



EDERA: Early warning Demonstration of pan-European rainfall-induced impact forecasts

Local Training Workshop with End-Users, Helsinki, 09 Nov 2023



















Introduction Session

14.00 - 14.30















Workshop Agenda

DAY 1

Introduction Session (14.00 - 14:30)

Group introductions (14.30 - 15:45)

- Participants present a storyline of how you dealt with recent events in your region (using the chosen case studies, if possible).
- Group discussion on what major events have occurred over last 5 years.

Coffee Break (15.45 - 16:15)

Guided demonstration of EDERA Platform and Products (16:15 – 17:00)

Co-design session – EDERA checklist (17:00 – 17:50)

Participants work with us to create a workflow checklist when using EDERA products (checklist will be tested in hands-on session on DAY 2)

Evening Meal - Kappeli (19:30 - 21:00)





Workshop Agenda

DAY 2

Presentation of Local Case Studies (09:00 - 09:30)

Hands-on analysis of EDERA products (09:30 – 10:30)

 Participants interpret EDERA products for selected case studies using the codesigned checklist from DAY 1.

Coffee Break (10:30 – 11:00)

Feedback Session (11:00 - 12:00)

- Evaluate EDERA interpretations using checklist.
- Agree the configuration of the EDERA products.

Stakeholder participation during EDERA demonstration phase (12:00 – 13:00)

Closing session (13:00 – 13:15) & Lunch (13:15 - 14:00)









EDERA: Early warning Demonstration of pan-European rainfall-induced impact forecasts















Project summary

Early warning Demonstration of pan-European rainfall-induced impact forecasts

- Duration: 01 Feb 2023 31 Jan 2025 (24 months)
- Budget: 1,173,954.78€ (grant: 997,861.55€)
- Website: www.edera-project.eu
- Partners:

Universitat Politècnica de Catalunya (ES)

European Centre for Medium-range Weather Forecasts (INT)

Finnish Meteorological Institute (FI)

Environment and Water Agency of Andalusia (ES)

Directorate-General for Civil Protection and Emergencies (ES)

National Authority of Emergency and Civil Protection (PT)

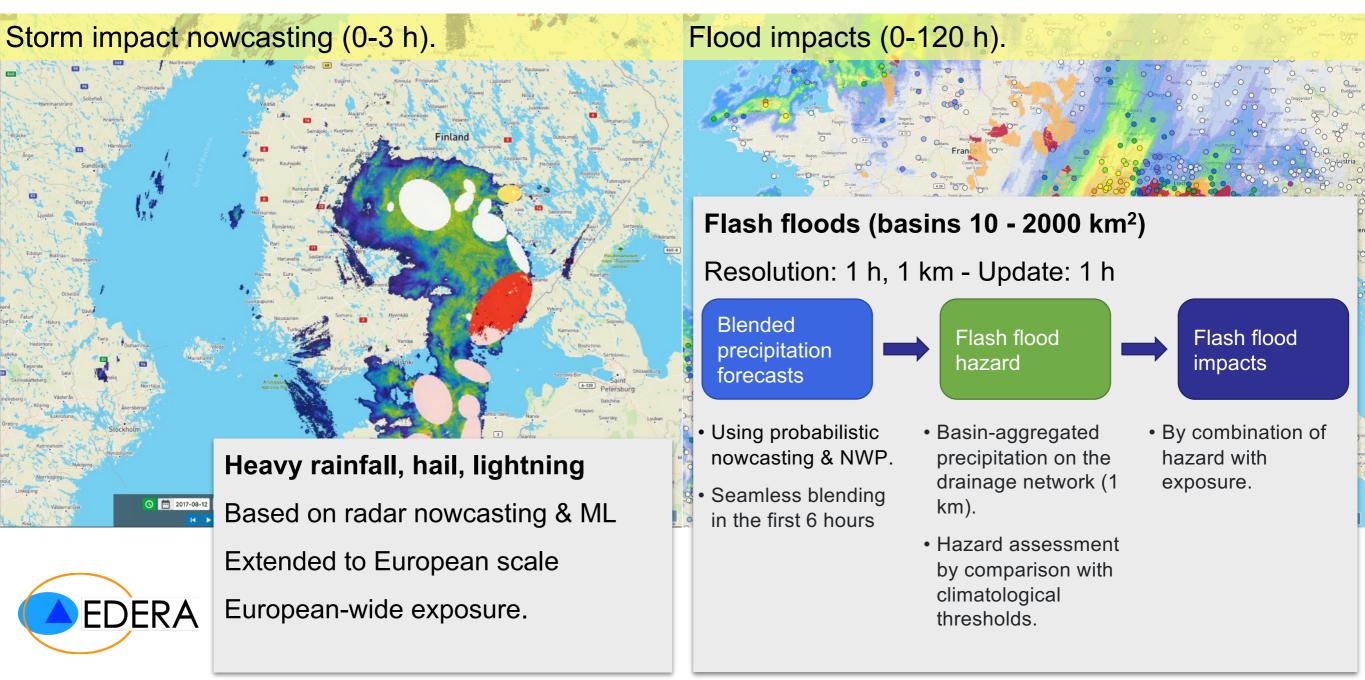




Main objective

Integrating forecasts of the impacts due to storms and heavy rainfall into the operational EWSs of national, regional and local CPAs, fostering sharing information and cooperation of CPAs during cross-border events and coordination between CPAs.

Impact forecasting during storms and heavy rainfall events



Specific objectives and expected outputs

- Extend the convective hazard and pluvial flood forecasts over Europe.
- Increase the adaptability of the flood impact forecasts to the needs of the end users, applying a strategy to provide compound impact forecasts, and implement configurable user-defined notifications.
 - → Improved products for flood impact forecasting at European scale
- Integrate the flood impact forecasts to the EWS platforms of the end users for improved preparedness and response management during flood events.
- Demonstrate the added value of seamless flood impact forecasts through a robust evaluation, at European scale and in two pilot sites, with end-users analysing the added value for CPAs cooperation in cross-border operations and coordination.
 - → Demonstration for a period of 15 months
 - ---- Recommendations for coordination and cross-border cooperation between CPAs
- Develop comprehensive guidance material delivered through dedicated training workshops and e-learning materials.
- Integrate the developments within the CEMS-Floods EFAS system.



→ Sustainability of the products

EDERA demonstration





Centre de Recerca Aplicada en Hidrometeorologia

UNIVERSITAT POLITÈCNICA DE CATALUNYA











IRECCIÓN GENERAL E **PROTECCIÓN CIVIL** Y **EMERGENCIAS**





National Authority of Emergency and **Civil Protection**

CIM Região Coimbra

Instituto Português do Mar e da ' Atmosfera

Agencia Portuguesa do Ambiente







Finnish Meteorological Institute

Helsinki Rescue Department Kymenlaakso Rescue Services North Karelia Rescue Department Finnish Environment Institute

ARISTOTLE-eENHSP **EUMETNET OPERA**

Directorate-General for Civil Protection and Emergencies Environment and Water Agency of Andalusia

Protección Civil de Andalucía

Protección Civil de Puente Genil

Asociación de Operadores de Protección Civil de Andalucía Agencia Valenciana de Seguridad y Respuesta a las Emergencias

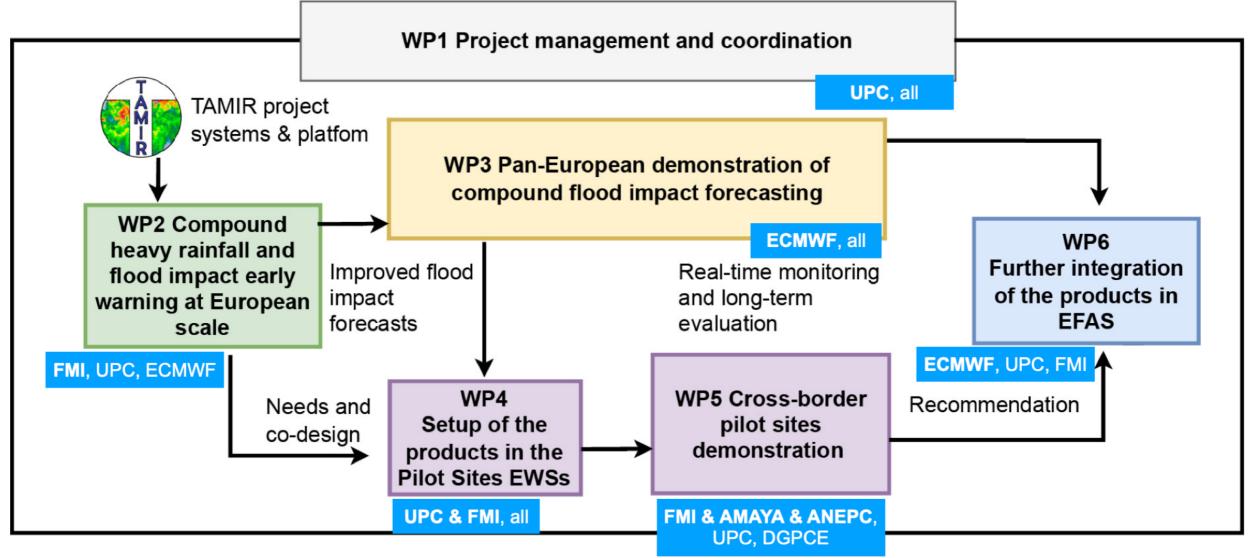
Protección Civil de Cataluña

CH Guadiana

Agencia Estatal de Meteorología



Project organisation



Main events

Mar 2023: 1st EDERA meeting (Sevilla, ES)

Nov 2023: Training activities in the Pilot Sites (Helsinki, FI & Loulé, PT)

Apr 2024: International training (Madrid, ES)

Dec 2024: International workshop (Brussels, BE)









Case Studies













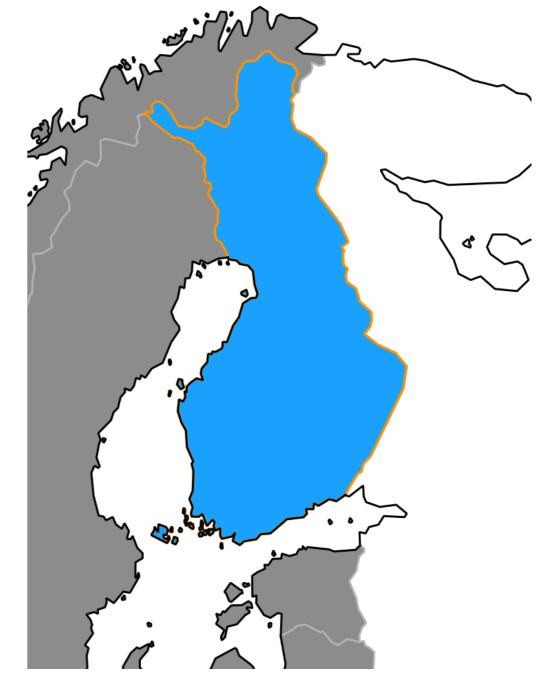




Finland Pilot Site

FI pilot site

Case study events for Finland		
Dates	Affected Area	Description
08/07/2023 08:00 UTC - 18:00 UTC	South and southeast Finland, Helsinki	Heavy rainfall across south and southeast Finland, floods in Helsinki
27/08/2023 03:00 UTC - 11:00 UTC	Helsinki	Heavy rainfall and flooding
31/08/2023 00:00 UTC - 15:00 UTC	Southern Finland, particularly in Helsinki	Heavy rainfall and flooding



Finnish Meteorological Institute

Helsinki Rescue Department
Kymenlaakso Rescue Services
North Karelia Rescue Services
SYKE (Finnish Environment Institute)









Expected Stakeholder Participation















Participation during this workshop

Group introductions

Present storyline of how you dealt with recent events





Co-design EDERA checklist

Create a checklist of how/when to use EDERA products

Hands-on session

Analyse EDERA forecasts/products using checklist





Feedback session

Evaluate hands-on session & checklist Agree configuration of EDERA products





Participation during EDERA Demonstration Phase

Demonstration Phase (15 months)

Now – October 2024

Stakeholders should routinely check EDERA real-time forecasts and provide feedback on EDERA Products.

- Feedback session: to discuss when to check EDERA forecasts and how to deliver feedback to UPC/ECMWF/FMI (Finland)
- Coordinate knowledge transfer to forecast analysts?

