



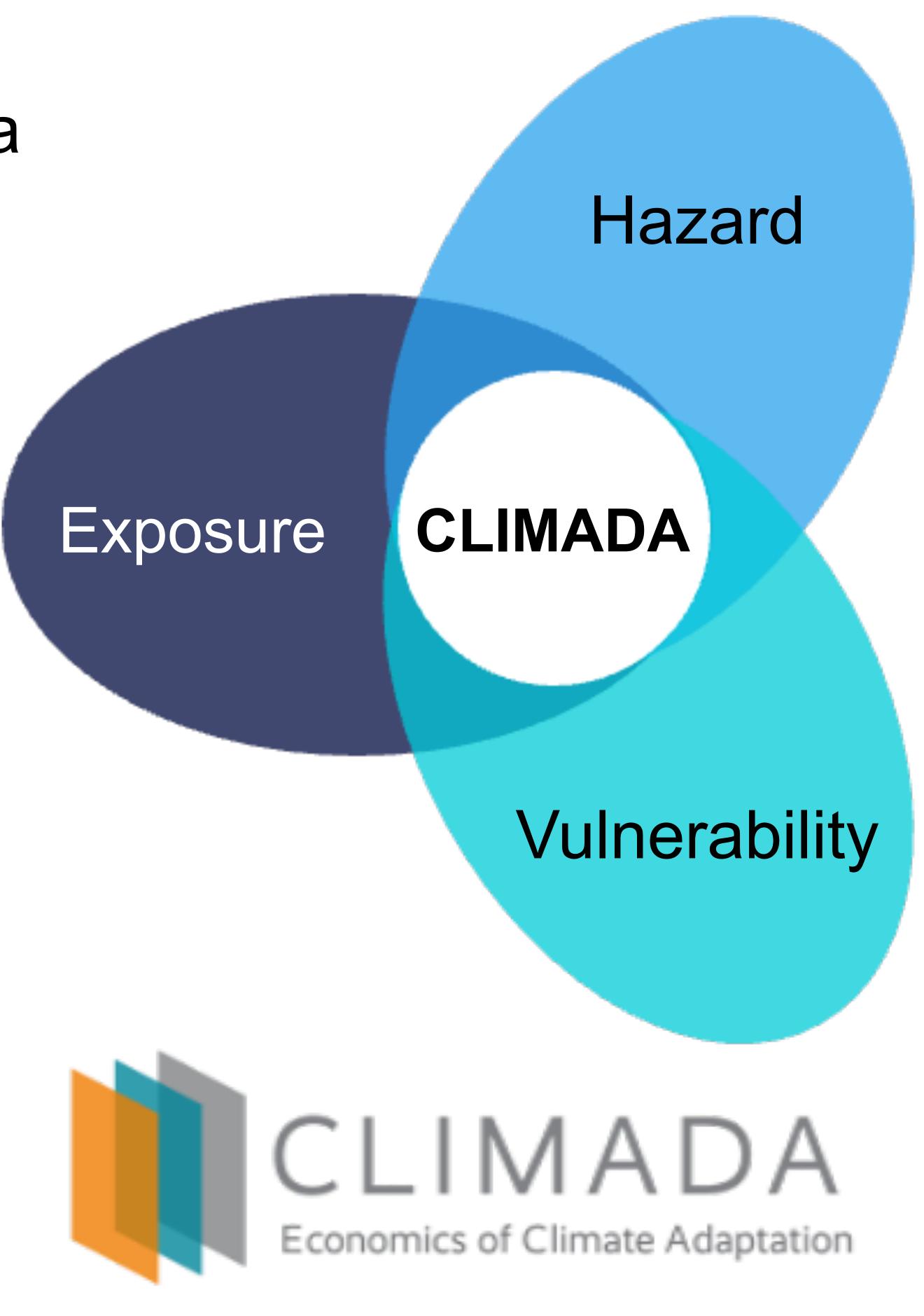
#### Project Overview

#### Goals

- Develop open-source river flood inundation model based on open data
- Forecast river flood impacts on short- to medium-range time scale
- Support anticipatory action and disaster relief efforts

#### Data Sources

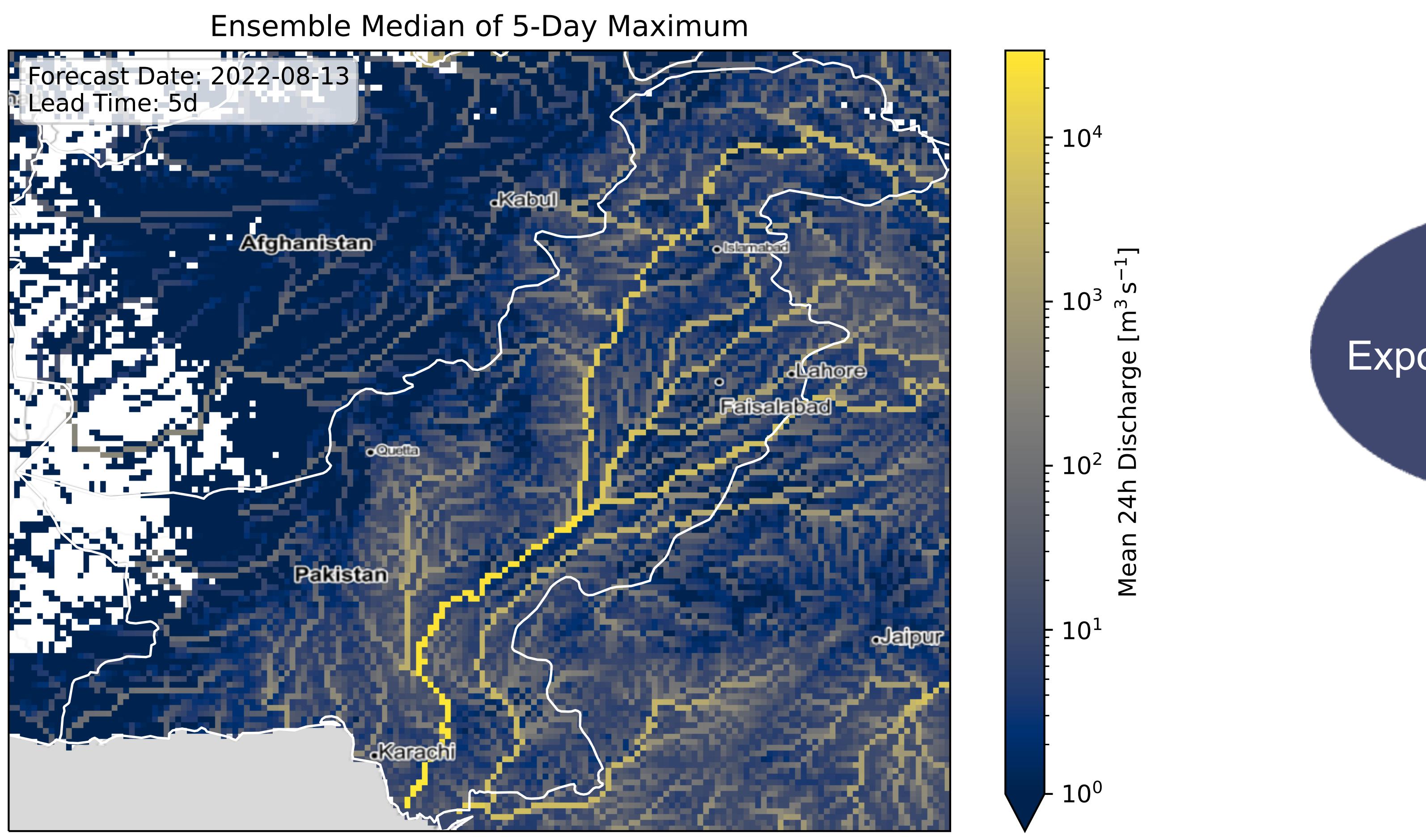
- GloFAS river discharge (Copernicus Climate Data Store)
- Flood hazard maps (EC JRC Data Catalogue)
- Gridded Population of the World, NASA Black Marble

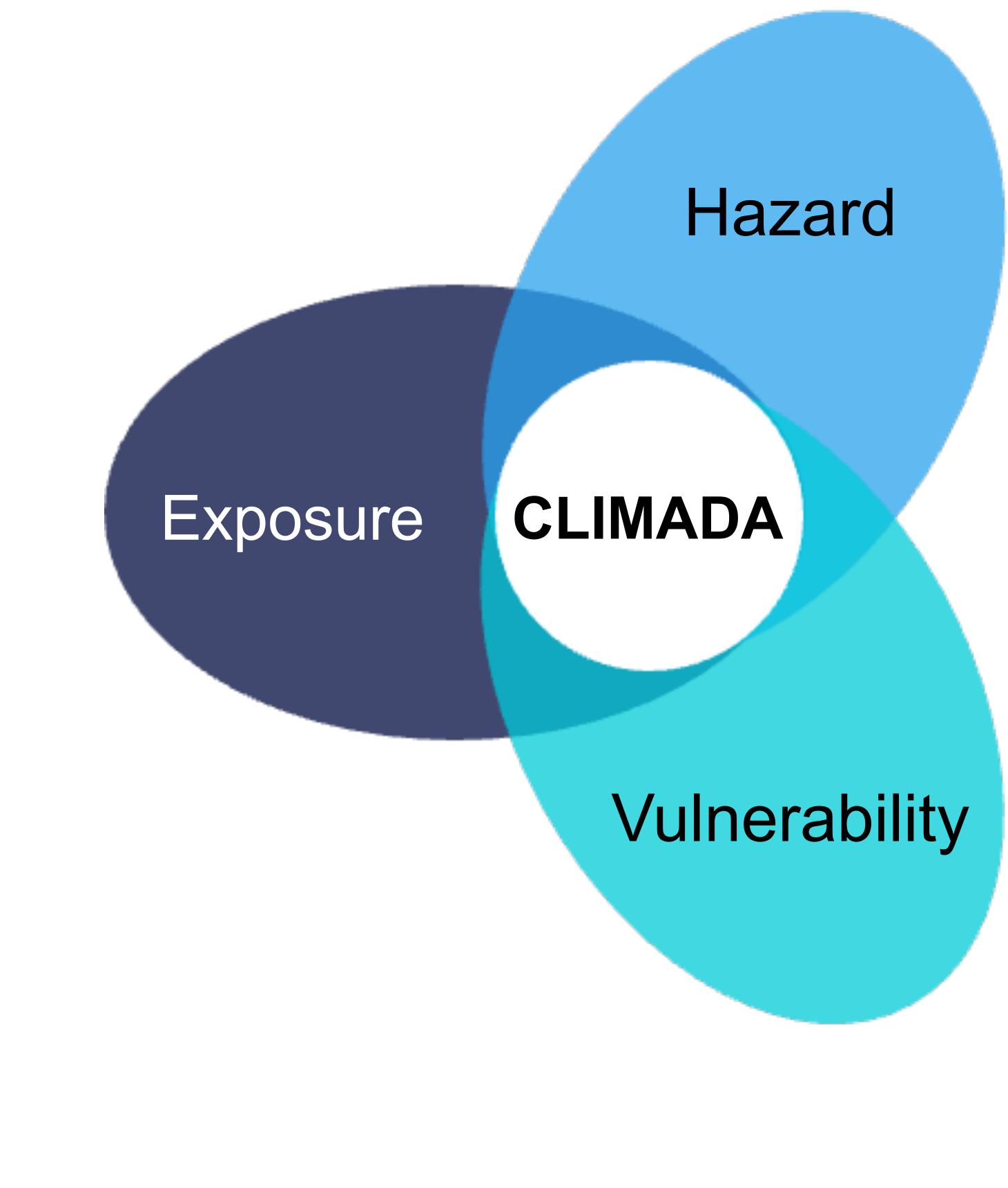




Pakistan 2022 Flood Showcase

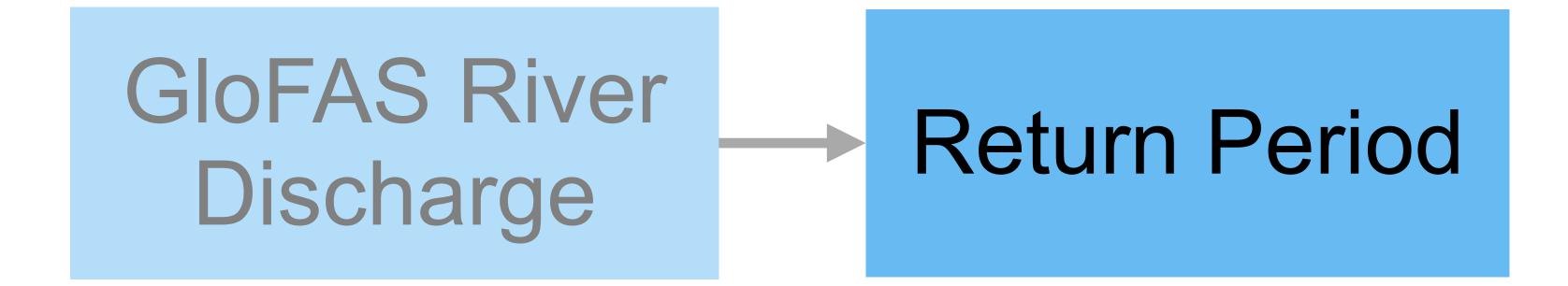
GloFAS River Discharge



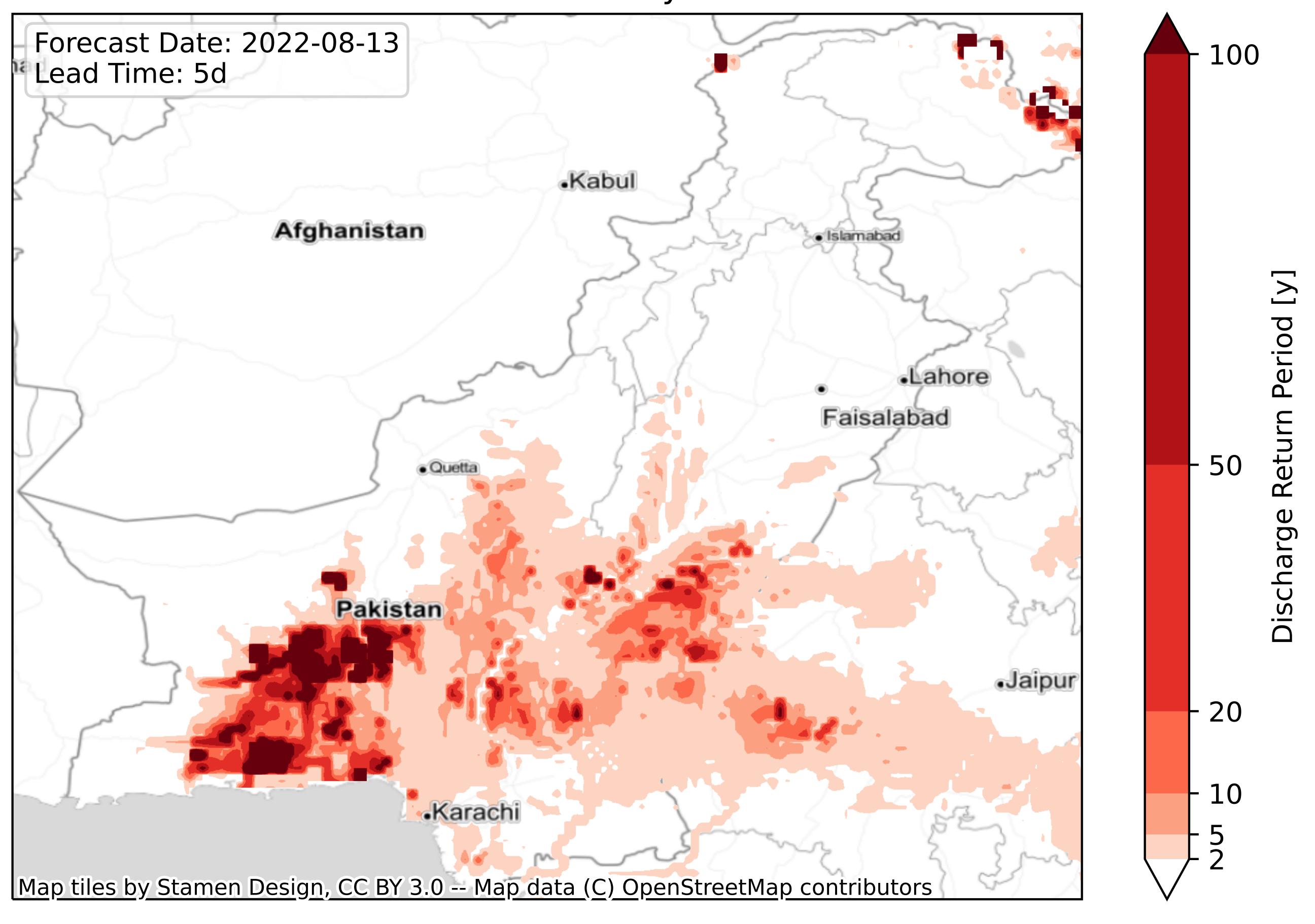


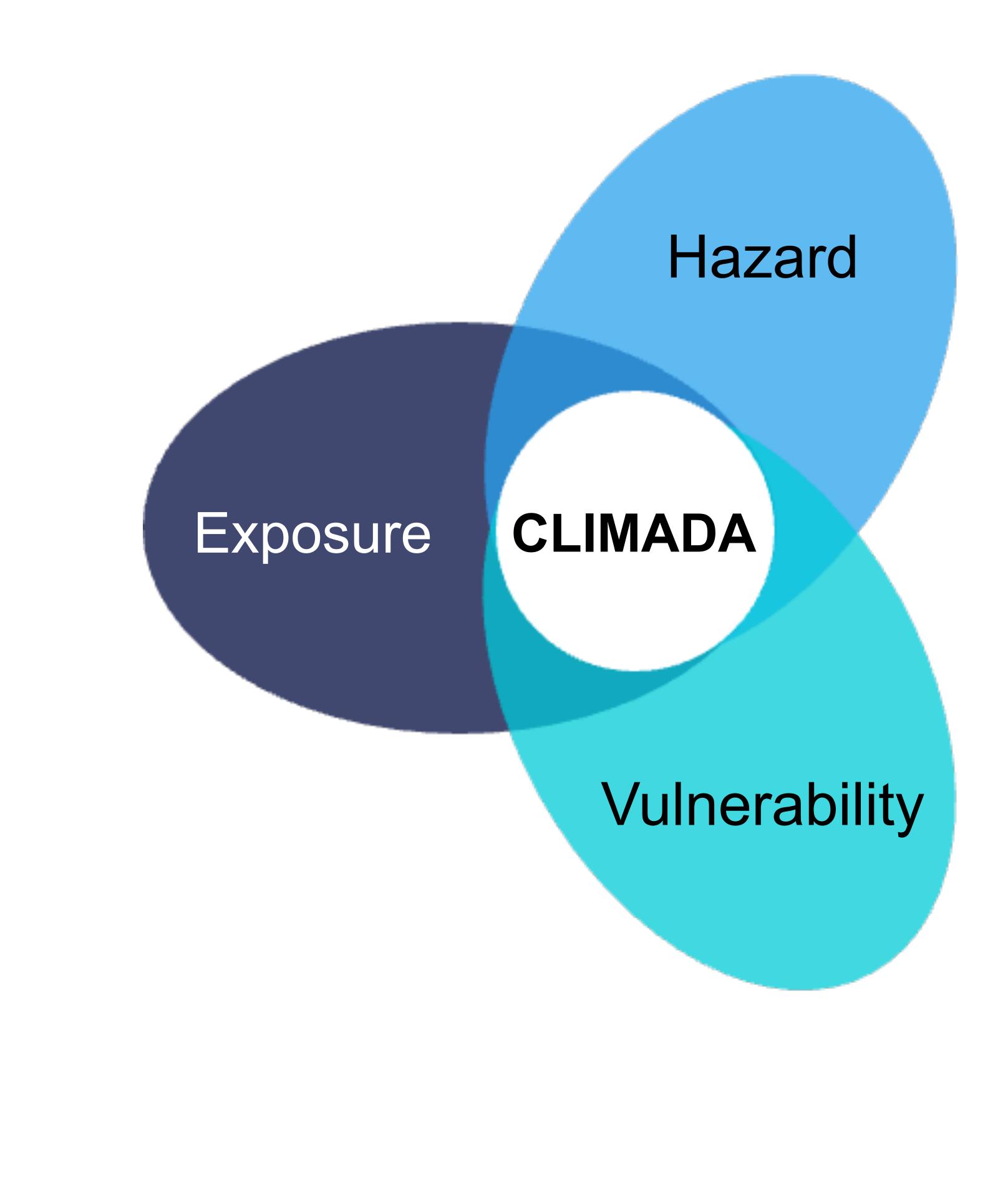


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#### Ensemble Median of 5-Day Maximum



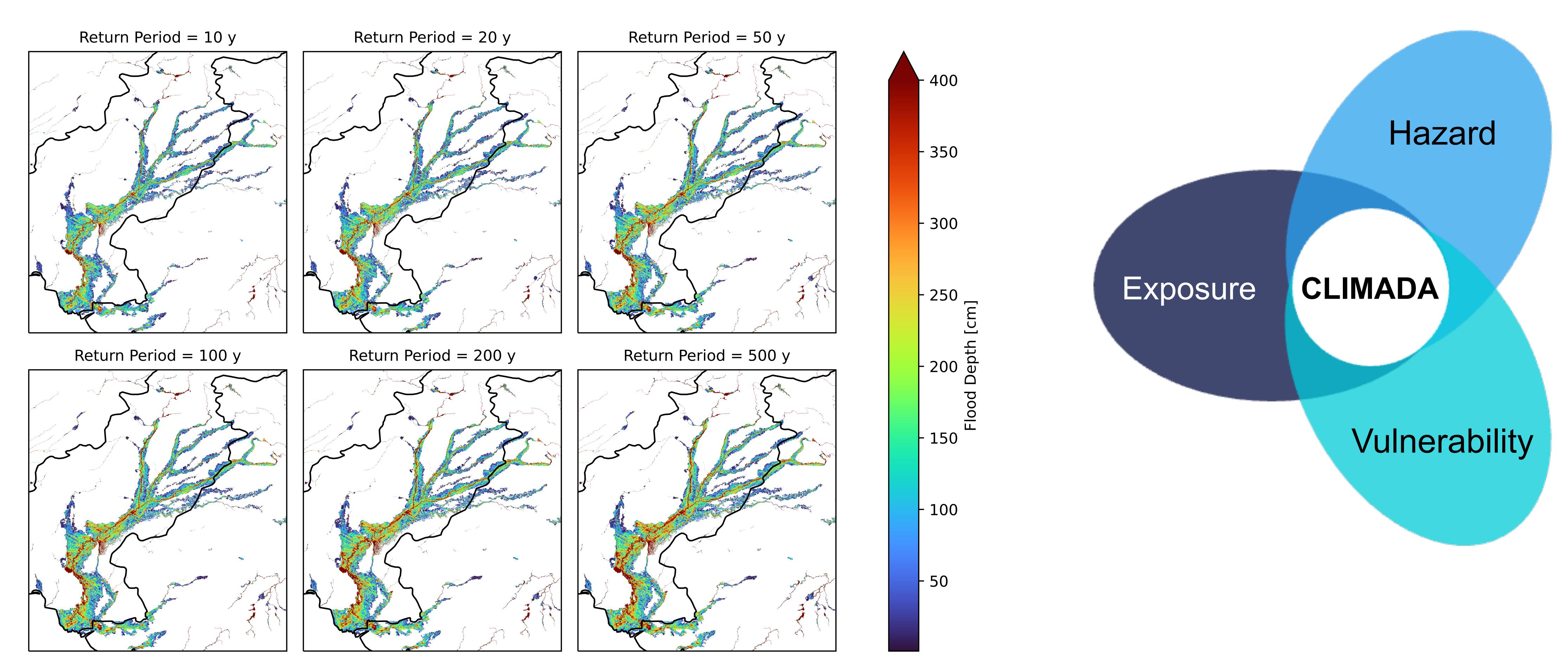




Weather & Climate Risks

## Flood Impact Calculation: Potential Displacement of Population Pakistan 2022 Flood Showcase

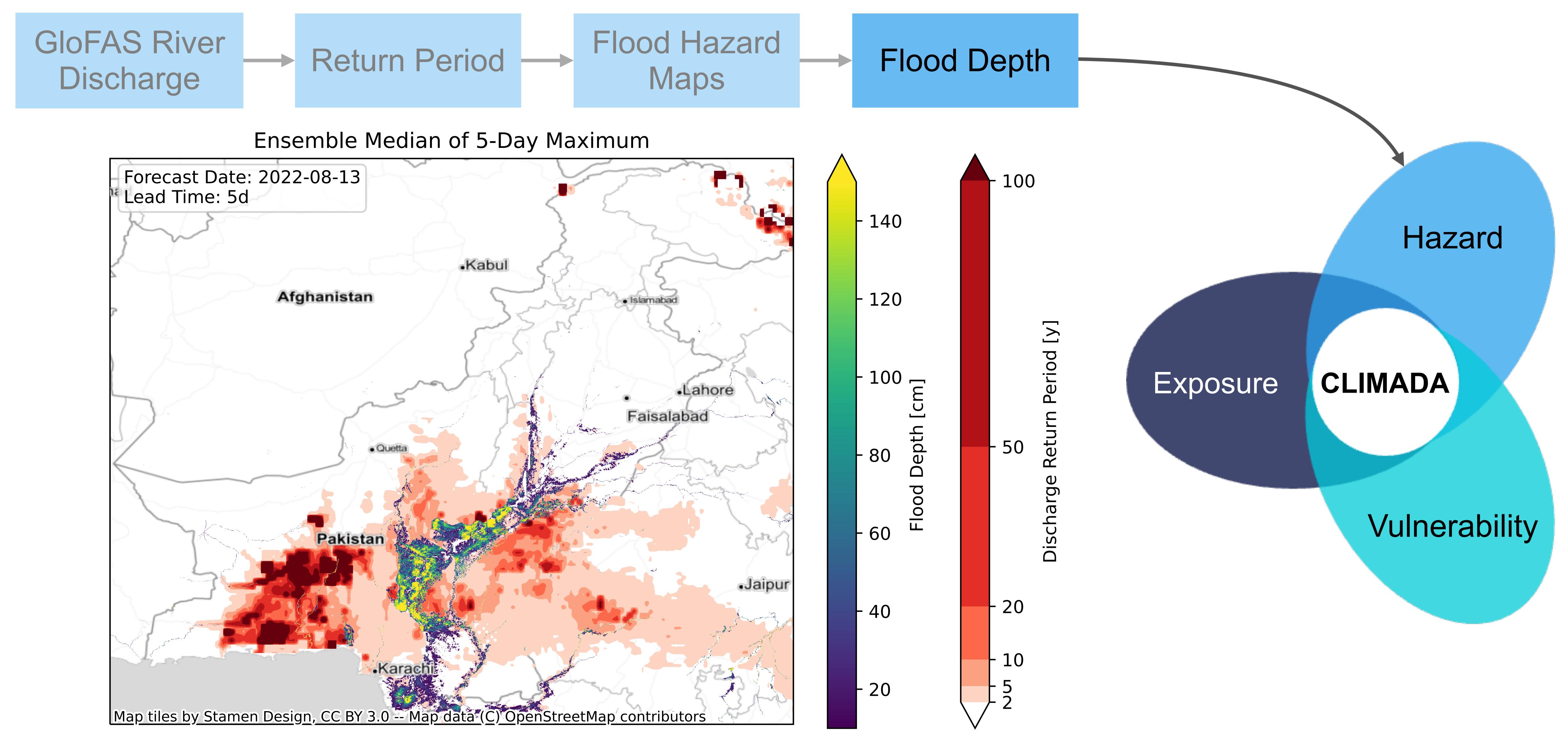




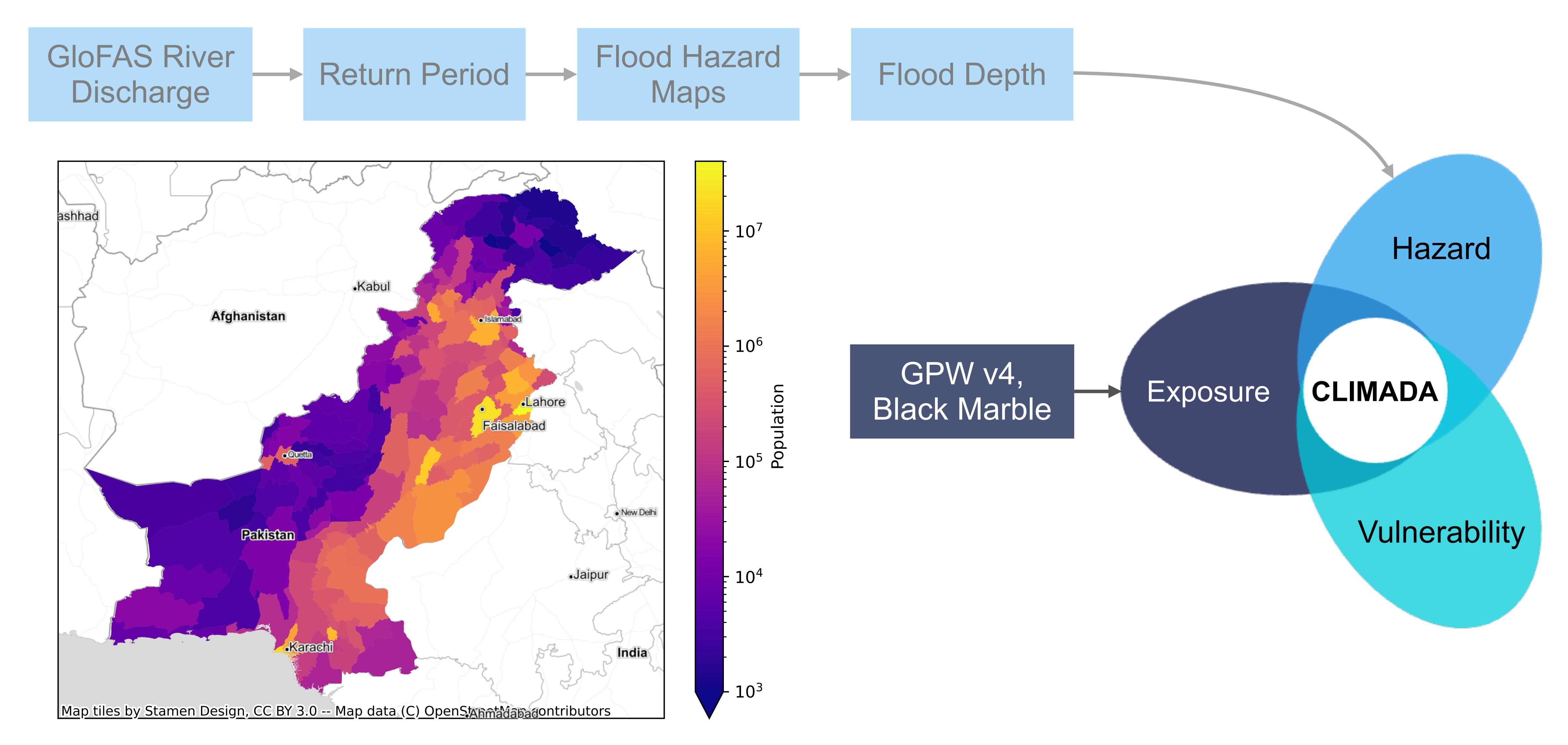


Weather & Climate Risks

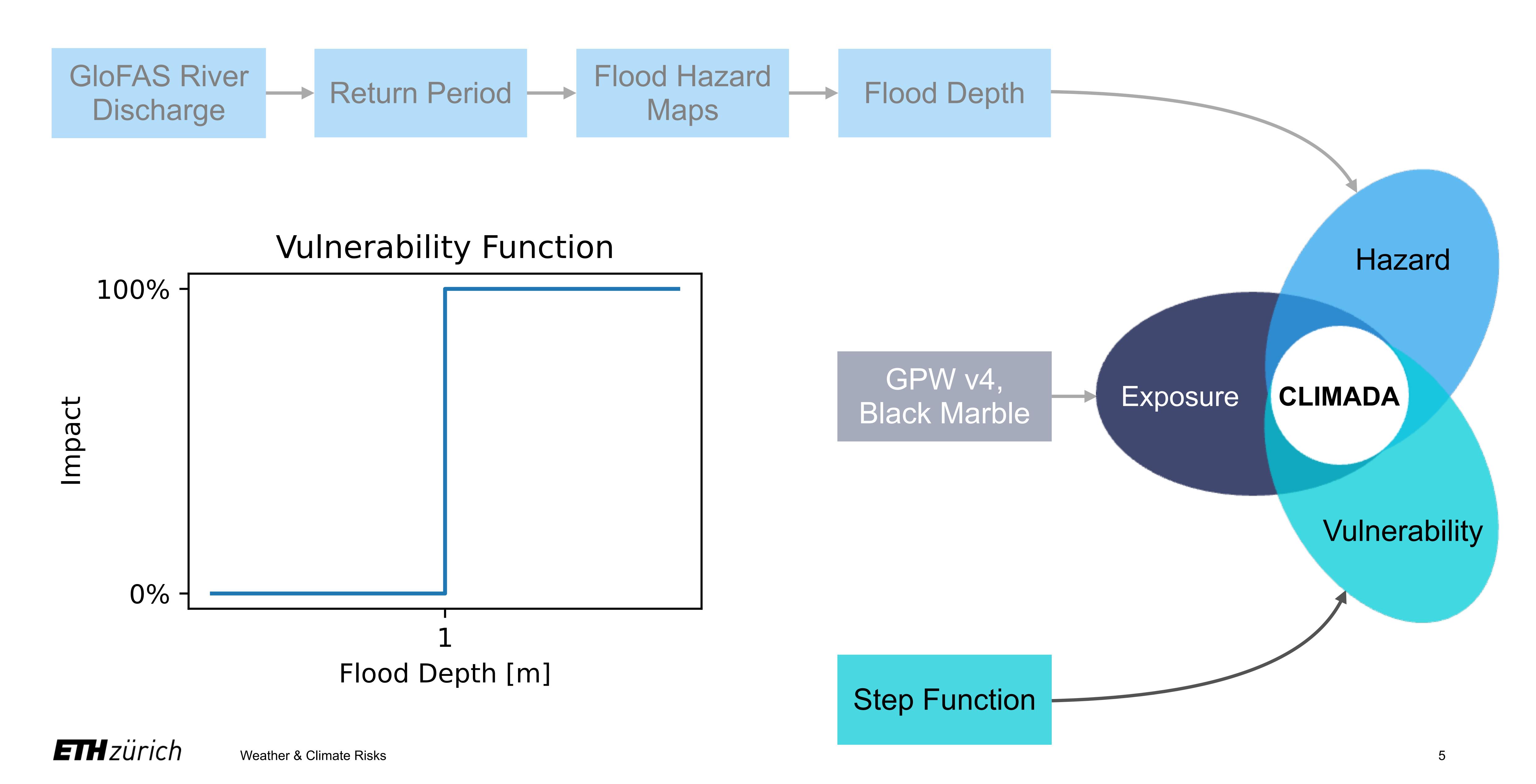
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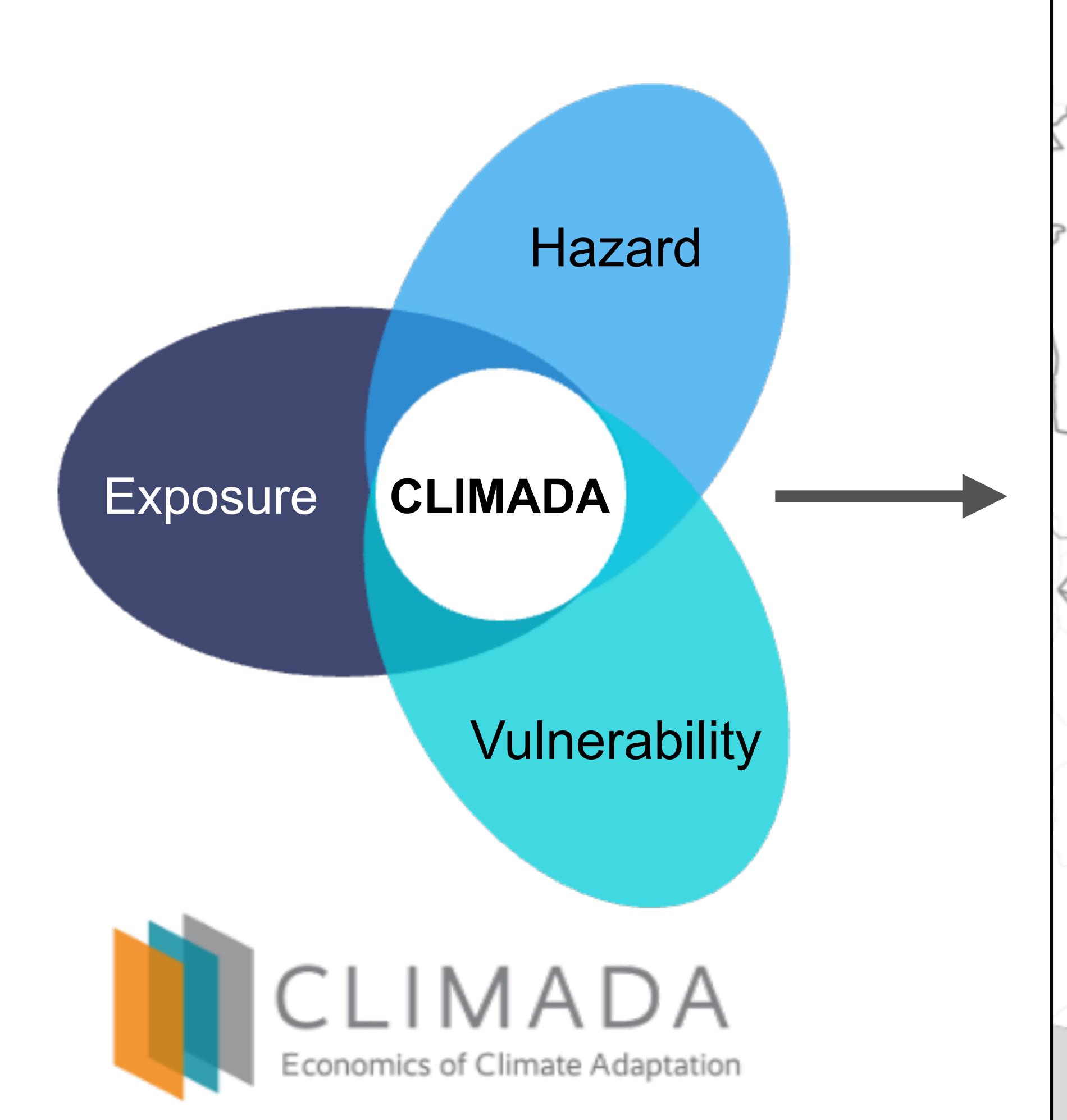
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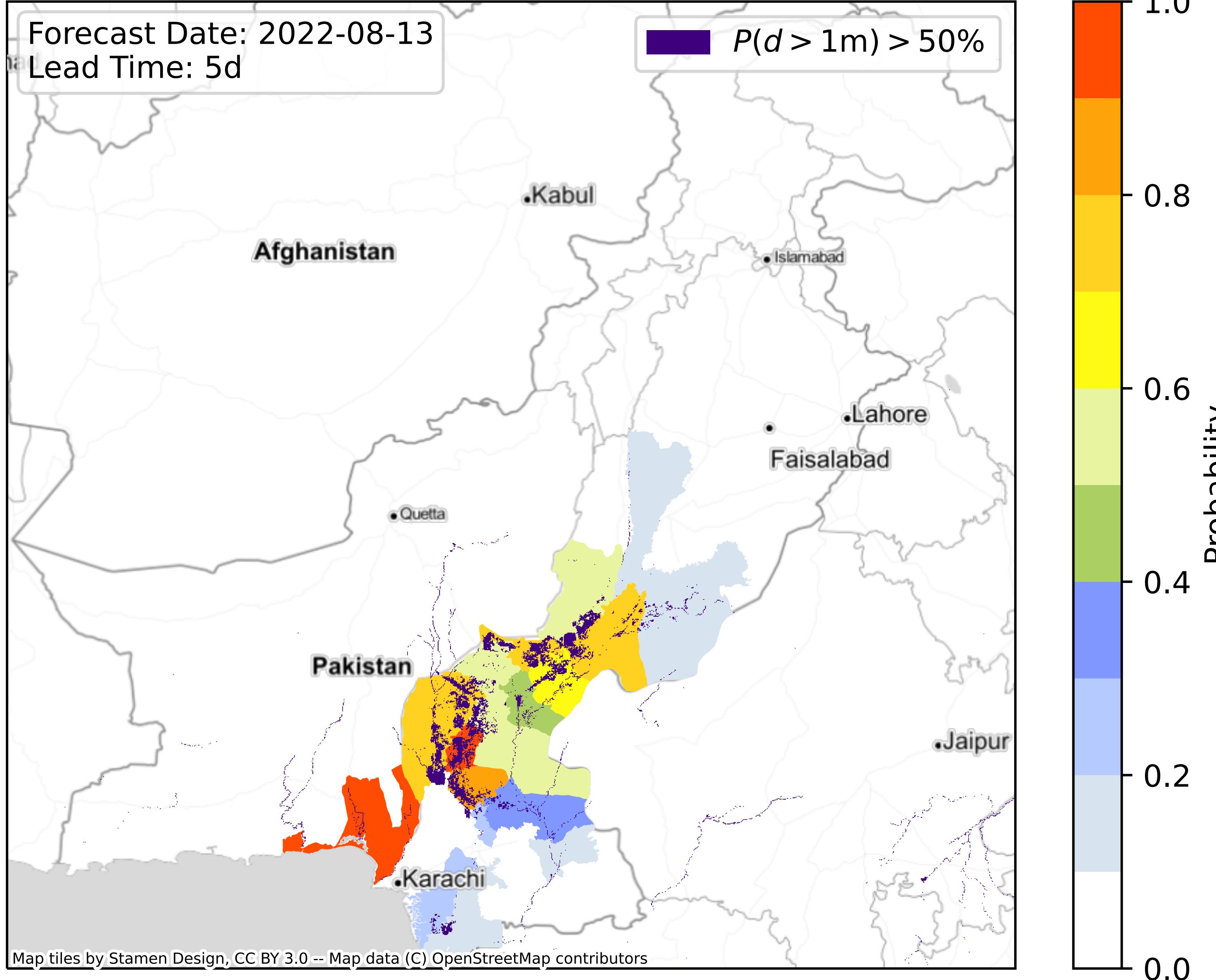
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# Flood Impact Calculation Pakistan 2022 Flood Showcase



#### >10% of Population in Danger of Displacement





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