#### **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





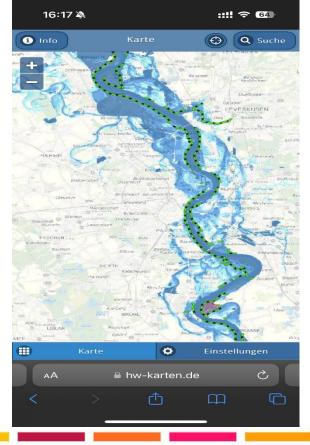






## Example of a flood risk map

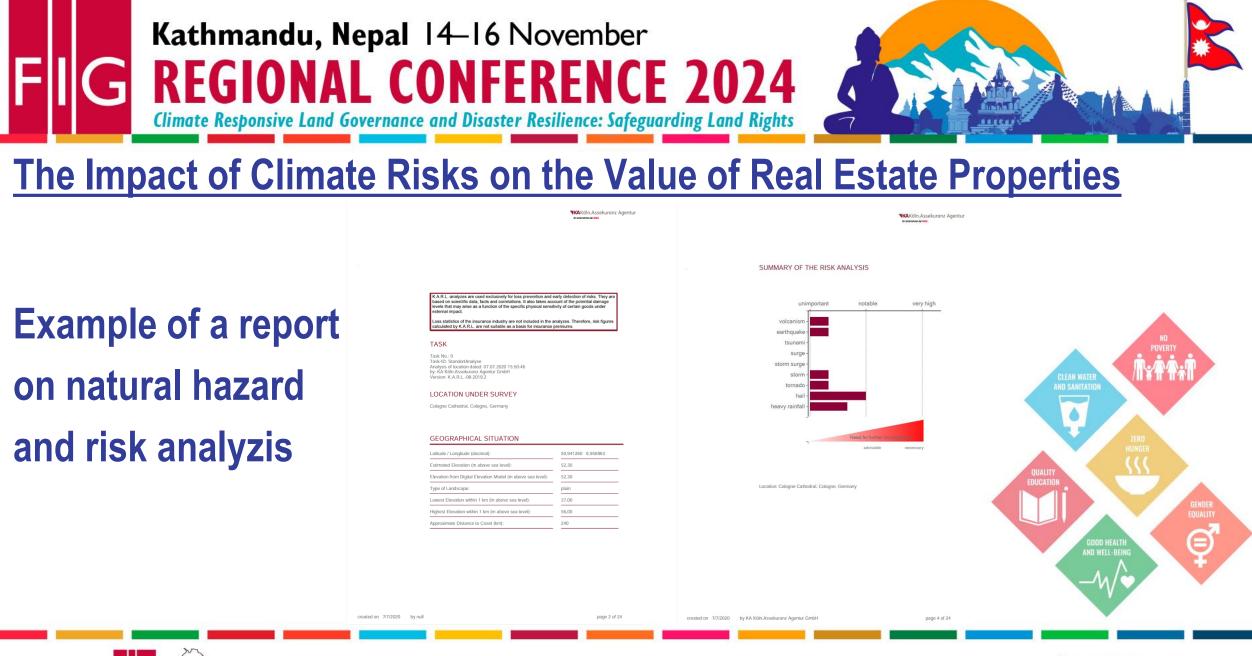
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These instuments help us to proactively categorize areas as "prone" or "save", but won't deliver an answer on the tangible impact on real estate prices.











### 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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