



A Coruna Forum – Session 6

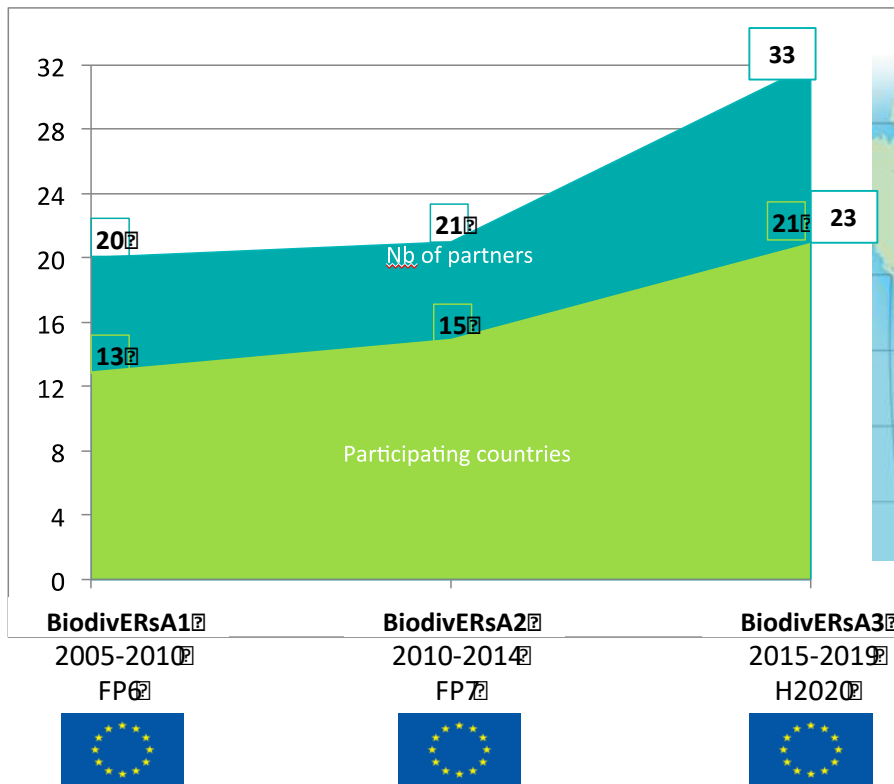
The role of ecosystem restoration in increasing resilience and contributing to human wellbeing
Spain, May 16th, 2018

Improved knowledge for effective NbS –
European ecosystem and biodiversity restoration
research promoted by BiodivERsA

Frederic Lemaître, BiodivERsA science-society/policy interfacing

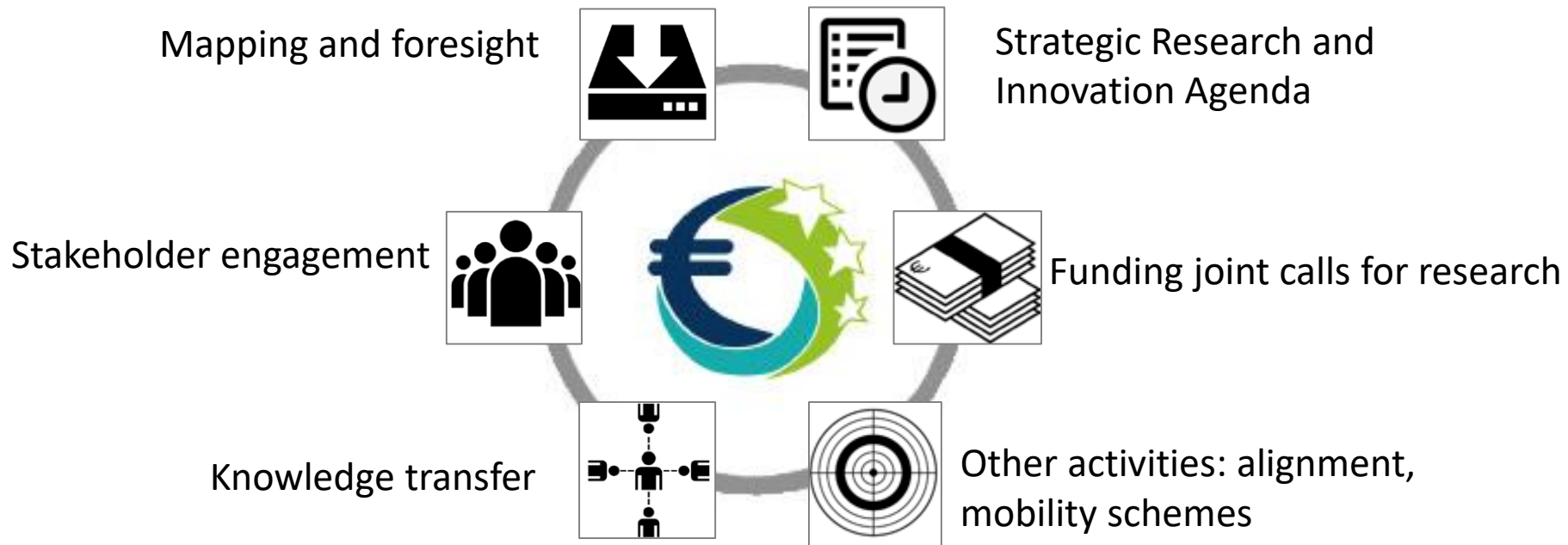
The BiodivERsA Partnership

33 partners (research programmers and funders) from 23 countries, incl. overseas



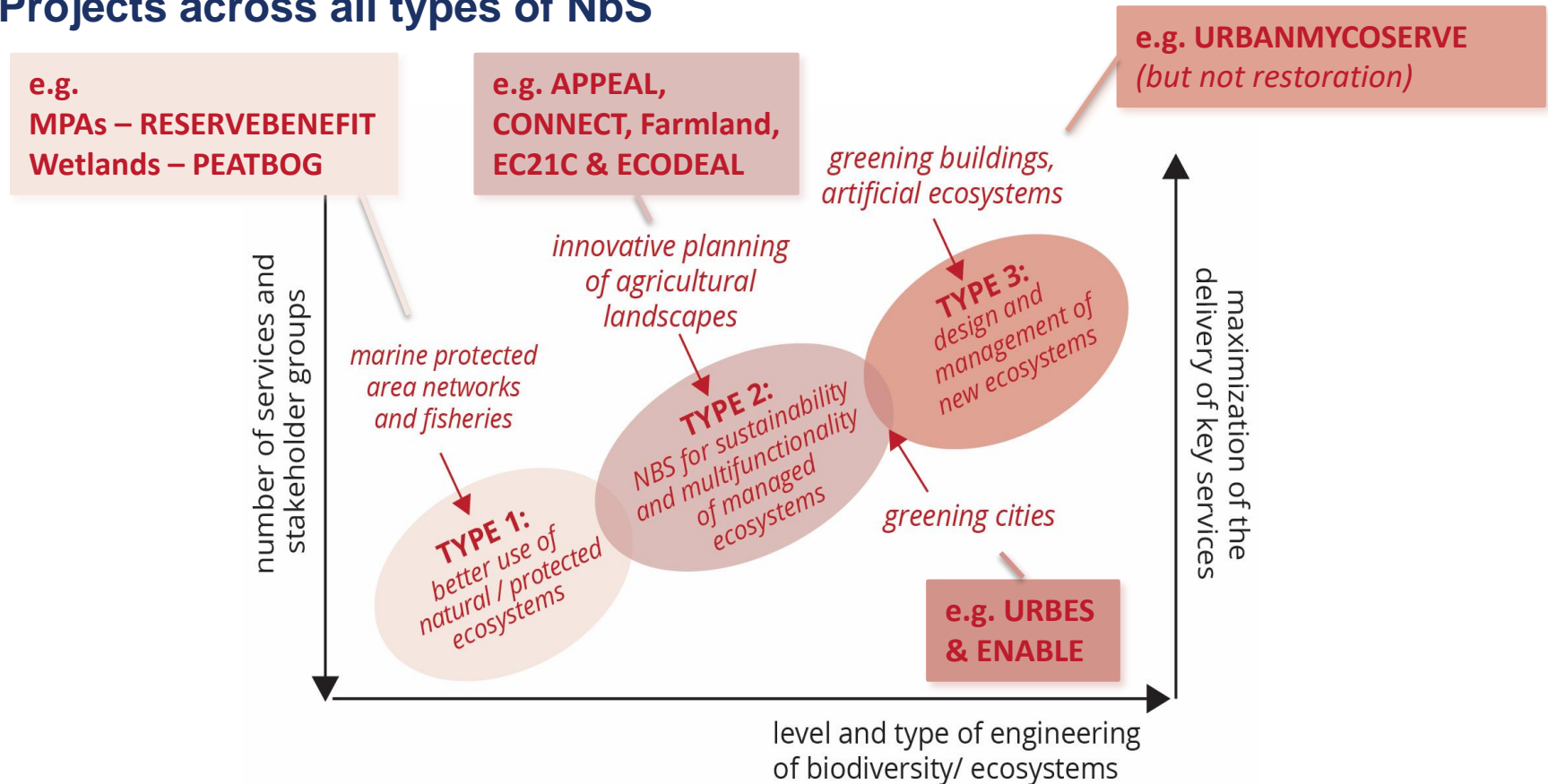
 **Collaborations with non-EU countries**

Main functions of BiodivERsA



Restoration and NbS research in BiodivERsA

Projects across all types of NbS



Typology of Nature-based Solutions developed by BiodivERsA (Eggermont et al., 2015, GAIA)

Restoration and NbS research in BiodivERsA

Type 1: Better use of protected ecosystems, example of the **RESERVEBENEFIT** project – Evaluating and managing connectivity in a network of MPAs to maintain:

- Direct services: marine resources for fisheries beyond protected limits
- Indirect services: genetic diversity and adaptive capacities of fish stock

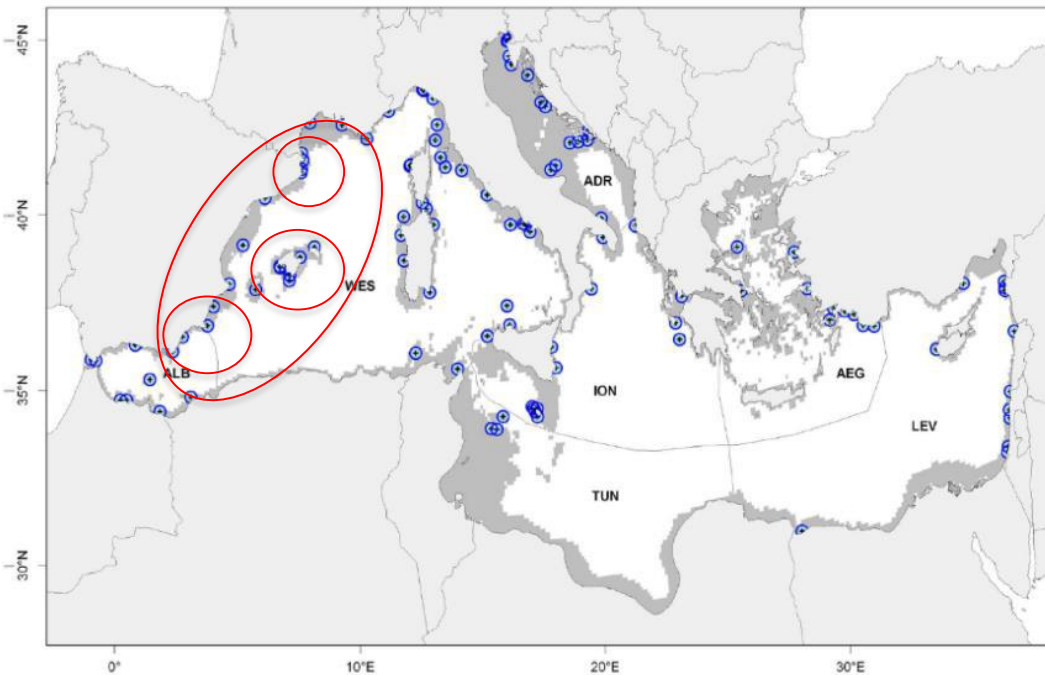


Fig. 1: left, network of MPAs in the Mediterranean sea and RESERVEBENEFIT study sites; right, picture of a fisherman in one of the studied sites.

Restoration and NbS research in BiodivERsA

Type 2: Innovative planning of agricultural landscapes – examples from the FarmLand and EC21C projects:

- Direct services: enhances and stabilizes the biological control and pollination in agroecosystems
- Indirect services: semi-natural habitats can buffer negative effects of climate change (see fig 2)

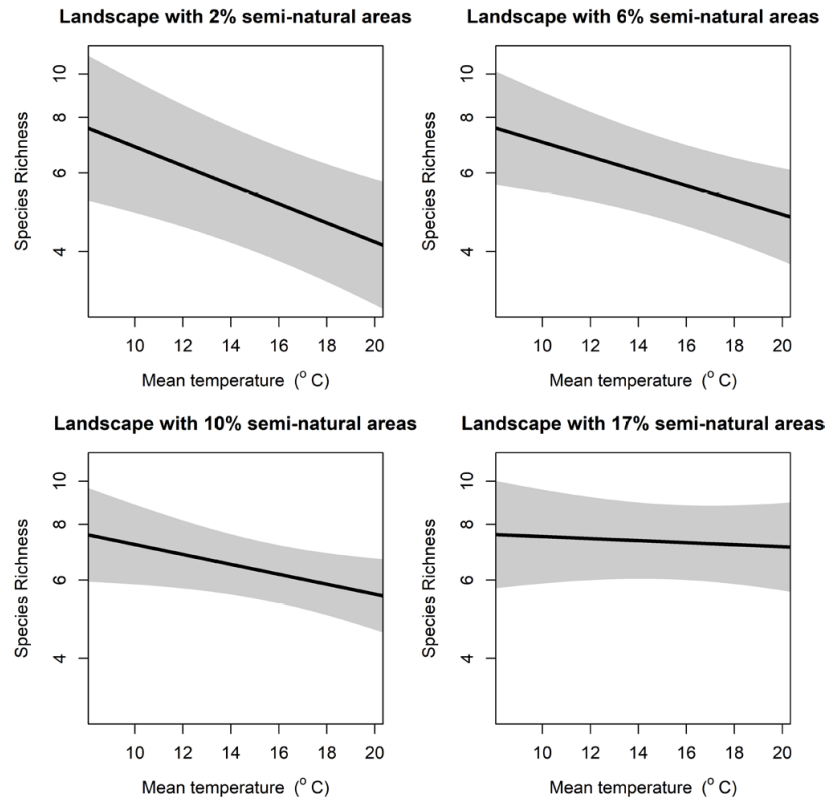


Fig. 2: left, landscapes with smaller fields and more field edges (A) have more biodiversity in crop fields than landscapes with large fields (B); above, interactive effect of temperature and landscape composition on wild bee species richness. After Papanikolaou et al (2016)

Restoration and NbS research in BiodivERsA

Type 3: designing new ecosystems, example from the **URBES & ENABLE** projects

Evaluating and managing ecosystem services delivered by greening cities, ranging from heat reduction to health benefits:

- Assessing ES delivery from green spaces at city level
- Participative scenarios of urban planning change and impacts on ES delivery with local authorities
- Identifying and testing key features to maximise various ES delivery by different types of urban green spaces

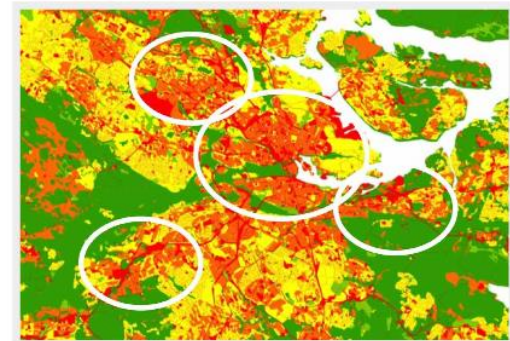
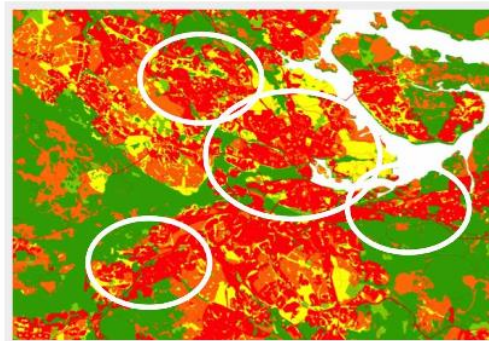
Vibrant Stockholm

Stockholm Green Capital



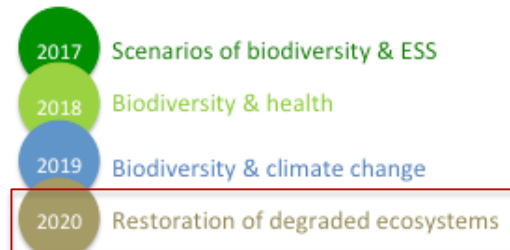
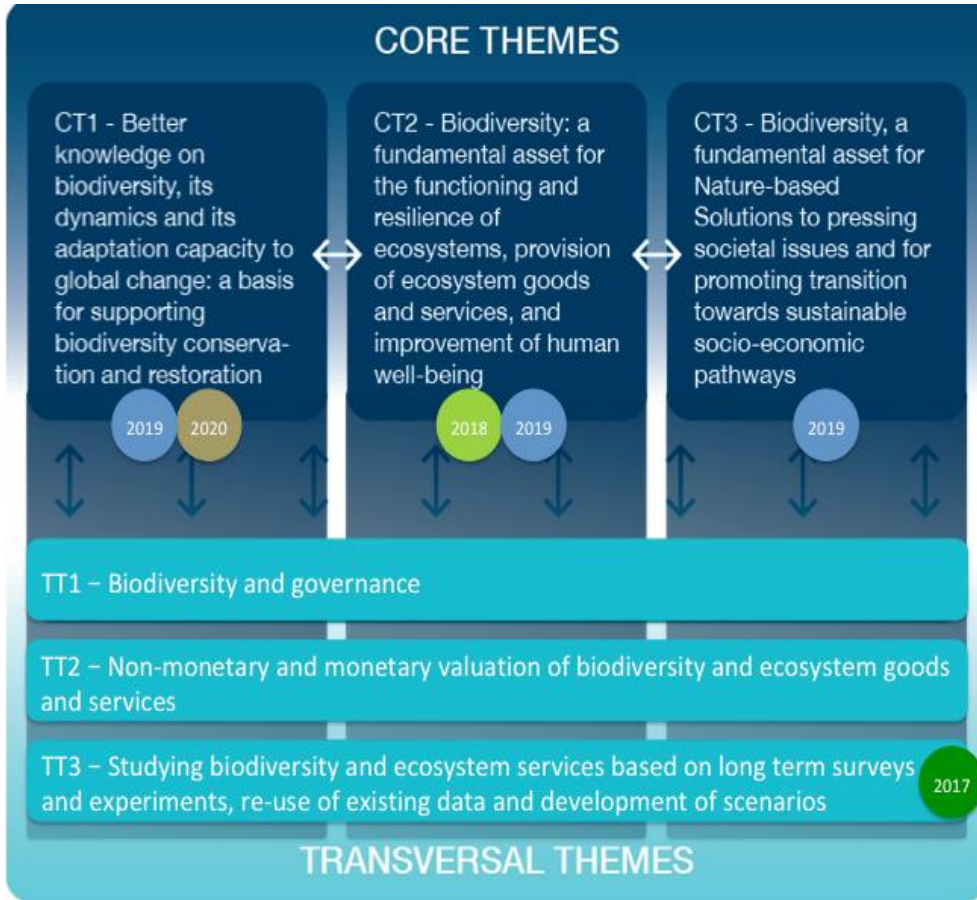
Vibrant Stockholm

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Restoration and NbS research in BiodivERsA

Strategic planning and future actions



- Currently an on-going work on knowledge and knowledge-to-action gaps for effective restoration of biodiversity and ecosystem services
- Upcoming international call for research on restoration of biodiversity and degraded ecosystems (terrestrial, freshwater and marine)





Thank you for your
attention