

Improving flood crisis management through Earth observation and AI

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Al4Copernicus 2024



belspo







FLOod crisis management With Earth observation Solutions









SUBSI

Aftermath

Reconstruction

User-centered research

- Database with over 80 potential contacts
- Problem trees



User-centered research



Flood extent: Build on established sensors & leverage upcoming sensors





Flood extent: Build on established sensors & leverage upcoming sensors: commercial SAR



Flood extent: Build on established sensors & leverage upcoming sensors: UAV





UAV-based crisis support through edge AI



Waterbouwkundig Labo

Fast impact assessment



Long-term impact assessment

Identification & classification of damages at multi-scale: aerial imagery



Long-term impact assessment

Identification & classification of damages at multi-scale: multispectral satellite imagery



Integration: disaster hot spot mapping





Several **EO** data and **AI**-based methods can provide **solutions** to improve **management of flood** crisis which will be more and more frequent in the future











