

Monitoring the impact of vegetation dynamics in the Mediterranean Pyrenees on biodiversity and ecosystem services in the context of global change

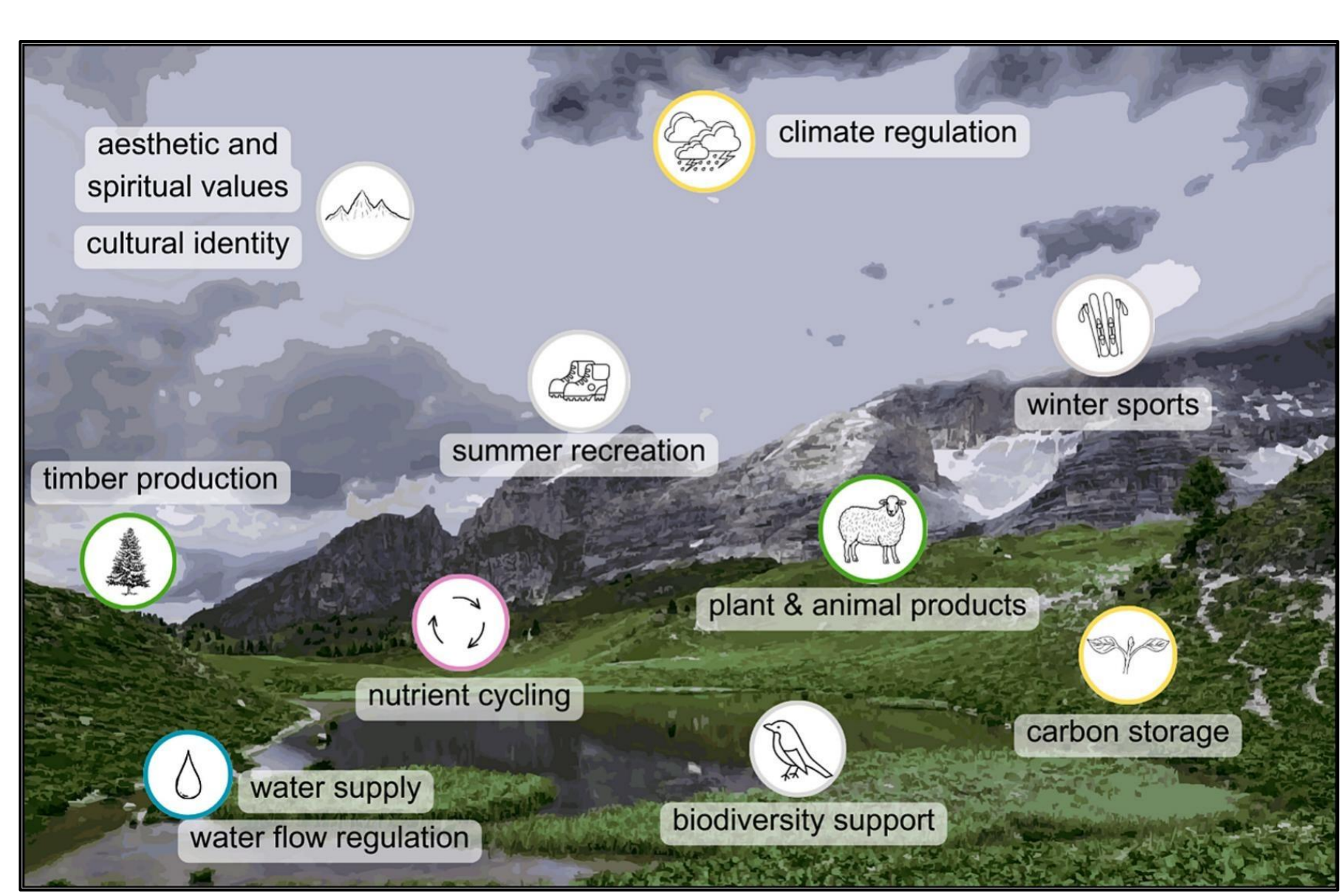
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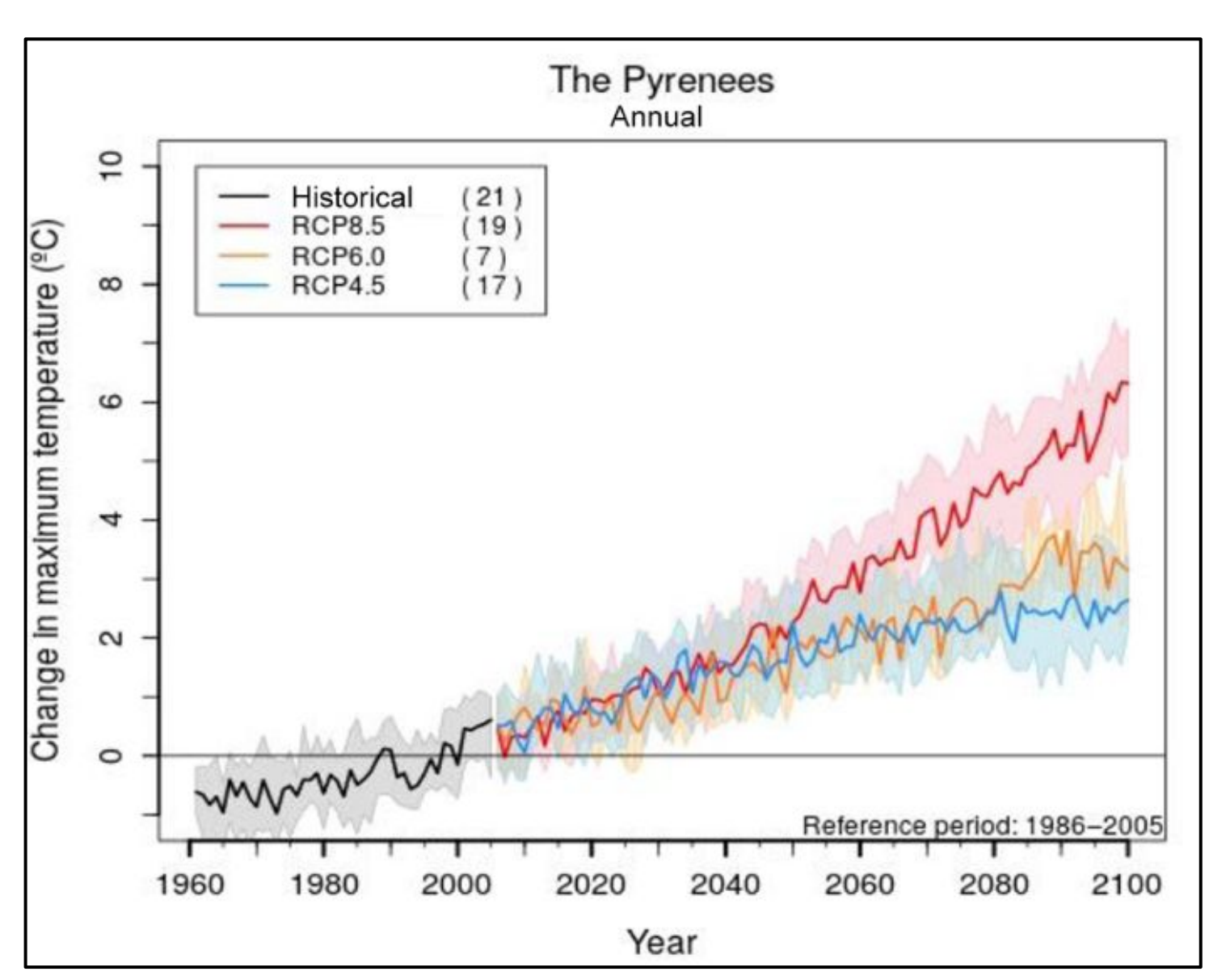
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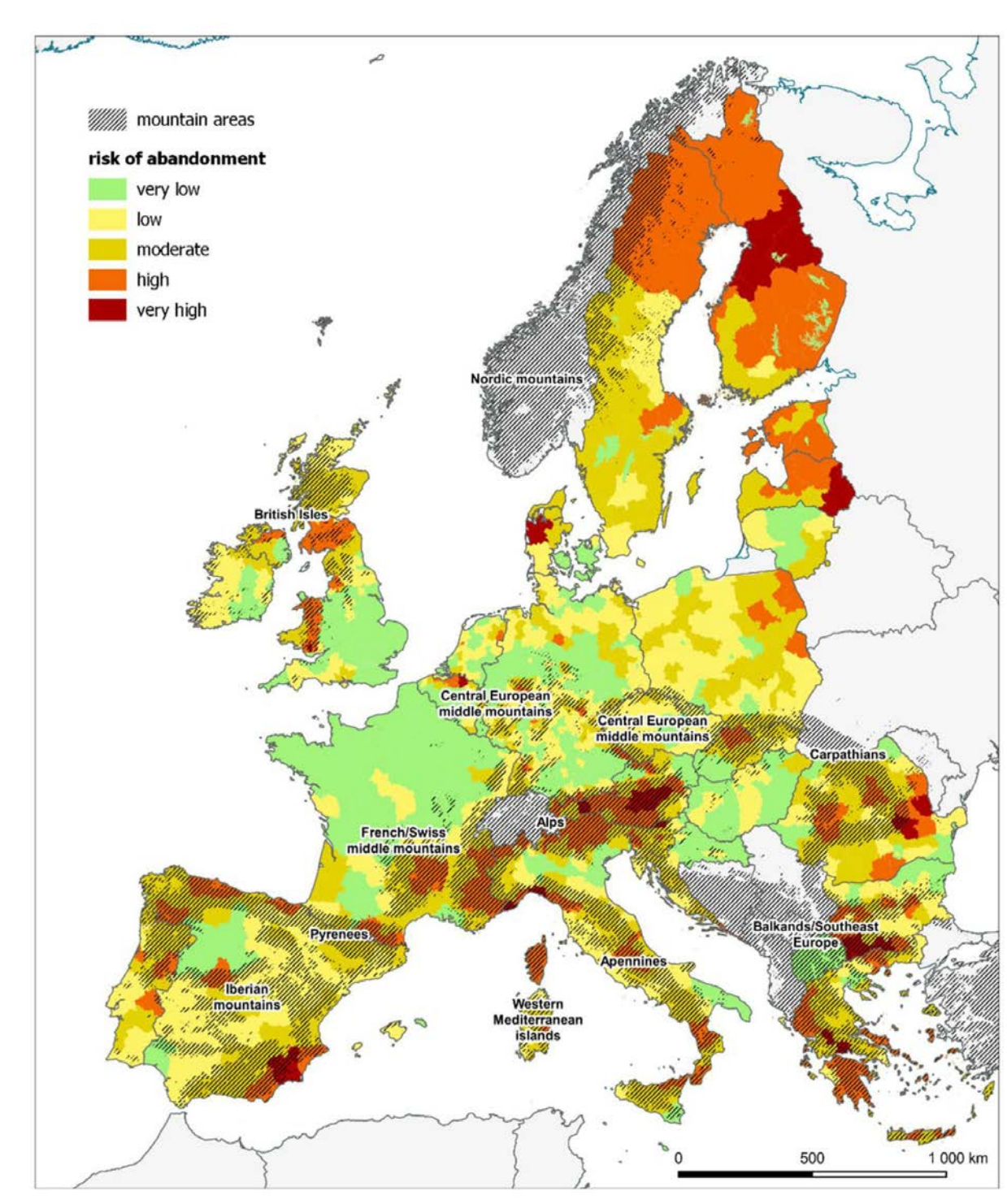
CONTEXT



Mountain ecosystems provide a variety of services and constitute a refuge for unique biodiversity. They are vital for many human populations.



Mountains are particularly threatened by climate change. In the Pyrenees, the IPCC scenarios predict an increase in min and max temperatures, as well as a reduction in snow depth.

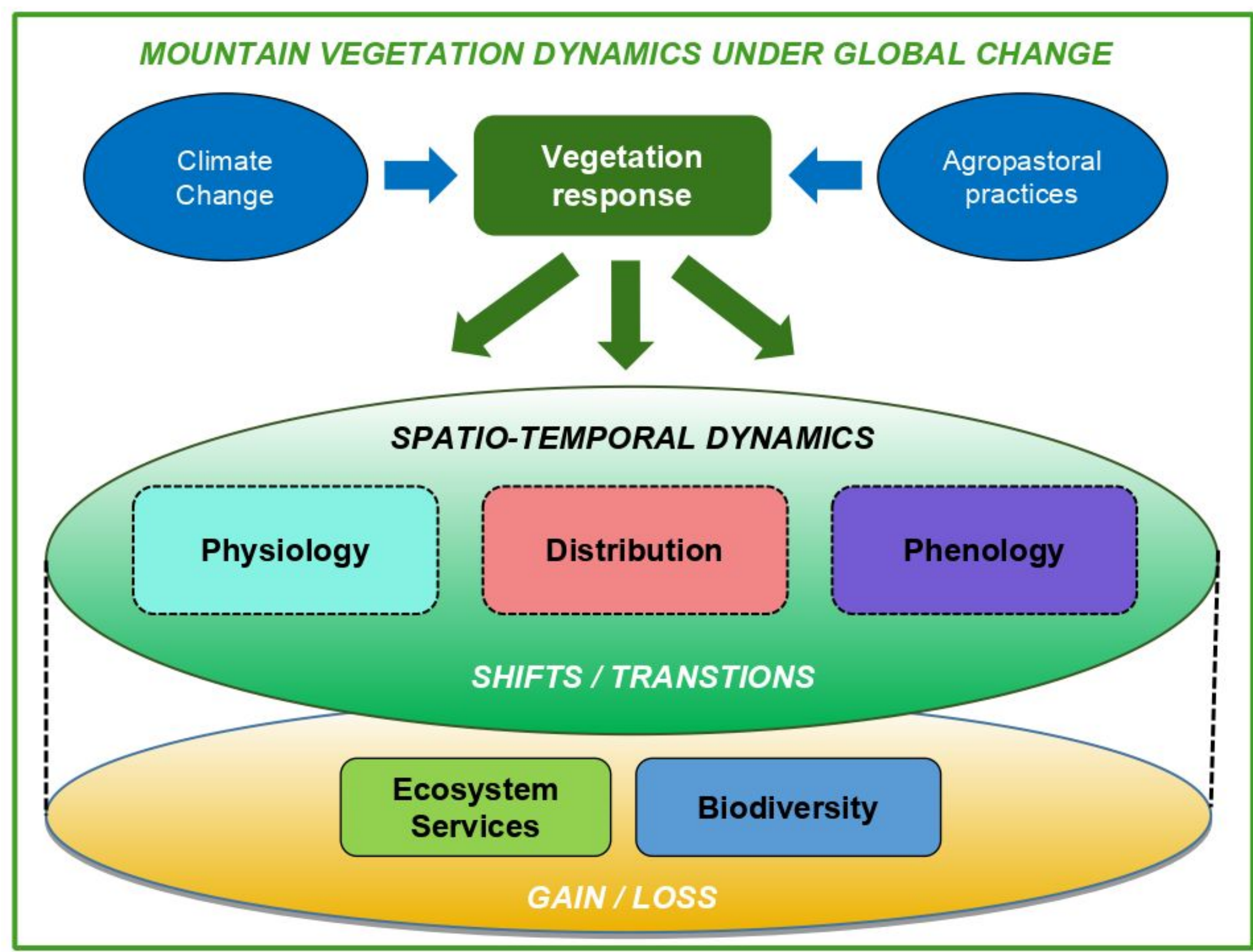


Changes in land use are also very significant. As with many other mountainous regions in Europe, the Mediterranean Pyrenees are at high risk of land abandonment.

These changes affect the spatio-temporal dynamics of vegetation and the structure of ecosystems.

Objective: Improving knowledge of the trajectories of open and semi-open mountain mediterranean ecosystems in the context of global change.

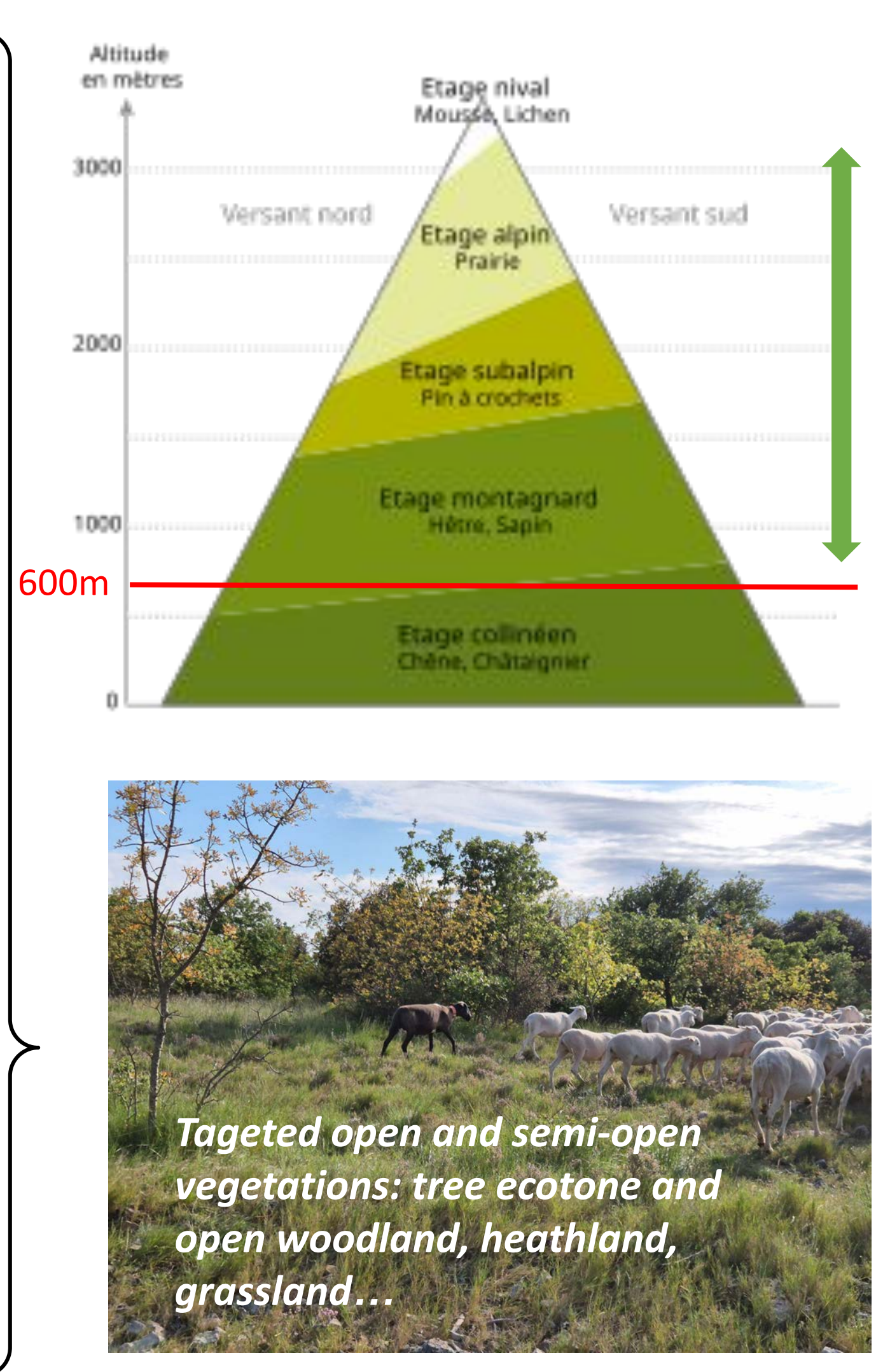
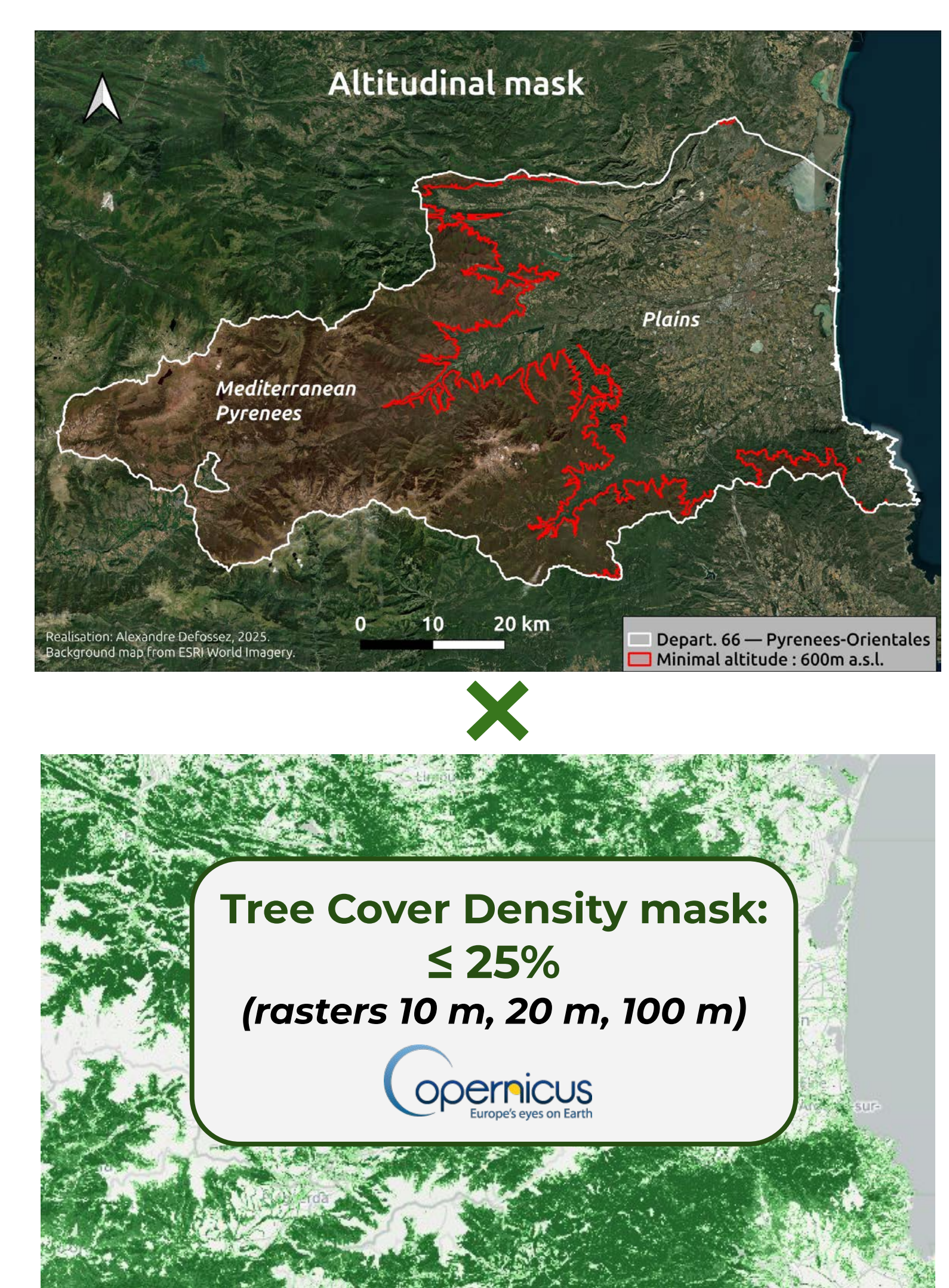
CONCEPTUAL FRAMEWORK



KNOWLEDGE GAPS

- Drivers?
- Patterns?
- Processes?
- Trajectories?

STUDY AREA



Patterns

What are the ongoing changes in MP vegetation composition, productivity and phenology at the landscape scale?

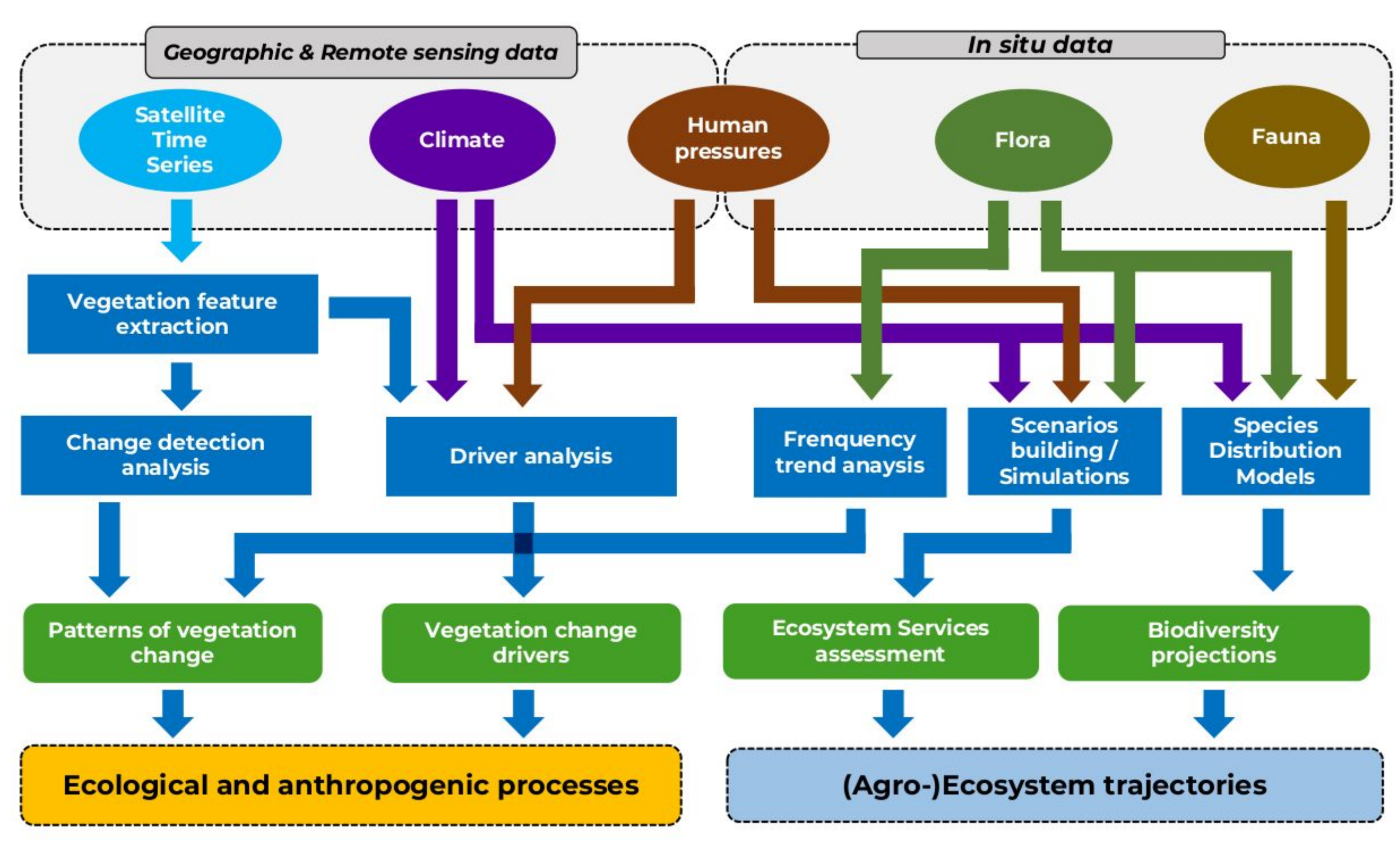
Processes

Which environmental drivers and anthropogenic pressures are involved in these vegetation changes?

Prospecting

What are the possible trajectories of biodiversity and ecosystem services in MP agropastoral landscapes according to IPCC scenarios?

METHODOLOGICAL STRATEGY



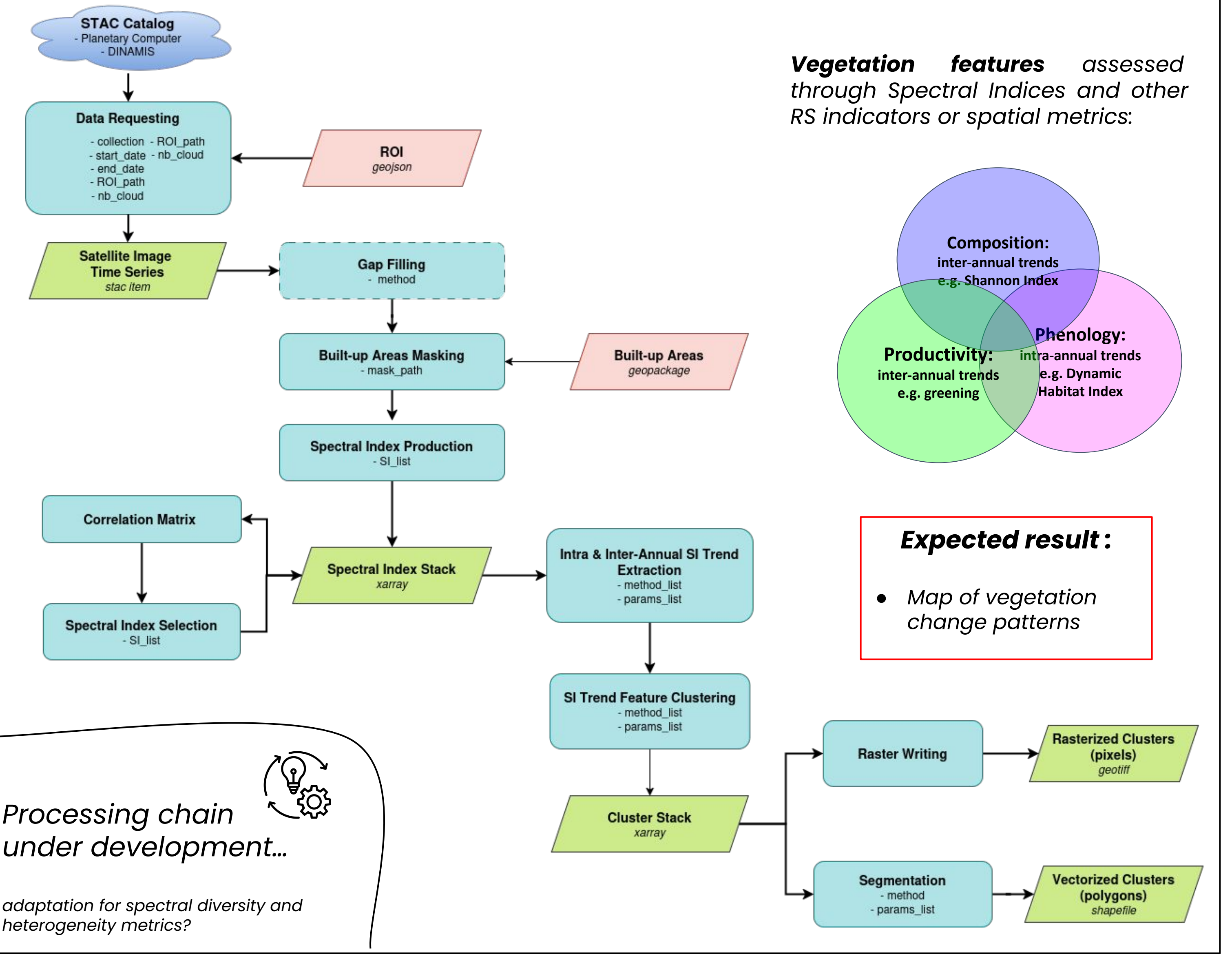
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Porté par



VEGETATION PATTERN ANALYSIS



Processing chain under development...

adaptation for spectral diversity and heterogeneity metrics?