

# EO Data and AI in Insurance



**Hazard** maps with **climatological reanalysis**, to assess the probability of occurrence of extreme events

**Vulnerability** assessment with **building features extraction** using aerial imagery

**Post-event** analysis, to perimeter areas affected by flood event using **satellite data**



**Land monitoring tool**  
Digital twin of flooded areas using AI and aerial imagery

**Weather generator & seasonal forecasts**  
Create different scenarios of weather variables

**Building feature extraction & vulnerability**  
Asset mapping and relationship between event magnitude and damage rate



**European Extreme Events Climate Index**  
Index of climate anomalies based on reanalysis data

**Applications**  
Climate change awareness, relationship between climate and economy, insurance, finance

Research institutes and industry **work together** on industrial **research goals**

## Adoption of Agile methodologies

No detailed planning up front, iterative and incremental approach

Frequent feedback from the business