WP6 - User-driven pilot sites implementation and demonstration

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27 partners involved

11 End-Users | **9 Research Institutions** | **7 Industries/SMEs**

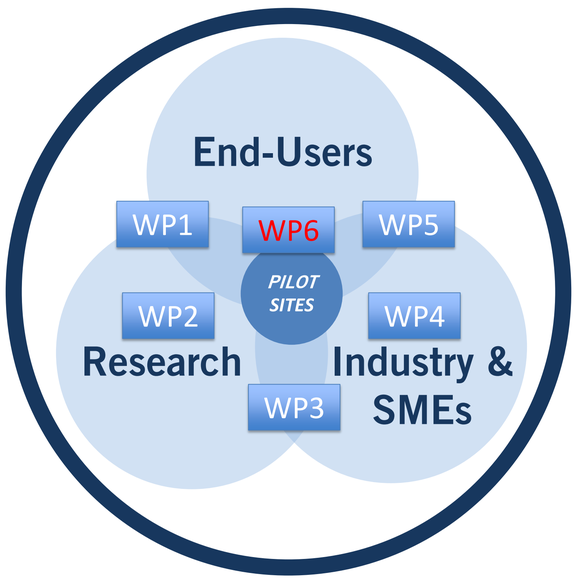
OBJECTIVES

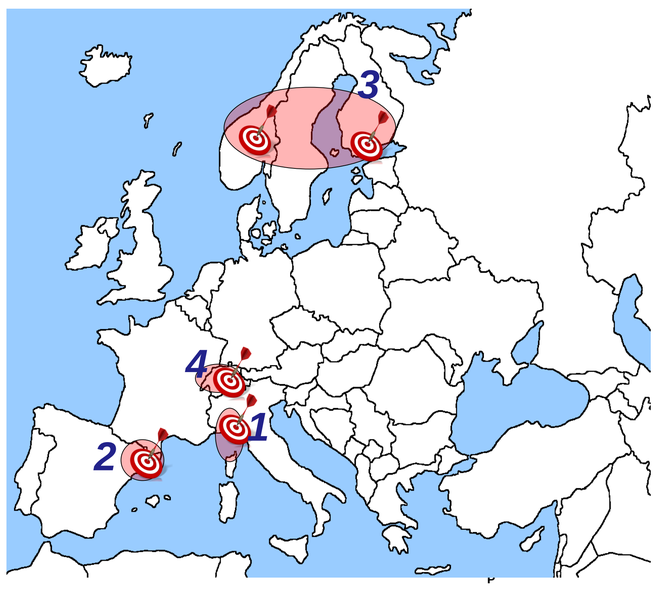
WP6 will show the operational application of the technologies developed in the project, starting from the algorithms to anticipate impacts (WP2), their operation 24/7 in the proposed MH-EWS (WP3), and their adaptation to the local needs and requirements through the A4DEMOS platform (WP4), including third-party developments and tools, and the developments oriented to raise population and activities self-protection (WP5).

The aim is to **show the actual improvement of the End-user operational capabilities before, during and in the aftermath of emergencies** induced by extreme and high-impact W&C events. The pilot sites have been selected in order to cover both different hazards and different operational environments that require the enhancement of specific operational capabilities addressed by the use of a customized A4DEMOS.

PILOT SITES

1 - Ligurian Sea (Italy-France)
2 - Catalonia
3 - Scandinavia (Finland-Norway)
4 - Switzerland





Structure of the Work Packages and Timetable

		Short task name	1st Year												2nd Year												3rd Year												4th Year		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
			J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
WP 6	T6.1	A4DEMOS platform local connection to each pilot site																M6.1			D6.1 D6.2																				
	T6.2	A4DEMOS pre-operational test and training in a controlled environment																								D6.3 M6.2															
	T6.3	Multi-Hazard pilot site Italy-France																														M6.3									
	T6.4	Multi-Hazard pilot site in Catalonia																														M6.3									
	T6.5	Multi-Hazard pilot site in Finland-Norway																														M6.3									
	T6.6	Multi-Hazard pilot site Switzerland																														M6.3									
	T6.7	Feedback of the operators, first responders and stakeholders																														M6.3								D6.4 D6.5	D6.4

Phase 1
Phase 2
Phase 3
Phase 4

The **WP6** is structured in 4 phases:

Phase 1 The local implementation of **A4DEMOS** and the **link with the local legacy systems** will be done in **Task 6.1**.

Phase 2 **Task 6.2** will **test** the implementation and **train** the operators and responders personnel, including tabletop exercises.

Phase 3 **Task 6.3 to Task 6.6** will deal with the **operation of the platform** during the demonstration period.

Phase 4 **Task 6.7** will collect **stakeholders feedbacks** and recommendations.

Main points to be subject of the Innovation Action of the Project in the four pilot sites:

- ✓ Adapted multi-hazard impact assessment products generated by the **MH-EWS to a specific environment including specific** user needs and to the distributed platform interfaces and additional layer. This will be achieved by the definition of dynamical operational risk maps and information related to any specific hazard addressed.
- ✓ Capacity to handle detailed cartographies and local vulnerability and risk maps (integrating the additional ANYWHERE capabilities and data) supported by advanced Geospatial Web Services capabilities to facilitate third parties Web services and Application Programming Interfaces (APIs).
- ✓ Capacity to incorporate sensors and local sources of information (including crowd-sourcing).
- ✓ Capacity to interact with the protocols of response of specific users and/or managing institutions.
- ✓ Capacity to share information and interconnect various responders and operators (including local, regional and national Civil Protections, responders, fire brigades).
- ✓ Capacity to support shorter reaction times and higher efficiency of reactions.
- ✓ Improved coordination of emergency and pro-active reactions in the field during the emergency management operation.
- ✓ Enhanced social media communication skills based on social studies on the effectiveness of the emergency warnings.

Ligurian sea

Hazards:
Floods and Flash Floods
Landslides
Forest Fires
Drougths
Heathwaves

The site has been chosen because it presents a number of locations with similar and likely synchronous risks that are prone to different weather-induced hazards and likely to call for multi-national support and coordination. The different levels of Civil Protection (National, Regional and Local) will be linked by the platform as well as a number of local responders. This with the aim of reaching an improved accessibility to information during hazardous events by all the stakeholders involved both in the Early Warning and Emergency and Response phases.

Scandinavia

Hazards:
Convective storms and severe winds
Intense rainfall
Storm surges
Heavy snowfall

The site has been chosen because it is prone to different weather related risks typical of the Nordic environment. The pilot will include selected relevant hazard products, which are made available for regional civil protection organizations and FMI operational weather forecasters in Finland. In Norway, the adapted products will be included in 24/7 operations of HSUH and local civil protection organizations in Rogaland region in western Norway.

Catalonia

Hazards:
Flood and Flash Floods
Landslides
Forest Fires
Droughts

The site has been chosen because The region is an area prone to different weather-induced hazards, with a huge presence of tourists and temporal visitors, and a high variety of climatic and socio-environmental areas from high mountains (Pyrenees), rural-agricultural areas prone to forest fires and droughts, to populated cities (Barcelona) and coastal touristic areas prone to flash floods due to heavy rainfalls.

Switzerland

Hazards:
Flood and Flash Floods
Landslides
Debris flows

The site has been chosen because it represents a paradigm of co-occurrence of multi hazards in alpine areas (most notably, flash floods, landslides and debris flows) with multiple infrastructure and inhabitants on risk, but also because ample baseline data is readily available from long-term systematic records and detailed archival data.

Deliverables

D6.1 Detailed planning of A4DEMOS implementation specifications in each pilot site (internal to the consortium). Leader AIRBUS (M19).

D6.2 Detailed planning of A4DEMOS training of local operators and first responders in each pilot site. Leader CIMA (M19).

D6.3 Report on the Pre-Operational run of the A4DEMOS in each pilot site and requests to improve the functionalities of the platforms (internal). Leader AIRBUS (M24).

D6.4 Report compiling the conclusions and the recommendations of operators and first. Leader INTC (M38 and M39).

D6.5 Final report compiling the results of the A4DEMOS operations in each pilot. Leader CIMA. (M38).

Milestones

M6.1 Presentation of **A4DEMOS implementation** and demonstration **plan during the 2nd Workshop**

M6.2 **A4DEMOS up and running** in each pilot site.

M6.3 Presentation of the **feedback of operators and first responders at the 3rd Workshop** of the project