European Union
Civil Protection and
Humanitarian Aid

TAMIR - Advanced Tools for pro-Active Management of Impacts and Risks induced by convective weather, heavy rain and flash floods in Europe (02/2020 - 01/2022)

UCPM-2019-PP-AG Kick-off meeting, 12.2.2020, Brussels

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Background

Hazards induced by convective storms and heavy rains (e.g. floods) become disasters when and where they interact with exposed **and vulnerable societal systems**, for example human life and activities, assets, and infrastructure.

Proactive mitigation of flood risks

R&D

HAREN (2012-2013)
EDHIT (2014-2015)
ERICHA (2016-2017)
SMUFF (2018-2019)
TAMIR (2020-2022)

Heavy rainfall predictions
- Lead times: 15 min – 5 days
- Areas of interest: A village – Europe
- Uncertainty (probabilistic prediction)

Flood predictions
- Areas of interest: street – large river systems (e.g. EFAS tools)

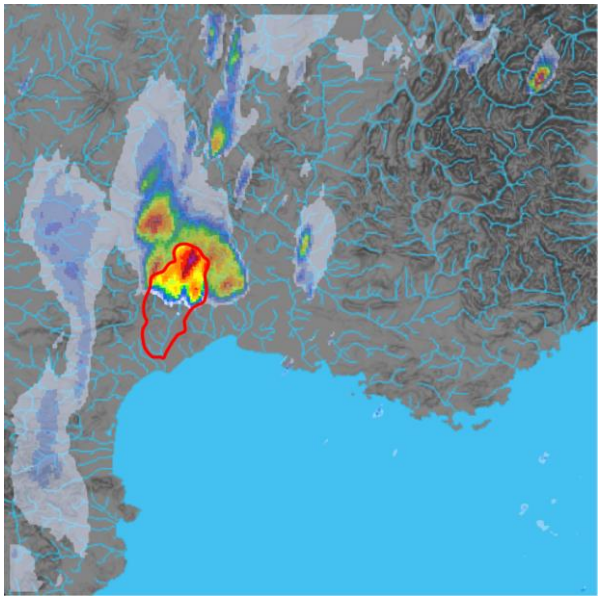
Hazard level and risk predictions

Proactive preparedness and optimal response actions
- CP operators (European-national-local)
- Citizens

TAMIR focus

Main goal to

"*enhance the response capacity in emergencies caused by convective and heavy rainfall events by developing rapid risk assessment products and IT tools for improved* ***impact forecasting*** *to support decision making*"

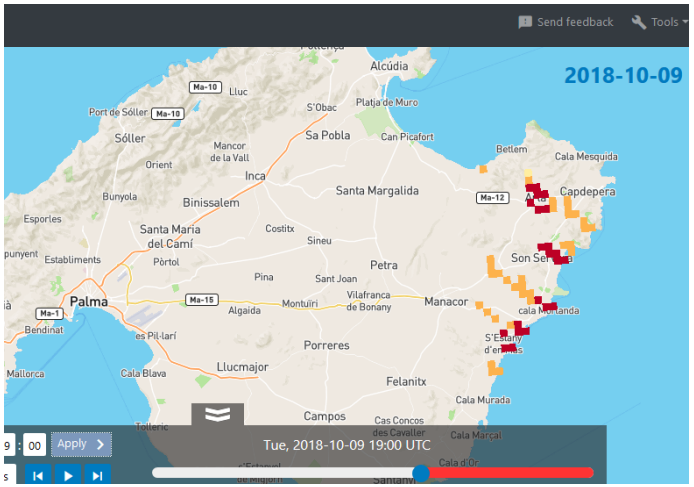


Settlement Classification

	Low Exposure	Medium Exposure	High Exposure
High Likelihood			
Medium Likelihood			
Low Likelihood			

Severe Risk
High Risk
Medium Risk
Low Risk

Flood Hazard Level 1 Exceedance Probability



Key needs and expected outputs in TAMIR

1. Accounting for different precipitation type in flood forecasting and developing a multi-risk weather hazard products, for better accounting of the compound hazard in emergency response

   - Flood nowcast product dependent on precipitation type
   - Multi-hazard storm object nowcast product for civil protection risk assessment

2. Enhancing flood impact warning capacity through improved flood hazard assessment and warning, better exposure estimation and detailed vulnerability information

   - Improved flood rapid risk assessment tools for local to Pan-European scales

3. Delivery through operational platforms and new web services, for effective uptake and delivery of the TAMIR products

   - Integration of products into operational civil protection platforms

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- 24 months, 1.2.2020 - 31.1.2022
- Estimated Project Cost: 1,161,341.42 €
- Requested EU Contribution: 987,140.21 €
- Prevention and **preparedness** in civil protection and marine pollution

- Website: http://www.tamir-project.eu/
- Kick-off: Helsinki, 27.2.2020
- Final seminar: Brussels, November 2021 (*tentative*)

- End-user workshop:
  - Why: Collect inputs from stakeholders to specify end-user needs
  - Where: UPC-CRAHI, Barcelona, Spain
  - When: November 2020 (M10)

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12.2.2020 **Annakaisa von Lerber**