

Introduction to the FlashFloodBreaker project

FlashFloodBreaker launch conference Liège, 04 June 2024

Ploteau Marie-Edith, Emschergenossenschaft



Content of the presentation



FlashFloodBreaker

1. Framework and objective

2. Partnership

3. Work plan overview



North-West Europe faces an increasing number of extreme flash flood events



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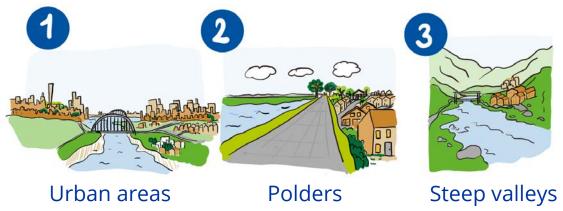


A flash flood is a rapid rise of water in low lying areas that occurs within only 3-6 hours of a heavy rainfall



NWE suffers from such extreme events which are linked with fatalities, economic losses and damages

Risk-affected residential areas in NWE are





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Make North-West Europe more resilient against increasing extreme flash flood events

Project objective

An interdisciplinary partnership alongside the flood risk management



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13 full-partners organisations



+ 23 associated organisations in an advisory function

Type of organisations

- Water authorities
- Regional authorities/crisis centre
- Fire and rescue services
- Academic partners
- Insurance representation
- Ministries/Province
- NGO on flood awareness to citizens



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13 organisations from 6 countries cooperate



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- Regional authorities (Provinces of Limburg, Public service of Wallonia, Flanders environement agency)
- Waterboards (EG, LV, HHNK, STOWA as knowledge center of all NL-waterboards)
- Fire and rescue services (of Duisburg city and Moselle department)
- Academic partners (Uni.Liège, Uni.Luxembourg, RWTH Aachen, MTU)



23 associated organisations in an advisory board

- - Administration de la gestion de l'eau du Luxembourg AGE
 - Corps grand-ducal d'incendie et de secours CGDIS

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- Ministerie van Infrastructuur en Waterstaat Rijkswaterstaat
- Veiligheidsregio Noord-Holland Noord VRNHN
- Veiligheidsregio Zaanstreek-Waterland VRZW
- Cumela
- Het Nederlandse Rode Kruis District Noord-Holland Noord NHN
- Politie Nederland, eenheid Noord Holland NH
- Hoogheemraadschap de Stichtse Rijnlanden HDSR
- Waterschap Limburg

Province de Liège



North-West Europe

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- Donegal County Council
- Kerry County Council
- Galway County Council
- Cork County Council
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- Gesamtverband der Deutschen Versicherungswirtschaft e.V. GDV
- Deutsches Komitee Katastrophenvorsorge e.V. DKKV
- Landesamt f
 ür Natur, Umwelt und Verbraucherschutz LANUV NRW
- Ministerium des Innern und für Sport Rheinland-Pfalz
- HochwasserKompetenzCentrum e.V. HKC
- HPA Polder Hamburg GmbH
- Wupperverband
- Stadtentwässerungsbetriebe Köln, Anstalt des öffentlichen Rechts StEB Köln

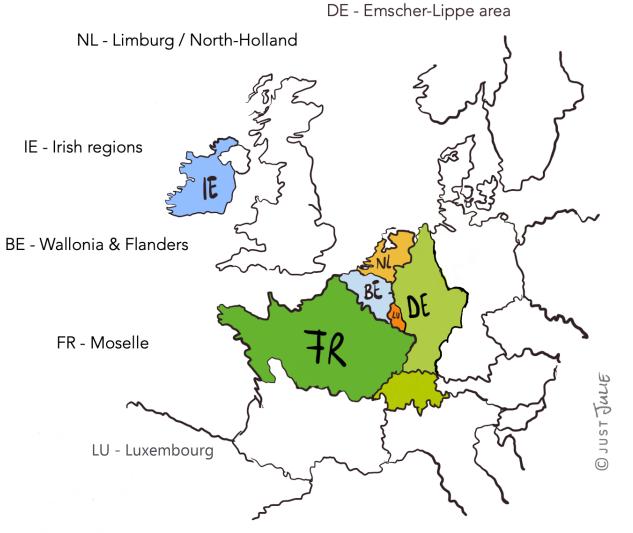


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Risk-affected areas engaged in the project DE - Emscher-Lippe area

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Ressources of the partnership



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- Duration: 2023 2028
- Budget: € 11.92 million
- Co-funding: 60% within INTERREG North-West Europe Programme

+ knowledge and synergies with existing initiatives or projects



Existing knowledge and synergies with current initiatives



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Projects

- EMR Flood Resilience
- EMR Marethak
- Interreg 2 Seas Polder 2C's
- BMBF KAHR
- BMBF HoWas
- BMBF PuwaSTAR

Initiatives/Programme

- Limburg Water Safety and Spatial Planning Program
- GTI Cross-disciplinary flood group in Wallonia
- River Bandon Flood Relief Scheme -Nationally-funded Capital Flood Relief Scheme Programme in Ireland
- Roadmap Crisis Flood in Emscher Lippe region
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Take the IMPACTS OF EXTREME FLASH FLOODS into account at each stage of the flood risk management

Project approach



Pilot innovative IT-tools in distinct regions





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Prevention

Emergency response

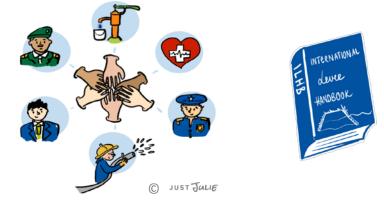
Tools for integrated flood modelling:

- Flood impacts
- Pluvial and fluvial flooding

Al-based tools to improve (impact) forecast in flood earlywarning systems and in crisis management systems Innovative real-time processing scheme of data collected by (autonomous) drones during/shortly after extreme flash floods



Pilot flood responsive communities in distinct regions





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Prepardness at local and international level

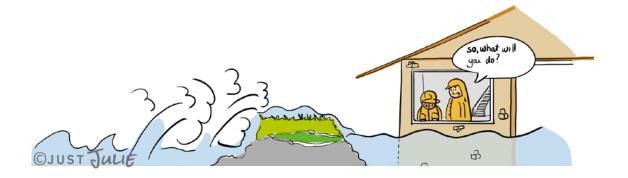
Local responsive flood communities scheme incl. coordinated flood and impactsbased Early Warning Systems A transnational flood-fighting community having a common understanding of flash flood risk management and emergency response



Train and raise awareness on flash flood risk management across regions



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Prepardness and emergency response

Training scheme for members of flood crisis units, incl. construction of a training levee

Raising awareness of residents

Increase capacity of students and young professionals

> 14 EGLV Emschergenossenschaft

Embed all activities in local action plans and in a transnational strategy



North-West Europe

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...for an improved resilience against extreme flash floods

> 15 EGLV Emschergenossenschaft





- FlashFloodBreaker is a project that adresses a increasing challenge in NWE
- It has an engaged partnership that disposed of reasonable ressources to reach the project objective
- FlashFloodBreaker adopts a flood impact-based approach:
 - to develop tools for modelling, forecasting and early warning system
 - to strenghten cooperation at the local and at the international level
 - To increaes capacity building of members of crisis units, residents and young professionals in the partners regions and in the North-West Europe area.



Expected benefit NWE communities are more resilient and better prepared for increasing extreme flash flood events





North-West Europe

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