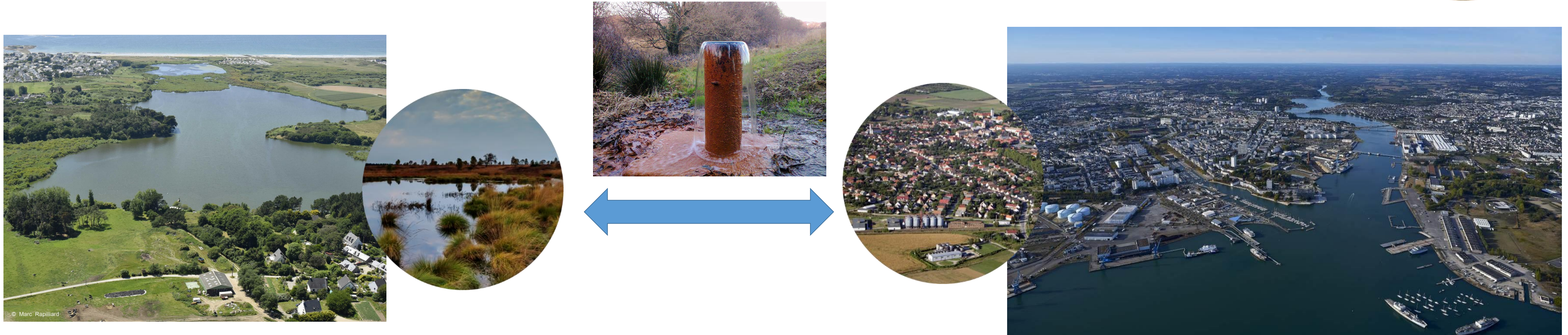


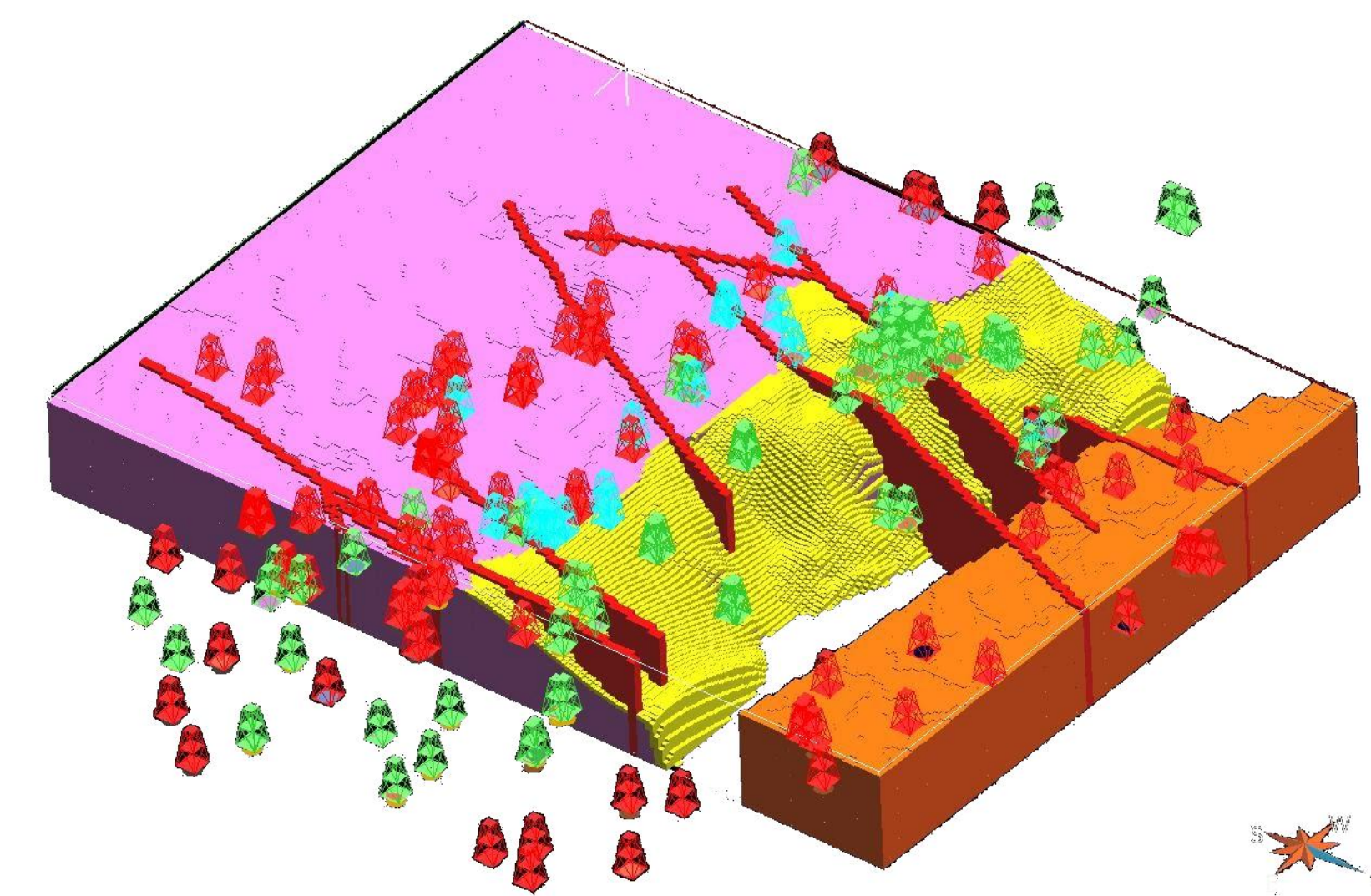
### Pilot summary

This pilot will improve water management in the context of large **population growth, tourism and diminishing summer rainfall**. While the formal process in solving user conflicts is on hold for more than a decade, this pilot will use additional hydrogeological modelling in combination with stakeholders' workshop to identify and communicate different impact scenarios in relation to a new pumping station. The station is located 2 km far from the sea and the expected **impacted area encompasses nature protected areas**. A joint water and ecosystem management plan will be discussed between **managers, citizen and political representative based on scenarios** they will provide and simulation results from a coupled surface-depth hydrological model.



### Activities

- Acquisition of new hydraulic, hydrochemical & geophysical data
- Synthesis into a Gocad geological model
- Setting up a coupled surface - depth hydrological model (CwatM + Modflow)
- Integrating tracer transfer into model
- Evaluating model predictive skills on new (distributed) data



### Governance

Building a shared (inclusive) knowledge from the field: proposing smartphone-based nitrate observations to understand water flow paths and highlight the role of "invisible" subsurface on surface behavior. Workshops including young people, state services, environmental associations, farmers, policy makers.

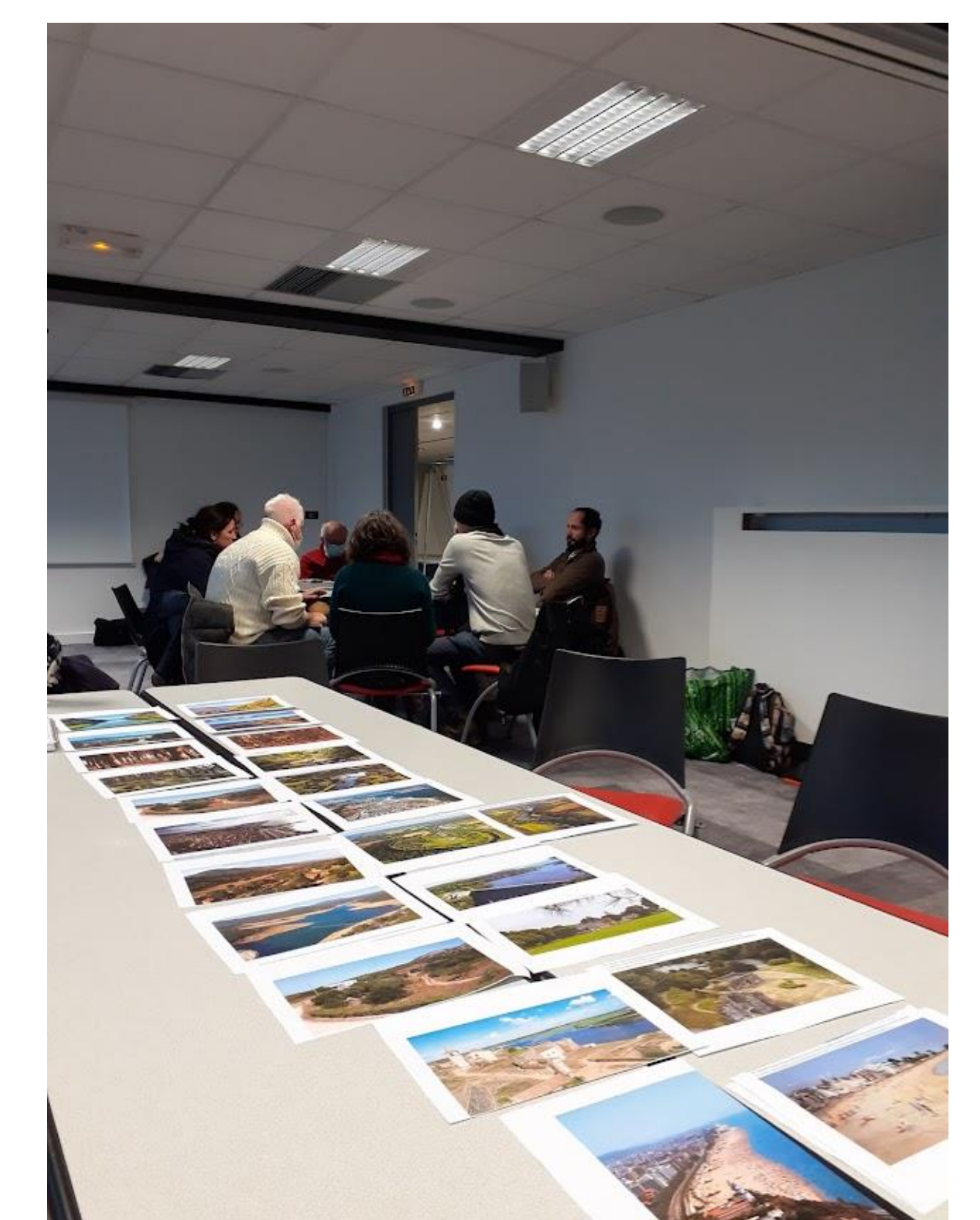


Discussing scenarios for the future: from same group including elected officials, discussion workshops to determine a desirable evolution of ecosystem and cities.

Confronting desirable and probable futures : Include ecosystem and human water needs in the hydrological model to confront desirable and probable future. Bring out a local culture of resilience.

Presenting results to a wider audience: First step on June 2<sup>nd</sup> 2023, participation to a forum with the High Council for Climate in Brittany (regional group of expert on climate).

To discuss : digital twin, summer school (at the scale of project?)



First discussion workshop – decembre 2022

