



Innovatie in Veiligheid: future proof? Obstakels en **oplossingen**

Precinct

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The Global Risks Report 2024

19th Edition

INSIGHT REPORT

WORLD
ECONOMIC
FORUM

In partnership with Marsh McLennan and Zurich Insurance Group

IAS
institute

2 years

1 st	Misinformation and disinformation
2 nd	Extreme weather events
3 rd	Societal polarization
4 th	Cyber insecurity
5 th	Interstate armed conflict
6 th	Lack of economic opportunity
7 th	Inflation
8 th	Involuntary migration
9 th	Economic downturn
10 th	Pollution

10 years

1 st	Extreme weather events
2 nd	Critical change to Earth systems
3 rd	Biodiversity loss and ecosystem collapse
4 th	Natural resource shortages
5 th	Misinformation and disinformation
6 th	Adverse outcomes of AI technologies
7 th	Involuntary migration
8 th	Cyber insecurity
9 th	Societal polarization
10 th	Pollution

Risk categories | Economic | Environmental | Geopolitical | Societal | Technological

Source: World Economic Forum Global Risks Perception Survey 2023-2024.



Climate change, natural disasters, extreme weather conditions

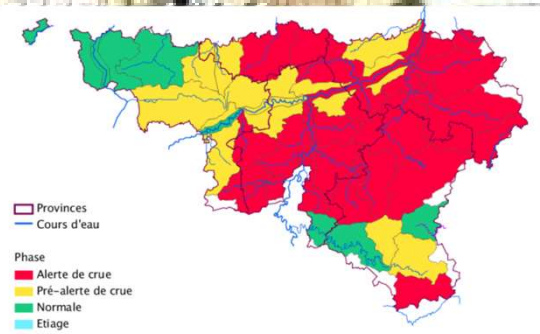








Maar dit is geen illusie...





Wat leren we hieruit?

“(…) The Committee recognises that Belgium needs to prepare for more regular disasters, that it needs to strengthen its response and preparedness to current crises and that civil protection is a shared responsibility between all sectors of society. In this context, the White Paper aims to guide and strengthen the way governments and their respective partners assess risks and work together to ensure prevention, preparedness, response, assessment and recovery. The aim is to increase the resilience of our institutions and the population”.

Committee of Experts on Crisis Management

- White Paper, Belgium, February 2023

Precinct

**Preparedness & Resilience
Enforcement for Critical INfrastructure
Cascading Threats and effects with
focus on district or regional protection**

[Website: Precinct](#)

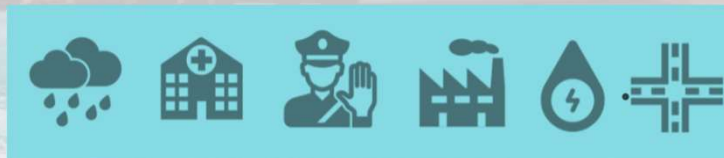
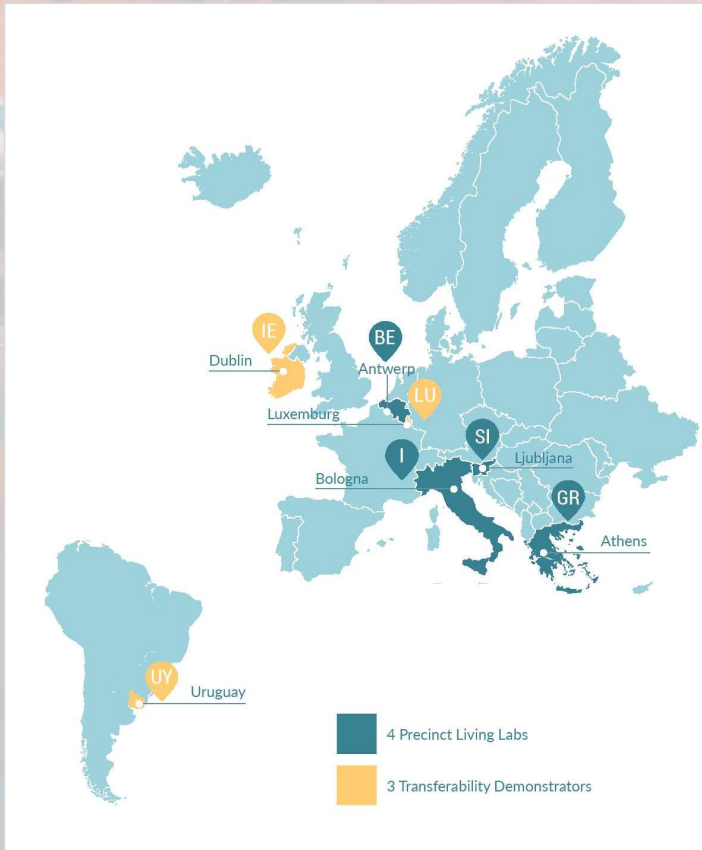
This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 101021668

Living lab methodologie



- Situeert zich in **real-world context**
- Ondersteunt het **innovatieproces voor alle belanghebbende stakeholders**
- **Co-creatie proces**
- **User-centric innovatie** omgeving gebaseerd op dagelijkse praktijk en onderzoek
- **Multi-methods** onderzoeksbenadering

4 Living Labs



LL Antwerpen Partners & Stakeholders



CP-OPS



Brandweer



Medische
noodhulpverlening



Civiele veiligheid



Communicatie

KU LEUVEN

mec

embracing a better life

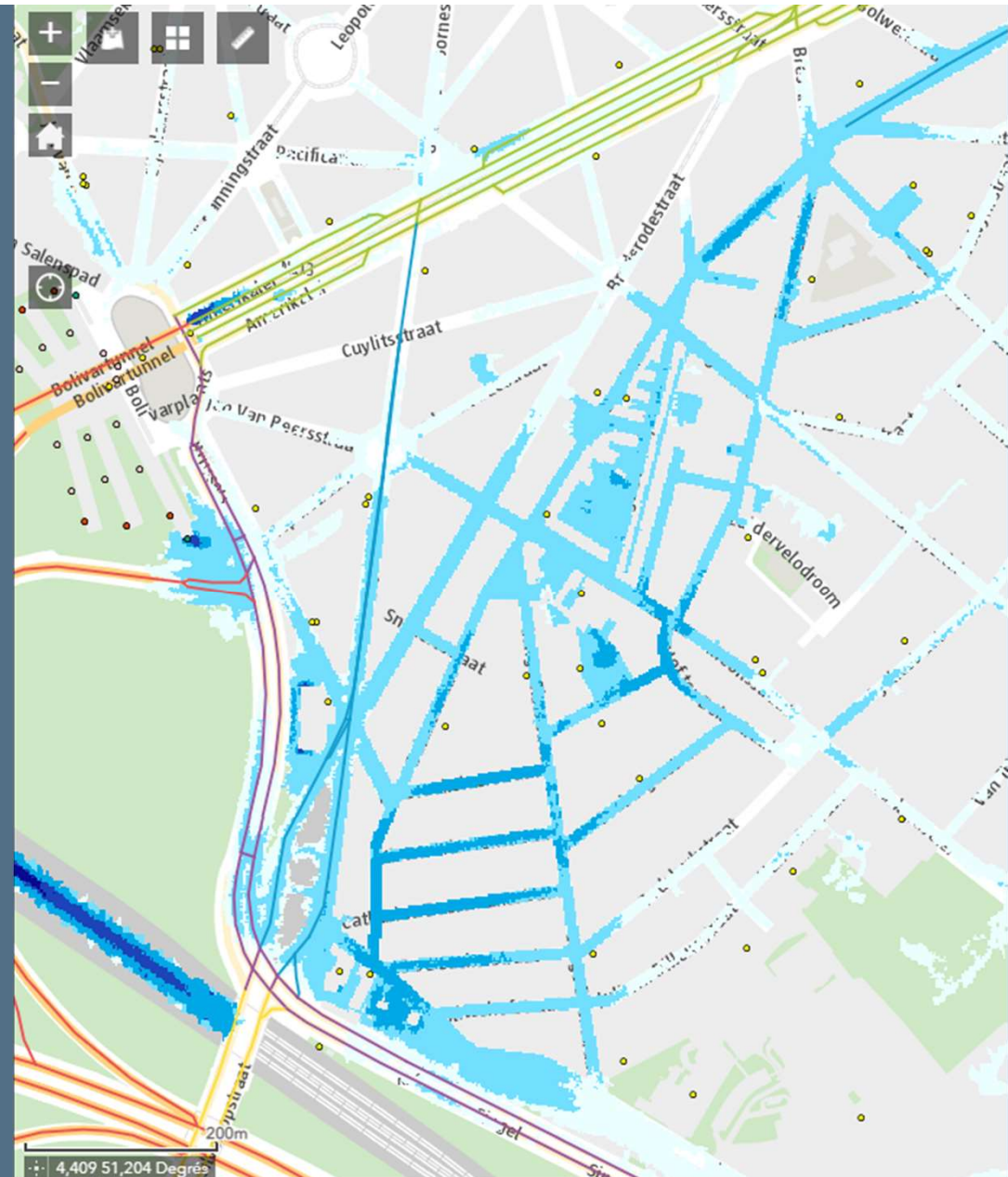


water-link



Verwachting?

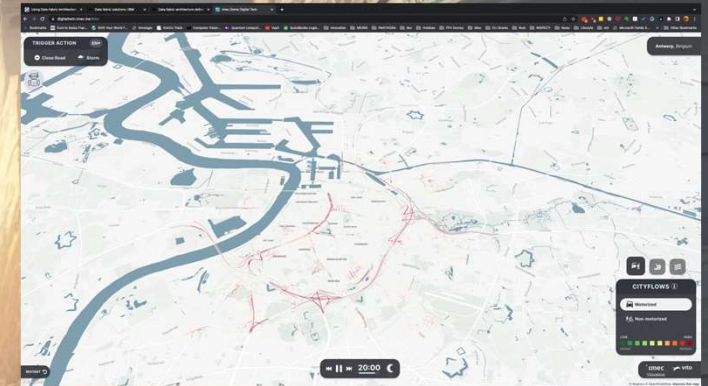
1. Verbeterd **inzicht en systeem** voor vroegtijdige waarschuwing mbt mogelijke bedreigingen en cascade-effecten
2. Verbeterde **tool** voor risicoanalyse en (her)ontwerp van respons om de effecten van een dergelijke dreiging te beperken (coördinatie tussen betrokken belanghebbenden)
3. Een **systeem van vroegtijdige waarschuwing** komt de weerbaarheid van burgers ten goede



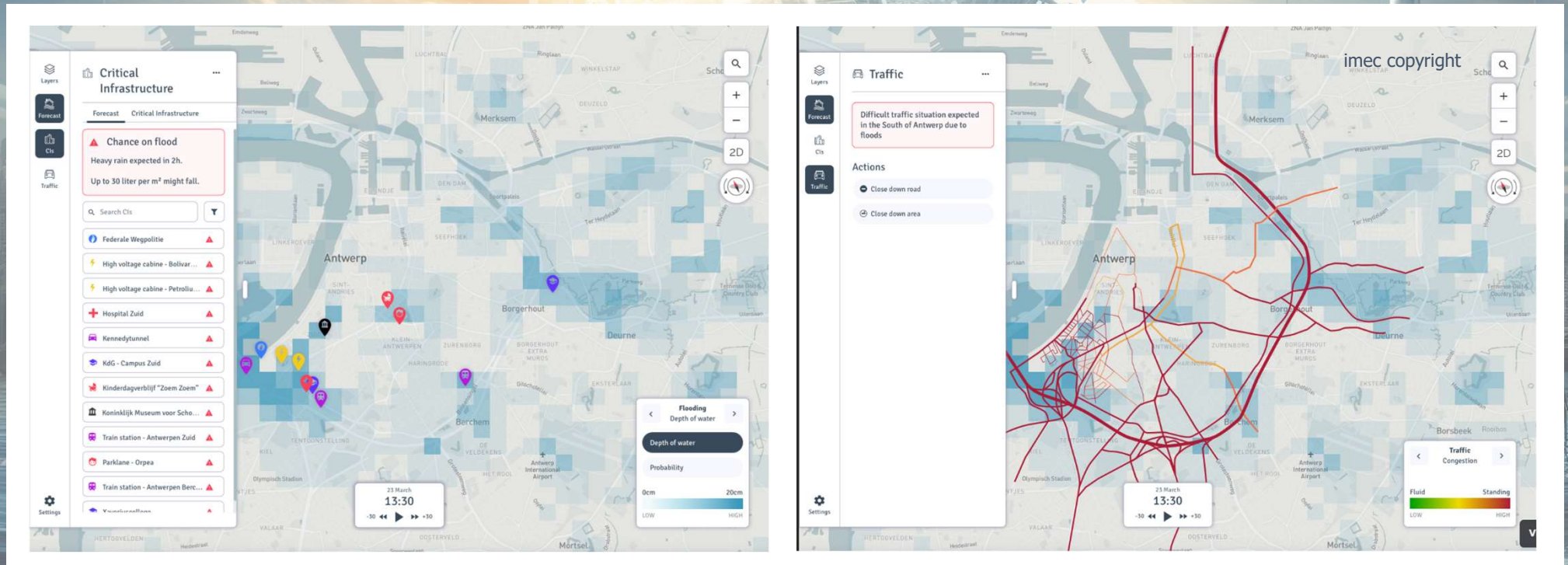
Living Labs – Digital Twin

Digital Twin

- Model, anticiperen, detecteren & coördineren
- Ondersteunen van het beslissingsproces bij coördinatie KI
 - KI network en alle relevante afhankelijke KI's
 - Ondersteuning van een weerbaar methodologisch kader

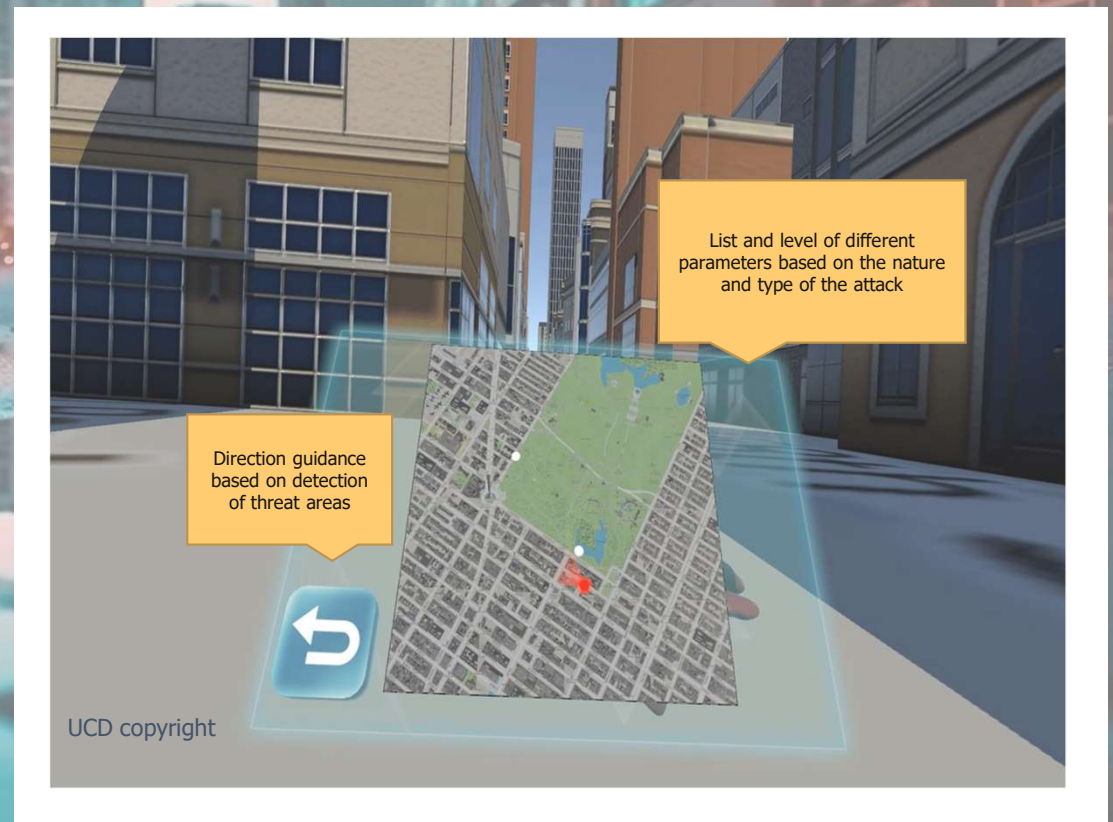


Living Lab Antwerp – Digital Twin Prototype



Living Labs – Serious Games

- Innovatieve kwetsbaarheid assessment tool
- Gebruikt voor trainingsdoeleinden als een manier van experimenteel leren



Lessons learnt

Risico

Nood: R&D

End-users

Data

Exploitatie



Contact

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