



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

Overview of the project

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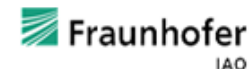


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‘We must learn to become a single community, united in purpose, whose clear and overriding task is to save lives and restore livelihoods. If we don’t we will be ill-prepared to deal with a new generation of challenges – many of which we have not yet imagined. It will be a difficult process, but with the right mind-set and the right political will, it is possible. We have no other choice’.

Rudolph Müller, Chief of Emergency Services Branch at United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA).



Context

In the period 1980 – 2011, globally there have been:

- 3,455 floods, 2,689 storms and 470 droughts.

The increase in the number of climate related disasters when comparing 1985–1990 with 2005–2010 is

- 320 per cent.



Damage caused by global and human made disasters.

308 disaster events.

26,000 killed.

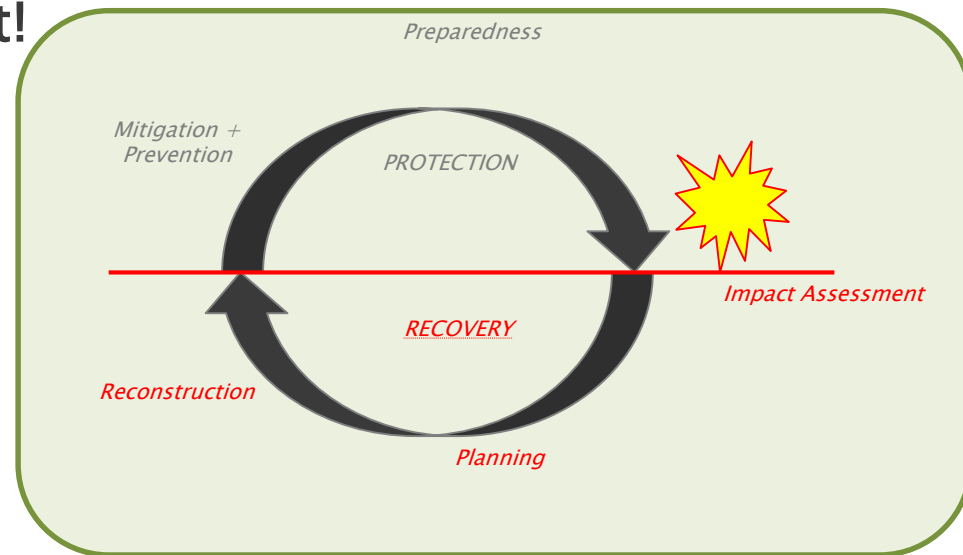
\$140 billion in losses.



- Climate Changes; Economic Trends; Political Shifts and Societal Trends.
- **Increases pressures on relief organizations and responders.**

- Globally, Emergency Management, Post-Crisis Damage and Needs Assessment (PDNA) as well as Reconstruction and Recovery Planning (RRP) are usually coordinated by local authority or a dedicated civil protection organization.
- Follow up task executions are usually managed by individual relief organizations involved in the process. Presently supported by a range of less proprietary and not interoperable tools.

- No advanced software platform or tools are available to support this process as a joint cooperation in which information is continuously updated and shared between the relief and stakeholder organizations, progress monitored and accountability facilitated in a seamless manner.
- This is what DESTRIERO is about!



- An issue in many emergencies is not always an absence of assessment information but rather the capacity to quickly validate and analyse the information necessary to determine priorities and guide recovery planning.
- All too often, assessment data is difficult to access (i.e. spread over different systems and organizations), insufficiently shared or used. Data sets from different assessments are not comparable.
- There is also insufficient time to aggregate data from multiple assessments, information needs are not sufficiently prioritized and data collection processes are cumbersome.

With DESTRIERO, the aims are to provide:

- Continuous damage and contamination assessment, monitoring and updating, through a combination of in-field data.
- Effective mechanisms to share interoperable data between relief organizations and their information systems.
- Support to prioritization and joint decision making with a novel tool, based on recently developed decision support methodology and prototype software.
- Provide a centralized management information, high level overview of running recovery projects and recovery progress information, including linkages to official procedures.

DESTRIERO delivers an interoperable platform that allows connected users to actively participate to PDNA and RRP processes for Post Crisis Reconstruction and Recovery.



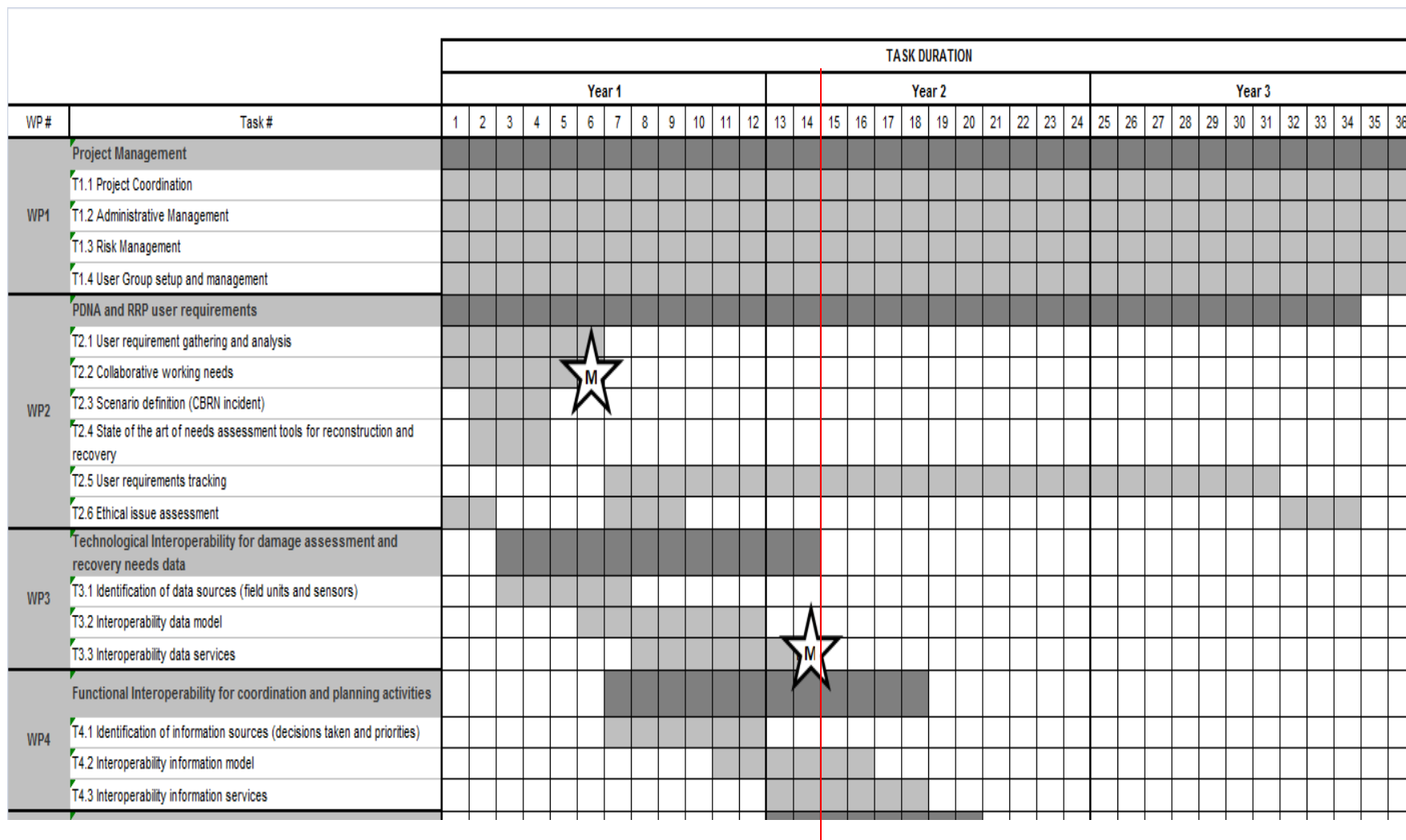
DESTRIERO's Network of Nodes provides services to allow connected systems to cooperate each other in order to participate to PDNA and RRP processes.



DESTRIERO:

- will be connected to systems (Legacy and DESTRIERO Enabled), where shared data and services could be provided directly (as for NGOs, IOs or public authorities) or interfacing with primary sources (as sensors).
- has access to information that is interoperability-relayed to the system.
- support structured (e.g., XML) and unstructured data (e.g., PDF).
- provides data visualization in common operational picture mode.
- links needs assessment with recovery planning information.
- supports decision making by providing relevant information, but will not offer any intelligence by its own.

Where we are



- A complex realistic application scenario has been defined.
- User requirements have been collected.
- Data model and information model for interoperability have been designed.
- System architecture is being designed.
- Engagement with CEN/CENELEC and the ISO standards organization has been intense.
- Dissemination and communication efforts are ongoing.

Get involved!

We would like to involve end-users (i.e. first responders, relief organizations, NGO) to gather their needs and to receive feedbacks on the platform and its modules.

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Participate in an ongoing survey:
<http://www.destriero-fp7.eu/survey/>

Thank You!

