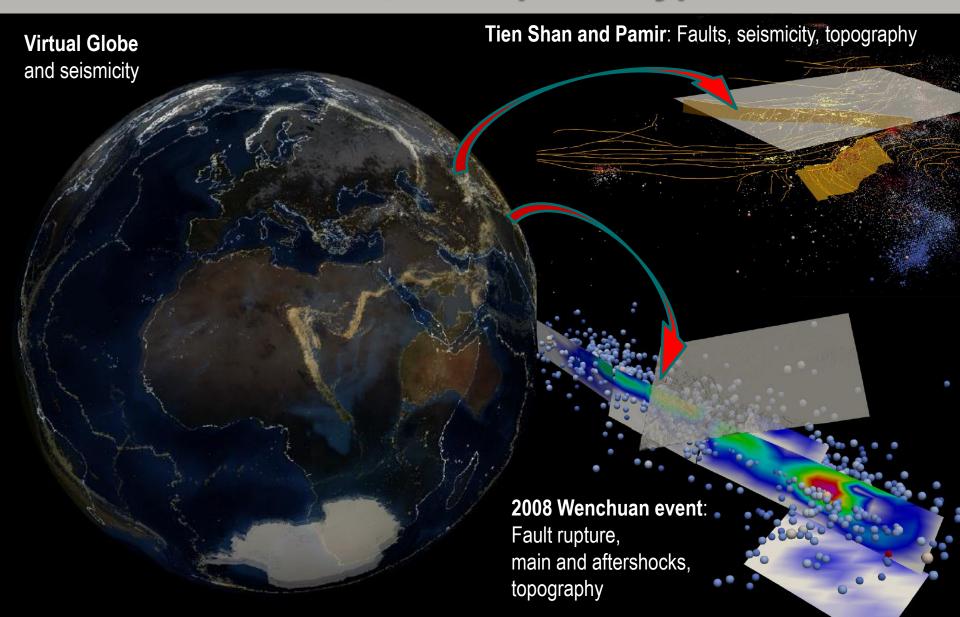
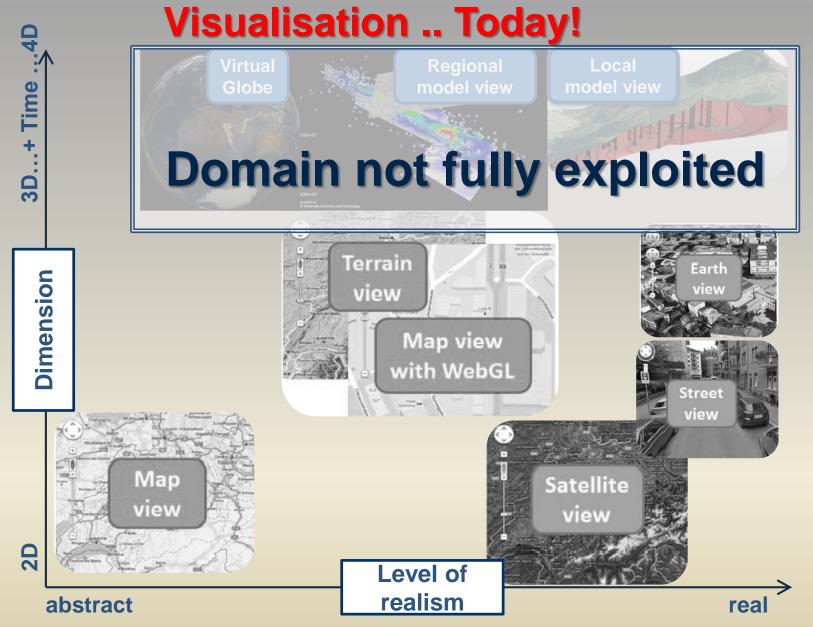
Models will soon be connected to a Virtual Globe with fault models, earthquake hypocentres...

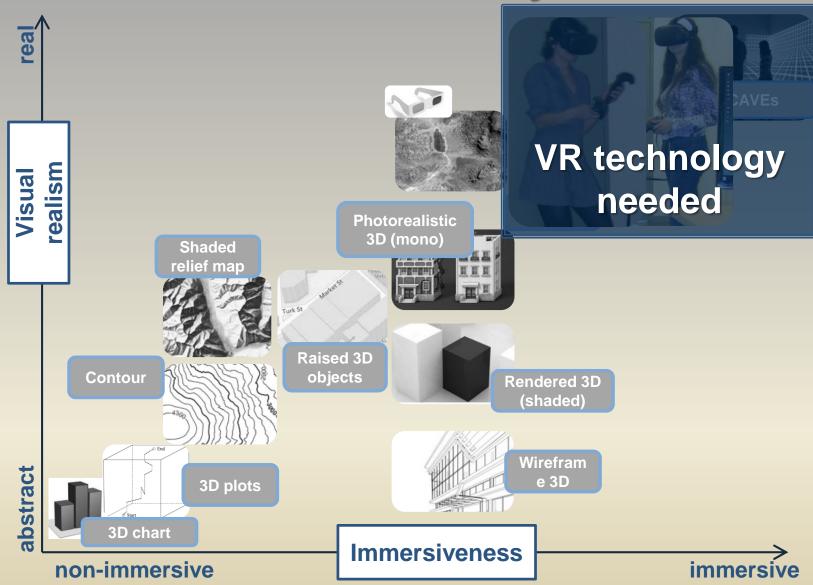




Modified from

Boér, A., **Çöltekin, A.**, & Clarke, K. C. (2013). Evaluating Web-based geovisualizations online: A case study with abstraction-realism spectrum in Focus. In *International Cartographic Conference, ICC 2013, Dresden, Germany*. Dresden.

Visualisation .. Today!



Modified from

Boér, A., **Çöltekin, A.**, & Clarke, K. C. (2013). Evaluating Web-based geovisualizations online: A case study with abstraction-realism spectrum in Focus. In *International Cartographic Conference, ICC 2013, Dresden, Germany*. Dresden.

Serious efforts needed to be able to work in 3D+time .. at regional and local scale. ...

Numerical models of coupled hazard processes for local short term prediction Millio **Process Analysis** complexity **Domain of Hazard Process Models - Scenarios** representable and understandable with classical Visualisation tools

Probabilistic scenarios using numerical models of coupled hazard processes for regional long term prediction

VR-extended Domain of Hazard Process Models and Scenarios representable and better understandable through joint immersive analysis

Probabilistic models of single hazard processes for regional long term prediction

Local

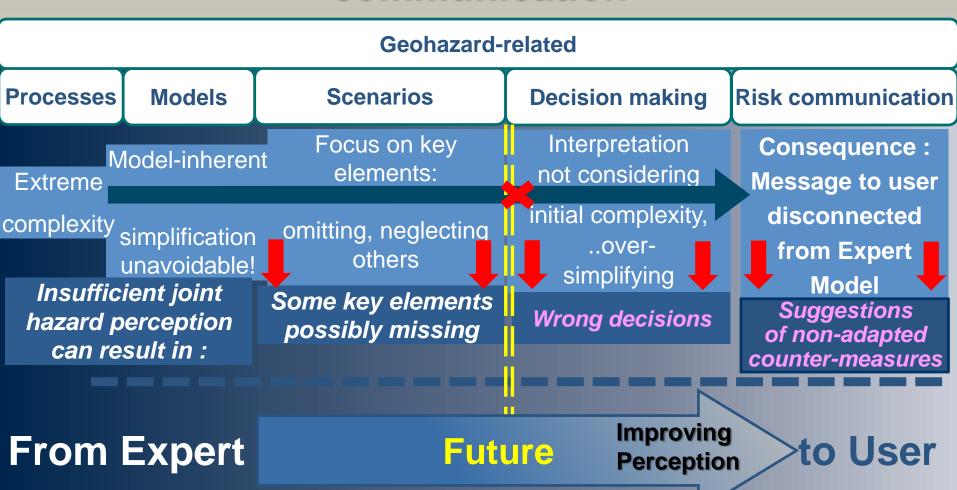
Short term

Application Area Prediction Period

Regional Long term

Serious efforts needed to be able to work in 3D+time .. at regional and local scale. ...

... to finally improve risk perception AND communication



Examples of local complex expert models : required inputs : surface + subsurface

3D geophysical model for 3D elasto-dynamic analysis

