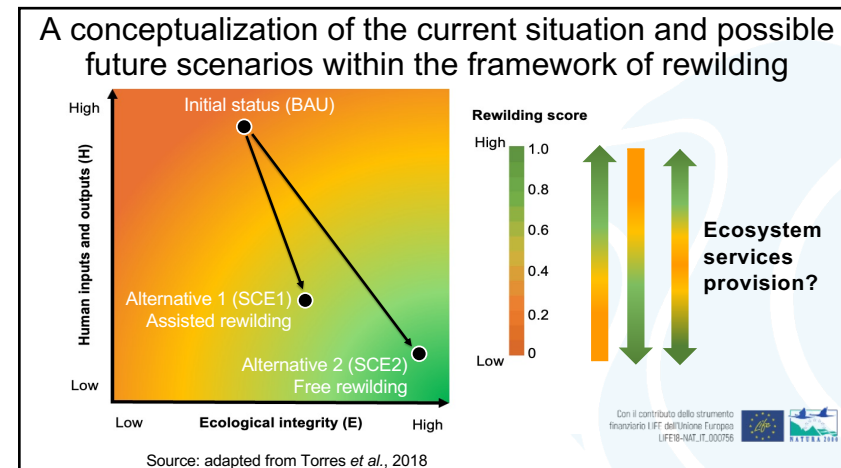
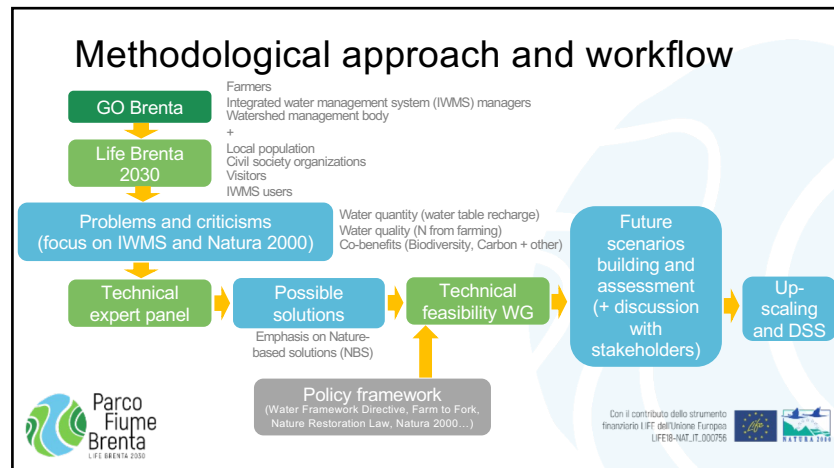
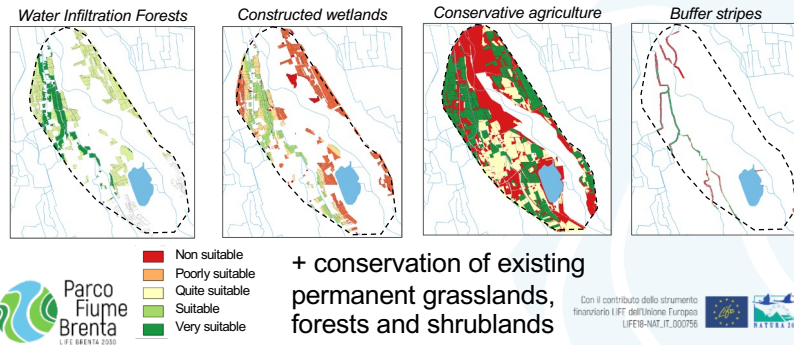


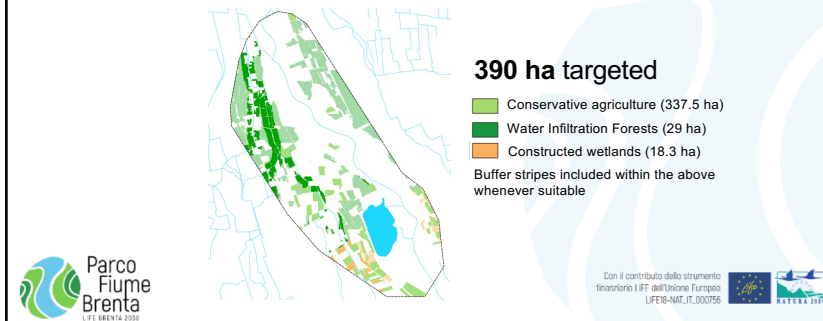
Promosso da:                                    



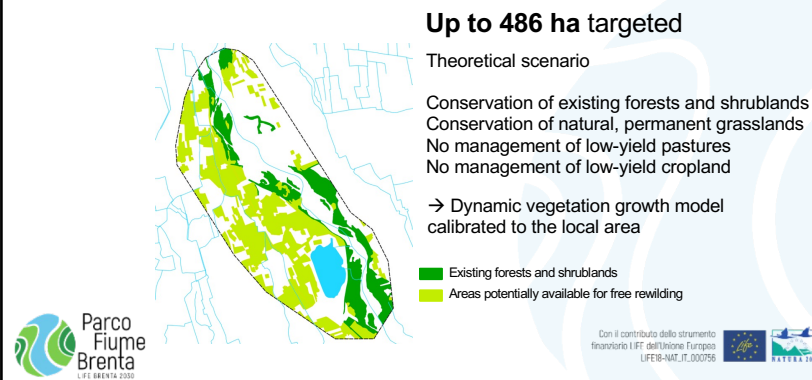
Alternative 1 (SCE1): assisted rewilding A mix of nature-based solutions



Alternative 1 (SCE1): assisted rewilding A mix of nature-based solutions



Alternative 2 (SCE2): free rewilding

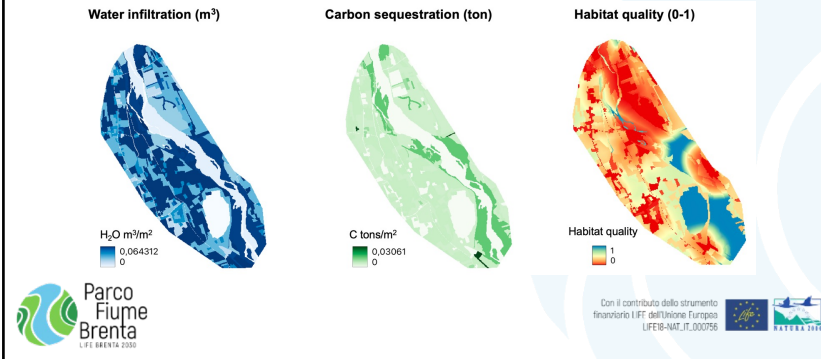


Scenario assessment

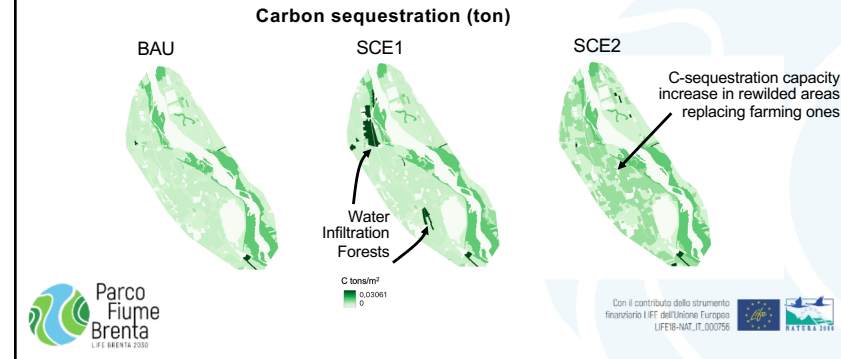
Ecosystem service class	Ecosystem service type	Approach/Model
Provisioning	Food and feed production	Average unit yield per crop as from AVEPA data
	Wood production	National Forest Inventory stock and increment data
Regulating	Carbon sequestration	InVEST Carbon sequestration model
	Habitat quality	InVEST Habitat Quality model
	Water infiltration (table water recharge)	InVEST Water infiltration model
Cultural	Recreation	JRC Estimap model (adapted) + surveys
	Landscape aesthetics	InVEST Scenic quality model + surveys
Risk factors		Approach/Model
Wildfire risk		Wildfire risk index (EFFIS methodology)
Alien species dissemination risk (plants)		Rate of invasive alien species (Veget. growth model)

- 50 years time horizon
 - IPCC Representative Concentration Pathways 4.5 = +1.8°C by 2100
- Con il contributo dello strumento finanziario LIFE dell'Unione Europea
 LIFE18-NAT.IT.000756
- Parco Fiume Brenta
 LIFE BRENTA 2030

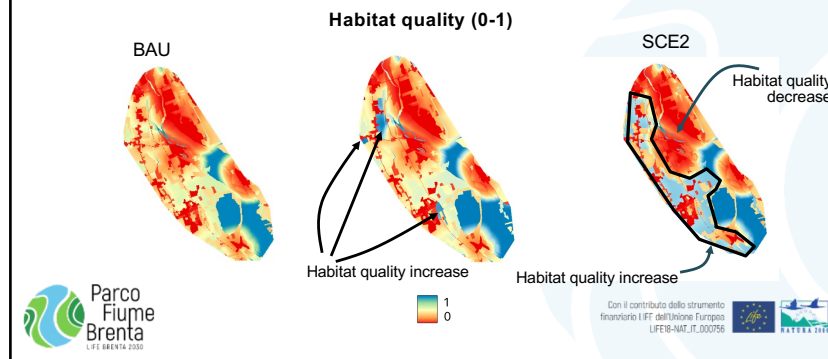
Valuing and mapping selected ecosystem services (some examples for the BAU)



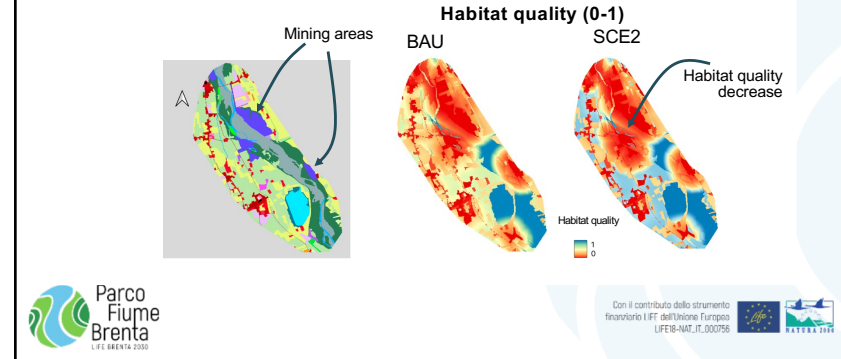
Valuing and mapping selected ecosystem services (comparing scenarios, examples)



Valuing and mapping selected ecosystem services (comparing scenarios, examples)



Valuing and mapping selected ecosystem services (comparing scenarios, examples)



Valuing and mapping selected ecosystem services (comparing scenarios, examples)

Alien species dissemination risk (0-1)

BAU

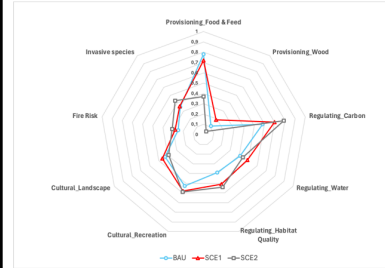
SCE2



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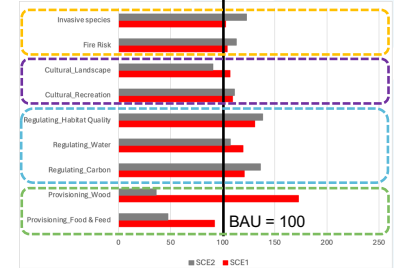
Comparing scenarios: a summary overview

Ecosystem services and risk levels normalized (0-1)



BAU = business as usual
SCE1 = assisted rewilding via a mix of NBS
SCE2 = free rewilding

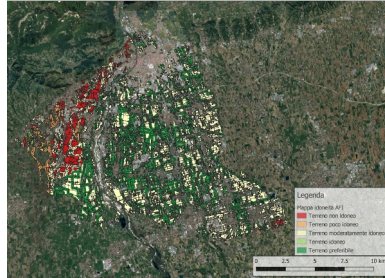
BAU indexed to 100, SCE1 and SCE2 variations



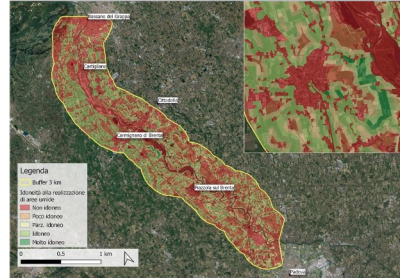
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Upscaling potential and suitability (examples)

Water Infiltration Forests



Constructed wetlands



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Decision Support System

Decision support system for investments aiming to mitigate/compensate impacts of the Integrated Water Service (IWS)

Version 1 - 20/09/2023

Developed by the Land, Environment, Agriculture and Forestry (LEAF) Department of the University of Padova. Editor: Valuing nature and the Consiglio di Bacino del Brenta (Brenta Watershed Council) within the framework of the Life Brenta 2030 project, this tool allows to analyze different intervention options to allow mitigation/compensation measures for impacts of the IWS.

Such impacts and the associated costs are classified into:

ENV - environmental costs i.e. relative to measures to restore and/or reduce/contain the negative impacts produced by the IWS, with particular reference to greenhouse gas emissions into the atmosphere.

RES - resource costs i.e. for the incremental consumption of water resources for a specific use or service, subtracting it from alternative uses or services. This relates to the impacts of the IWS in terms of volume of water withdrawn and/or to the quality of the water resource.

In the case of resource costs (RES), it is possible to conduct analyses starting from two different types of input data: (1) extent of impacts to be mitigated and (2) available investment budget.

The **Stages** (i.e. Summary) page reports a summary of the results of analyses performed.

ENV

It analyzes the intervention options and costs related to mitigating the environmental impacts associated with the IWS on resources other than water.

[Go to ENV - SSD](#)

RES

It analyzes the intervention options and costs related to mitigating the impacts associated with the IWS on the quantity and quality of water resources.

What source data do you want to work with or what data do you have?

A. Data relating to the impacts to be mitigated (e.g. m³ of drinking water withdrawn) [Go to RES - SSD - Impact](#)

B. Data relating to the budget available for the investment [Go to RES - SSD - Budget](#)

Discover more about Life Brenta 2030 project

www.parcofiumebrenta.lifebrenta2030.it

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