WP3
Integrating impact models and tools in a Multi-Hazard operational Early Warning System

ANYWHERE

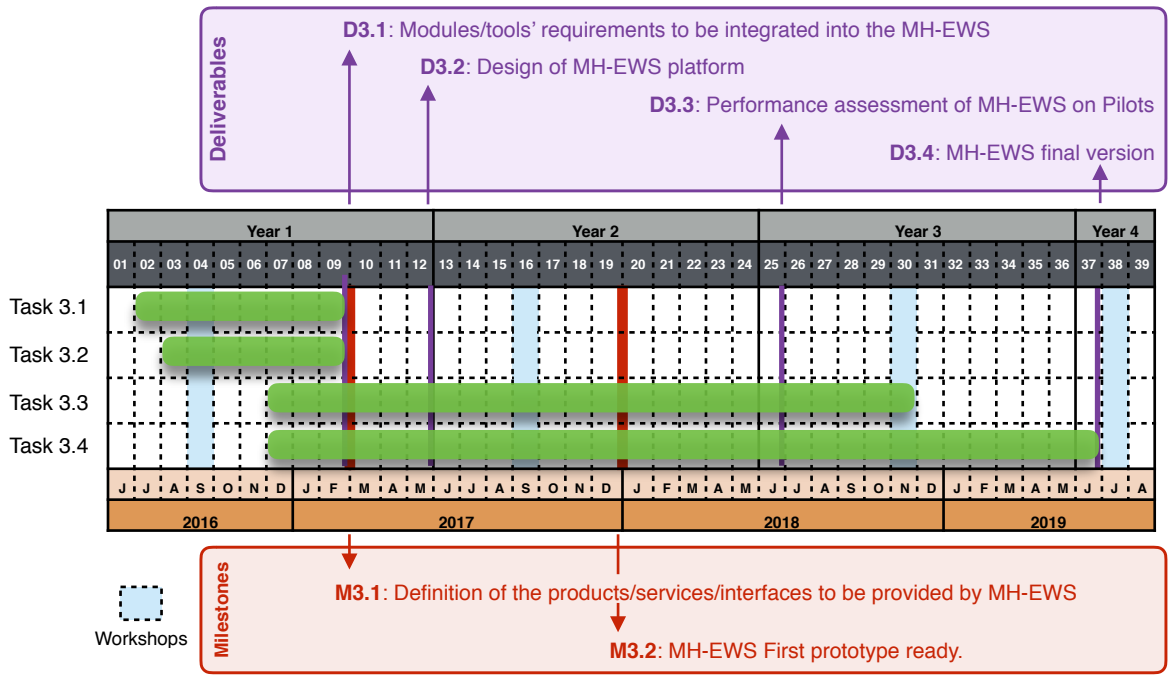
Summary

WP3 is going to integrate (internally encapsulate or connect) the models/tools from WP2 and the existing Pan-European platforms in a single Multi-Hazard Early Warning System: **MH-EWS.** The MH-EWS will have models to anticipate the temporal and spatial localization as well as associated impact of: **Floods** and **Flash-floods**, **Debris flows** and **Landslides**, **Storm surges**, **Snow storms**, **Wind storms**, **Droughts**, **Weather-induced fires, Heatwaves** and **Weather-induced Health impacts**. The MH-EWS will operationally generate high-resolution multi-hazard Early Warning products, which will be made available to third users through an advanced **set of services.**

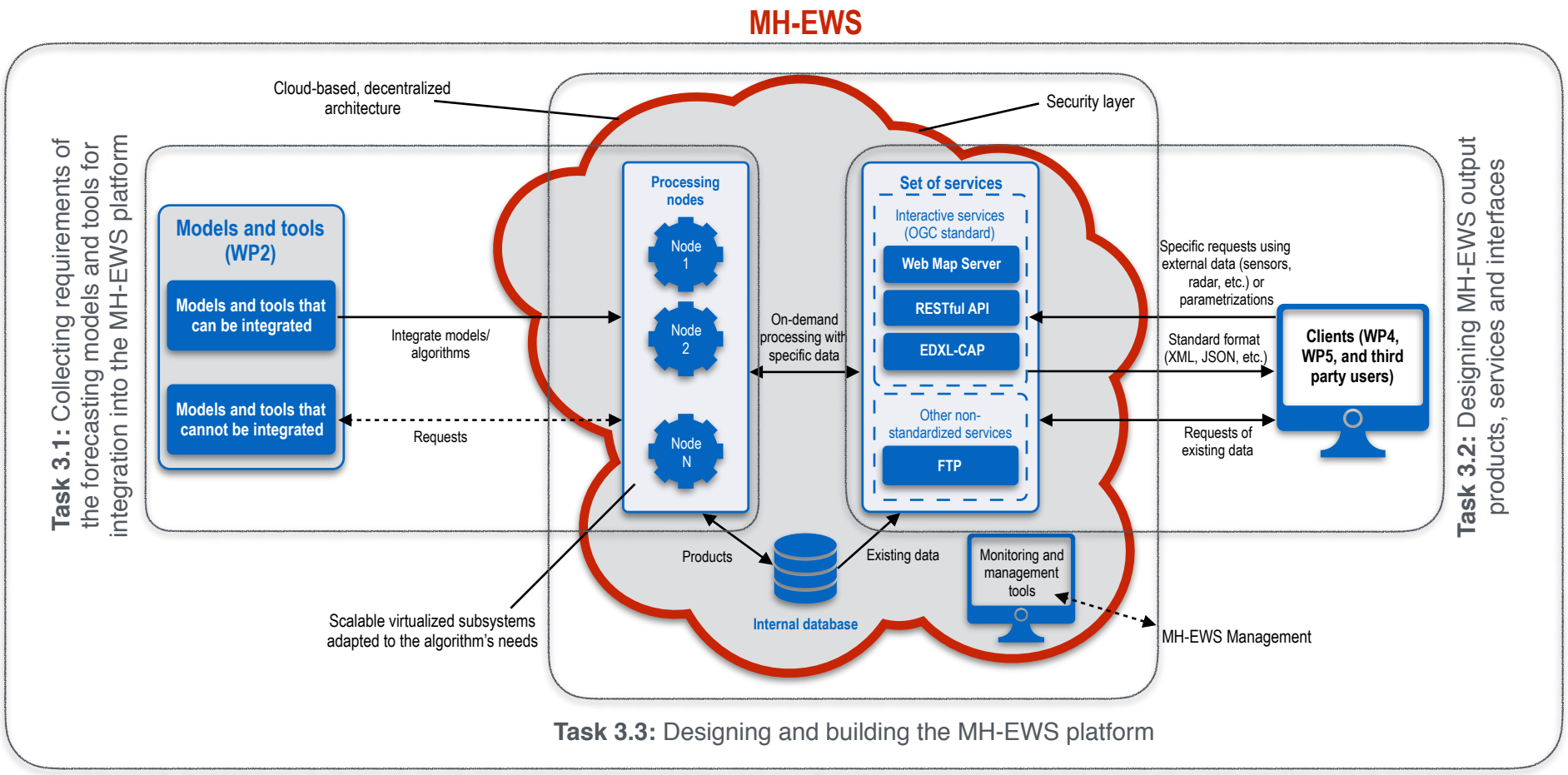
Objectives:

- Design a flexible and scalable framework to integrate both the forecast and impact models developed within WP2, and the existing Pan-European platforms, into a common operational Multi-Hazard operational Early Warning System [**MH-EWS**], compiling with the guidelines provided by WP1.
- Design a set of products and services and their interfaces, to be provided by the **MH-EWS** to the different users (applications developed within WP4 and WP5 and third party users) in order to make possible hazard/site-specific applications able to both connect with legacy systems and/or build tailored solutions.
- Build the operational **MH-EWS** in a modular and scalable decentralized architecture using standardized technologies and protocols.
- Test and validate the **MH-EWS** in the Pilot Sites (Italy-France, Catalonia, Finland-Norway and Switzerland), case studies and SME platform applications, including providing feedback to models and tools developers to cyclical review and update them.

Chronogram and Deliverables:



Tasks:



Contributing Partners:

CRAHI UPC · CIMA Research Foundation · Wageningen UR For quality of life · hydrosolutions hydrometeorological innovative solutions · D'Appolonia · CFR Consorzio Futuro in Ricerca · ECMWF · Finnish Meteorological Institute · Université de Genève Institute for Environmental Sciences · JRC European Commission · University of Reading

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