

**Sergio Castellari**

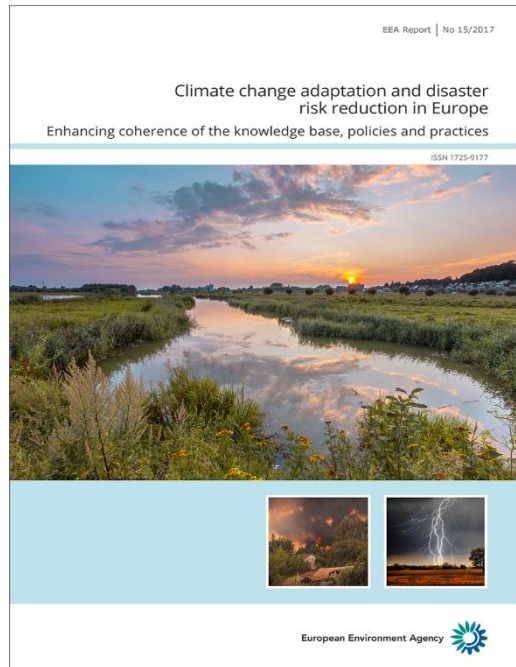
*13th EIONET Workshop on Climate Change Impacts, Vulnerability and Adaptation*

12-13 June 2019, EEA, Copenhagen

# 2019-2020 EEA activity on Ecosystem-based approaches for climate change adaptation and disaster risk reduction

# 2017 EEA REPORT: Climate change adaptation and disaster risk reduction in Europe

## - Enhancing coherence of the knowledge base, policies and practices



The report presents:

- **Main global and European policies on CCA and DRR**
- **Knowledge base on weather-and climate-related hazards and their impacts**
- **18 case studies in Europe**
- **Good practice examples of linking CCA and DRR**
- **Opportunities and benefits from linking CCA and DRR in Europe**

Among the 6 identified good practices:

- **Financing Nature-based Solutions for CCA and DRR in European countries.**
- **Nature-based Solutions are prime example to mitigate natural hazard risks and boost societal resilience that address both CCA and DRR.**

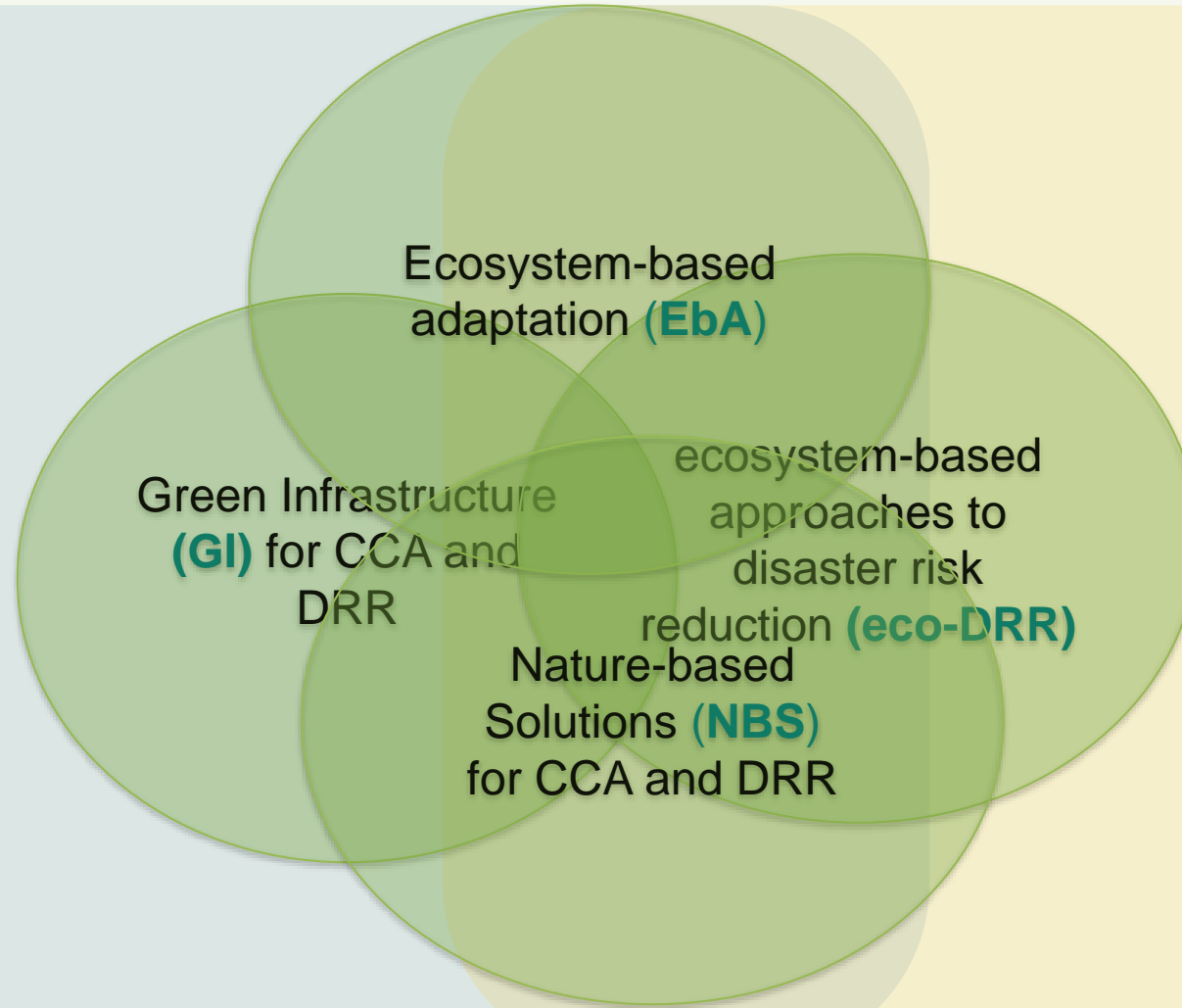
This EEA report is available on-line:

<https://www.eea.europa.eu/publications/climate-change-adaptation-and-disaster>

# Ecosystem-based approaches for CCA and DRR

*biodiversity, ecosystems, ecosystems services*

Climate  
Change  
Adaptation  
(CCA)



Disaster Risk  
reduction (DRR)

# International and EU Policy framework:

- Paris Agreement - UN Framework Convention on Climate Change (UNFCCC)
  - Sendai Framework on DRR
  - United Nations Convention on Biological Diversity (CBD)
  - Sustainable Development Goals (SDGs)
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- EU Strategy on Adaptation to Climate Change (2013) and evaluation of the EU Adaptation Strategy (2018)
  - EU Civil Protection Mechanism (2013)
  - EU Floods Directive (EU, 2007)
  - EU Water Framework Directive (2000)
  - EU Nature Directive
  - EU Biodiversity Strategy to 2020 (2012)
  - EU Strategy on Green Infrastructure (2013)
  - mid-term review of the EU Biodiversity Strategy to 2020 (2015)
  - EU Action Plan for nature, people and the economy (2017)
  - EU policy report on implementation of the Thematic Strategy for Soil Protection (2012)
  - Natura 2000 network



# Knowledge base:

- EU Research and Innovation agenda on '**Nature-Based Solutions and Re-Naturing Cities**' to enable Europe to become a world leader both in R&I and in the growing market for NBS.
- Several EU funded research projects: **MACIS, BRANCH, ATEAM, Ecologic, Habit-change, MIRACLE, BIO-C3, BAMBI, ATLAS, MPA-ADAPT, EKLIPSE, EMBRACE, ESMERALDA, OPENNESS, PLACARD**
- Recent H2020 NBS projects : **OPERANDUM, PHUSICOS, proGireg, RECONNECT, URBIN, NATURVATION**
- Established **web-based knowledge portals** and **multi-stakeholder coordination platforms**:

# Relevant established portals and platforms relevant at EU level:

Policy	Key EU Mechanism:	Ecosystem-based Approach:	Web-based knowledge portals and multi-stakeholder coordination platforms:
Climate change adaptation	<i>EU Strategy on Adaptation to Climate Change</i>	<b>EbA</b>	<b>ClimateAdapt</b>
Disaster risk reduction	<i>EU Action Plan on SFDRR 2015-2020</i>  <i>European Union Civil Protection Mechanism</i>  <i>EU Floods Directive</i>	<b>Eco-DRR</b>	<b>DRMKC, PEDRR</b>
Biodiversity	<i>EU Biodiversity Strategy to 2020</i>  <i>EU Strategy on Green Infrastructure</i>	<b>GI and, ecosystem restoration</b>	<b>BISE</b>
Water retention	<i>EU Water Framework Directive</i>	<b>Natural water retention measures</b>	<b>NWRM platform</b>
Research and innovation	<i>FP7 and H2020</i>	<b>NBS</b>	<b>Oppla, ThinkNature, Urban Nature Atlas</b>

# Relevant EEA - ETC/CCA activity in recent years:

- **2014** – EEA Technical Report “**Spatial analysis of green infrastructure in Europe**”
- **2015** - EEA Technical report “**State of nature in the EU - Results from reporting under the nature directives 2007–2012**”
- **2015** - EEA Report “**Exploring nature-based solutions — The role of green infrastructure in mitigating the impacts of weather- and climate change-related natural hazards**”
- **2016** - EEA Report “**Mapping and assessing the condition of Europe’s ecosystems: progress and challenges**”
- **2016** - EEA Report “**Flood risks and environmental vulnerability — Exploring the synergies between floodplain restoration, water policies and thematic policies**”
- **2016** – EEA Report “**Urban adaptation to climate change in Europe 2016 - Transforming cities in a changing climate** ”
- **2017** - EEA Report “**Green Infrastructure and Flood Management Promoting cost-efficient flood risk reduction via green infrastructure solutions**”
- **2017** - EEA Report “**Climate change adaptation and disaster risk reduction in Europe - Synergies for the knowledge base and policies**”
- **2018** - EEA Briefing “**Addressing climate change adaptation in transnational regions in Europe**”
- **2018** - ETC/CCA Technical Paper “ **Adaptation policies and knowledge base in transnational regions in Europe** ”
- **2019** - EEA Report “**Unequal exposure and unequal impacts: social vulnerability to air pollution, noise and extreme temperatures in Europe**”
- **2019** - JRC/EEA/ETC-ULS/DGENV Report “**Strategic Green Infrastructure and Ecosystem Restoration - Geospatial methods, data and tools**”
- **2020** - EEA Report to be published “**Floodplains: Ecosystems and mitigators of flood risk**”

# Task 1423: - Climate change adaptation and disaster risk reduction

## Expected main outputs (2019 – 2020):

1. To prepare an **Annotated Outline** and a **Scoping Paper** on different approaches of analysis of the topics related to NBS and GI for CCA/DRR, EbA and ecoDRR
2. To organise an **Expert Meeting**
3. To establish an **Advisory Group** for reviewing the Scoping Paper and for contribution/review of 2020 EEA Report
4. To prepare the **Annotated Outline of a 2020 EEA Report**
5. To contribute to **Climate-ADAPT pages on Ecosystem-based approaches**

- **EEA project manager**: Sergio Castellari (with the support of José Ramón Picatoste)
- **ETC/CCA task manager**: Jelle van Minnen (*PBL, The Netherlands*)
- **ETC/CCA task deputy manager**: Marie Vandewalle (*UFZ, Germany*)
- **ETC/CCA experts**: Marianne Zandersen (*AU, Denmark*), Mika Marttunen (*SYKE, Finland*), Jaroslav Mysiak (*CMCC, Italy*), Silvia Torresan (*CMCC, Italy*), Guido Rianna (*CMCC, Italy*), Joost Knoop (*PBL, The Netherlands*), Wolfgang Lexer (*EAA, Austria*)



# Our Activities in 2019:

No	Description:	Date:
<b>Activity 1</b>	Preparation of <b>Scoping Paper</b> 1) 1 <sup>st</sup> annotated Outline <b>2) Final annotated outline</b> 3) 1 <sup>st</sup> draft Scoping Paper 4) 2 <sup>nd</sup> draft Scoping Paper <b>5) Final version</b>	1) 28/02/2019 2) 01/04/2019 3) 31/05/2019 4) 15/07/2019 5) <u>30/09/2019</u>
<b>Activity 2</b>	<b>EEA Expert Meeting</b> Establishment of <b>Advisory Group</b>	13 – 14/03/2019 01/04/2019
<b>Activity 3</b>	<b>Annotated Outline of EEA Report</b>	<u>15/10/2019</u>
<b>Activity 4</b>	Update the <b>Climate-ADAPT</b> pages on <b>Ecosystem-based approaches</b>	<u>15/11/2019</u>

# Task 1.4.2.3 – Links to other tasks and other ETCs

- Linkages with other Tasks of the ETC/CCA AP2019:  
Task 1.4.3.1: Climate-ADAPT (on Ecosystem-based approaches)
- Linkages with other ETCs: ETC/BD and ETC/ULS
- Linkage with **EEA Natural Capital and Ecosystems (NCE)** program, in particular with NCE1 (Biodiversity and Nature Management) - Beate Werner and Gorm Dige

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# Thanks !

Email: [sergio.castellari@eea.europa.eu](mailto:sergio.castellari@eea.europa.eu)

# Some Questions:

- *Taking into consideration the annotated outline of the Scoping Paper, what are your views on the focus, objectives and approach of the EEA work on this topic?*
- *Which EEA activities within this topic have a high priority from your perspective?*
- *Are you interested to provide some support to this EEA work (e.g. providing some relevant information on these topics at national and subnational level, or reviewing the final draft of the Scoping Paper)?*

# Break out Group 6: Ecosystem-based Adaptation (1)

Chair: Sergio

Note takers: Silvia, Jelle

8 EIONET participants

## Q1 – Views on the Scoping Paper

UK:

- the knowledge stock taking part is already known;
- the second part of SP is more interesting.
- CC mitigation would be relevant because LULUCF is very relevant for the synergies in delivering.
- Some measures can deliver CCA, DRR, GI, decarbonisation and they can be dealt with in section 8.

# Break out Group 6: Ecosystem-based Adaptation (2)

## Q3 – Country support

### FRANCE (ONERC):

- 2019 thematic report on NBS, will be translated into EN at the end of the year (will provide Sergio with info). Dec 2018 2<sup>ND</sup> NAP includes NBS. Willing to review the Scoping paper in 2019. New Webportal on CCA, including NBS, will be launched in Sep/Oct.

### SLOVAKIA:

- 2019 1<sup>st</sup> NAP will include NAP. 4 Urban projects, including EbA practices. Will send info.

### OPCC:

They are Partner in the PHUSICOS H2020 project on NBS related to natural hazards in the mountains, with (>5) demonstration sites. Will provide contacts, info and are willing to review the Scoping paper.

# Break out Group 6: Ecosystem-based Adaptation (3)

## BELGIUM:

- A Platform on CCA policy initiatives from all the regions will be launched in September, including NBS. The Flemish Gov. has a platform on cc impacts at the municipal level, that will be further extended on how municipalities can implement NBS.
- A Flemish platform for Covenant of Mayors in Belgium also offers NBS. Will provide info and review the scoping paper. They participate in an Interreg 2Seas project 'Prowater' on payment for ecosystem services started in Sep.

## UK:

- 2018 Study on NBS for flood risk management with case studies and insights into financial/market mechanism to deliver NBS. Will provide info.