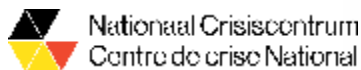


Kick-off event Marhetak

Welcome! Walk-in & networking until 14.00



Programme

14.00-16.00

- Word of welcome
- Presentation of the project Marhetak
- Contribution by Interreg EMR
- Presentation of the deliverables
- Time for questions
- Networking

Presentation of the project

By leadpartner EMRIC

July 2022

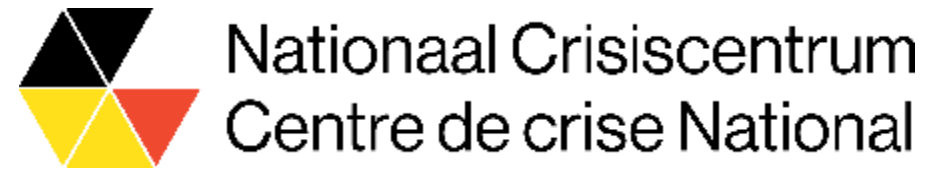


About Marhetak

- Interreg EMR: extra budget for crisis management organisations to deal with and learn from the floodings.
- Marhetak application, start in summer 2022.

Marhetak partners

- Aim: improve & robustify euregional cooperation in times of a flooding crisis



The need for Marhetak

- During the flooding crisis of July 2021 cross border cooperation proved to be difficult
 - Enormous demand for assistance in own region/country
 - Lack of uniform knowledge of the situation and forecast
 - Differing crisis communication towards citizens
- Evaluations have shown many learning points in national and euregional terms

Highlight of activities

- Improve prediction models and information exchange
- Creation of a joint crisis management system (Paragon) to be tested in a live exercise in the EMR
- Joint cross-border risk assessment
- Harmonize risk and crisis communication
- Purchase emergency response equipment
- Propose joint evaluation models
- Floods emergency planning in Wallonia

Contribution by Interreg EMR

Mark Vos, Programme Coordinator Interreg



Interreg

Euregio Meuse-Rhine

European Regional Development Fund



EUROPEAN UNION

MARHETAK Kick-off Event

09.11.2022

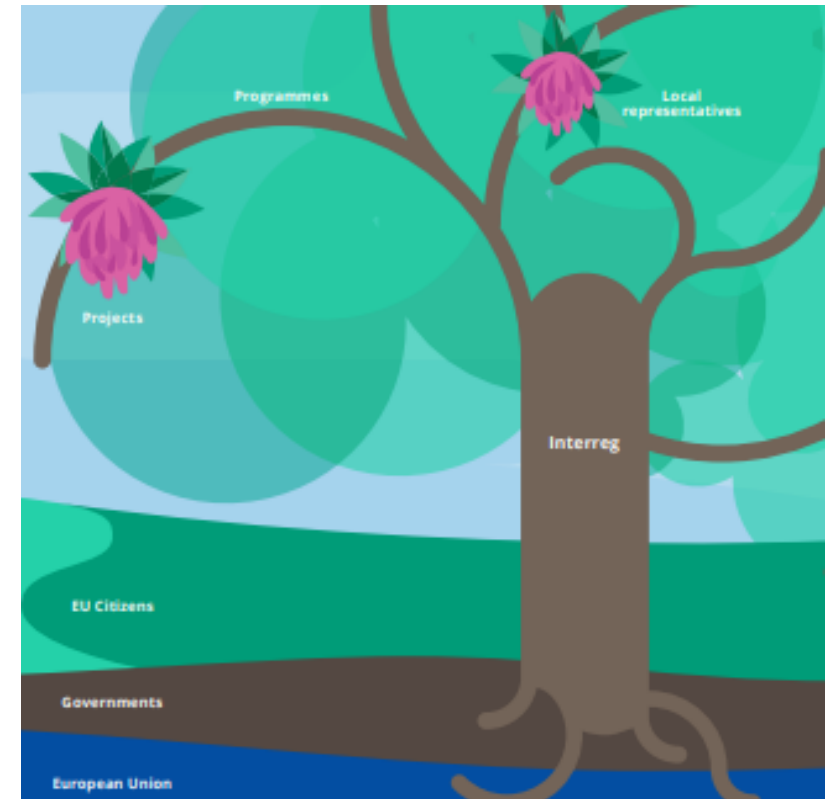
European funding & Interreg Euregio Meuse- Rhine

Why European funding?

- The European Union stands for that belief that through **cooperation, trade and respect** we can all grow together
- The EU made it possible for people and resources to **travel freely** within its boundaries
- **But:** Borders may have been made invisible, but they still impact the lives of millions of citizens.

Our position within the European environment

- We are but one tree in the forest of all EU programmes
- Interreg EMR is part of a rich ecosystem
 - European Union
 - Governments
 - EU citizens
 - Projects
 - Other Interreg programmes
 - Local representatives



Why cooperate?

- We believe in **sharing ideas, know-how**, and in **learning** from each other
- In order to grow together as people, as regions, and as the Interreg community, we want to find **shared solutions for common problems.**



Why cooperate?

- We need to **work together as equals**, regardless of borders!
- **6 calls + 2 special calls for crises:**
 - **COVID call**
 - **Flooding call**
- **66 projects**
- More than **300 project-partners**
- **196 million** total project-costs of which **50% ERDF**

What does the future hold?

“I welcome today’s political agreement on the **Interreg Regulation**. This programme supports and facilitates territorial cooperation, with a view to **overcoming formal and informal obstacles** that prevent border regions from growing and developing to their **full potential**.”

Elisa Ferreira,
Commissioner for Cohesion and Reforms



MARHETAK & Interreg Euregio Meuse-Rhine

The need for the
MARHETAK project
was obvious...



Why do we support the MARHETAK project?



Crisis situation

The MARHETAK project is tackling an important issue in flood-management as uniform prediction models are eminent for proper responses of crisis services



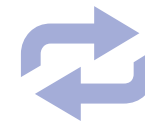
Project Partners

Very competent project partners with the necessary expertise



Vision & Focus

Clear goal to improve cooperation of crisis response units within EMR



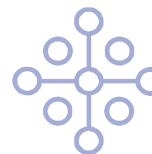
Lifting borders

Leads to decrease in border hindrance for residents and institutions



Time plan

Clear and realistic time plan



Cross-border collaboration

Promotes cross-border collaboration

Interreg Annual event – example project Interreg in crisis



Interreg VI

- New 2021-2027 Interreg Meuse-Rhine (NL-BE-DE) programme is close to official approval
- Focusing on 5 grand societal challenges in 4 priorities, including **climate change adaptation and disaster risk prevention and -resilience** in priority 2 '*A greener, low-carbon Meuse-Rhine area*'
- Launch of first call for proposals in February 2023

Interreg VI

- Until then, preparing for first call (procedures, application form, selection criteria, JEMS, cost catalogue)
- Goal to further **reduce administrative burden**, both for applicants/beneficiaries as for MA/JS
- Want to know more? Follow-us on Social Media, or contact MA/JS or the Regional Antenna in your region

Programme Partners



provincie limburg



AGENTSCHAP
INNOVEREN &
ONDERNEMEN



Vlaanderen
is ondernemen

Provincie Noord-Brabant

region
aachen

Ministerium für Wirtschaft, Innovation,
Digitalisierung und Energie
des Landes Nordrhein-Westfalen



Find us...



Website

www.interregemr.eu



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YouTube

<https://www.youtube.com/channel/UC5546obnew12Qlg4qrlWAmQ>



Interreg

Euregio Meuse-Rhine

European Regional Development Fund



EUROPEAN UNION

Thank you for your attention!

Presentation of the deliverables

By all project partners

EMRIC



LE GOUVERNEUR DE
LA PROVINCE DE LIÈGE



**Veiligheidsregio
Zuid-Limburg**



*StädteRegion
Aachen*



kreis heinsberg
overstans 'n' zeitsichtig.



WP 1: Improved prediction models and information exchange

- Aim: Foster information exchange between water, weather and soil services and the crisis management organizations in the EMR.
- Requirements of the public crisis management organisations in the EMR to the water, weather and soil services in case of floodings.
- Cross border information exchange flooding between the EMRIC partners.

WP 3: Joint cross-border risk assessment

- Aim: Develop and implement a proposal on how to do a joint cross-border risk assessment.
- Research study into (joint) risk assessment models.
- Cross border risk assessment flooding between the EMRIC partners.
- E-learning on how to do a cross-border risk assessment.

WP 4: Coordinated cross-border crisis management

- Aim: better cross-border assistance and crisis management involving all levels.
- Possibilities for cross border assistance of national services in Germany, Belgium and the Netherlands.
- Linking crisis staff at the strategic administrative political levels in the EMR countries.
- Study: innovative forms of cooperation and crisis management at the strategic political level (horizontal and vertical level).
- E-learning module Emric and Eumed capacities.

WP 5: Euregional risk and crisis communication

- Aim: Align risk and crisis communication towards citizens.
- Euregional risk communication plan.
- Euregional crisis communication plan.
- Implementation of both these plans by means of an e-learning.

WP 6: Joint euregional evaluation

- Aim: Model for joint evaluation of recent crises to improve joint assistance and crisis coordination.
- Study: evaluation models used by EMR partners and proposal of a joint evaluation model.
- EMRIC cross-border evaluation model.

Communication material

- Website: <https://marhetak.info/>
- LinkedIn



The poster features a photograph of the European Union flag waving in front of a modern building. The text is arranged in a clean, professional layout with a teal and white color scheme.

Interreg
Euregio Meuse-Rhine
Marhetak

Interreg
Euregio Meuse-Rhine
European Regional Development Fund

Marhetak

The aim of the project is to robustify the cooperation between the euregional services legally responsible for crisis management and weather, water and soil services in times of a flood crisis.

The Veiligheidsregio Zuid-Limburg in the form of EMRIC, the Public service of Wallonia, Federal public service Home Affairs Belgium and Water Board Limburg will work to align images of forecasts, facilitate uniform information provision, link data sources, harmonize risk assessments and crisis communication. Lastly, emergency response equipment will be inventorized and complemented where necessary. The project will end with a live exercise of better crisis management in the Euregio Meuse-Rhine.

At Interreg Euregio Meuse-Rhine, we fund projects where partners work together across borders to improve social and economic cohesion.

Together, we develop shared solutions to common challenges in our cross-border area of Belgium, Germany and the Netherlands. This gives Interreg its own, distinct spirit of cooperation between regions in the European Union.

In 2014-2020, we invest EUR 96 million from the European Regional Development Fund in the areas of innovation, economy, social inclusion, education and territorial development.

www.interregemr.eu

EMRIC **Veiligheidsregio Zuid-Limburg** **waterschap limburg**

Nationaal Crisiscentrum
Centre de crise National

Wallonie
service public SPW

NCCN

paragon

For an integrated approach to emergency planning and
crisis management



What is Paragon?



Definition

Paragon is a program seeded within the Belgian National Crisis Centre that will serve as the support platform to enable the Crisis Centre, its stakeholders and its peers to manage emergency planning and organize crisis management in the broadest interpretation.

*It will enable us, by using map layers and numerous data sources, to see what we can not see (**Digital Twin Visualisation**); to know what we need to know (**Communication and Flow**); to use the correct data and resources (**single sources of truth**) and to increase our efficiency and preparedness (**Automation governed by human factor**). Using these concepts and adding Big Data, prediction modelling and Artificial Intelligence to it will enable us to improve the positive outcome of events in the future.*

Paragon is a perpetual program based on adopted, open standards and is secure, scalable and multilingual. It is developed within the Crisis Centre thus it is free of commercial interests and could be made widely available to tier organizations, both nationally and internationally.

Key concepts

Combine map layers and data sources to provide digital twin visualisation

Case based with interaction between impact areas and objects

Integrate Microsoft365-technology with GIS-technology

Multi-user, multilingual, secure, scalable, open standards

Open source, in house development within the NCCN/ICT-department with all its relevant specialist profiles

paragon

Screenshot



Information channel

Information item Other

ein möglicher Einwirkungsbereich im Falle einer möglichen Eskalation genannt, so dass man sich darauf vorbereiten konnte? Oder wurde die erste Informationsmeldung noch angepasst? Ersuchen um Unterstützung Emric und Eumed. Emric: Unterstützung bei der Wasserversorgung über große Entfernungen
CBRN-Hilfe (Messung, Beratung, Dekontamination und Einsatz von Gasschutzanzügen)
Technische Hilfe bei der Befreiung eingeklemmter Opfer aus verschiedenen Fahrzeugen
Unterstützung bei der Brandbekämpfung und Rettung
Benedikt Verhaeghe 12-10-2022 15:53

BV

Eumed: Registrierung von Geschädigten erforderlich
Verteilung der notwendigen Opfer
Erforderliche Transportkapazität
Krankenhausaufenthalt der Opfer in der Euregio
Einsatz von Hubschraubern Berücksichtigung des Kollisionsweges aufgrund von Gefahrstoffen
Die Polizei bittet um einen Verkehrsplan für die Umleitung der B56. Dies wird ein langwieriger Einsatz sein.
Sicherstellung einer umfassenden logistischen Unterstützung für alle Einheiten. Rückmeldung über die Aufstockung und Unterstützung so bald wie möglich.
Was können wir aus den verschiedenen Ländern bekommen und wie lange wird es dauern, bis die Hilfe ankommt? (Rufnummer +491722001972).
Benedikt Verhaeghe 12-10-2022 15:59

BV

Einsatzleiter hier. Ich benötige dringend einen Gefahrstoffberater eines Chemieunternehmens für den Gefahrstoffeinsatz. Der Lastwagen mit dem gefährlichen Stoff ist umgekippt, und es ist ein Leck entstanden. Höchstwahrscheinlich gibt es eine undichte Stelle am Anhängsel. Ein Gasschutzanzug-Team wird eingesetzt, um das Leck abzudichten oder den ausgetretenen Stoff einzudämmen. Der Tankwagen wird durch einen Fahrzeugbrand in der Nähe ausgelöscht. Wir schirmen den Tanker ab, um zu verhindern, dass er sich erhitzt, aber wir haben nur begrenztes Wasser zur Verfügung und brauchen dringend einen stabilen Vorrat an Löschwasser. Da der Stoff an den Rand gedrängt wurde, brauche ich auch einen Umweltexperten.
Benedikt Verhaeghe 12-10-2022 16:00

Type a new message

Weer Echt-Susteren

13°C 0% 18 km/h 203° ZZW

Toon meer...

Bron: IRM/KMI Laatste update: 08:00

Anchors

Type an anchor name...

- Access/Evacuation way East Paragon - LineString
- Access/Evacuation way West Paragon - LineString
- Access point nominatim - Point
- Traffic jam Paragon - LineString

Contacts

Type the name of a contact...

- Ralf Johnen
- Thomas Kähler
- Marian Ramakers
- Thomas Sprank

Information channel Weer

Natuurgebied Rode Beek-Herik © OpenStreetMap contributors.

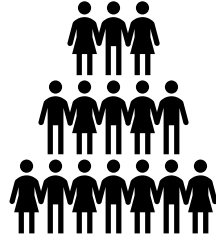
Paragon features, functions, key components



Map



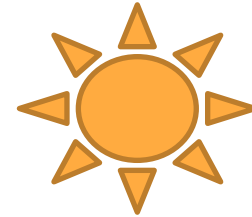
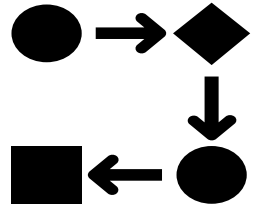
Contact



Communication



Case



Flow



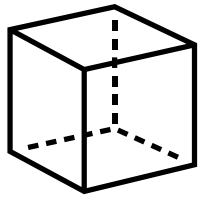
Type

Time

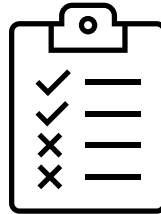
Location

Impact-(area)

Object



Emergency plan

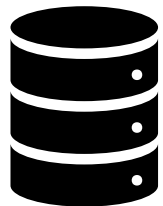


Analysis

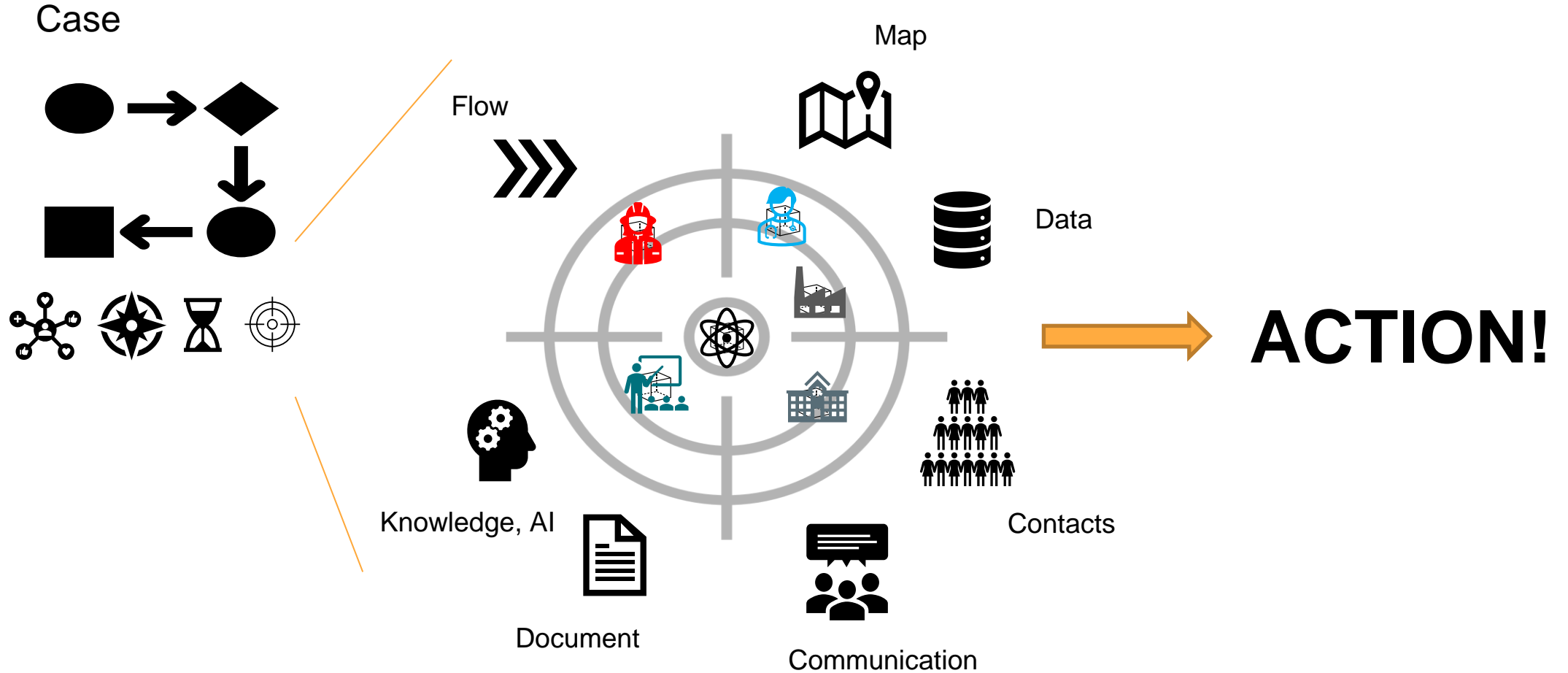


paragon 

Data



Paragon features, functions, key components





Paragon Interreg – Work Package 2

- Flooding 14th of July 2021
- Big impact on Euregio Maas-Rijn
- Coronacrisis
- Climate change

- Cross border exchange of information, media
- Process, manage, present information in a common operational view

- NCCN is already developing Paragon, possibilities in linking with existing systems/databases or adopt the Paragon program
- Crossborder use is not limited by technical constraints
- Add-on data provided by and Euregio-sources like hospital capacity, emergencies capacity and other resources
- Uniform knowledge, comparable interpretation, vision and view
- Testscenario's and live-exercices
- Transfer of (amongst others) Pandemic as data source



Paragon Interreg – Activities Work Package 2

- ICT Analysis within the scope of WP2
Business analysis: institutional, legal aspects, actors, structures, information sources, means of communication; differences and impact on the cooperation
- Functional analysis: requirements Paragon specific for international cooperation, adaptations of data sources (weather, water, specific)
- Security analysis: acces to the platform, features, data, user roles and access
- Technical analysis: protocols, integration
- ICT Development within de scope WP2
- Functionality: command structure CB (Cross Border), communication CB, anchors and contacts CB, Feed-widget CB, Flow CB, floodingdata visualisation
- Integrations: import data LCMS, and German tools, flooding related data (KMI, KNMI, Hydrography, DWD, IoT sensors water levels en rainfall)
- Mapinfo: baselayers, overlays according to specific themes
- Visualisation: adapted widgets, dashboards, baselayers and overlays



Paragon Interreg – Activiteiten Work Package 2

- Deliverable binnen de scope WP2
- Scenario: written out script of a long lasting flooding crisis with precrisis phase, actions, escalation and downscaling of taken measures, aftercare
- Reports: Feedback scenario with important elements as zoals command structure, flows (e.g. IoT), occurred exchanges of data, anchors and contacts
- Video recordings of operational platform
- Logging, technical and operational





Q&A - contact



Dominick Vanssevenant
Dep. Director ICT&Secops
Paragon program manager

dominick.vanssevenant@nccn.fgov.be

+32 479 872893

paragon 

SPW

MARHETAK project WP7:

Producing a flood emergency planning guidelines

Regional Crisis Center of Wallonia (Belgium)



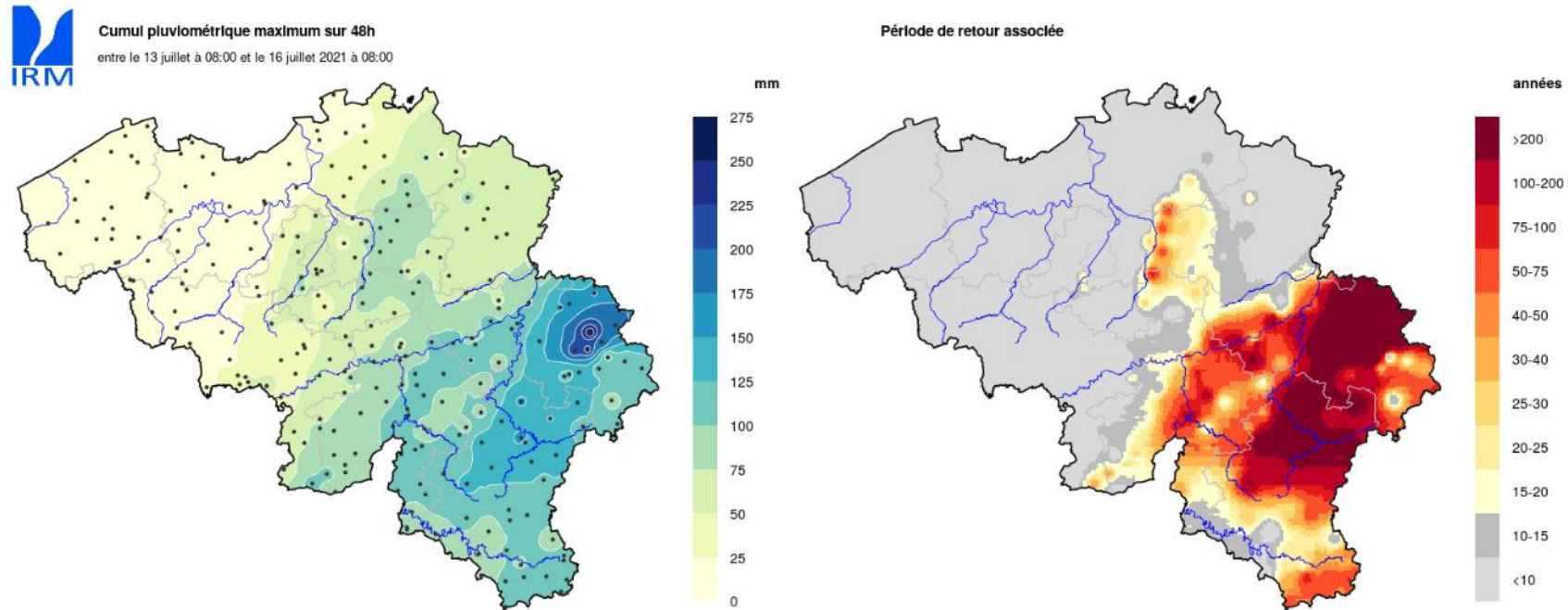
- Dr. Simon Riguelle: simon.riguelle@spw.wallonie.be
- Dr. Colin Glesner: colin.glesner@spw.wallonie.be



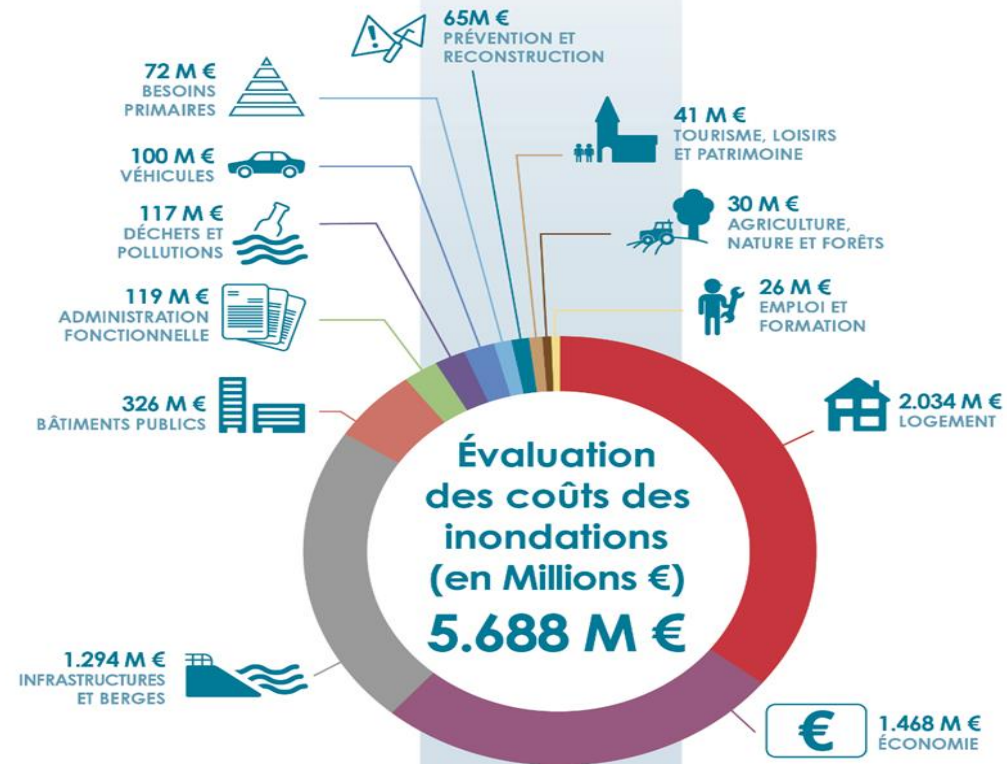
Flood of July 2021 in Wallonia (Belgium)



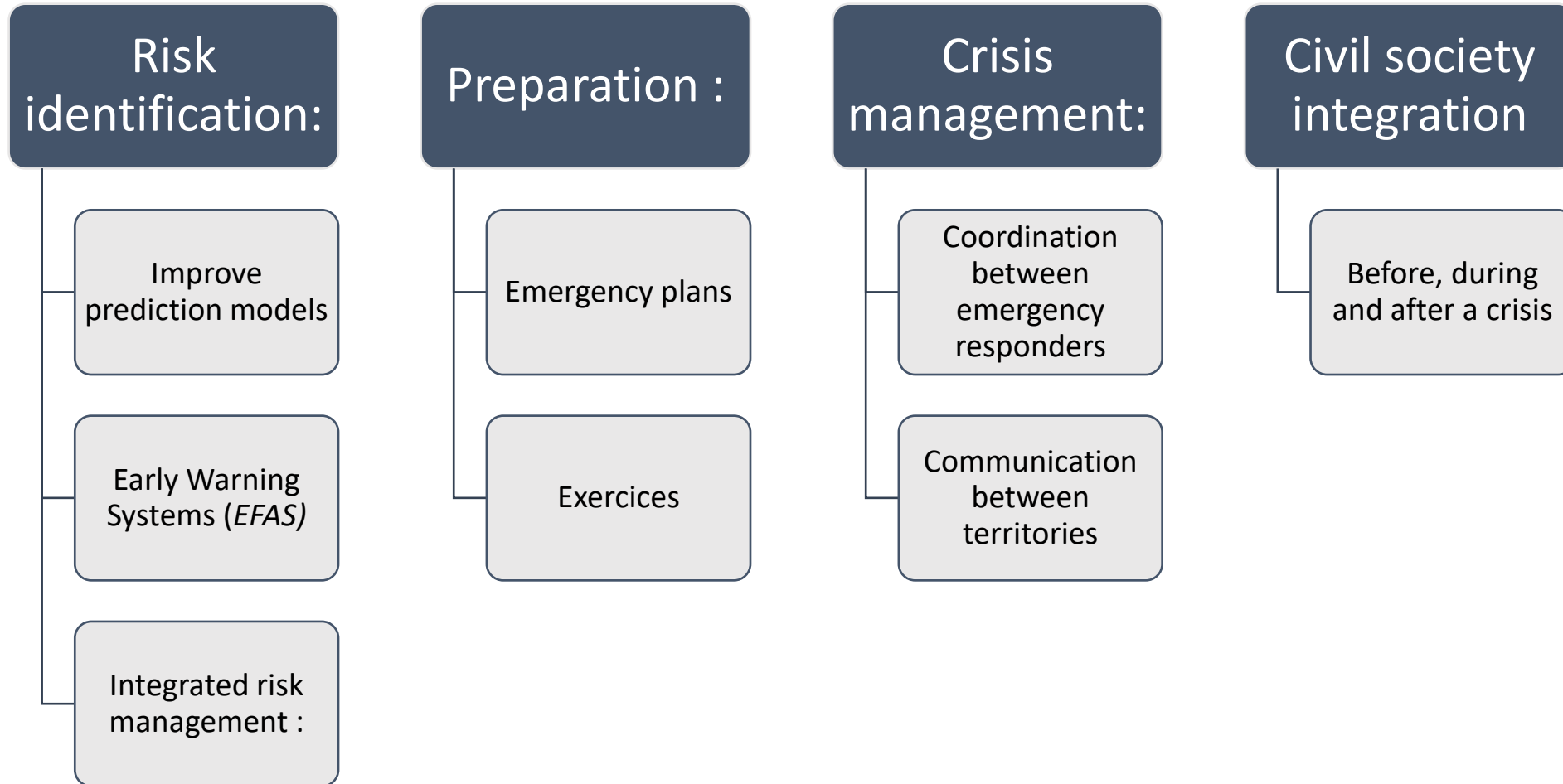
Floods of July 2021 : *context*



Floods of July 2021 : *consequences*



Floods of July 2021 : *lessons learned*



An aerial photograph of a large dam and lock system on a river. The dam is a long, concrete structure with a central lock. A large barge is visible in the foreground, moving through the lock. The river flows through a valley with green hills and trees. The sky is clear and blue.

MARHETAK project:
WP7

Flood emergency planning guidelines

2. MARHETAK Project WP7: *flood emergency planning guidelines*

Target:

- Euregio municipalities

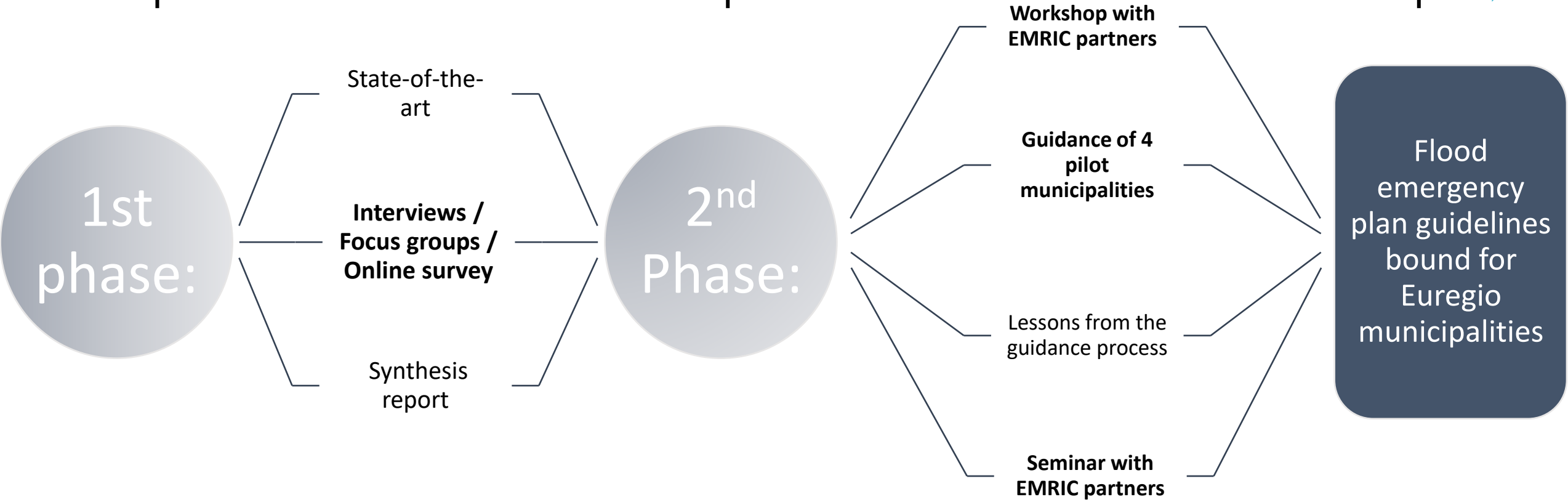
Objectives:

- Produce a **synthesis report** of the state-of-the-art
- accompany **4 pilot territories**
- provide a **flood emergency planning guide**

Focus

- Integration of **civil society**
- Transboundary aspects

MARHETAK Project : *Schedule of the project*



MARHETAK Project : *What is expected from the EMRIC network ?*

Participate to enquiries

- Interviews
- Surveys

Help finding pilot municipalities

Participate to EMRIC workshop/seminar



Contact : colin.glesner@spw.wallonie.be

©SOFICO

Waterschap Limburg

Testing new types of temporary flood defences

6th of october 2022

Wim van Steeg, Program Manager



waterschap
limburg

July 2021



Flow barriers to control the flow



What is wrong with traditional sandbags?



Speed of installing
Manpower
(Re)using



Market consultation

- 5 potential interested, 4 asked for a pilot
- Pilot on 5th of april 2022 @Rur Roermond
- 40 metres of temporary barrier
- Safety region, Firefighters, University of Delft, Media



Pilot location





waterschap
limburg

Results

- All 4 can withstand 50 cm of water
- Different time to build
- Different type of surface
- Foil is a must
- Connecting is better



Next step

- Framework agreement with 2 suppliers
- Functional specification
- Both suppliers can deliver more systems
- Interregional apply

History?



Any
questions?

Interreg
Euregio Meuse-Rhine
Marhetak



EUROPEAN UNION
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Thank you for your attention!

Networking until 16.00