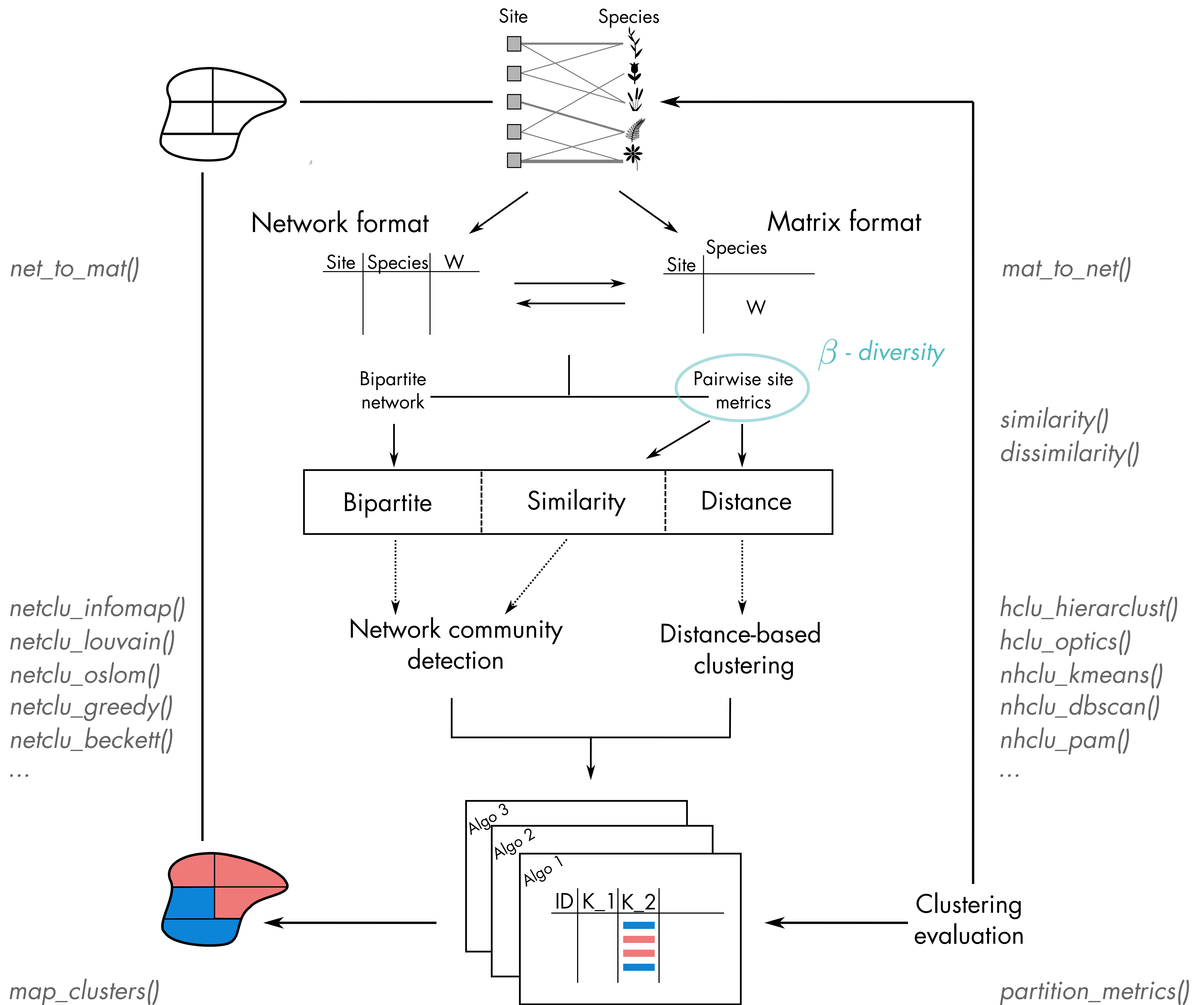


bioRgeo: Bioregionalisation Methods in R

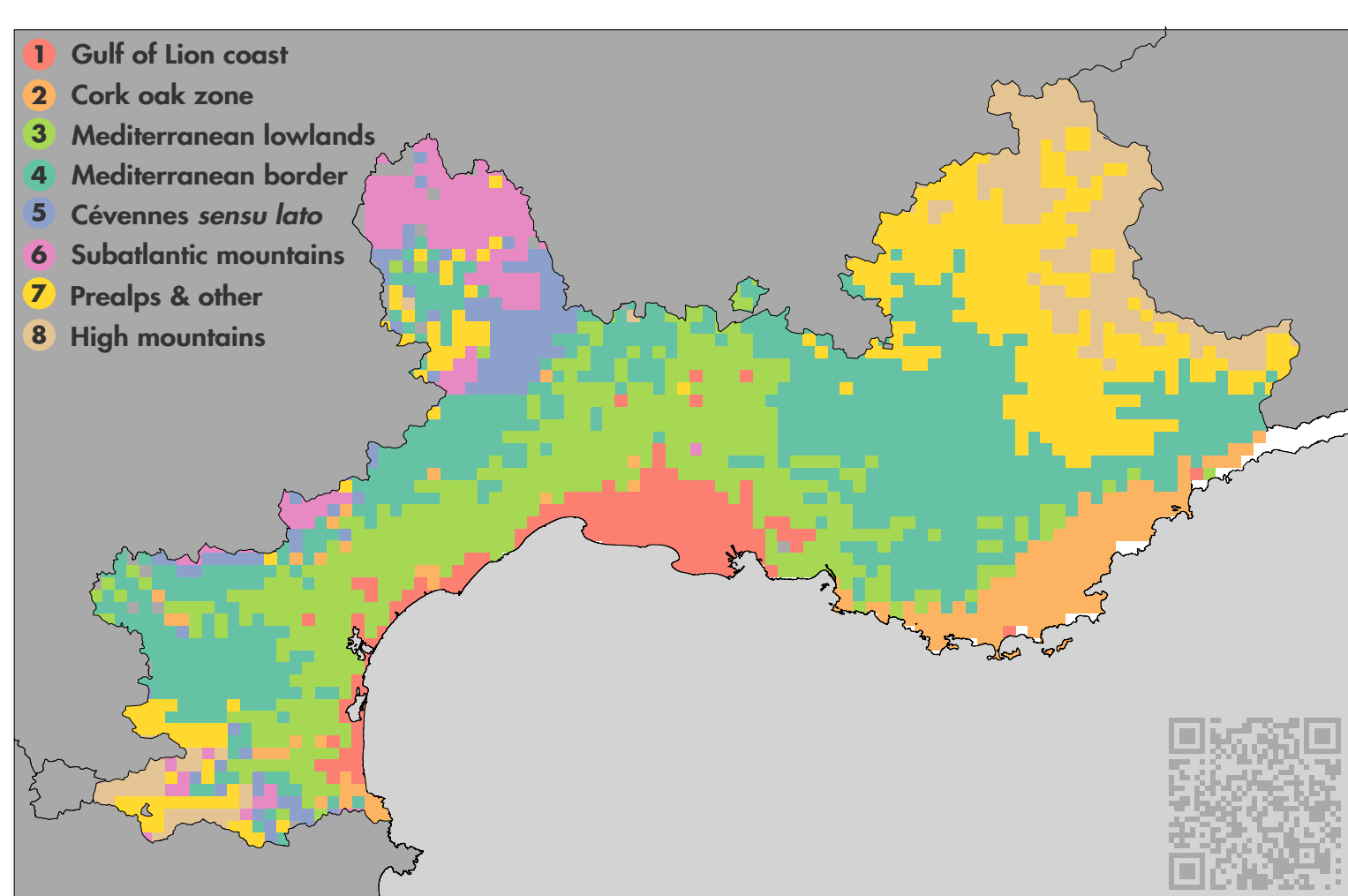
Pierre Denelle, **Maxime Lenormand** & Boris Leroy

maxime.lenormand@inrae.fr

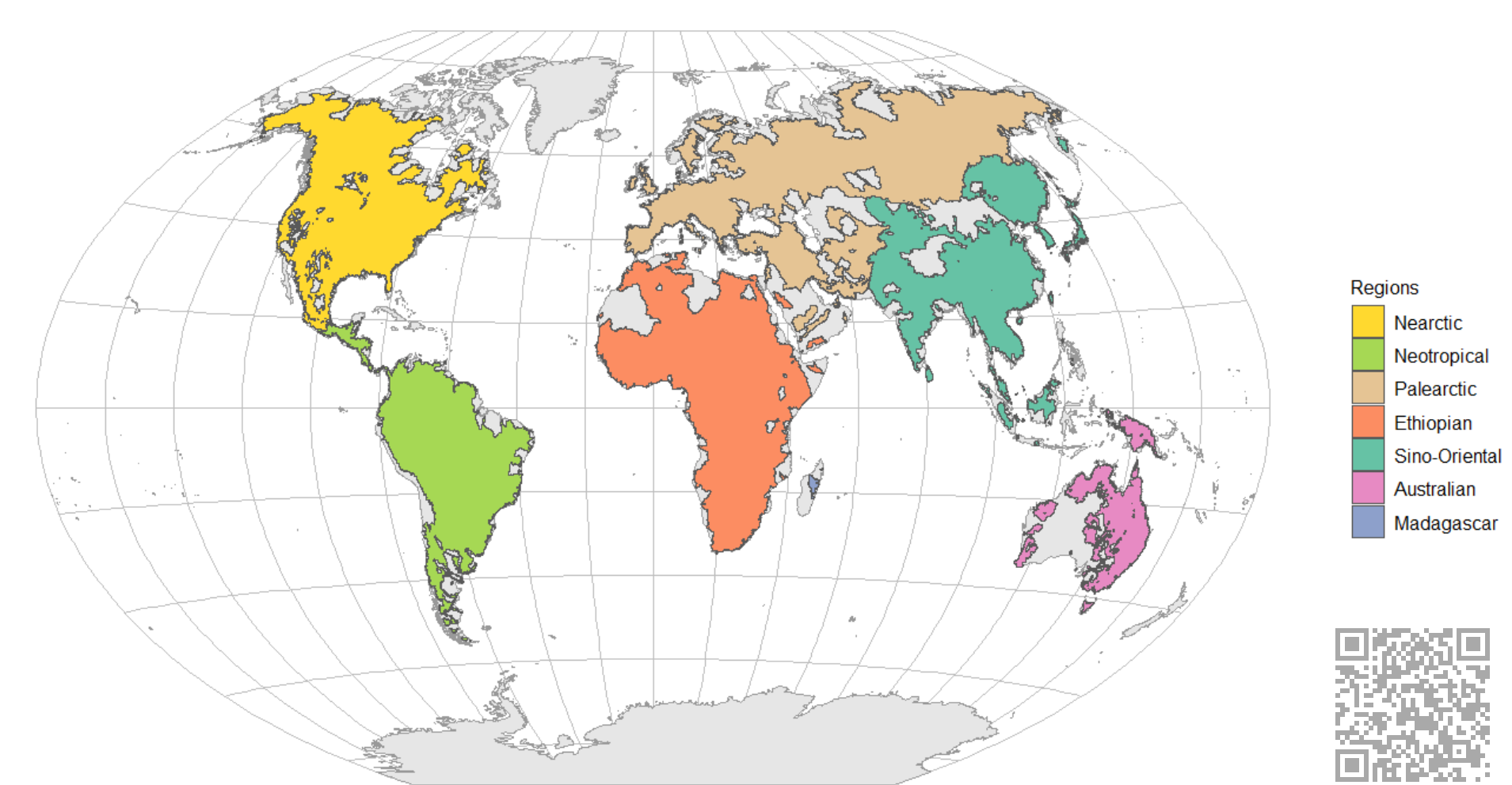
A **bioregion** is an **area** that has characteristic **flora and fauna** and includes one or more ecosystems. To better understand and visualize the **biogeographical structure of a territory**, it is necessary to divide this territory into meaningful and coherent geographical regions. The overall aim is therefore to minimize the heterogeneity in taxonomic composition within regions, while maximizing differences between them. Taking as input species per site information, the **bioRgeo's** package deals with both **network and matrix formats** to identify biogeographical regions with a wide variety of classic (hierarchical and non-hierarchical) clustering techniques and network community detection algorithms.



Examples:



Biogeographical regions of plant species distribution in the Mediterranean region with OSLOM



Global biogeographical region of freshwater fish species with Infomap

