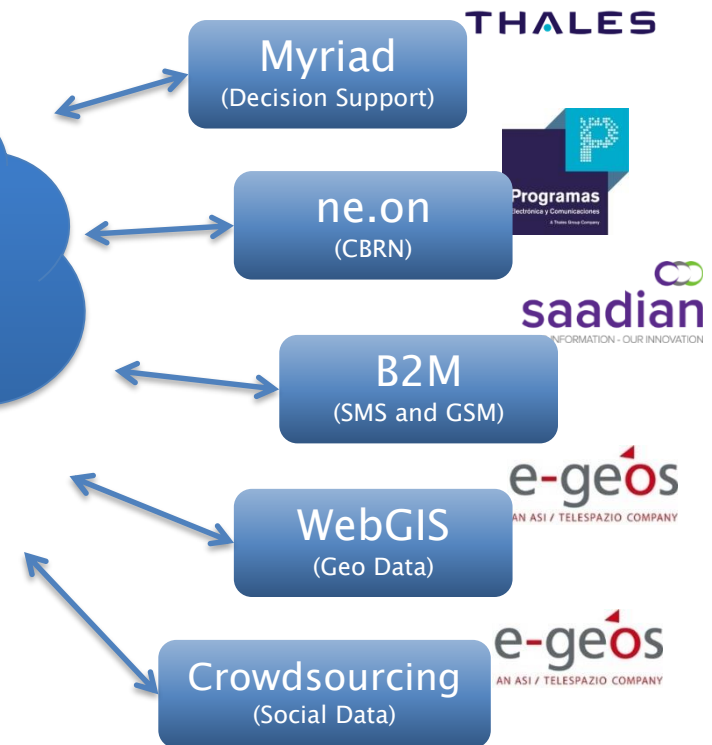


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Information Sources



3rd Party Systems



DESTRIERO Interface

Automatic information retrieval from heterogeneous sources



Mapping functionalities and spatial analysis



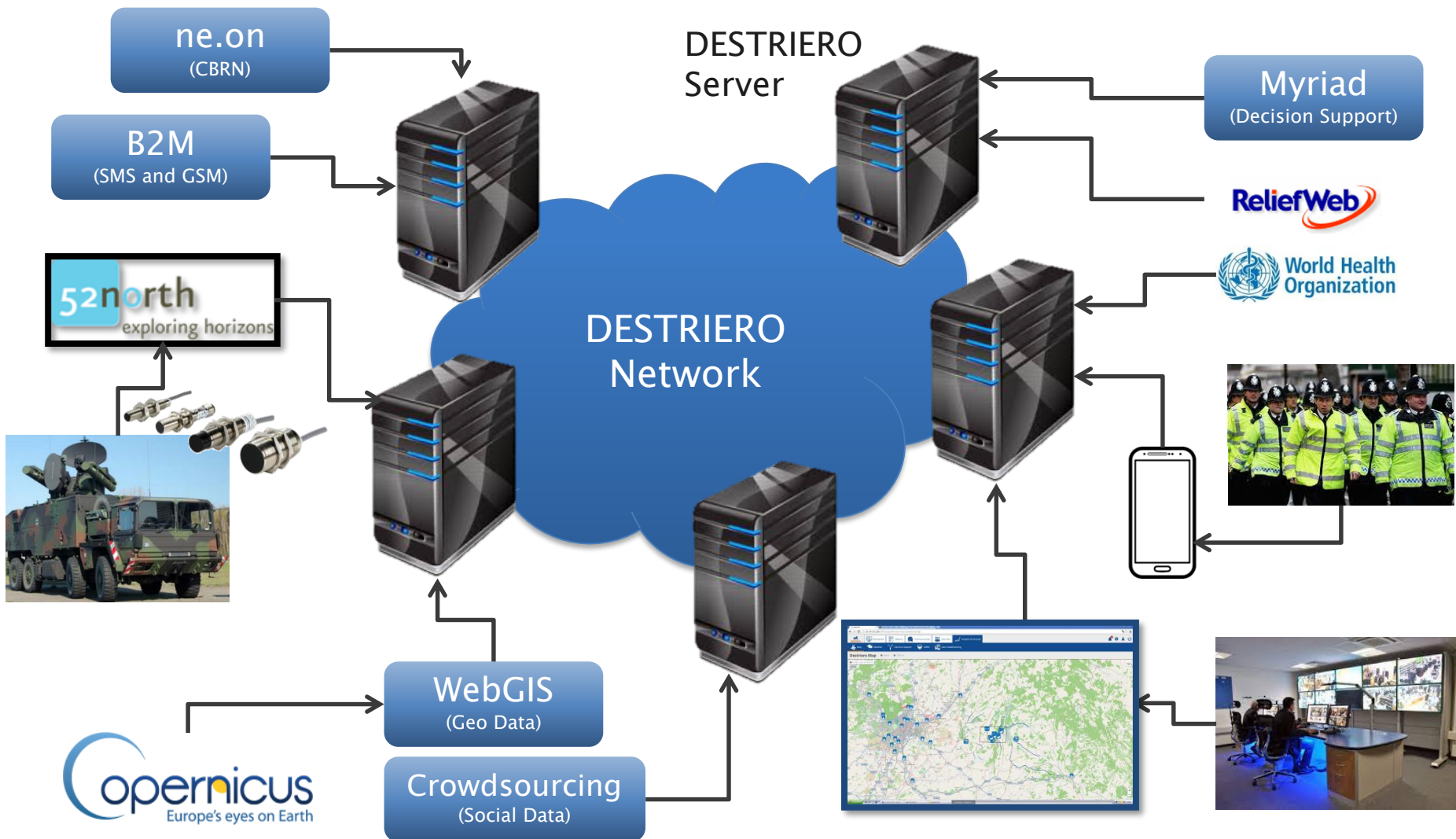
Decision Support for Recovery and Reconstruction Planning



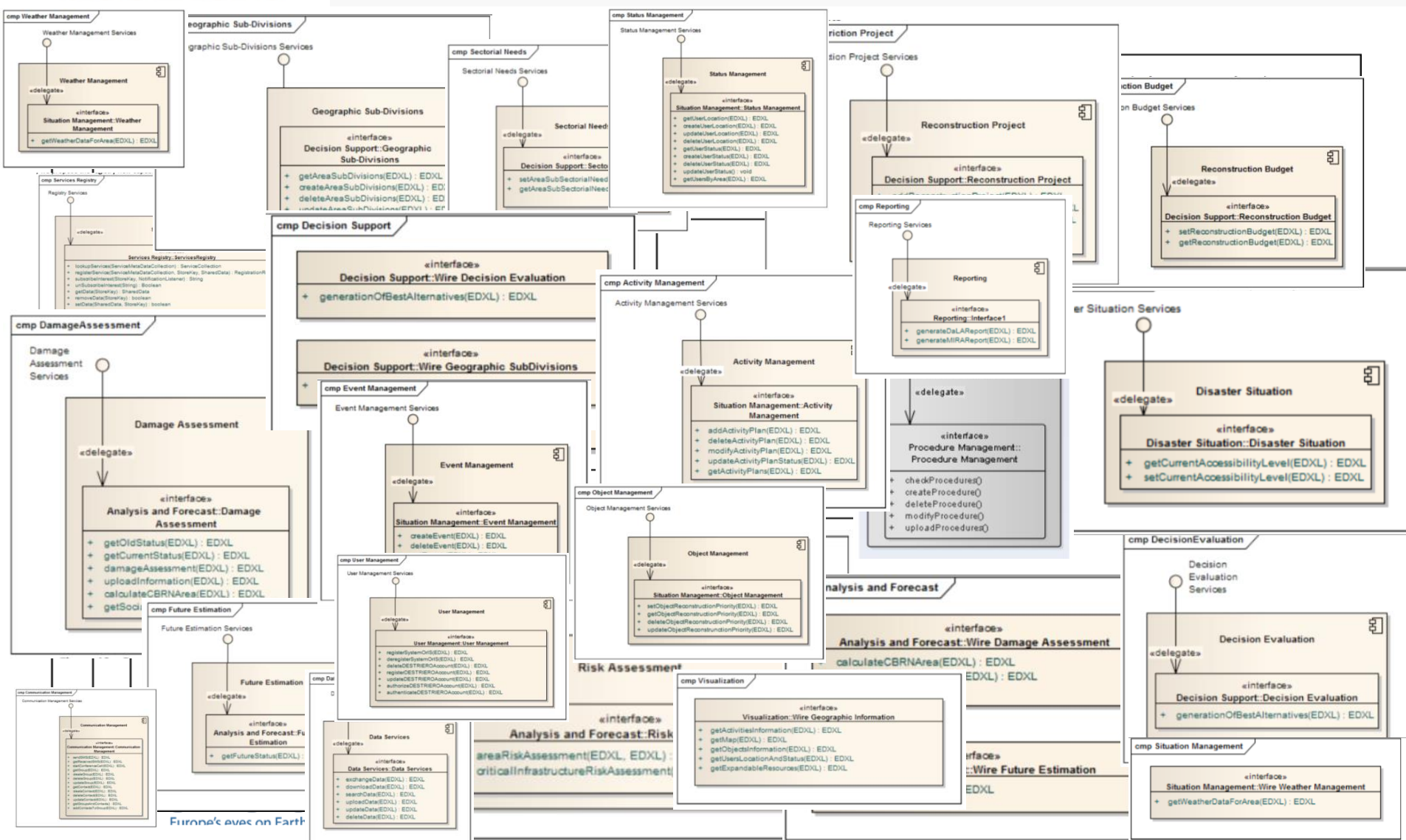
Collaborative Communication Tools



Post Disaster Needs Assessment (PDNA) Activity Planning, Management and reporting



DESTRIERO Architecture



Europe's eyes on Earth

DESTRIERO in numbers

- 10 adapters
- 30 web services interfaces
- 100+ services (3,5 services per interface in mean)
- 100000+ lines of Code
- 6000+ cups of coffee



DESTRIERO concept

- Functionalities are provided either by the DESTRIERO network
 - Persistency, Data Sharing, Planning & reporting, ...
- Or requested to external systems connected via “**adapters**”
 - Decision support, CBRN assessment, WebGIS, Communication, ...
- Information sources are connected via adapters as well
- **EXTENSIBILITY:** New sources or systems can be added in the future

DESTRIERO Platform



3rd Party System

Information Sources

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What's next?

System evolution and new functionalities



*Analysis
ongoing*

- Chat module
- Integration with airborne data (*REDIRNET Project*)
- Profiling module
- Enhance crowd-sourcing capabilities to include volunteers contribution
- Specific reports/templates for an easier communication



How to engage the DESTRIERO Network?

<http://www.destriero-fp7.eu/>



Ask for a trial

Contact us!

Elena Francioni – Project Coordinator

E-mail: elena.francioni@e-geos.it

Tel. (0039) 06 4079 3359



Single node license

*Join the DESTRIERO
community*

Multi node license

5/10/15 connected organisations to a
single instance of DESTRIERO



Flat annual rate

*Choose the service
model*

Subscription + Pay-per-use



Thank You!

