Analyzing geo risks worldwide

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Agenda

PART 1: Peter Hausmann, Swiss Re
  • Geo risks and insurance
  • Insurance goes digital
  • Challenges in risk assessment

PART 2: Markus Wissing, con terra
  • Geo risk management: situation and solution
  • Demo: Geo Risk Analyzer
Insured & uninsured losses > USD 45m per year

Economic losses = insured + uninsured losses
Source: Cat Perils and Swiss Re Institute.
Natural hazard losses > USD 45m 1970–2016

source: Swiss Re Institute
Insurance goes digital – locate your insured values => globally well on track

Example: Flood zone in CatNet®
Challenge: Assess portfolio of a global company
=> Swift process required (e.g. Swiss Re CatNet® Services)
Challenge: Number of available hazard data sets

- Different digital terrain models
- Calculation approach (hydrological, hydrodynamic, geo-statistic …)
- Validation process
- ...

- FEMA
- Swiss Re GFZ 2.0
- Factory Mutual

e.g. flood risk
Challenge: How to deal with large sites?

Google Maps, CatNet®, FEMA
Challenge: How to take protection measures into account?

- chemical plant
- protection dam
- protection wall
Challenge: How to take related impacts into account?
Conclusions global geo risk assessment

An efficient, general analysis is already possible!

- Geo-reference your insured locations
- Visualize them in geo tools
- Use (global) hazard and event data sets to analyse risks
- Integrate geo tools in business or modelling services to dig deeper

We are at the beginning of a new era …
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Thanks for your attention!

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