

EURISY



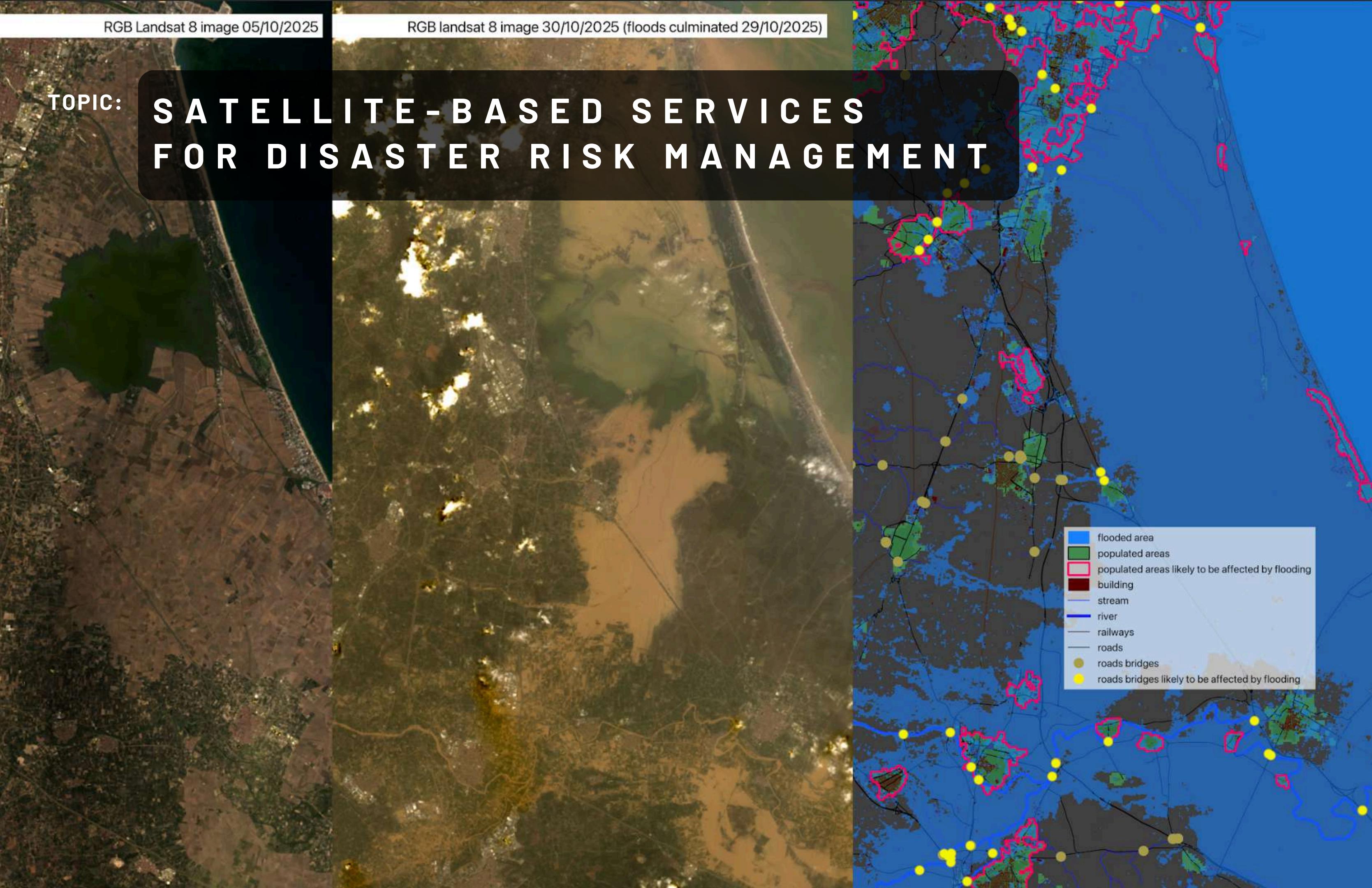
WORLD
FROM
SPACE





TOPIC:

SATELLITE-BASED SERVICES FOR DISASTER RISK MANAGEMENT



AGENDA

TOPIC: **SATELLITE-BASED SERVICES
FOR DISASTER RISK MANAGEMENT**

10 min 

- 01 SPACE DATA - VALUE AND LIMITATIONS**
WORLD FROM SPACE: WHAT, WHY AND HOW WE DO
- 02 DISASTER RISK MANAGEMENT**
SCENARIOS: CHALLENGES VS SOLUTIONS
- 03 READY WITH WORLD FROM SPACE**
HOW WE WILL SUPPORT YOU
- 04 DISCUSSION**
YOUR QUESTIONS AND INSIGHTS

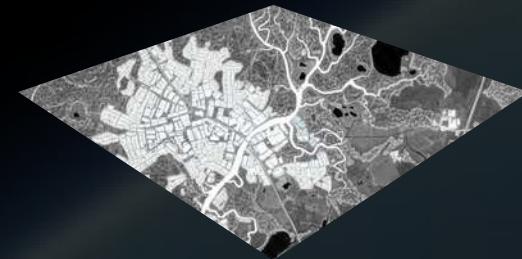
01 SPACE DATA VALUE VS LIMITS

OPTICAL

PANCHROMATIC, MULTI/HYPERSPECTRAL



RADAR (SAR)

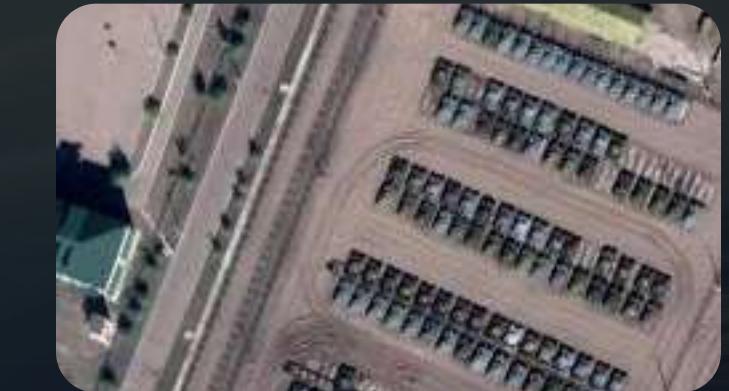


THERMAL



- 0,25-1 m / pixel,
~ 0,8 x 0,8 km / image:
- WorldView, Pleiades, GeoEye
- Object recognition

Very High Resolution, **VHR**



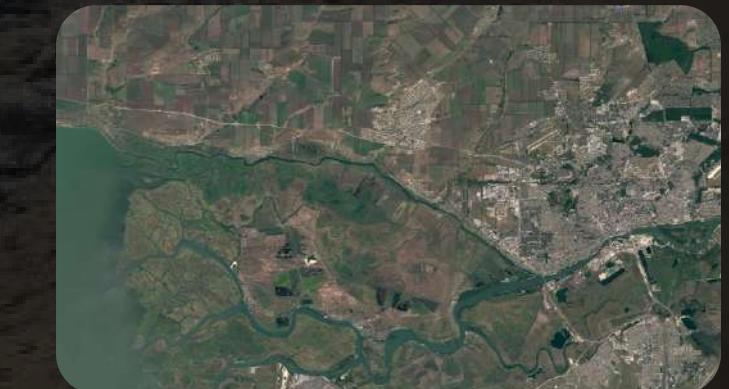
- 1 - 10 m / pixel,
~ 20 x 20 km / image:
- PlanetScope, SPOT
- assessment of terrain and infrastructure

High Resolution, **HR**



- 10 - 30 m / pixel,
~ 0,8 x 0,8 km / image:
- Sentinel, Landsat
- typology of terrain and vegetation

Medium Resolution, **MR**



01 SPACE DATA VALUE VS LIMITS

IN SITU - IOT

HAPS,
AERIAL, UAV

SATELLITE



- Precise detection, minimal change recognition
- Early warning enablement



- Detailed resolution and video/ live-streaming
- Continuous monitoring of a single area



- Global coverage, fully remote operation
- Variety of sensing spectrums
- Frequent revisit, data history

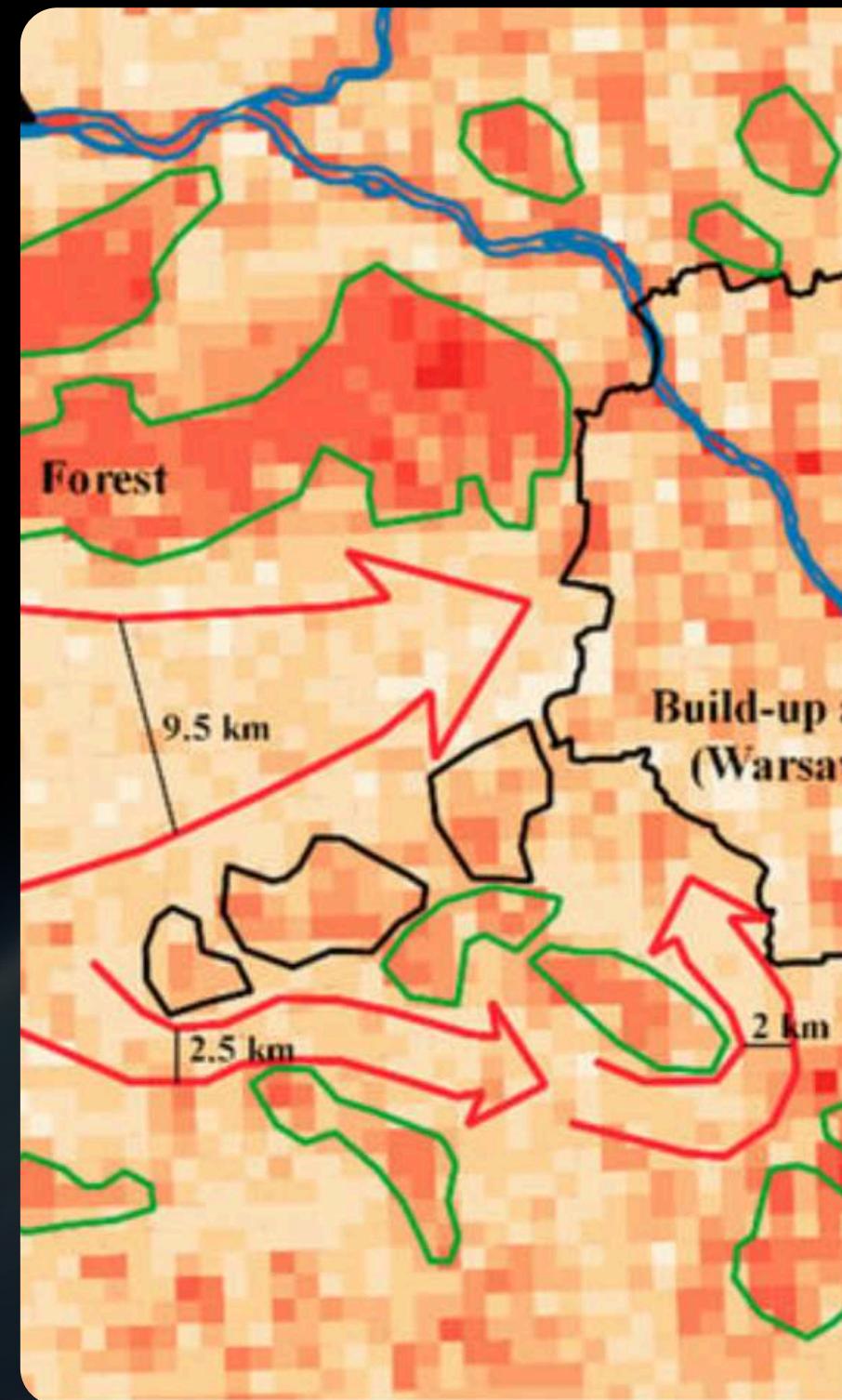
COMPLEMENTARY TECHNOLOGIES

INTEGRATION OR TASKING

O2 DISASTER RISK MANAGEMENT



02 DISASTER RISK MANAGEMENT



KEY CHALLENGES

LIMITED UNDERSTANDING OF IMPACT-SCOPE

Size, location, and criticality of impacted areas is unknown

MAPS NOT UP-TO DATE

Paper and digital maps get outdated fast without automated updating

INTERRUPTED TRANSPORTATION

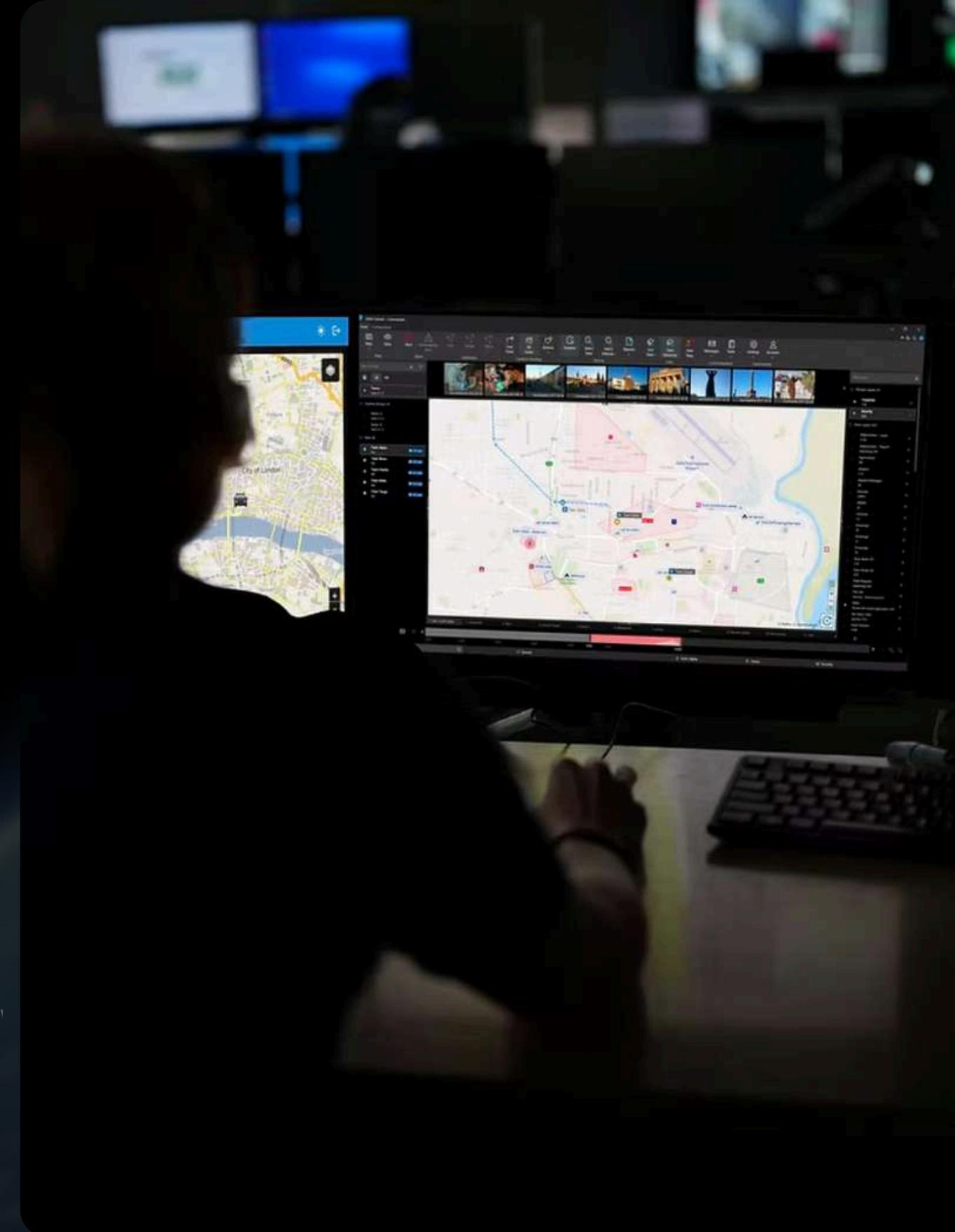
Disruption of transportation due to road infrastructure damage or flooding



NEED FOR SPEED! (NOT THE COMPUTER GAME)

Fast information about changes and hazards in a large-scale areas.

O2 DISASTER RISK MANAGEMENT



VALUE OF EARTH OBSERVATION DATA

IMPACT ASSESSMENT

- localisation and scale of impacted area(s)
- typology of impacted areas
- risk and response prioritisation

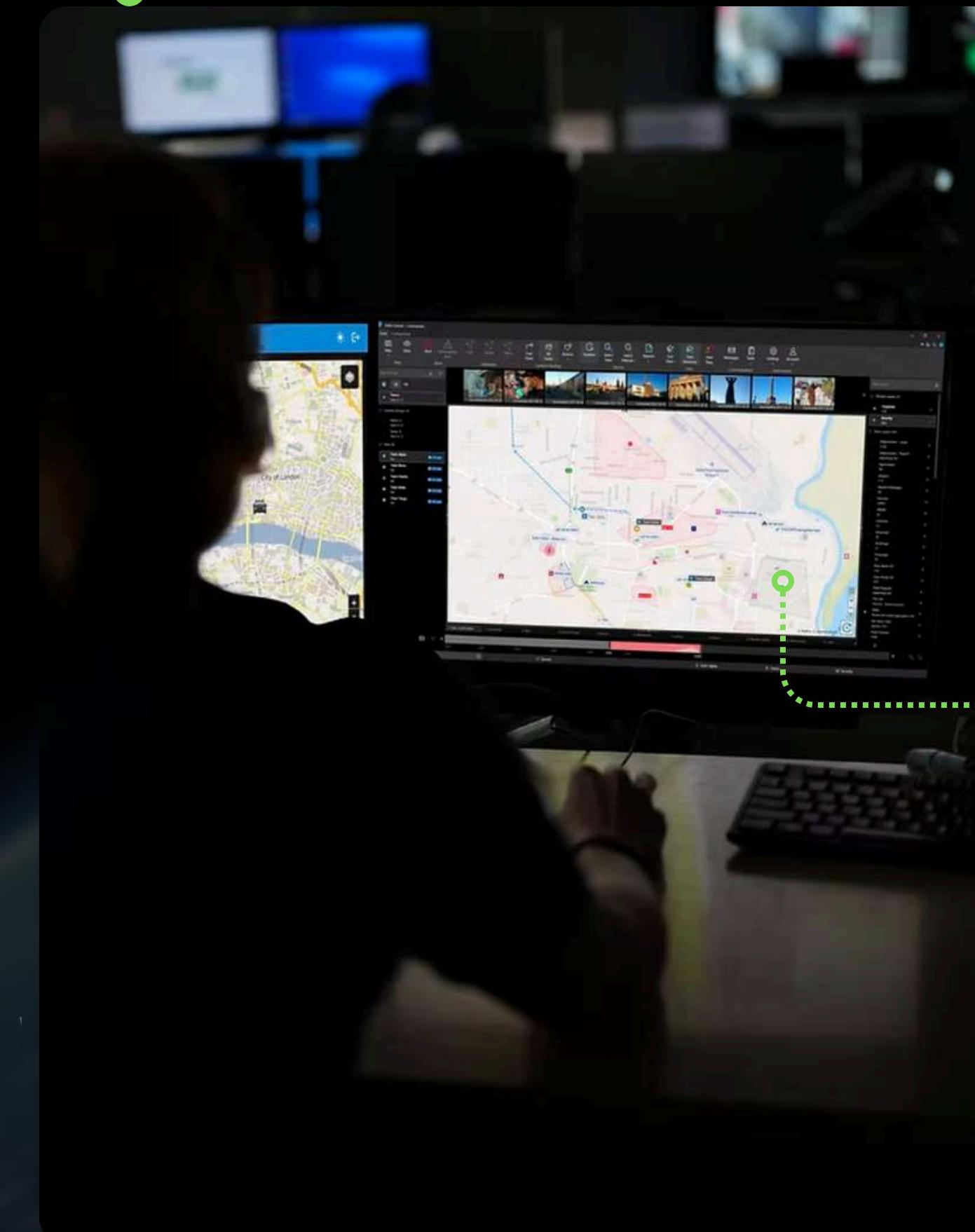
DECISION-MAKING SUPPORT

- critical location/ infrastructure targeting
- availability of transport infrastructure
- off-road navigation support

RELIEF AND RECONSTRUCTION SUPPORT

- priority and gal assessment
- progress monitoring
- impact monitoring

03 READY WITH WFS



OUR CONTRIBUTION TO YOUR EFFORTS



FAST DATA ANALYTICS

- agile on-request service
- speed thanks to AI and Experience
- consultation support



SOLUTION CO-DEVELOPMENT

- automated solutions, actionable insights
- decision-making support
- integrate with CAD, AVL, Field apps..



RESEARCH AND POLICY MAKING

- expert research programmes
- true, reliable data-based
- implementation support, documents, events

EXAMPLES OF WFS DELIVERIES

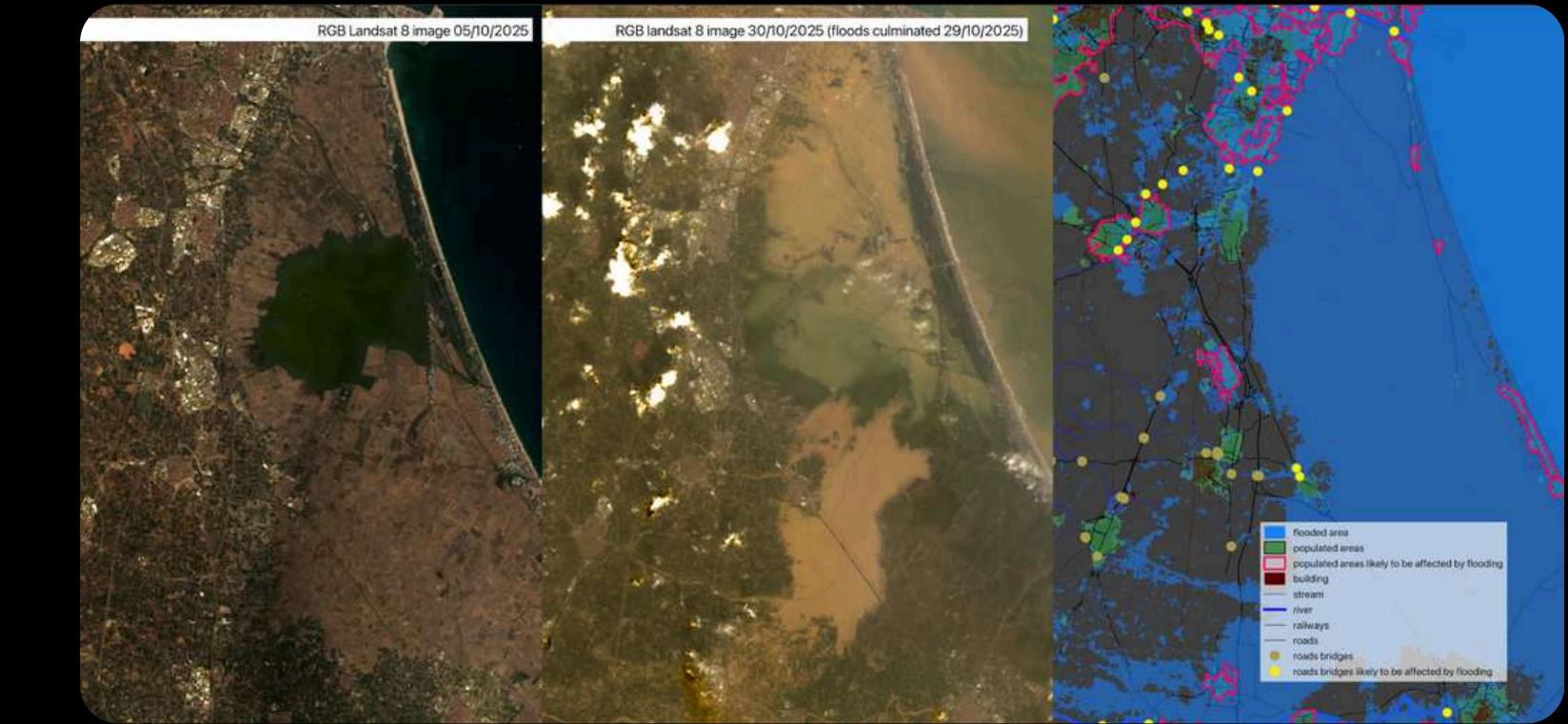
IMPACT SCOPE MAPPING

CRITICAL AREA DETERMINATION

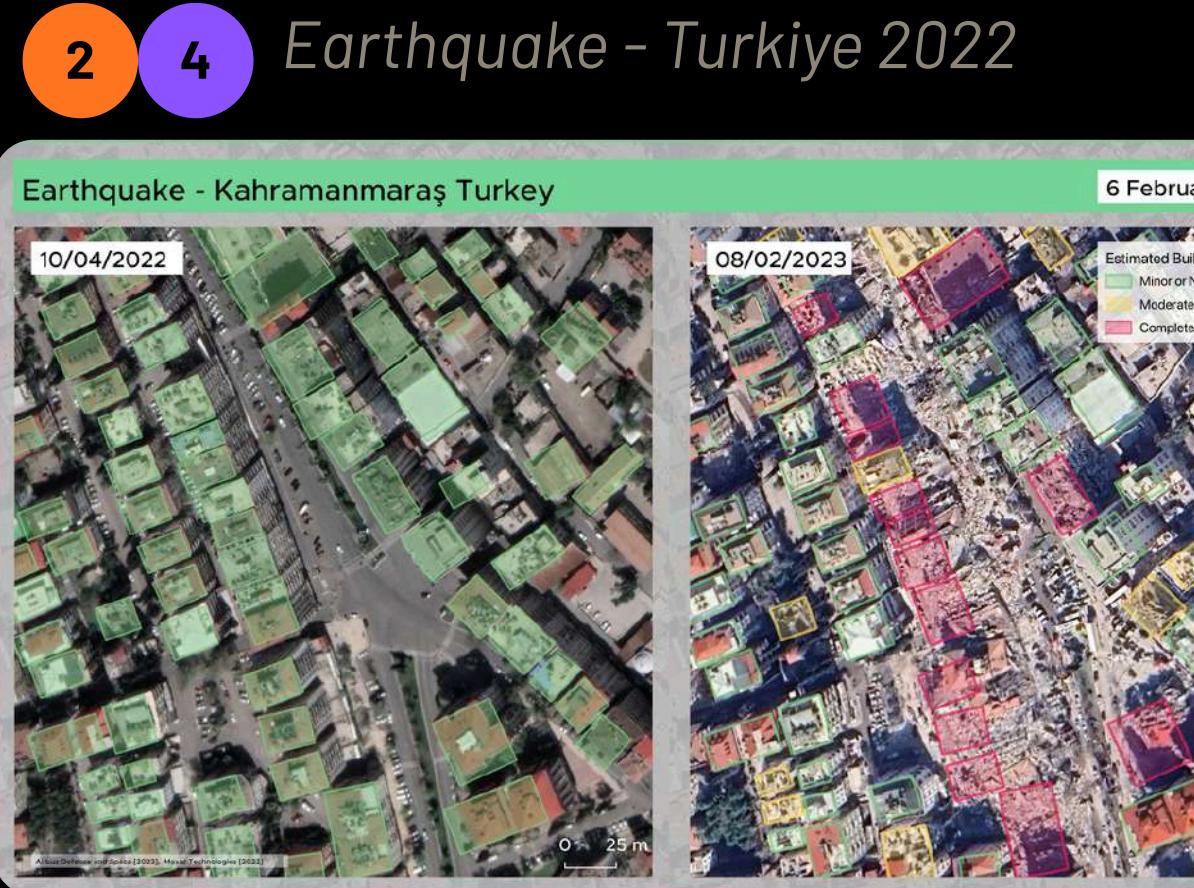
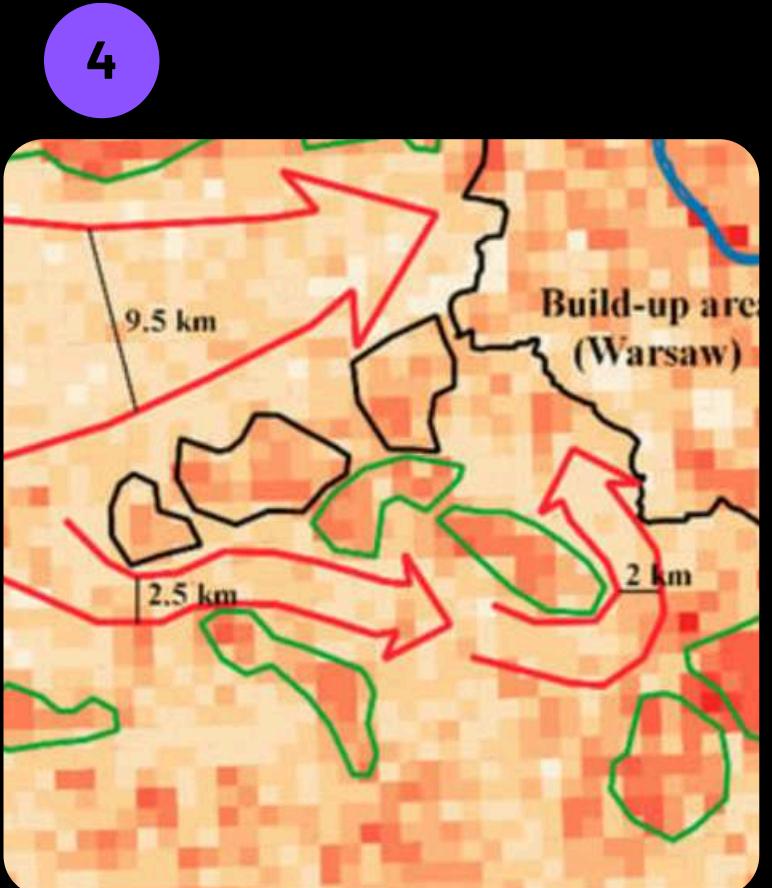
INFRASTRUCTURE DAMAGE MAPPING

NAVIGATION AND LOGISTICS SUPPORT

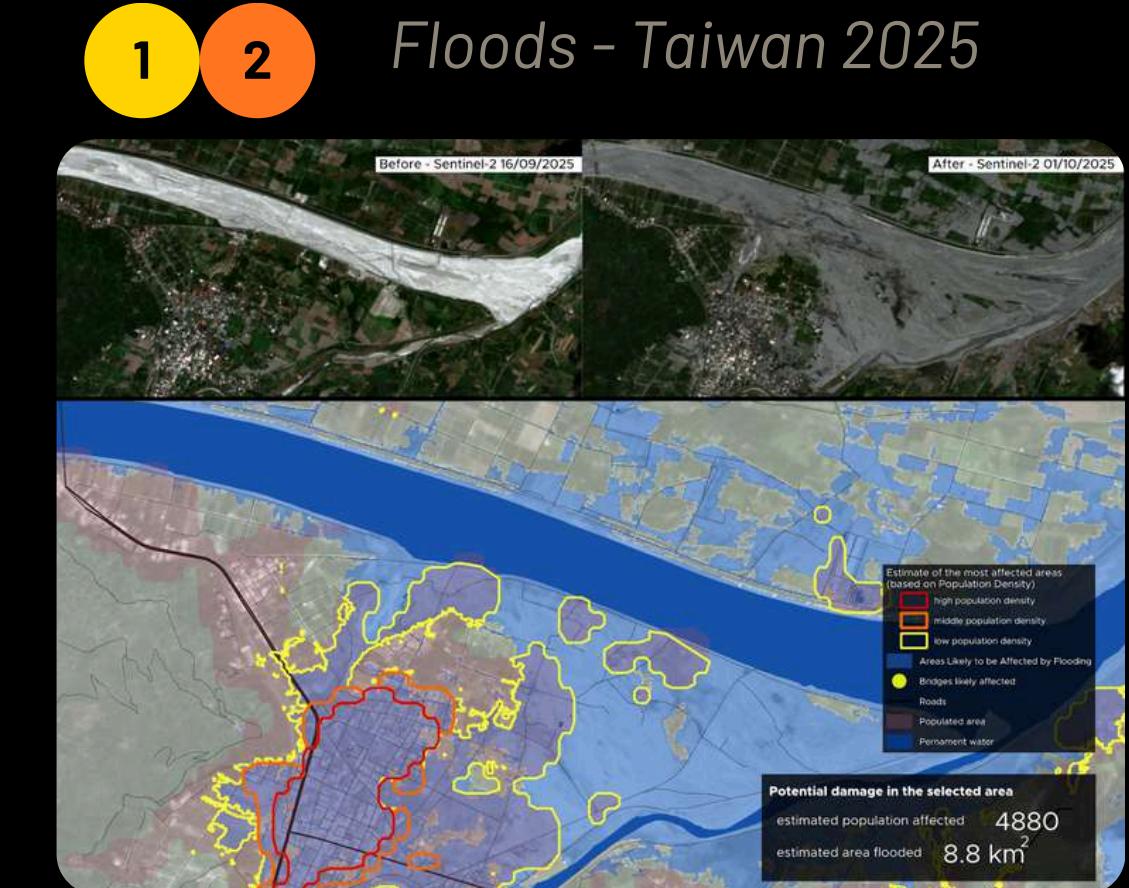
- 1
- 2
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1 2 4 *Floods - Valencia 2025*

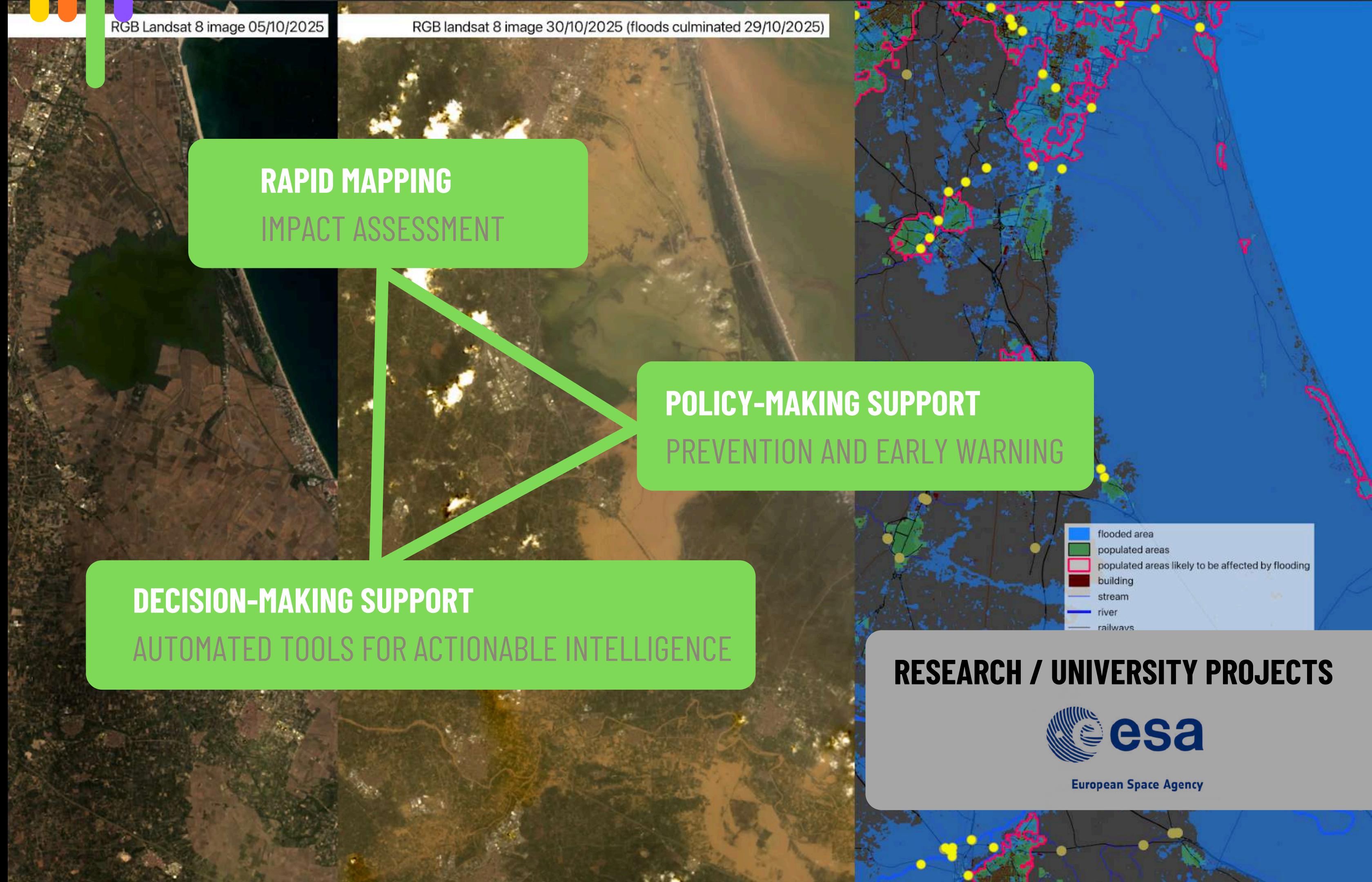


2 4 *Earthquake - Turkiye 2022*



1 2 *Floods - Taiwan 2025*

03 READY WITH WFS



DISCUSSION

04

RGB Landsat 8 image 05/10/2025

RGB landsat 8 image 30/10/2025 (floods culminated 29/10/2025)

READINESS THROUGH COLLABORATION



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