

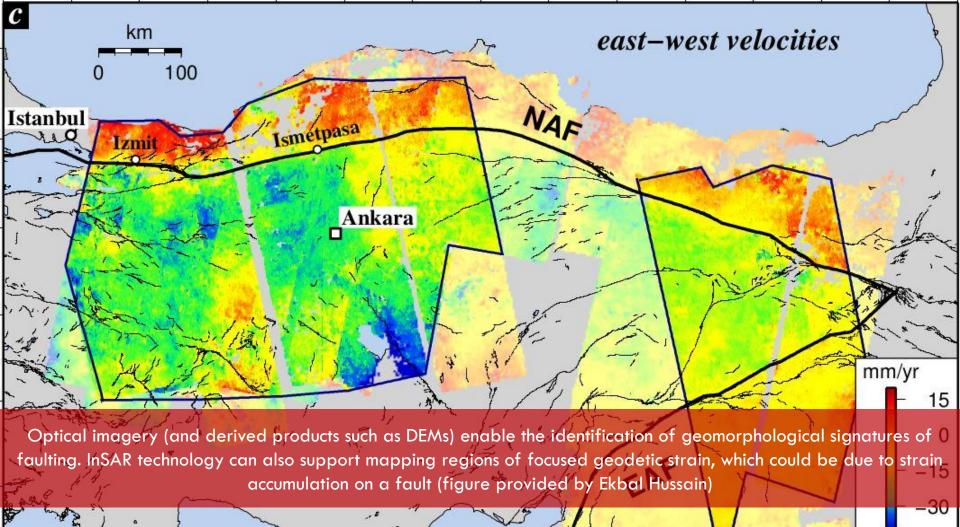
2101: A Disaster Risk Odyssey

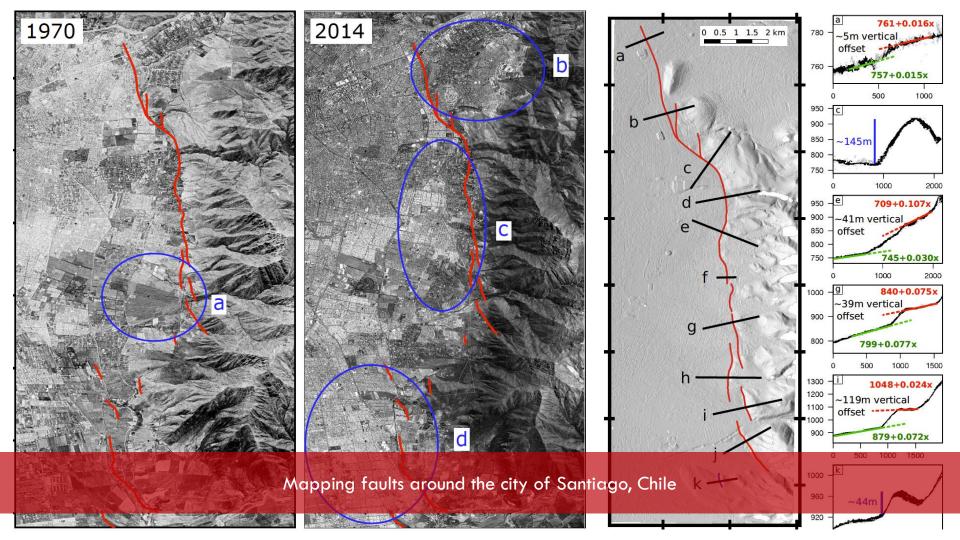
Vitor Silva, Global Earthquake Model Foundation

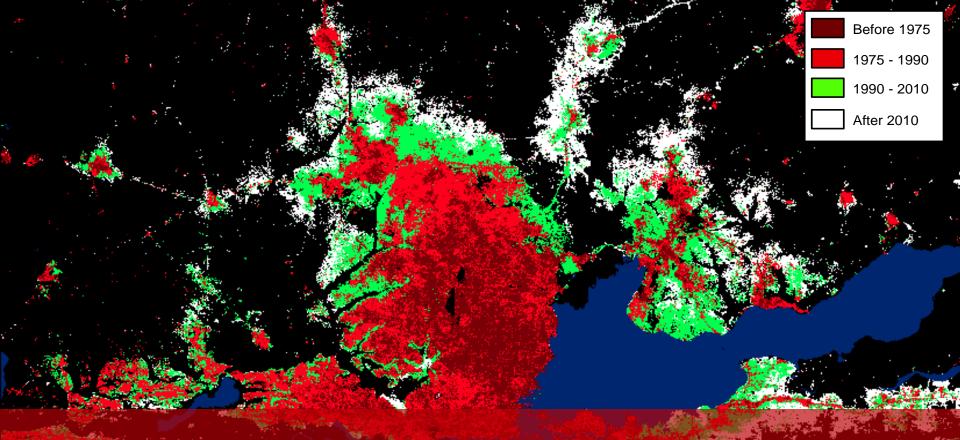




Vulnerability

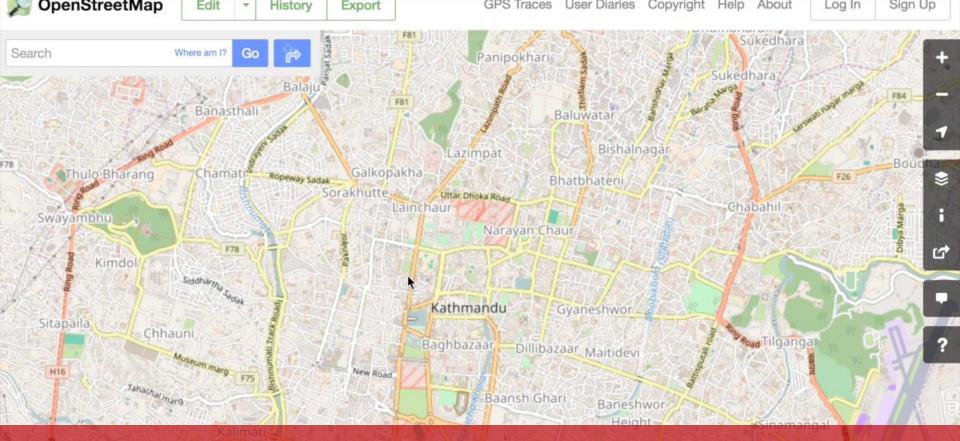






Recently released satellite data provides urban footprints according to the vintage. It can support the development of new exposure datasets, or the improvement of the spatial resolution of existing datasets.

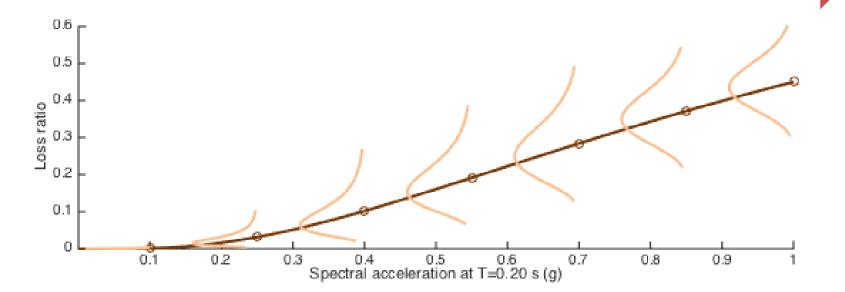
20 Kilometers



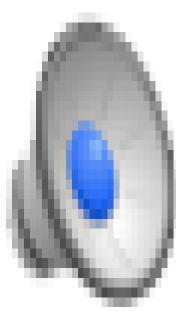
Crowd sourcing initiatives such as OpenStreetMap will revolutionize disaster risk assessment and management, granted that the level of detail of the structures features can be improved.

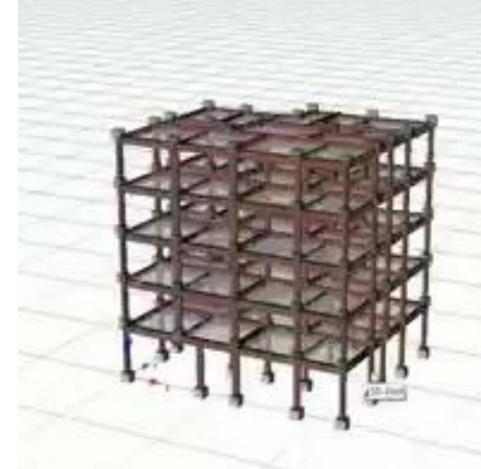


Hazard Intensity

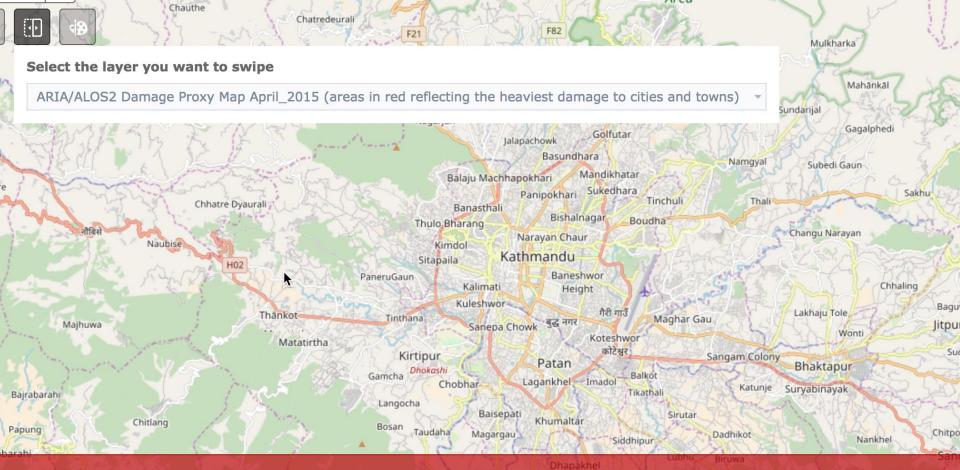


Insufficient empirical data





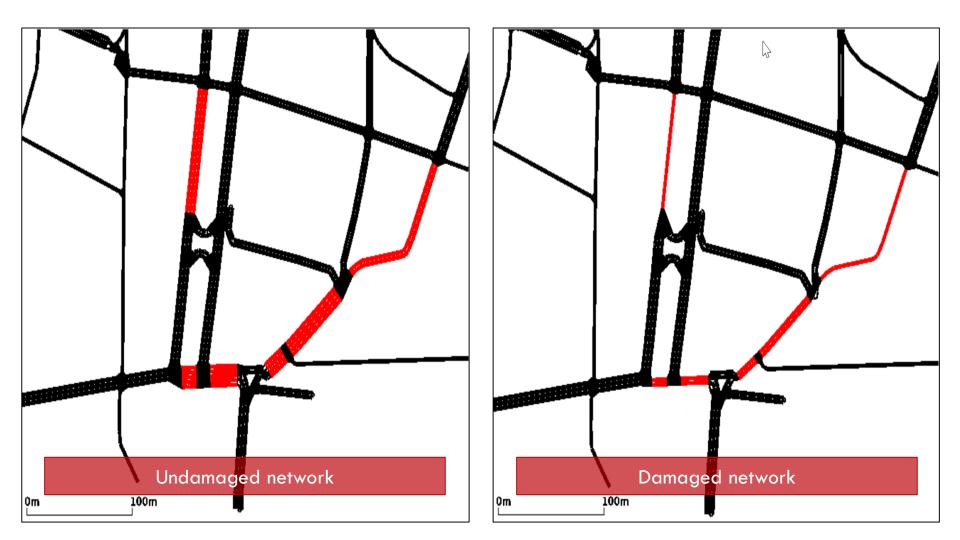
Incomplete analytical models

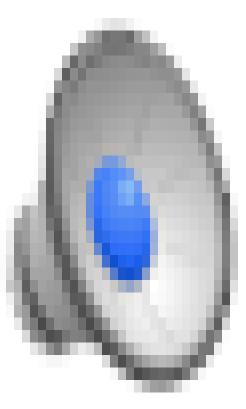


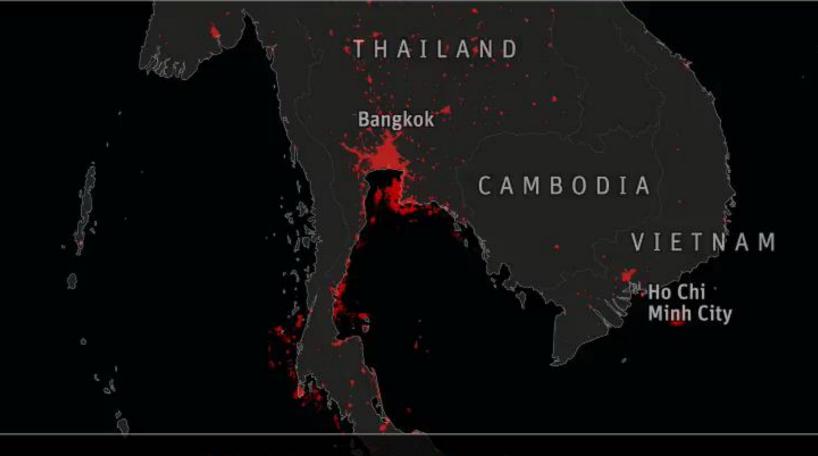
ailed data obtained via remote sensing, aerial imagery or drones will allow a better understanding of the spatial distribu for damage, and through machine learning, an improvement of the existing vulnerability models.

Thecho



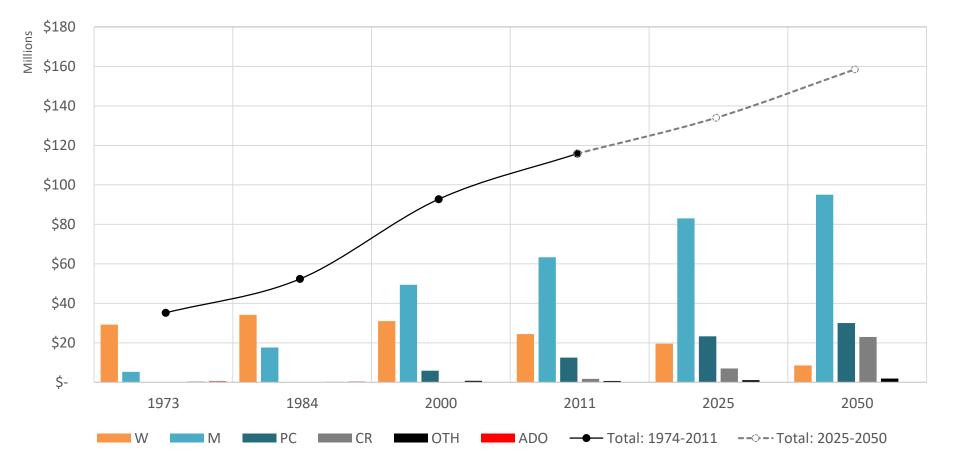






1992 Existing Light 1992 Light New Light

Prediction of the evolution of seismic risk (economic losses) for Costa Rica





Current and future technology will radically change the way in which disaster risk assessment is performed. Models and datasets are expected to be more accurate, reliable and up to date.

The future of risk modeling is bright. Thank you