# Europe-INBO 2023: Workshop











# "River management in a climate change context: challenges and opportunities"

**18th October 2023** 

Hotel Meliá Oceanic







# **Workshop Agenda**

#### Introduction (45'):

- General introduction INBO
- OFB
- Impacts of Climate Change on Rivers (Biodiversity, Ecosystems Services, Resources...) Mr. Bart Fokkens
- River management and climate change in Spain → Impacts, consequences, examples of actions Ms. Tania Silva & Mr Emilio Real Llanderal

#### Working session # 1 – River management and climate change nowadays

- Restoration of the stream in the intermittent Cerknica Polje (Slovenia) Ms. Irena Likar
- Multiple benefits of reopening rivers in Oslo Mr Anders Iversen
- Participatory discussion time 30'
- Break : 15:40 → 15:55

#### Working session # 2 – Adapting river management to climate change

- Monitoring and evaluating actions in rivers in a climate change context Ms. Marlène ROLAN-MEYNARD & Mr. Stéphan JOURDAN
- Management of temporary rivers Ms. Alejandra Tierno Cinque
- Participatory discussion time 30'
- Conclusion: end → 5 PM





# Main objectives of this workshop

- Promote works and exchanges on current subject of interests at European level
- Presentations in different climatic contexts + time for discussion and debate

 Preparatory works with ECRR, OFB and Network representatives







# Rivers, at the heart of several regulations and uses





Energy Recreation

River management

Agriculture Transport

Regulation and policies

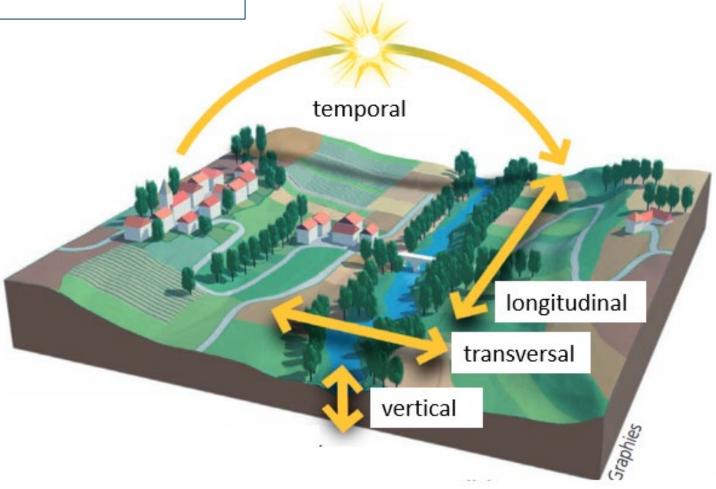
Uses and sectors





# The four-dimensional nature of river ecosystem

4 dimensions to be taken into account







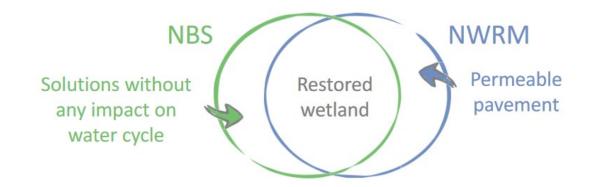
# NBS & NWRM

# Nature Based Solutions (NBS)

- Approaches that promote the protection, sustainable management and restoration of ecosystems
- Benefit both biodiversity and human well-being
- IUCN have developed a standard for the verification and design of NBS

# Natural Water Retention Measures (NWRM)

- Multi-functional measures
- Enhance and preserve the water retention capacity of aquifers, soils, and ecosystems
- Using natural means and processes







# Workshop-2022 – Annecy (France)



River Restoration: a European goal at the crossroads of several legislations

WFD

Ensuring restauration of watercourses is a necessary condition for achieving good ecological Status

Biodiversity for strategy 2030

Establishes several targets for aquatic ecosystems, and set the target to make at least 25 000 km of rivers free-flowin again by 2030

The current context of multiple crises was a central point of the event:

- ✓ Climate change
- ✓ Energy
- ✓ Loss of biodiversity
- ✓ Pollution





# Workshop-2022 - Annecy (France)

## RIVER RESTORATION: a European goal at the crossroads of several legislations

#### Aquatic ecosystems are under pressures

- ✓ Europe's rivers, lakes and alluvial habitats are under immense pressure.
- ✓ Ensuring the restoration of watercourses is a necessary condition for achieving good ecological status under the European Water Framework Directive

# **Biodiversity Strategy** for 2030

- ✓ Establishes several targets for aquatic ecosystems, and set the target to make at least 25 000 km of rivers free-flowing again by 2030
- ✓ It also proposes establishing legally binding rules to reach these targets.

A lot of countries are **already implementing measures** to restore **river continuity** like adding a fish passage or remove barriers.

### Europe-INBO 2022

September 26th 2022 - September 29th 2022 - Annecy, France

The current context of multiple crises was a central point of the event: energy, biodiversity, pollution, and climate change.

# A new dimension for River restoration









Europe-INBO workshop

#### Governance

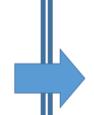
- ✓ Co-construction with all users, which especially means incorporating human and social sciences analysis.
- ✓ Information and awareness are crucial for citizens
- ✓ Information and training are still needed for decision makers

#### **Technical aspects**

- ✓ Some metrics still need to be developed
- ✓ The need of database of barriers, of habitats
- ✓ All the compartments of the ecosystem have to been taken into account
- ✓ ECRR also introduced the difference between 2 concepts when removing obstacles: prioritisation VS optimisation

#### Regulation and funding

- ✓ To strengthen the link from EU to regional and local level
- Simplify the administrative burden
- Land planning and land use are important to consider
- ✓ For the financing, many tools already exist. A lot of cross financing is leading sometimes to a loss of efficiency between projects



### **Webinar June 2023**

This webinar was organized jointly by INBO and the **European Centre for River Restoration (ECRR).** It celebrated the launch of the publication of a study on the development and present status of **8 National River Continuity Policies from Austria, Finland, France, Germany, Lithuania, Norway, Slovakia, Spain.** The following aspects of the results of the study have been presented and discussed:



The **EU Biodiversity Strategy 2030** needs complete policies with effective implementation to protect nature and restore eco-systems.



Replay available

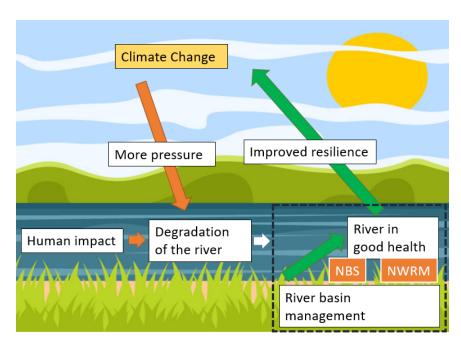






# River management and climate change

- Climate change causing or enhancing new pressures on rivers and causing difficulties for water resources management
  - How to manage rivers in a climate change context?
  - How can rivers in good health help to adapt to climate change?
  - What regulatory and other technical tools are available, what is missing?







# **Workshop Agenda**



"River management in a climate change context: challenges and opportunities"

A variety of presentations in different European countries

- 2 working sessions with participatory time
- → split group

Minutes of the presentations and work will be produced and shared







# Thank you for your attention and enjoy exchanging ...







