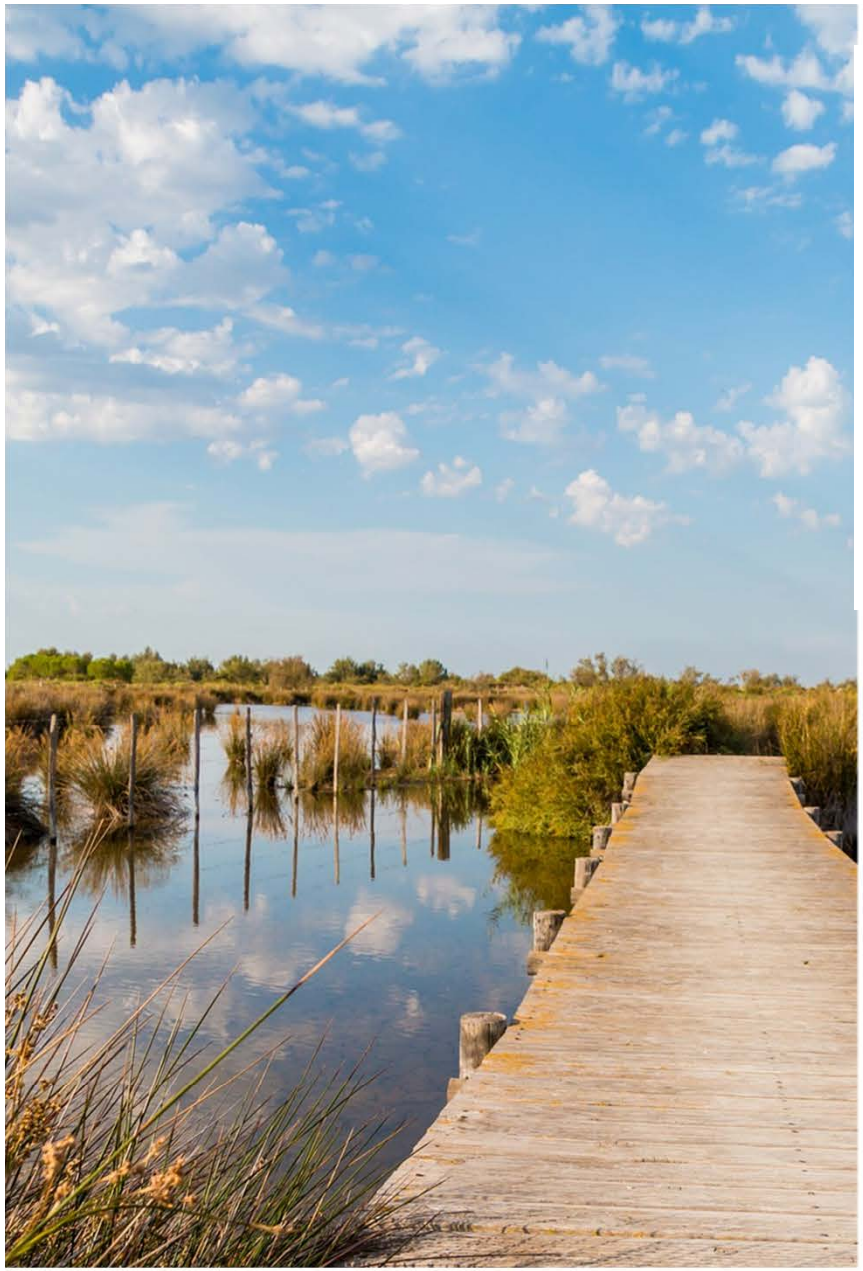


Workshop on Implementation of
Nature-based Solutions to tackle climate change

Session 3a : research and stakeholder engagement

Marseille (France)
22-24 January 2019

BiodivERsA :
* Promoting research on Nature-based solutions
* Promoting stakeholder engagement for maximizing the impact of this research

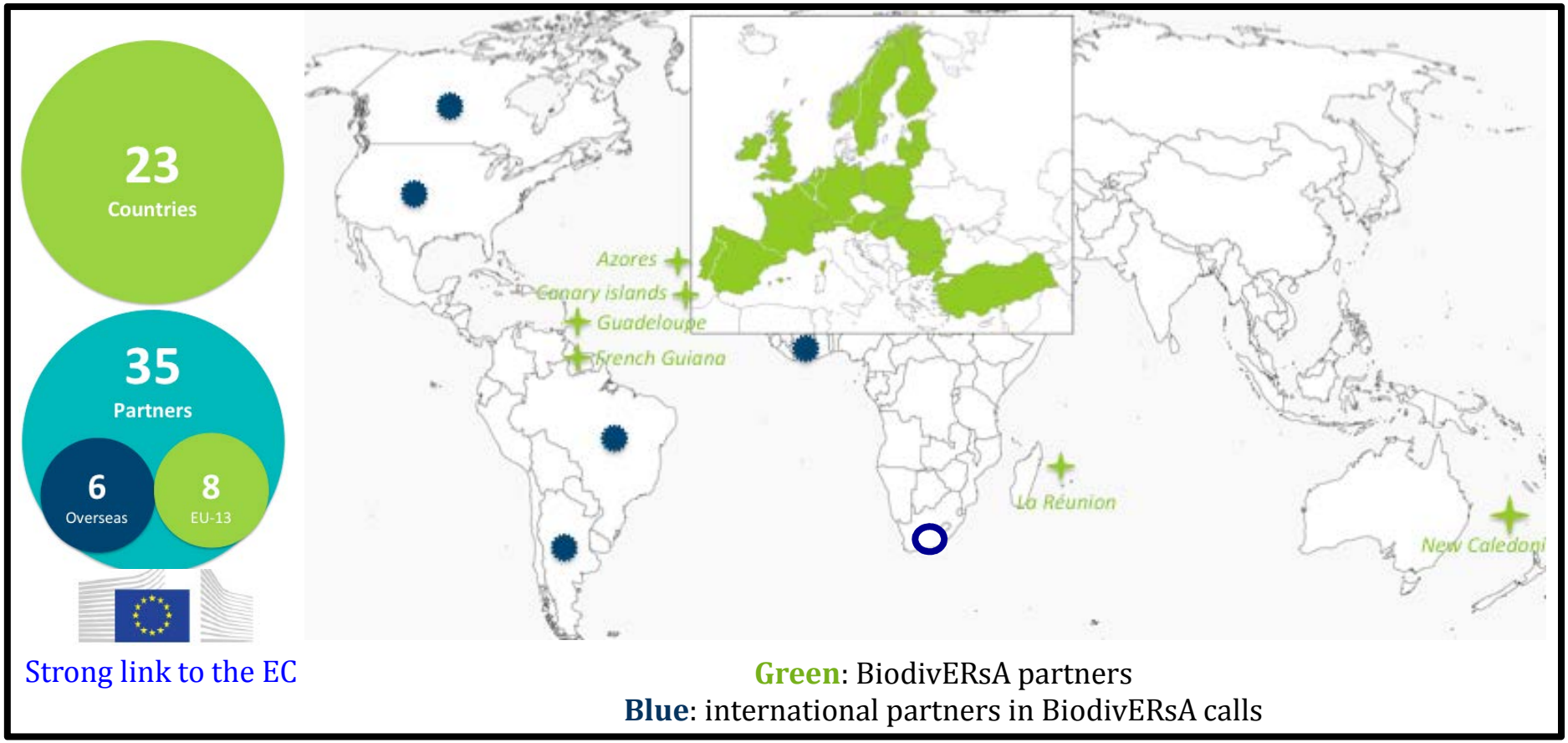
Xavier Le Roux (FRB - Coordinator and CEO of BiodivERsA)

www.biodiversa.org

@BiodivERsA3

NBS Conference (Marseille, 21/01/2019)

BiodivERsA : the European network of national/local programmers & funders of research on Biodiversity and NbS (Ministries and agencies)



Strong link to the EC

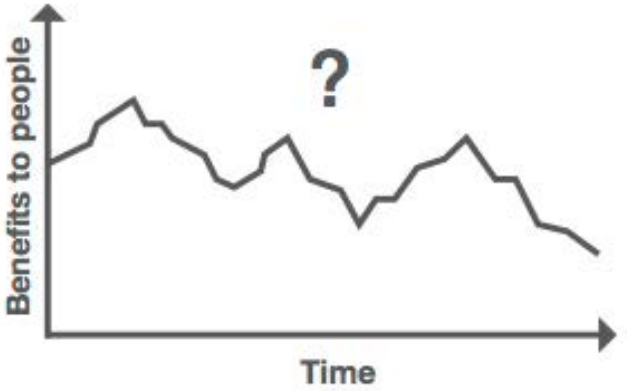
Green: BiodivERsA partners
Blue: international partners in BiodivERsA calls

Usual 'solutions' based on non sustainable exploitation of biodiversity

Over-fishing

Intensive agriculture

Cities based on grey infrastructures

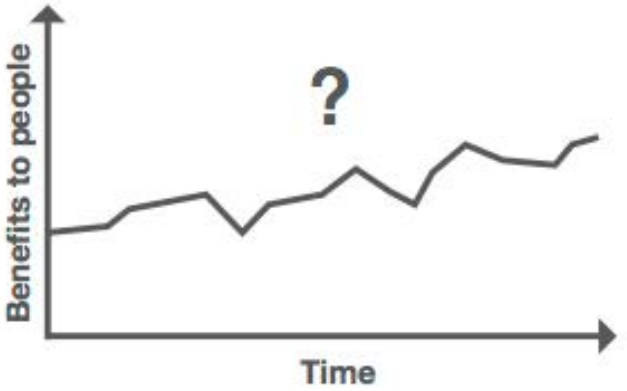


Nature-based 'solutions' based on the protection and sustainable management of biodiversity

MPAs and reduced fishing on target species

Agro-ecological approches

Urban NbS



BiodivERsA Strategic Reseach & Innovation Agenda (2017)

NBS are addressed across the range of BiodivERsA activities

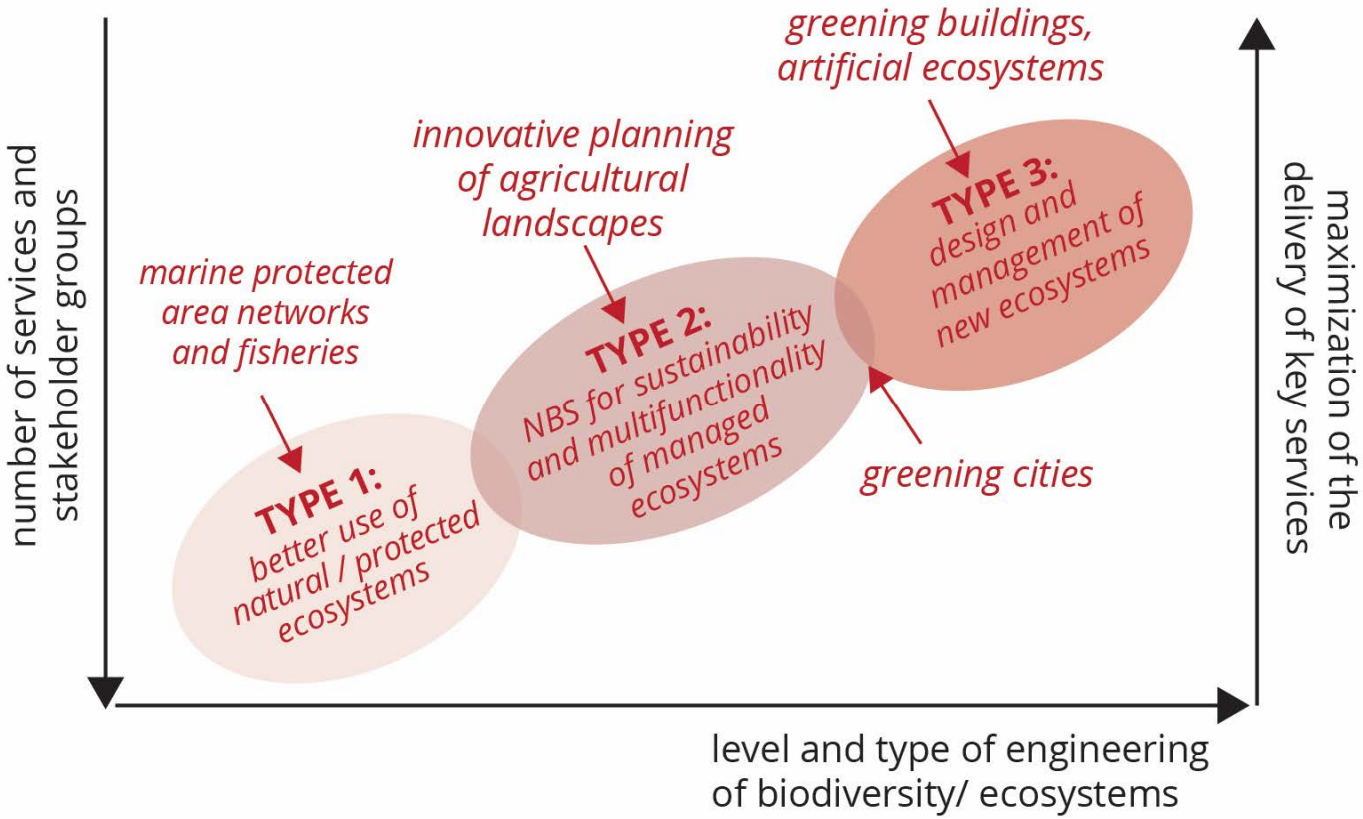
Framing & typology of NbS

NBS in research programming

Science-society/policy interfacing for NbS

NBS in BiodivERsA calls

TYPOLOGY OF NbS:



Eggermont et al. (2015) Nature-Based Solutions:
New influence for Environmental Management Research in Europe. GAIA Ecological Perspectives for science and society

Type 1 NBS : No/weak intervention on ecosystems.
Objectives = preserve/reinforce a range of ecosystem services within and beyond the protected ecosystems

Ex: protection of mangroves; set up of MPAs

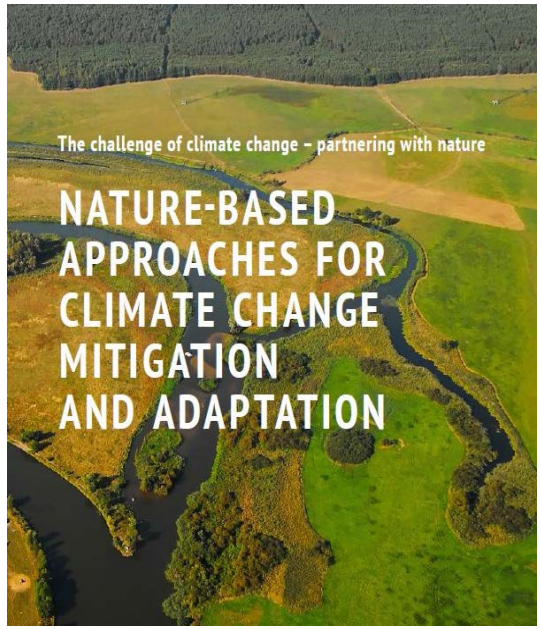
Type 1 NBS related to the concept of biosphere reserves (core zones for nature protection + buffering and transition zones)

Eggermont et al. (2015) GAIA

Type 2 NBS : Approches for increasing the sustainability / multifunctionality of ecosystems, and service delivery

Ex: development of multifunctional agricultural landscapes; management of tree species and genetic diversity for increasing forest resilience facing extreme events

Type 2 NBS related to concepts like Natural Systems Agriculture, agro-ecology, evolutionary-orientated forestry…



Eggermont et al. (2015) GAIA

Type 3 NBS : Intensive management of ecosystems, possibly creating new ecosystems

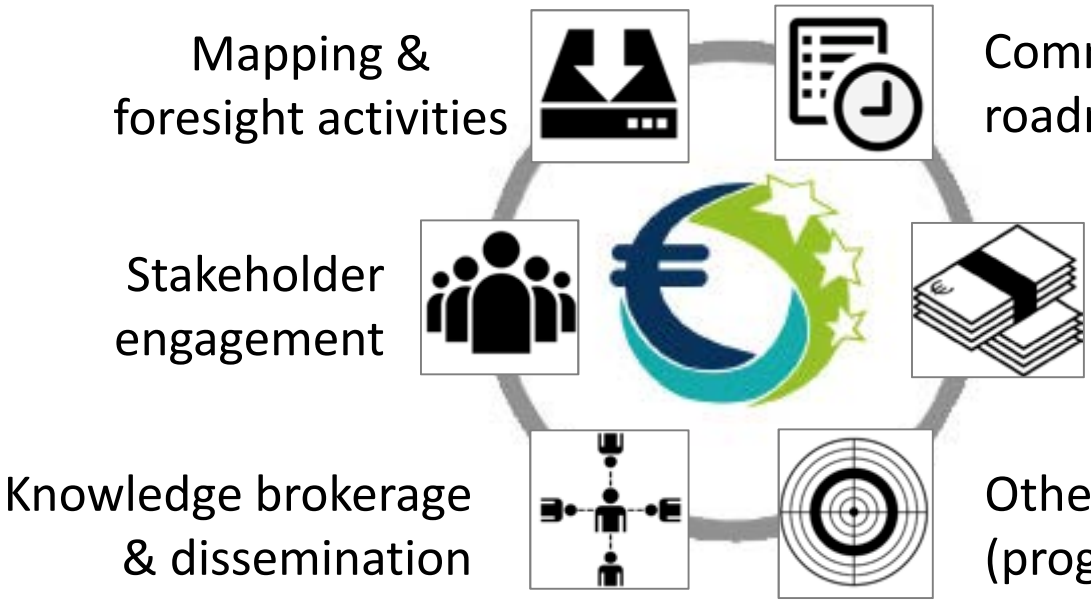
Ex: Creation of new assemblages of species/genotypes for greening cities

Type 3 (et 2) NBS related to concepts of GBIs, ecological enginering, restoration of disturbed/polluted ecosystems

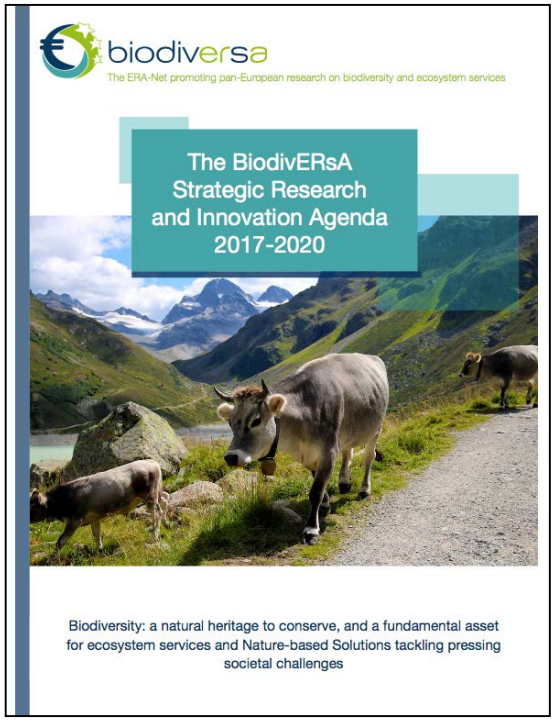
Eggermont et al. (2015) GAIA

NBS are addressed in BiodivERsA activities

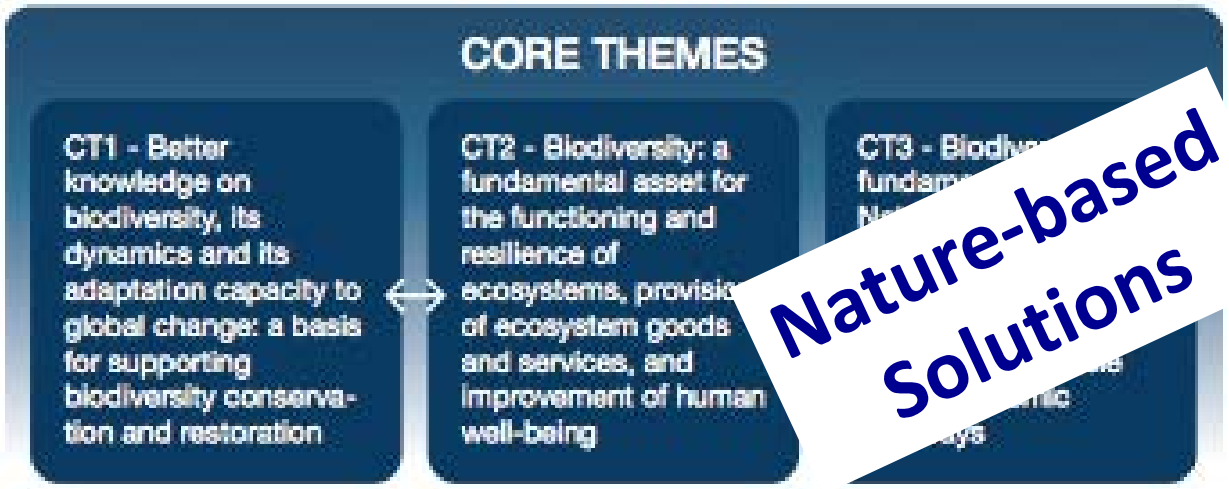
NBS in research programming



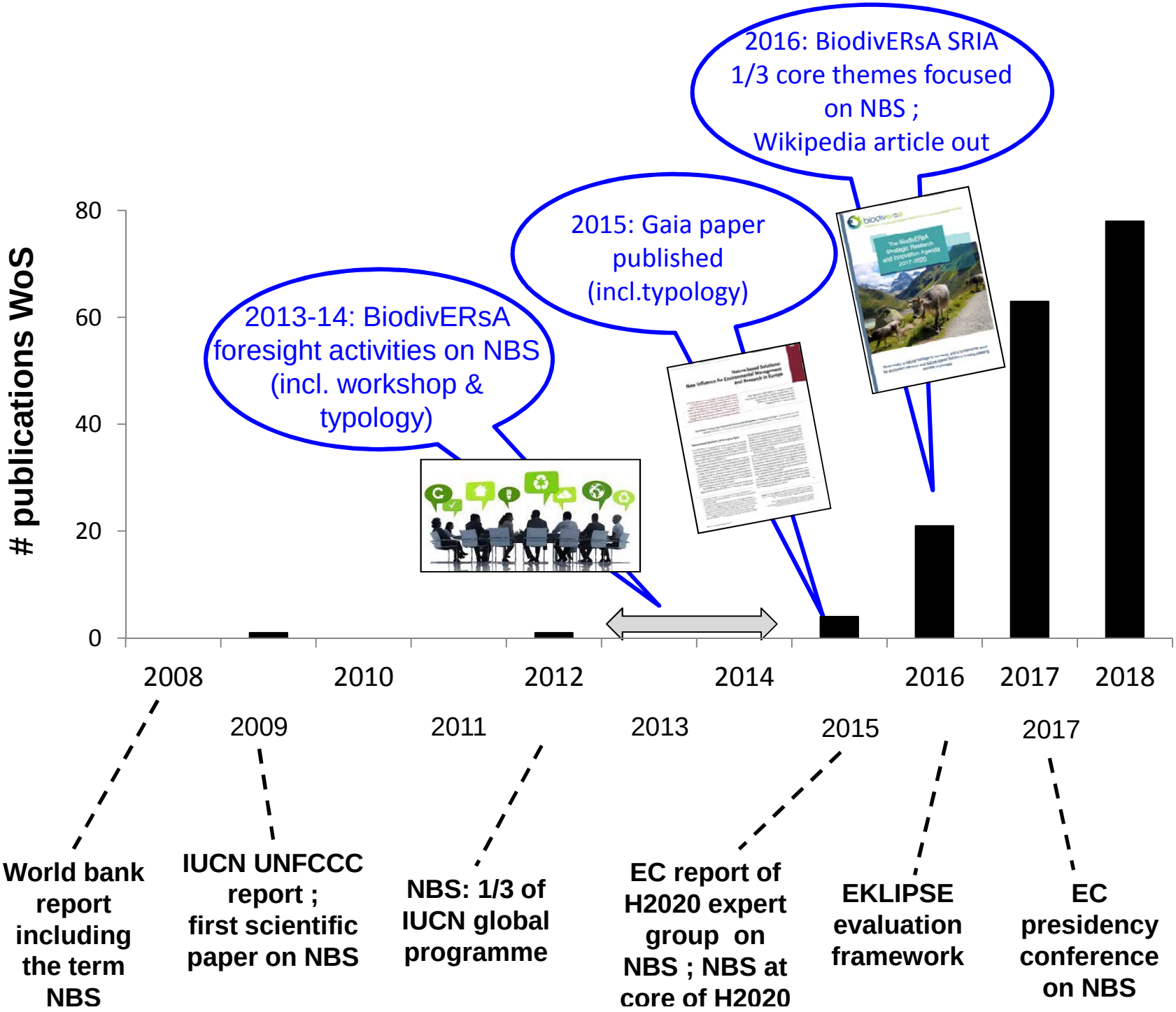
NbS at the core of joint programming for research



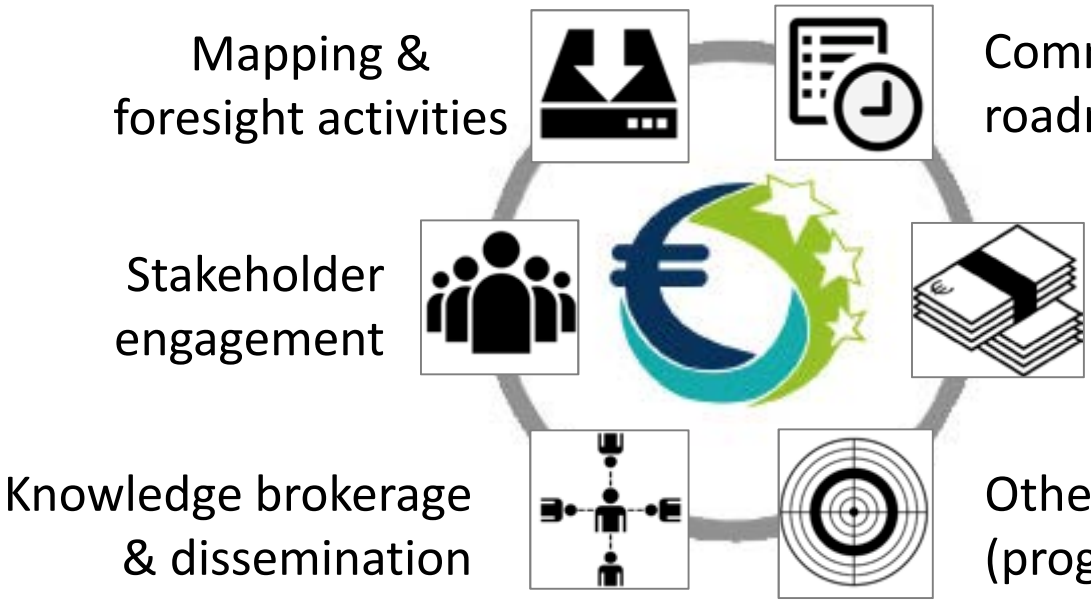
The latest BiodivERsA SRIA : 2016



http://www.biodiversa.org/1226


2016: BiodivERsA SRIA
1/3 core themes focused
on NBS ;
Wikipedia article out
2015: Gaia paper
published
(incl.typology)
2013-14: BiodivERsA
foresight activities on NBS
(incl. workshop &
typology)
publications WoS
80
60
40
20
0
2008
2010
2012
2014
2016
2017
2018
2009
2011
2013
2015
2017
World bank report including the term NBS
IUCN UNFCCC report ; first scientific paper on NBS
NBS: 1/3 of IUCN global programme
EC report of H2020 expert group on NBS ; NBS at core of H2020
EKLIPSE evaluation framework
EC presidency conference on NBS

NBS are addressed in BiodivERsA activities



Calls for research proposals, incl. NbS projects

- 2017-18 AAP COFUND (with Belmont Forum) on scenarios:

➔ 135 proposals; 21 funded projects (for 28 Mio €)

- 2018-2019 AAP on biodiversity & heal[illegible]

>10 Mio €

- 2019-2020 AA[illegible] & climate change

>18 Mio €

2008-2017: 113 Mio €
2008-2020: 160 Mio €

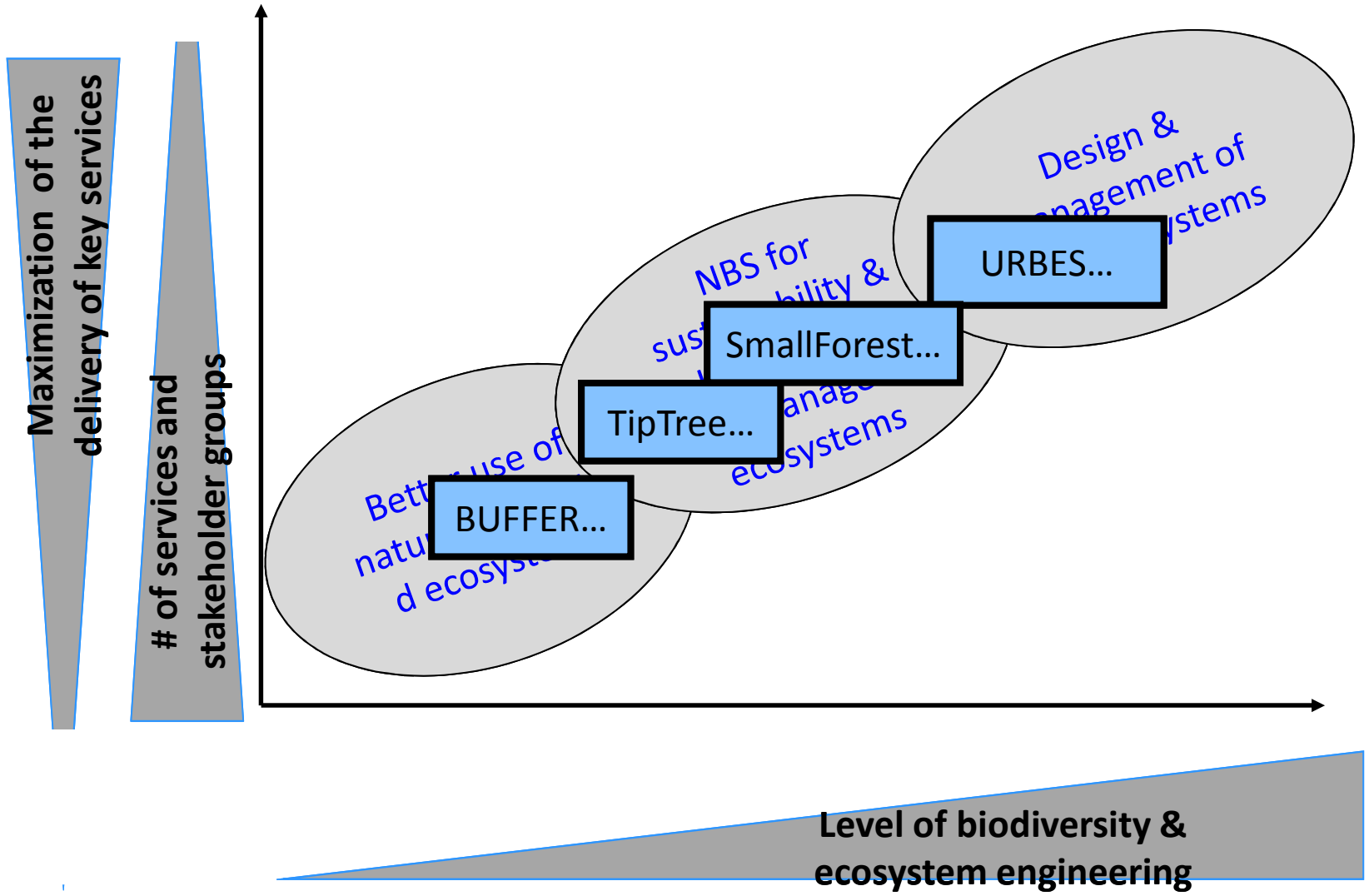
- Proposal for a 2020 COFUND (with Water JPI) on 'restoration'

>15 Mio €

BiodivERsA calls

- Call texts: by scientists & stakeholders
- Selection criteria: Academic excellence + societal relevance + stakeholder engagement
- Evaluation commitee: scientific experts + stakeholders
- Monitoring: academic impacts & impacts for stakeholders, policy stakeholders, innovation...

Research projects on all types of NBS supported by BiodivERsA:



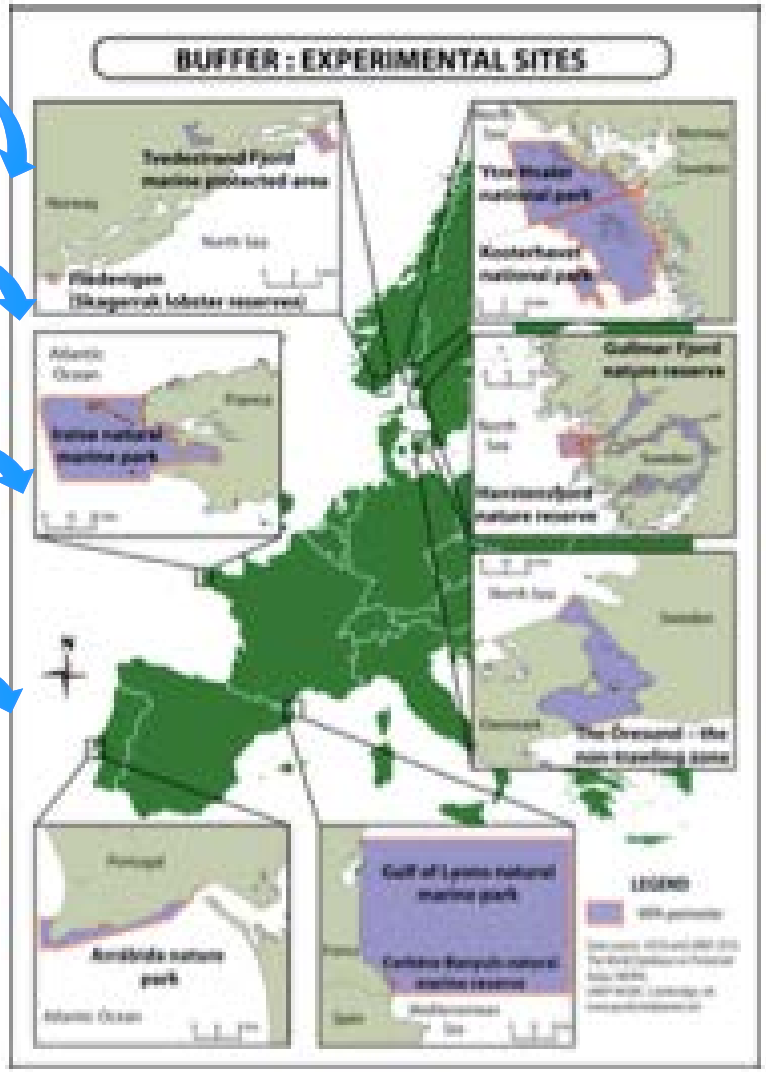
Ex : the BUFFER project

Representatives of AMPs

Regional fisheries commitee

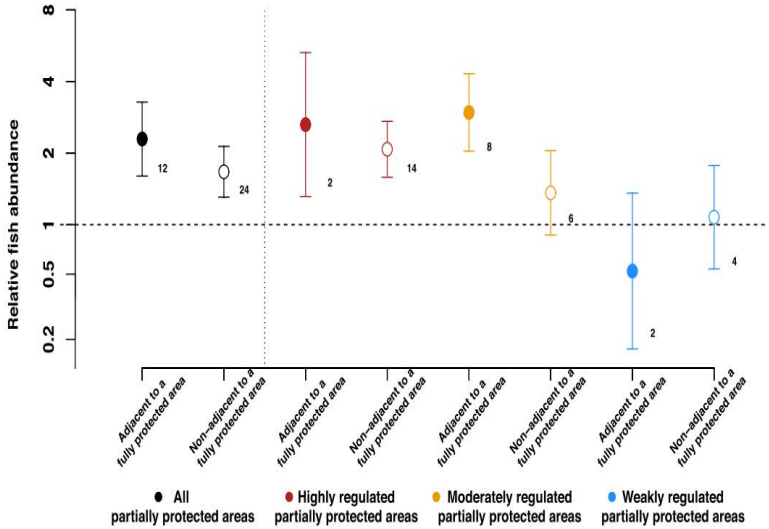
1 SME

Local policy makers

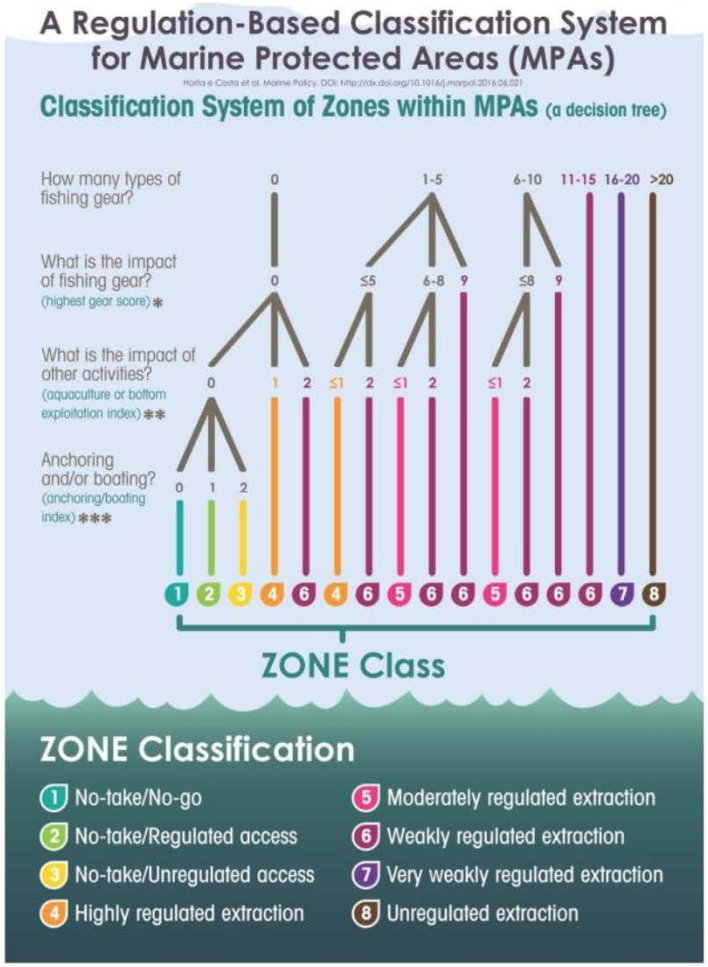


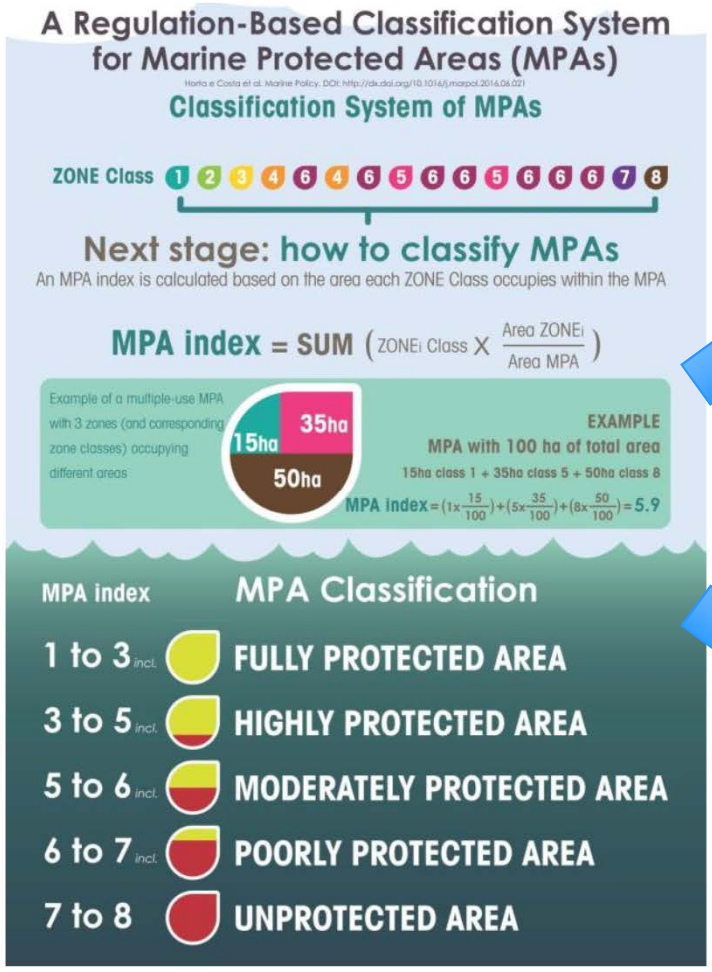
23 scientific papers

Ecological efficiency / protection types



BUFFER : result use





Revision of AMP management plans
Ex: Arrabida Marine Park (PT)

Guide for decision uptaken by managers (MedPAN -> global)

NBS are addressed in BiodivERsA activities

Mapping & foresight activities

Common strategic roadmap

Science-society/policy interfacing for NbS

Stakeholder engagement

Research funding

Knowledge brokerage & dissemination

Other joint activities (programme alignment; mobility schemes…)

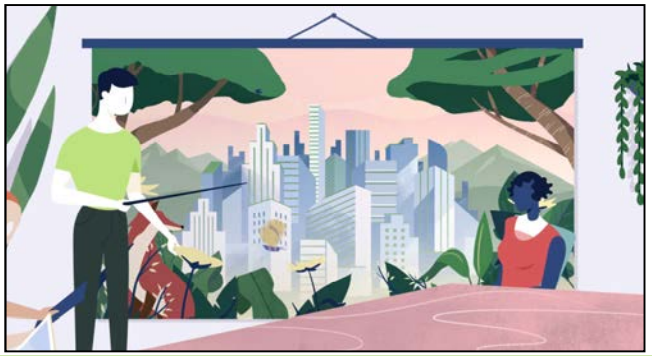
Knowledge brokerage & dissemination

- Policy briefs

- Collaboration with IPBES
- OPPLA plateform

- Video (*BiodivERsA prize for excellence and impact*)

On YouTube



Support to science-society interfacing

STAKEHOLDER ENGAGEMENT

- **A devoted handbook with tool-kit**

(2014)
➔ *BiodivERsA web site*

ENGAGEMENT OF POLICY STAKEHOLDERS

- **A guide for engaging policy stakeholders**

(Dec 2018) ➔ *BiodivERsA web site*

Take-home message

The NbS agenda: a change of mindset needed !

Disciplinarity ➔ Inter/Trans-disciplinarity
One silo ➔ Desoloing, addressing tradeoffs and underlying conflicts
Simplicity ➔ Complexity
Predictibility ➔ Uncertainty
Short term benefits ➔ Longer term sustainability

… calling for more systemic approaches in research…

… thanks to more systemic approaches in research programming and funding

Thank You!

BiodivERsA3 is funded by EC part of its H2020 programme



Announcement: 2 forthcoming BiodivERsA calls

Call to be launched in 2019
« *Biodiversity & climate change* » ;
with a theme on NbS
>18 Mio €
20 countries participating

Call to be launched in 2020
« *Restoration of biodiversity & degraded ecosystems* »
>15 Mio €
17 countries participating