Nature based Solutions 'NbS'



CONAMA LOCAL TOLEDO MARCH 2019

Andrés Alcántara

Katia Aikas

Ilias Ben Satti

Corporate Development Department International Union for Conservation of Nature (IUCN) – Center for Mediterranean Cooperation



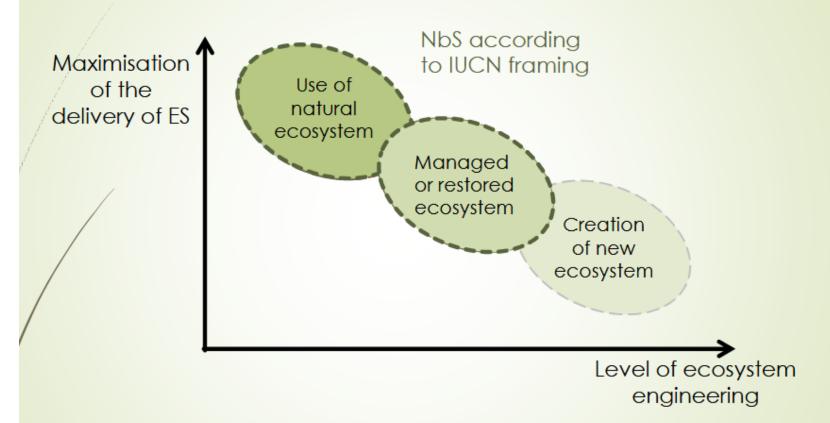


EVOLUTION OF THE NATURE-BASED SOLUTIONS CONCEPT



TYPOLOGY OF NBS





Adapted from: Balian E. et al., 2014. Outputs of the Strategic Foresight workshop "Nature-Based Solutions in a BiodivERsA context", Brussels. BiodivERsA report, 45 pp



DEFINITION OF NBS

Nature-based Solutions (NbS) are defined by IUCN as "actions to protect, sustainably manage, and restore natural or modified ecosystems, that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits".

(WCC-2016-Res-069-EN)



*Societal challenges: climate change, food security, water security, human health, natural disasters, social and economic development

Nature-based solutions:

- Criterion 1. NbS conserve, restore and sustainably use ecosystems for the benefit
 of people without compromising natural values
- Criterion 2. NbS maintain native biological and cultural diversity
- Criterion 3. NbS are adaptive to enable society to respond to change Criterion 4.
 NbS produce societal benefits while seeking to balance trade-offs
- Criterion 5. NbS are planned and implemented at an appropriate scale
- Criterion 6. NbS may be complemented by other types of interventions
- Criterion 7. NbS are integrated and mainstreamed into relevant policy and regulatory frameworks





NbS can address several SDGs:



NbS could be incorporated as a major tool to mainstream biodiversity, and for joining the three Rio conventions (UNCCD, UNFCCC, CBD) (Side event #2864 – CBD COP – Dec 2018)

NBS CAN ADDRESS SEVERAL SDGS



NBS-relevant SDGs and MSSD Objectives		
Theme	UN SDG #	MSSD Objective
Climate Change	SDG 13 (Climate Action)	Objective 4: Addressing climate change as a priority issue for the Mediterranean
Food Security	SDG 1 (No Poverty) ; SDG 2 (Zero Hunger)	Objective 2: Promoting resource management, food production and food security through sustainable forms of rural development
Water Security	SDG 6 (Clean Water and Sanitation)	Cross-cutting, mostly addressed under Objective 2 (see above)
Urban Areas	SDG 11 (Sustainable Cities and Communities)	Objective 3: Planning and managing sustainable Mediterranean cities
Ecosystems	SDG 14 (Life below Water); SDG 15 (Life on Land)	Objective 1: Ensuring sustainable development in marine and coastal areas ; Objective 2 (SD 2.1, 2.3)
Health & Well-being	SDG 3 (Good Health and Well-being)	Cross-cutting, addressed under several Objectives

- > The use of Nature as solution for societal challenges.
 - Why do we need a standard for NbS?
 - Ensure quality of the NbS interventions
 - Safeguard nature from overexploitation
 - Build common language and understanding
 - Incentivize positive sustainable change
 - Engage stakeholders

Why are we setting a global standard?

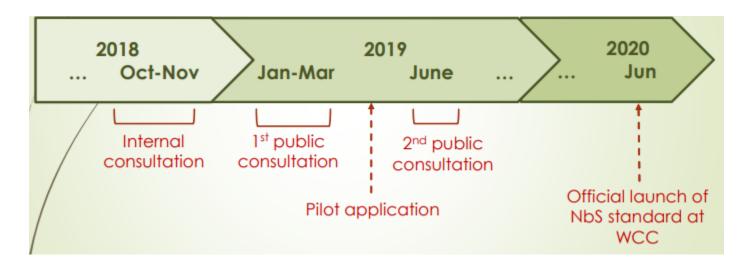
- > Apply it across a wide range of contexts and sectors
- Guide policy formulation
- > Be relevant to the private sector
- Actions and impact at scale







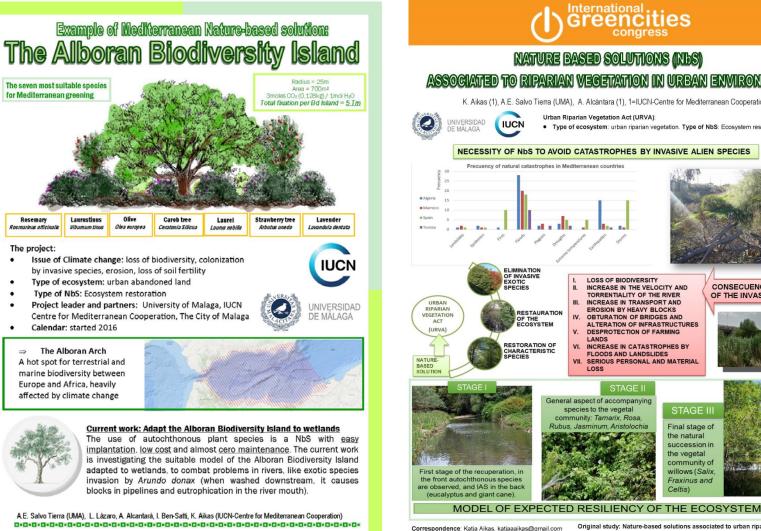
TIMELINE FOR FINALISING THE NBS STANDARD



Interested in reviewing NbS Standard / testing standard in your case-study?

nbsstandard@iucn.org

EXAMPLES OF NATURE-BASED SOLUTIONS IN PRACTICE



Correspondency Andrés Alcántara Valero Tel: + 952 02 84 49

Rosemary

Rosmarinus officin

The project:

٠

٠

 \Rightarrow

Original study. Estudio de SbN aplicables a un proyecto de zona verde: Modelo de Islas de Biodiversidad Albiránica para el Parque Comandante Benítez (Málaga) Salvo et al. 2018

International Greencities

IUCN

NATURE BASED SOLUTIONS (NDS) ASSOCIATED TO RIPARIAN VECETATION IN URBAN ENVIRONMENT K. Aikas (1), A.E. Salvo Tierra (UMA), A. Alcántara (1), 1=IUCN-Centre for Mediterranean Cooperation) Urban Riparian Vegetation Act (URVA): **IUCN** • Type of ecosystem: urban riparian vegetation. Type of NbS: Ecosystem restoration. NECESSITY OF NbS TO AVOID CATASTROPHES BY INVASIVE ALIEN SPECIES Frecuency of natural catastrophes in Mediterranean countries EL IMINATION INVASIVE OF INVASIVE LOSS OF BIODIVERSITY ALIEN CONSECUENCES ECIES INCREASE IN THE VELOCITY AND SPECIES TORRENTIALITY OF THE RIVER OF THE INVASION INCREASE IN TRANSPORT AND EROSION BY HEAVY BLOCKS RESTAURATION OBTURATION OF BRIDGES AND IV. OF THE ECOSYSTEM ALTERATION OF INFRASTRUCTURES DESPROTECTION OF FARMING V. LANDS RESTORATION OF INCREASE IN CATASTROPHES BY VI. FLOODS AND LANDSLIDES PECIES VII. SERIOUS PERSONAL AND MATERIAL LOSS STAGE II General aspect of accompanying species to the vegetal STAGE III community: Tamarix, Rosa, Final stage of Rubus Jasminum Aristolochia the natural succession in the vegetal

K. Aikas et al. (2019)

community of

willows (Salix,

Fraxinus and

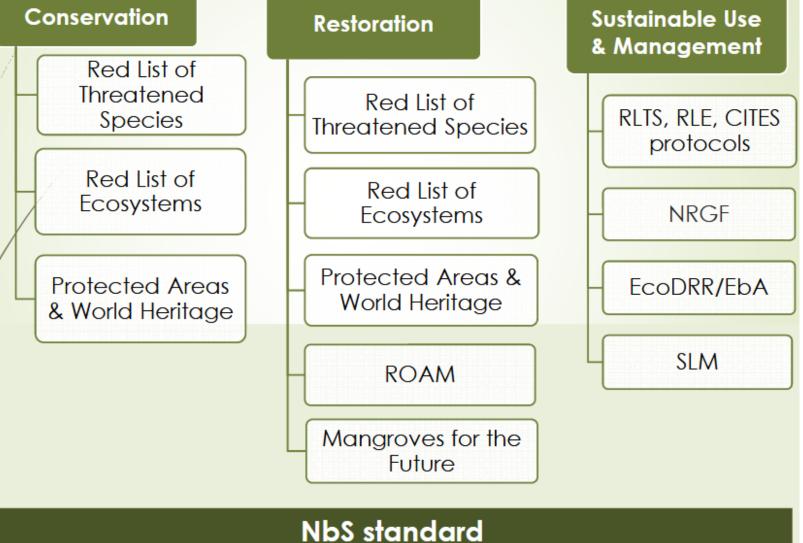
Original study: Nature-based solutions associated to urban riparian vegetation.

Celtis)

www.igcmalaga.com

BUILDING ON EXISTING WORK





Global standard for Nature-based Solutions

7 proposed criteria (and 33 indicators):

- 1. Nature and biodiversity
- 2. Transparency and inclusion
- 3. Adaptive management, governance & monitoring
- 4. Trade-offs
- 5. Landscape/seascape scale
- 6. Synergies (with other types of interventions)
- 7. Policy integration



NBS GLOBAL STANDARD

> NbS Global Standard - Public Consultation

https://www.iucn.org/news/ecosystem-management/201901/informing-globalstandard-nature-based-solutions

IUCN is creating a standard aiming to create a common understanding and consensus on what constitutes a good NbS. It is intended to be a simple yet robust hands-on tool that informs the planning, design and implementation of an NbS, especially as an alternative to other types of development interventions such as hard infrastructure. A public survey is currently open:

https://www.surveygizmo.com/s3/4757394/IUCN-Global-Standard-for-Naturebased-Solutions





THANK YOU!



Andrés Alcántara Katia Aikas Ilias Ben Satti

Corporate Development Department International Union for Conservation of Nature (IUCN) – Center for Mediterranean Cooperation

Contact: andres.alcantara@iucn.org