



TRANSCEND

1º WEBSTIVAL



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ONLINE

The TRANSCEND modelling blueprint

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Wineyard in Requena (Valencia)
Source: self-made



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TRANSCEND'S overarching goal is:

to explore strategies and pathways to achieve comprehensive and transformative change as a response to persistent water challenges, exacerbated by climate change

Models are essential to achieve this goal by:

- Helping predicting the impacts of different scenarios and alternatives of change
- Evaluating trade-offs between objectives
- Support decision-making by providing comprehensive *what-if* narratives

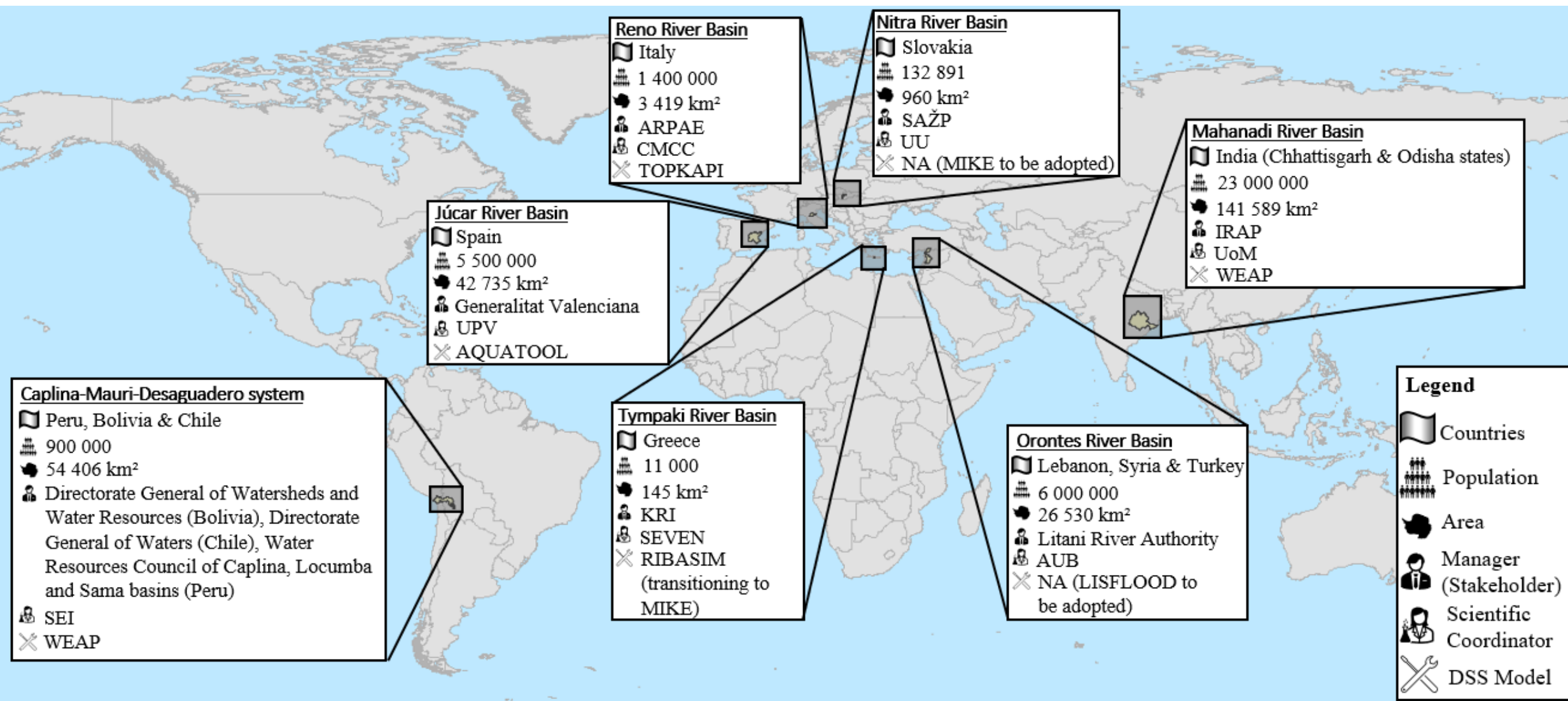
The TRANSCEND blueprints are:

- Defined to respond to the particular challenges found in each lab
- Built on the existing models and tools available for each lab
- Filling the gaps identified in each lab
- Incorporating innovative ground-breaking methods
- Suited to address climate change impacts
- Taking into account cross-fertilization among labs

Gap analysis was done at the lab scale.

Common gaps identified among the labs are:

- Limited (or inexistent) inclusion of groundwater modelling
- No possibility to perform economic assessments
- No comprehensive evaluation of ecological flows, nor ecosystem services
- Need to include in the analysis the latest climate change scenarios (CMIP6)
- Need (or desire) to improve the modelling of agricultural water consumption



The Reno River Basin blueprint includes:

- Hydrological projections tailored to Reno River Basin constructed in the framework of CMIP6 emission scenario (SSPs available) over 2021-2050 and 2071-2100;
- Improvement/generation of the water resources management model for Reno River Basin with updated data framework, statistics, and modelling suite;
- Improvement of the agronomic model for Reno River Basin;
- Implementation of the socio-economic model for Reno River Basin.

