FIG REGIONAL CONFERENCE 2024 REGIONAL GOVERNMENT Responsive Land Governance and Disaster Resilience: Safeguarding Land Rights



Comparision 9: The Impact of Climate Risks on the Value of Real Estate Properties

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Climate change is no longer just a scientific discussion, but is now also a very real influencing factor for real estate valuations!

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Do real estate valuers have an answer to this?

Is there an answer?

Is there one answer?

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But we need an answer when valuing an individual property!

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CLEAN WATER AND SANITATIO





- In view of new climatic conditions, there are several aspects for valuers that should be given greater consideration in future valuations:
- **Regional risk assessment:**
- It is crucial to consider climate risks in a region-specific
- perspective. Coastal regions, river basins and cities are
- affected to varying degrees by flooding, heat waves or

storm damage. A location analysis is therefore essential.









against natural hazards can play a role here.

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- **Construction costs and maintenance:**
- Future repair costs could rise as a result of climate
- change. When determining the value, valuers should carefully check whether properties are adequately
- protected or whether higher maintenance costs due
- to climate damage need to be factored in.









with regard to future climate changes.

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- Which tools exist to measure the impact of
- climate risks on real estate?
- **Geographical Information Systems (GIS)**
- For example, elevation models to assess flood risks
- **Natural Risks Analyzing Systems**

Used by insurance companies, banks, e.g. K.A.R.L. in Germany





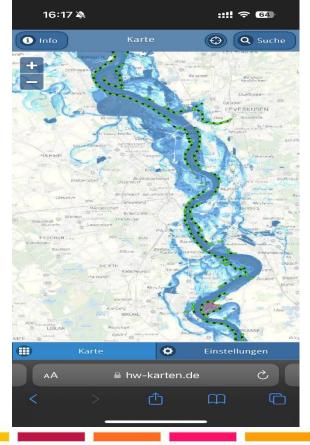






Example of a flood risk map

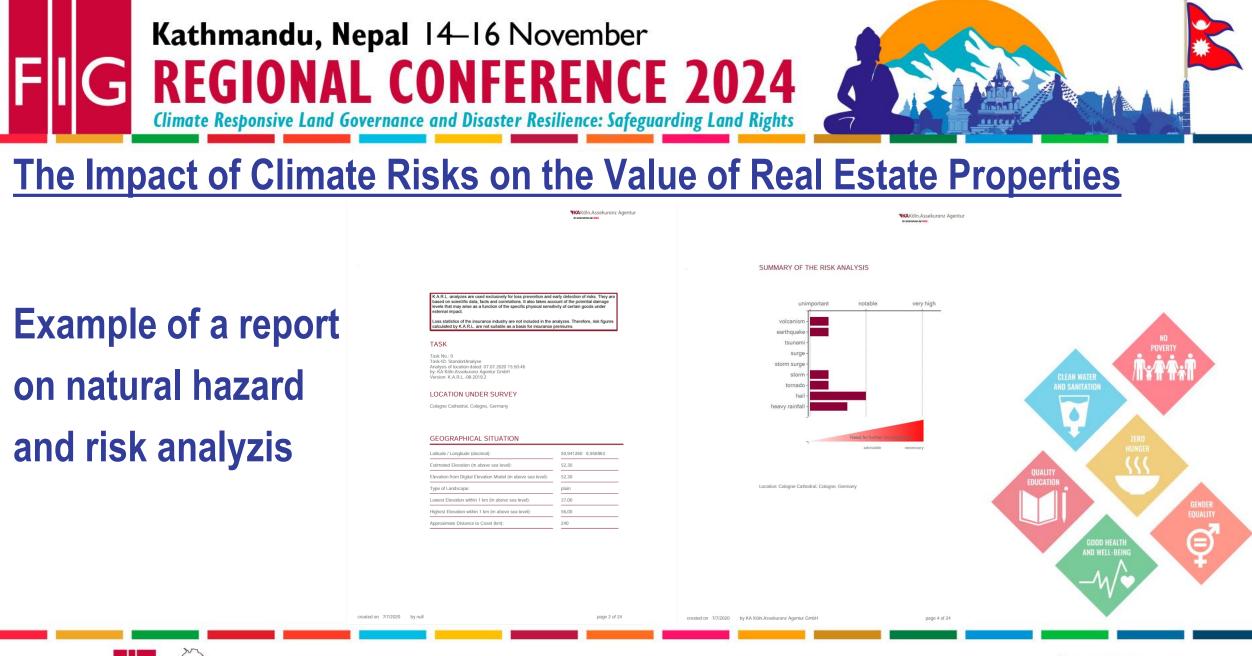
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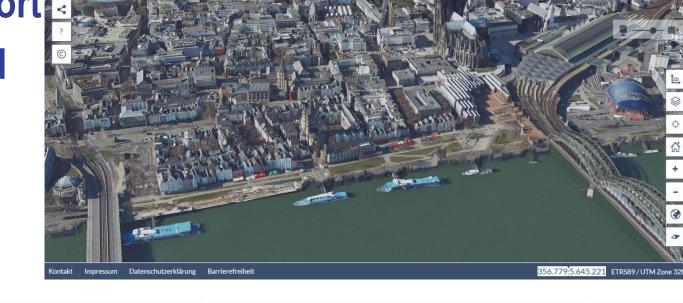


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These instuments help us to proactively categorize areas as "prone" or "save", but won't deliver an answer on the tangible impact on real estate prices.











Is the EU Taxonomy a solution?

Within the framework of the European Union's sustainability strategy, a concept for ecologically sustainable investments is required by the EU-Taxonomy 2020/852.

Six environmental targets overall were defined which should be improved and attained by appropriate economic activity.

These are:

- 1) Climate change mitigation
- 2) Climate change adaptation
- 3) Sustainable use and protection of water and marine resources
- 4) Transition to a circular economy
- 5) Pollution prevention and control
- 6) Protection and restoration of biodiversity and ecosystems

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- Market transparency and transaction data may be the solution, in two ways:
- to determine the change in property prices in climate (natural) risk areas compared to climate risk safe areas and / or to identify changes in property prices after a natural disaster compared to property prices before this





There are studies on the influence of climate risks ...

especially on floods, which say:

"The mere existence of flood risks does not always translate into actual price changes, as markets react to such risk in various ways" (Problem of Method 1)







Because following factors are particularly important:

- Scope of flood-damage events Frequency of flood-damage events
- **Demand for property**

Investor awareness and the unpriced flood-costs







Because following factors are particularly important:

Example for unpriced Flood cost



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Several studies in Germany say, that property prices fall by an average of 10% in previously flooded areas.



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Kathmandu, Nepal 14-16 November **REGIONAL CONFERENCE 2024 Climate Responsive Land Governance and Disaster Resilience: Safeguarding Land Rights** Let's take a detailed look at the valuation properties in flood risk areas: Adress flood risk areas and the scope of floods sing Comparables Determining the functional obsolescence of a









Vice versa, this means that a property valuation based on transparent data, carried out in a transparent way can also be climate protective. (if these valuations will be in turn integrated into the available data)



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The discussion may now begin



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