

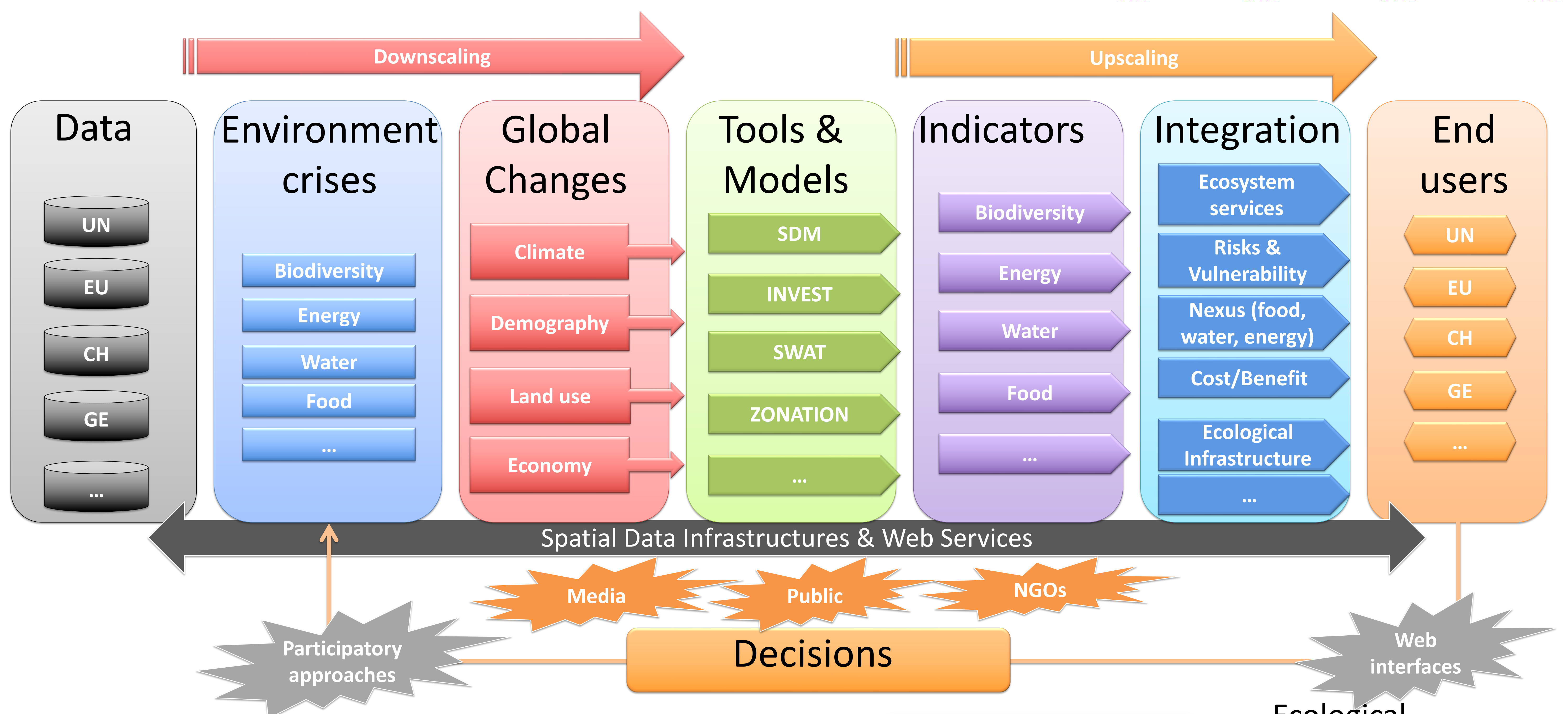
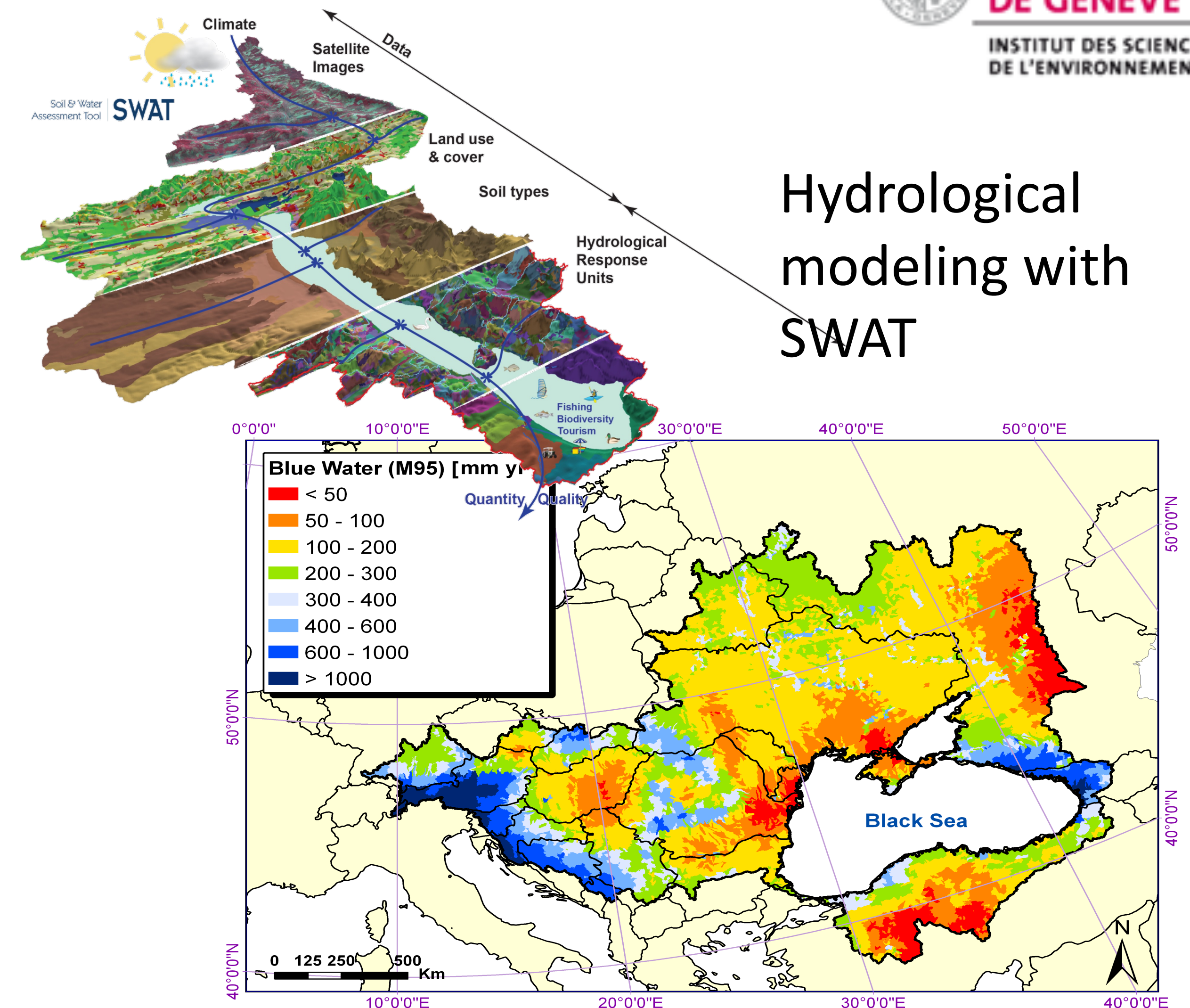


enviroSPACE: Spatial Predictions and Analyses in Complex Environments

www.unige.ch/enviroSPACE



The aim of enviroSPACE is to promote **interdisciplinary research based on spatially explicit models and indicators** on the past, present and future **state of changing and complex environment**. We are building **Spatial Data Infrastructures (SDI)** and web services to improve data sharing and processing.



Statistics, AI : Combination of GIS layers through a statistical model : e.g. regressions...

Geostatistics : Interpolation of point observations based on spatial autocorrelation: e.g. Kriging...

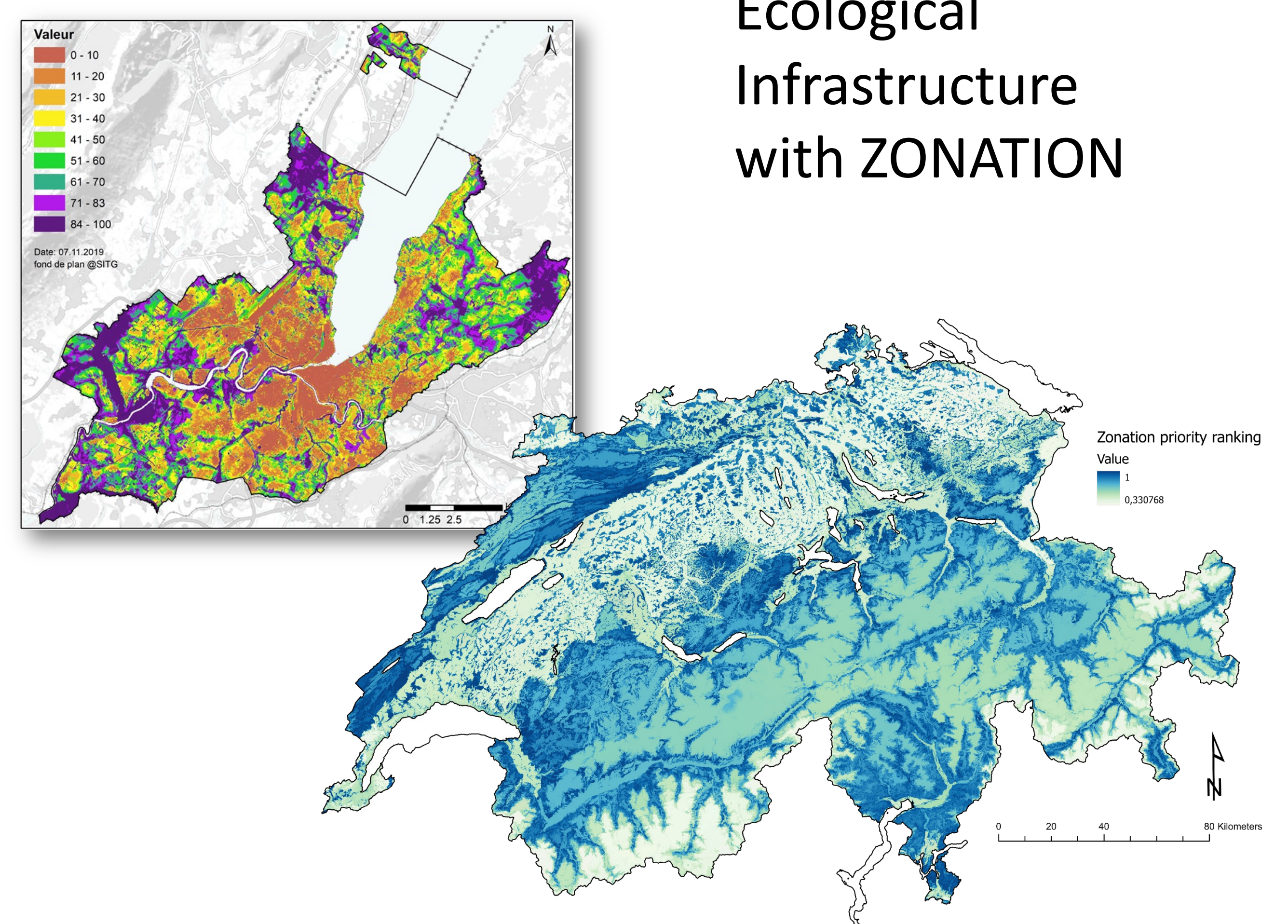
Dynamic models : Integration spatio-temporal dynamic in cell by cell models: e.g. cellular automates...

Expert models : Combination of GIS layers through coded expert knowledge

Processus : Combination of GIS layers through process-based models: e.g. Climate and hydrological models

Remote sensing : from satellites or airplanes: e.g. Landsat

Digitalization : Capture of existing paper maps.



Our toolbox is composed of traditional **GIS, remote sensing, geodatabases, statistical analyses and artificial intelligence**, as well as **dedicated modeling tools** in Ecology, Hydrology, Demography, Climate, Risks or Land Cover analyses.

Our challenge is clearly **to fill the gap between scientific information on one hand and decision making on the other hand**, in order to improve the sustainable management of our unique and fragile environment.

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