



Introduction



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Workshop on Implementation of
Nature-based Solutions to tackle climate change

Session 1 : Make the case

Marseille (France)
22-24 January 2019

Make the case: benefits of nature-based solution (NbS) implementation

Three key questions:

- 1) How to measure the benefits and what are the challenges related to NbS implementation?
- 2) How do NbS contribute to climate change adaptation and mitigation?
- 3) Why favouring the implementation of NbS in the Mediterranean region?



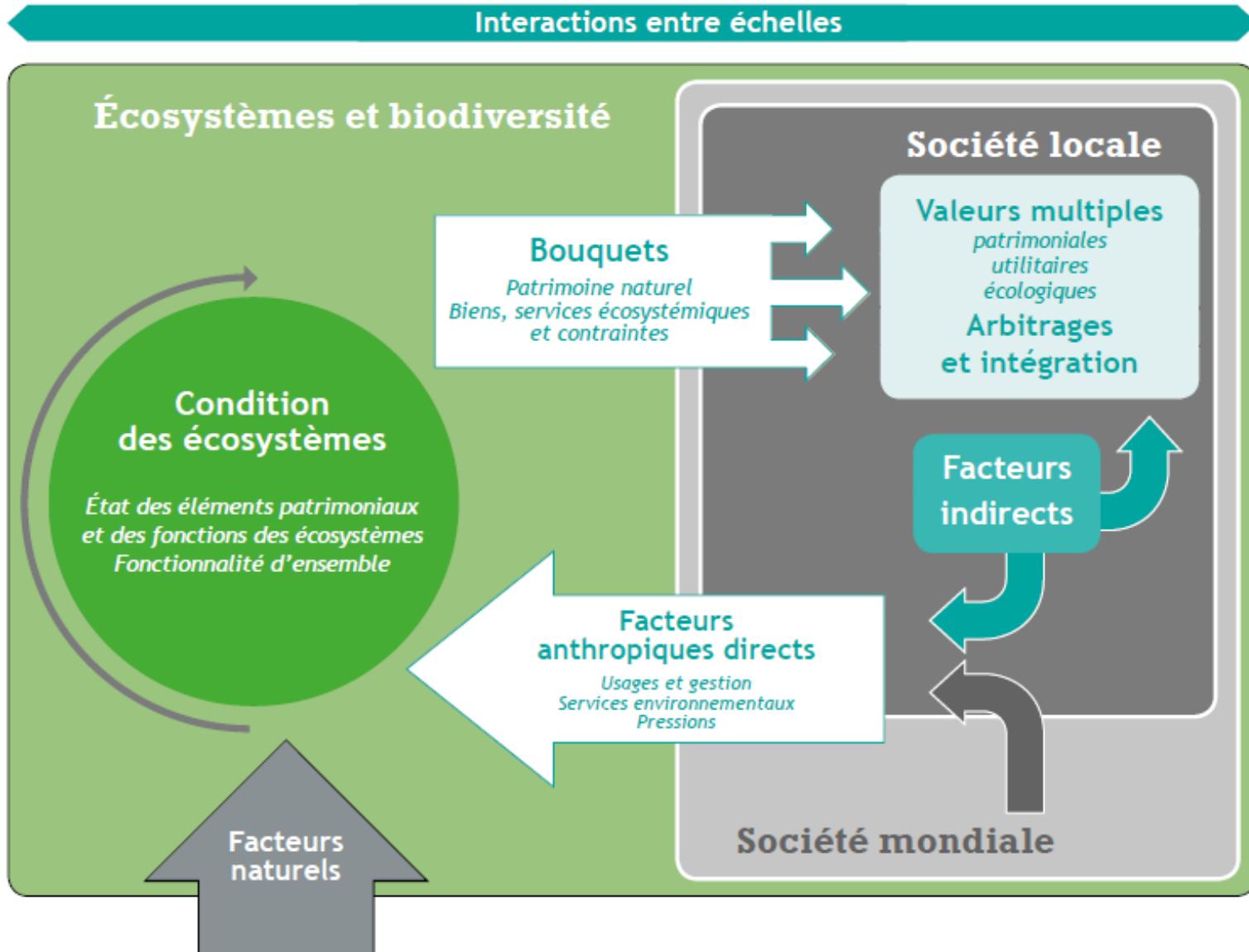
Results from the French national ecosystem assessment

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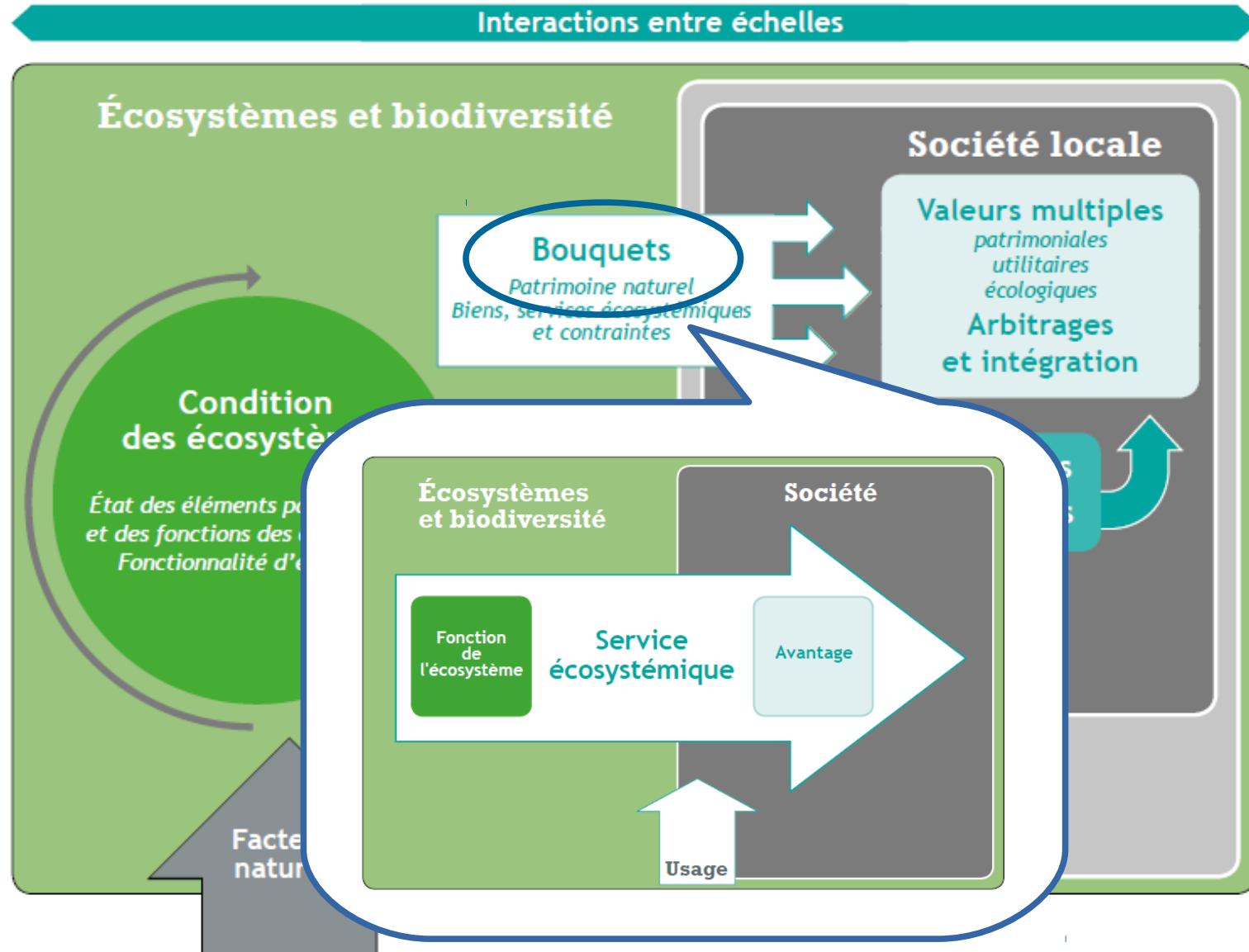
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The EFSE program, a structured framework for policy-relevant assessment

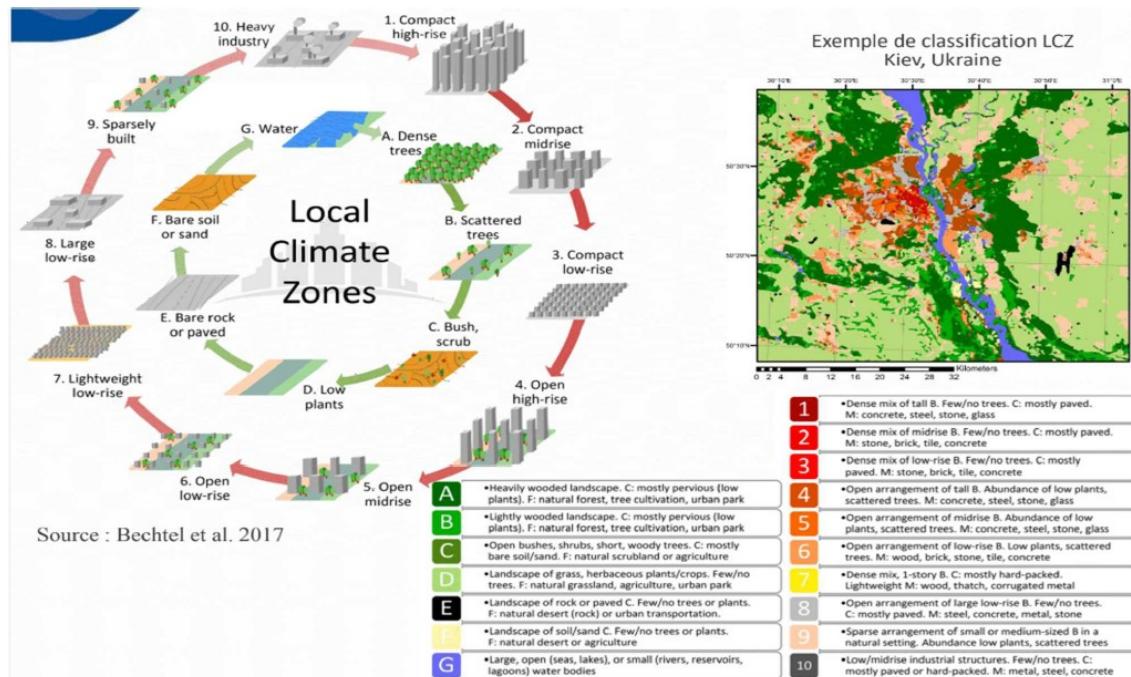


The need for shared, precise and relevant concepts



Some examples relevant to the Mediterranean region

Climate change adaptation: an evaluation of local climate regulation in the Ile-de-France region.



Some examples relevant to the Mediterranean region

Climate change mitigation : a national evaluation of *in situ* carbon sequestration



Crédit photographique : INPN, MNHN

A locally large but also small overall value at national scale

	Stock de référence (tCO _{2eq} /ha)	Flux de séquestration de long terme de référence (tCO _{2eq} /ha)	Flux perpétuel de long terme de référence (tCO _{2eq} /ha/an)	Valeur de référence du SE en 2017 (€ ₂₀₁₇ /ha)	
M2_ME_D_P	Zone d'herbiers de la région méditerranéenne protégée	326	331	3	51528
M2_ME_D_NP	Zone d'herbiers de la région méditerranéenne non-protégée	326	331	0	33483

And many more !

... coastal erosion regulation, protection against natural hazards, disease regulation, iconic species and eco-tourism, etc.

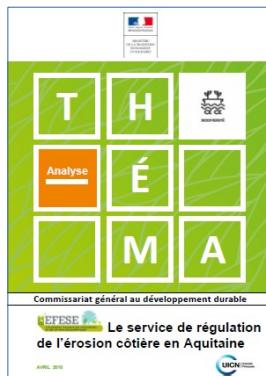
Challenges for measuring the benefits of Nature-based solutions

Make the case but... benefits of NbS are :

- 1 - **more uncertain** as consolidated scientific evidence is often missing
 - need to account for the value of learning and maintaining options
 - need to diversify options

- 2 - **more diverse** as ecosystems are fundamentally multifunctional
 - need to recognise non-market values
 - need to account for a diversity of values in an integrated framework
 - need to widely associate stakeholders

In conclusion, simplistic CBA would dismiss the profound rationale of NbS and the necessity of an immediate, ambitious and diversified action.



Examples from the EFSE :

- resilience of *in situ* carbon sequestration
- evaluation of coastal erosion regulation.



Thank you

For more information :

The screenshot shows the official webpage for the French Evaluation of Ecosystems and Services (EFEESE). It features the French flag and the text "Ministère de la Transition écologique et solidaire". The main content is titled "L'évaluation française des écosystèmes et des services écosystémiques" and discusses the purpose of the evaluation, its methodology, and its role in decision-making. The page includes a sidebar with news, policies, and contact information.

A webpage

The screenshot shows the social network interface for the EFEESE project. It features a header with the French flag and the EFEESE logo. The main feed displays posts from users, including a post about the 2018 seminar and another about the results of the evaluation. The interface includes sections for user profiles, groups, and a search bar.

A social network