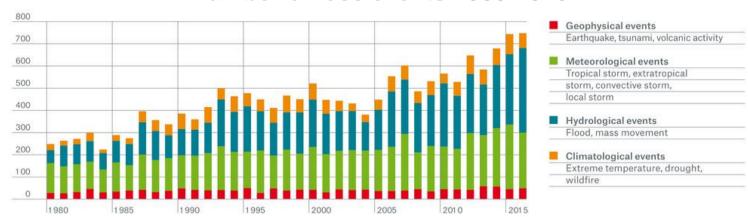
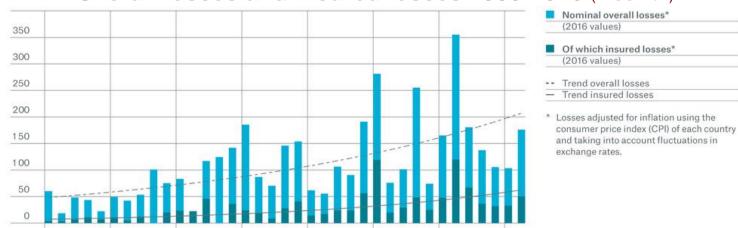




Number of loss events 1980-2016



Overall losses and insured losses 1980-2016 (in USD bn)







Overall losses: US\$ 175bn

Percentage distribution



 Geophysical events 	27%
 Meteorological events 	31 %
 Hydrological events 	32%
 Climatological events 	10%

Source: Munich Re NatCatSERVICE

Perspective?

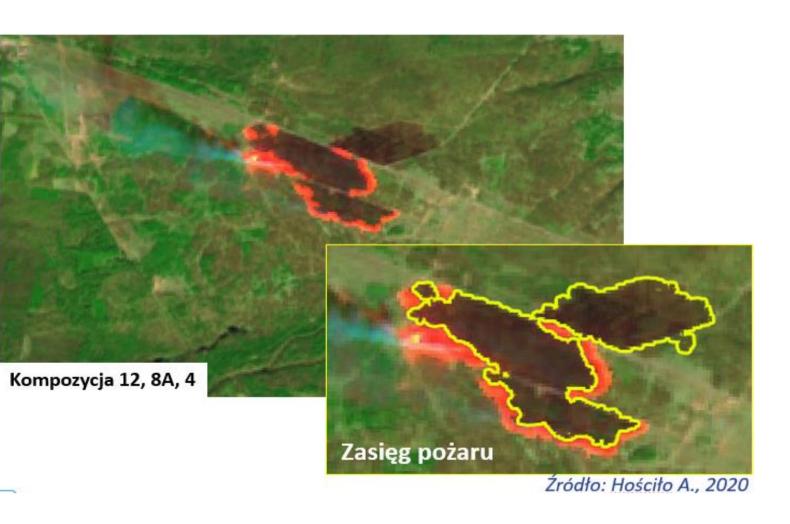


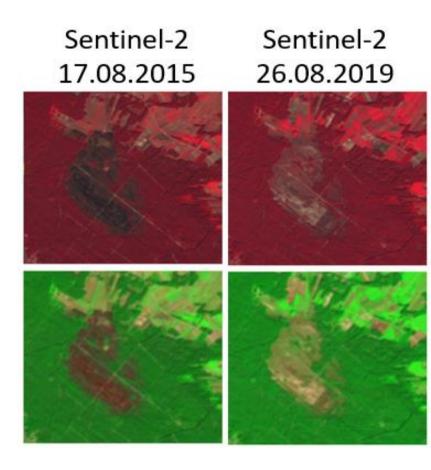
Source: WION Web Tear



CIK Detection of damages in the area of crisis situation





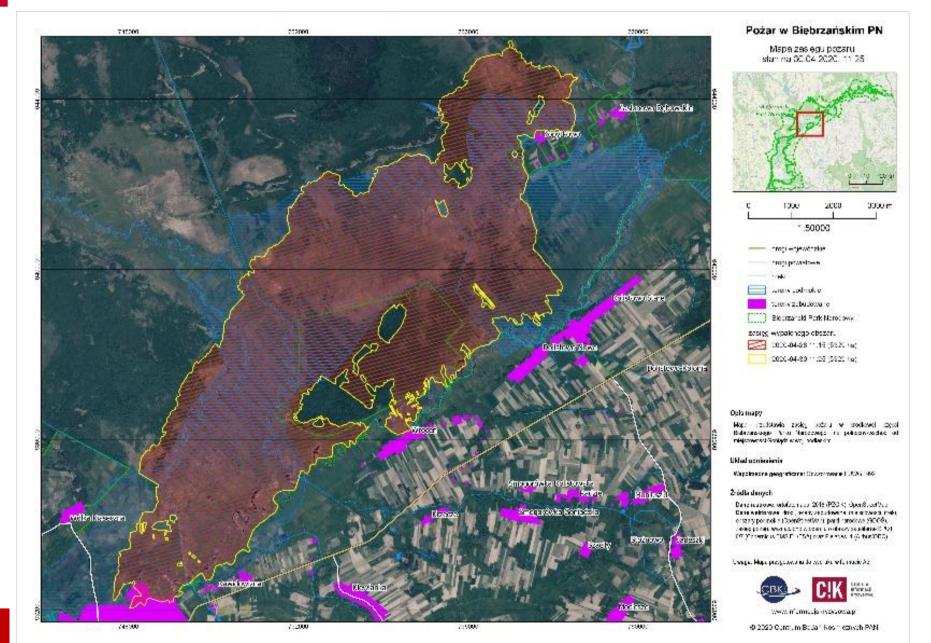






Damage detection with VHR imagery



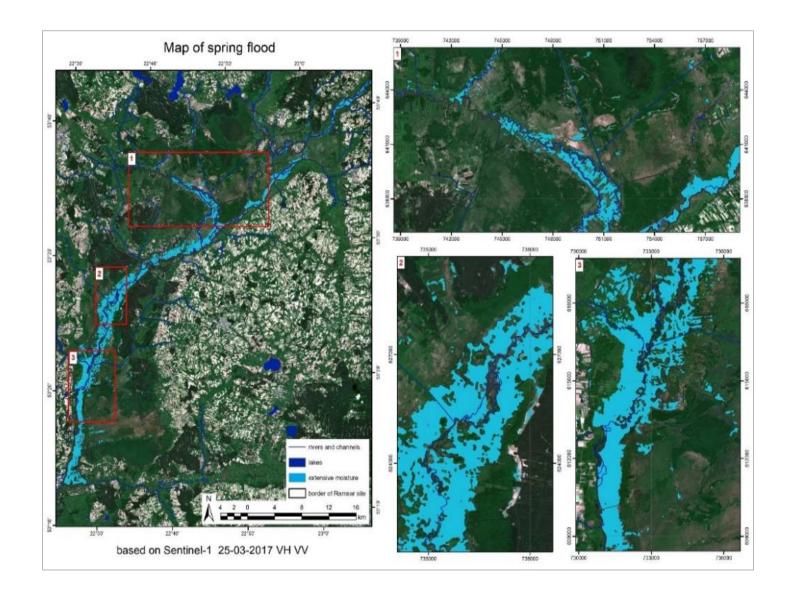






C!K Detection of damages in the area of crisis situation









Flood extent detection with VHR imagery.



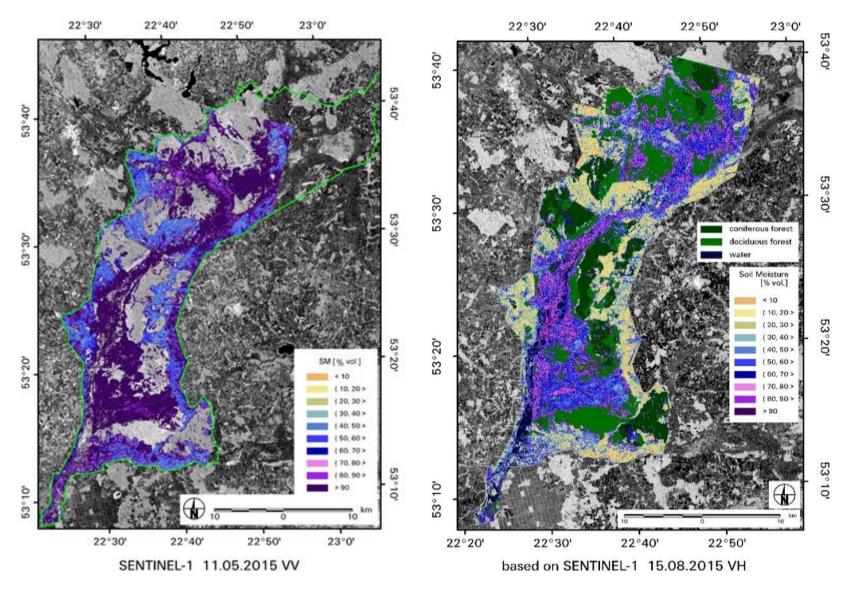






Detection of areas prone to local flooding from underground waters



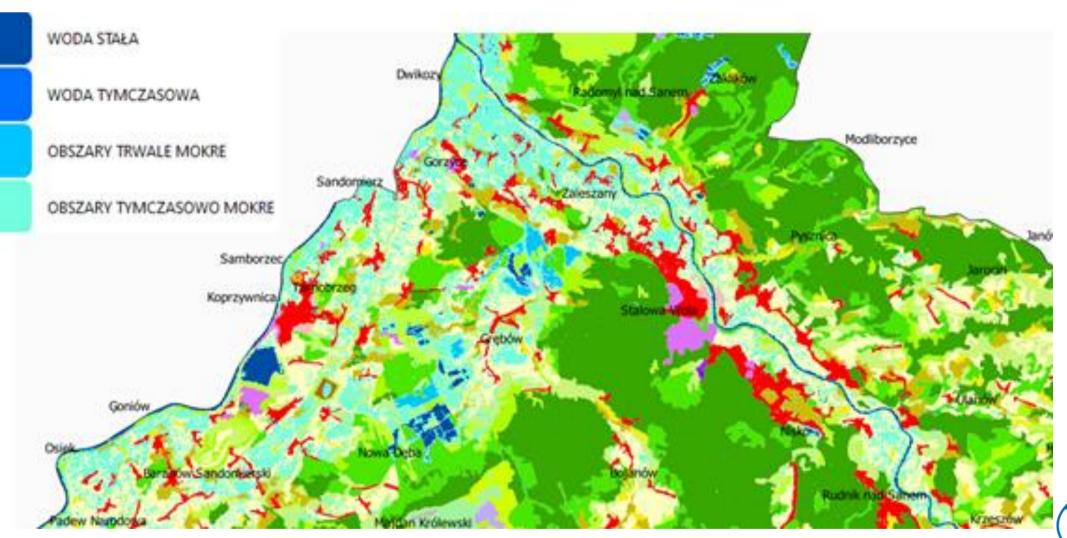






Detection of areas prone to local flooding from underground waters



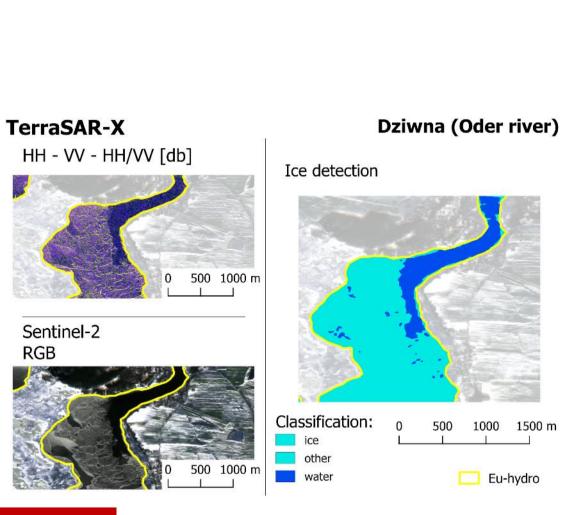


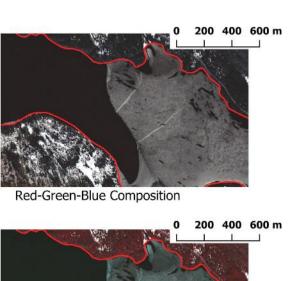


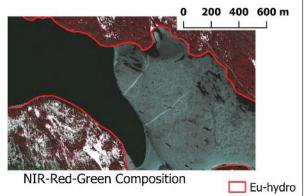


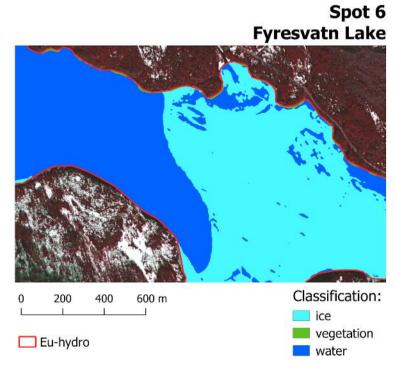
Monitoring of ice cover on rivers using VHR data









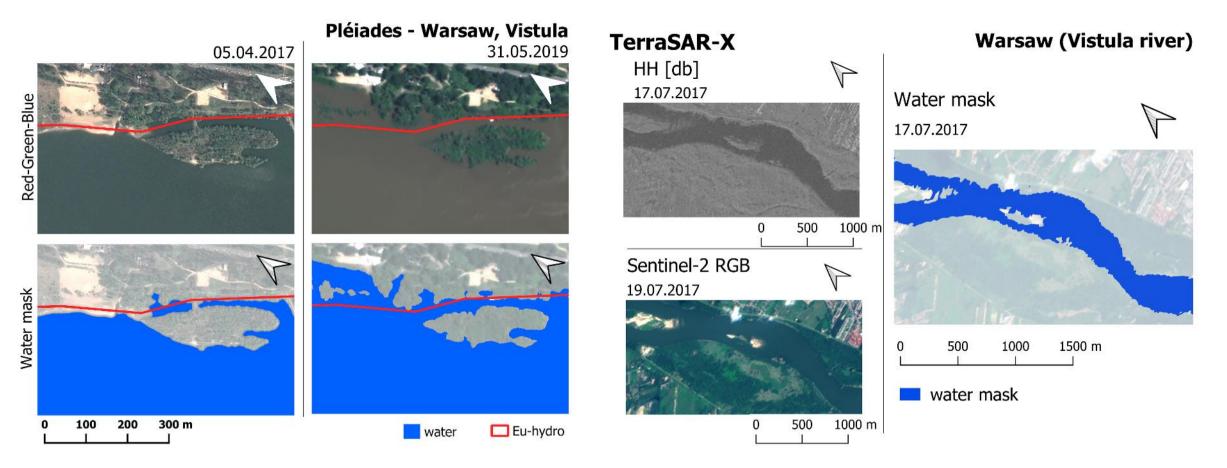






Monitoring of the actual water range using VHR data

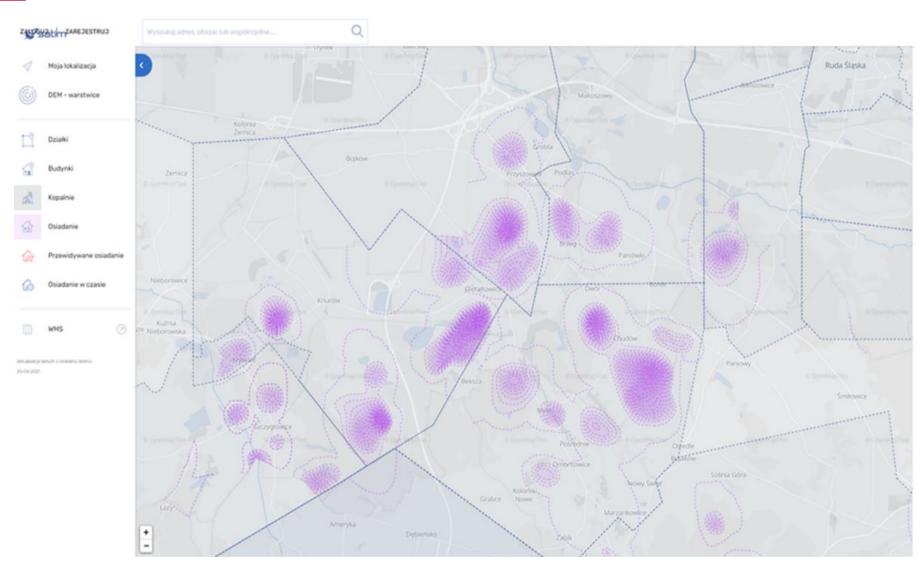






Monitoring of ground subsidence



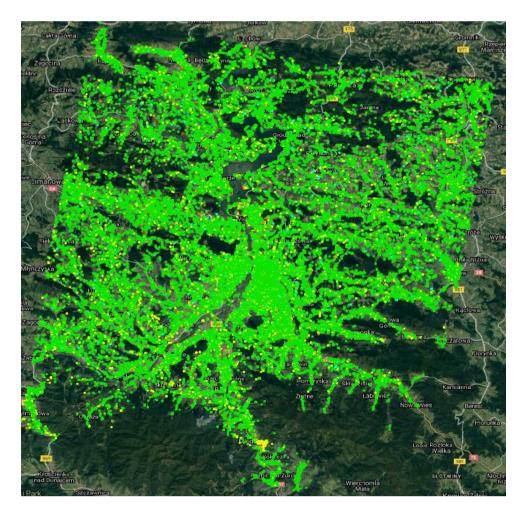


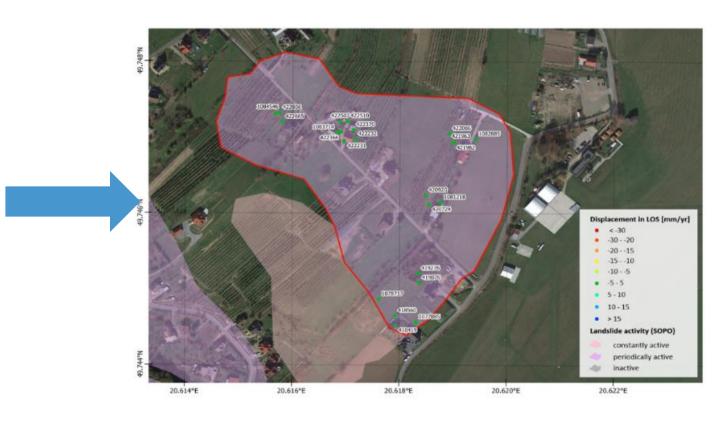




Monitoring of landslides







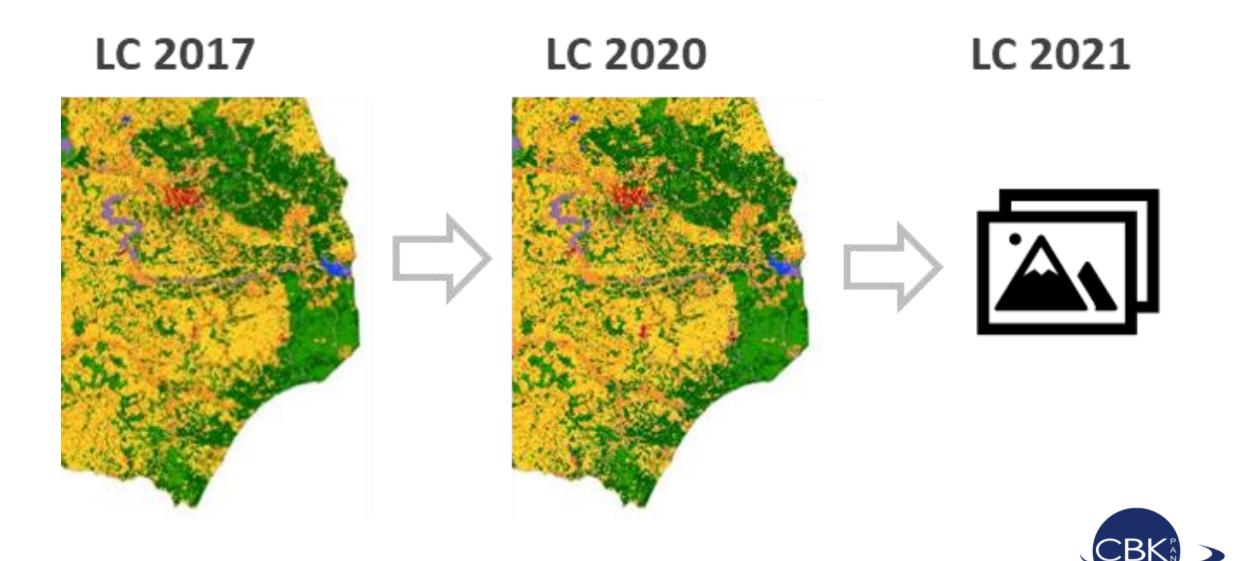






Monitoring of land cover changes in risk areas







USeEO Project funded by ESA: Custom EO tools for resilience management in Poland



Objectives:

- to develop and validate of a set of customized EO derived information products to support the different stakeholders working in the resilience sector in Poland
- verify the utility and benefits resulting from the use of these products

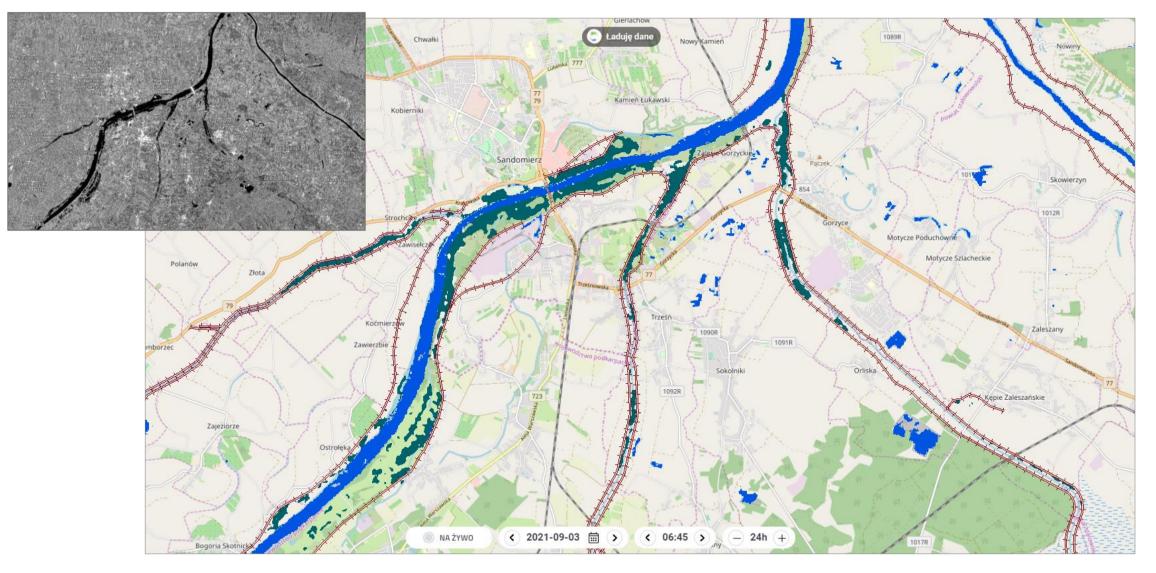
Main benefits:

- Access to operational system trough 12 months for end-user
- Accuracy and reliability of the prepared products
- Products produced form HR and VHR data
- Full support in the use of the system
- EO products tailored to end-users needs
- Ability to implement and develop the service in the future



Crisis Management Portal (SOK) - Sat4ENVI





CBK Floods product in SOK – VIII/IX 2021, Sandomierz



Crisis Management Portal (SOK) - Sat4ENVI



