



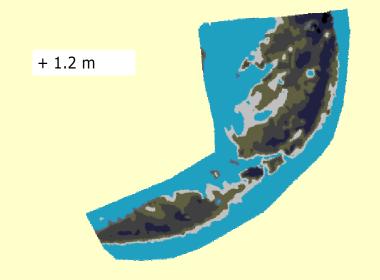


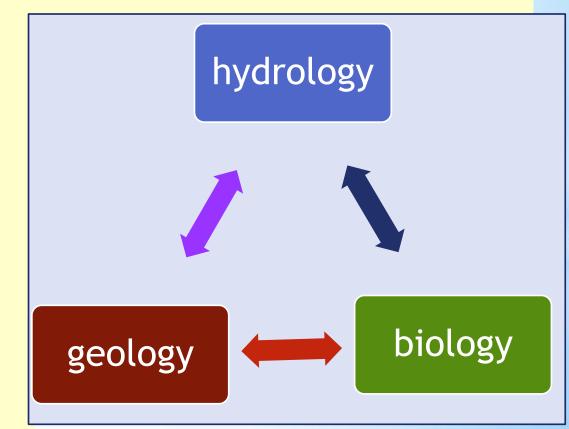
# RIVERS ecosystems

# Flood pulse concept



Rivers are the most dynamic and resilient ecosystems in the planet



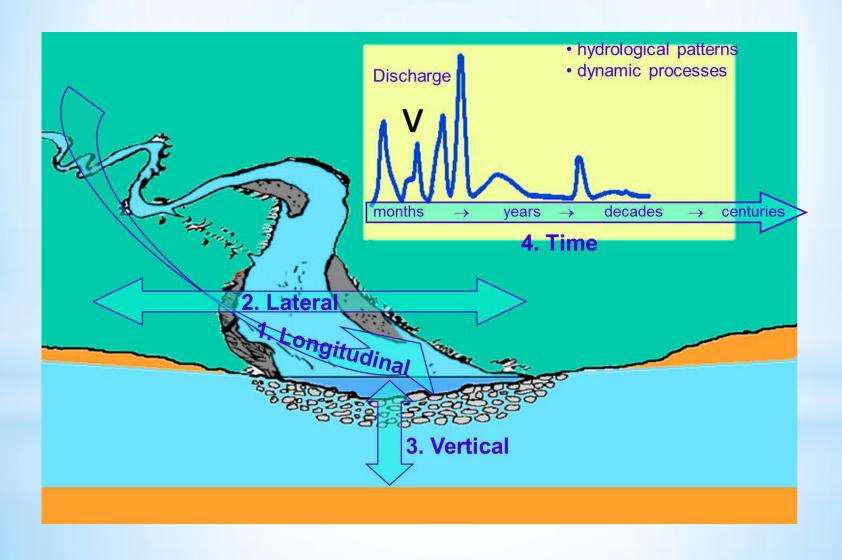




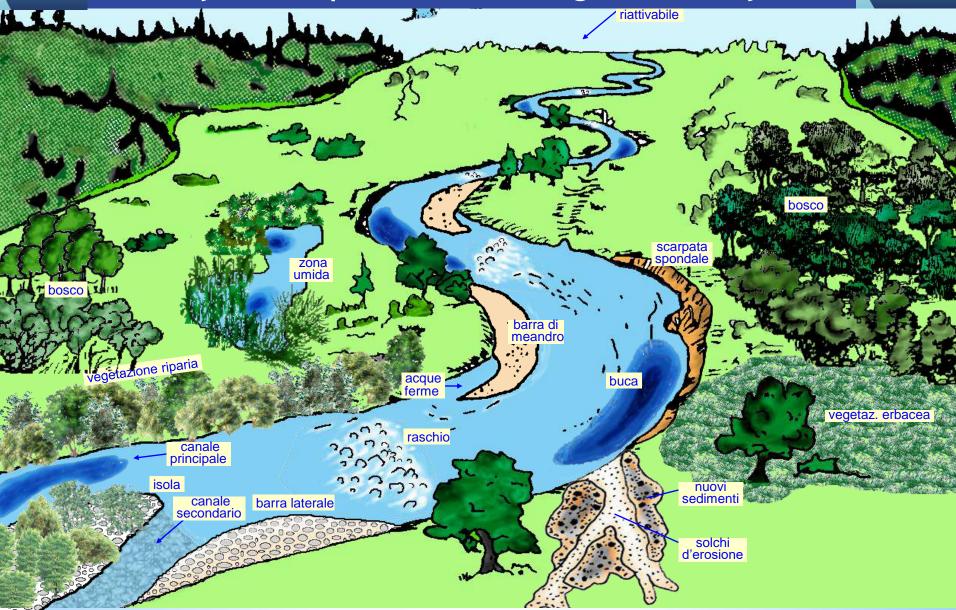
# Rivers are open ecosystems







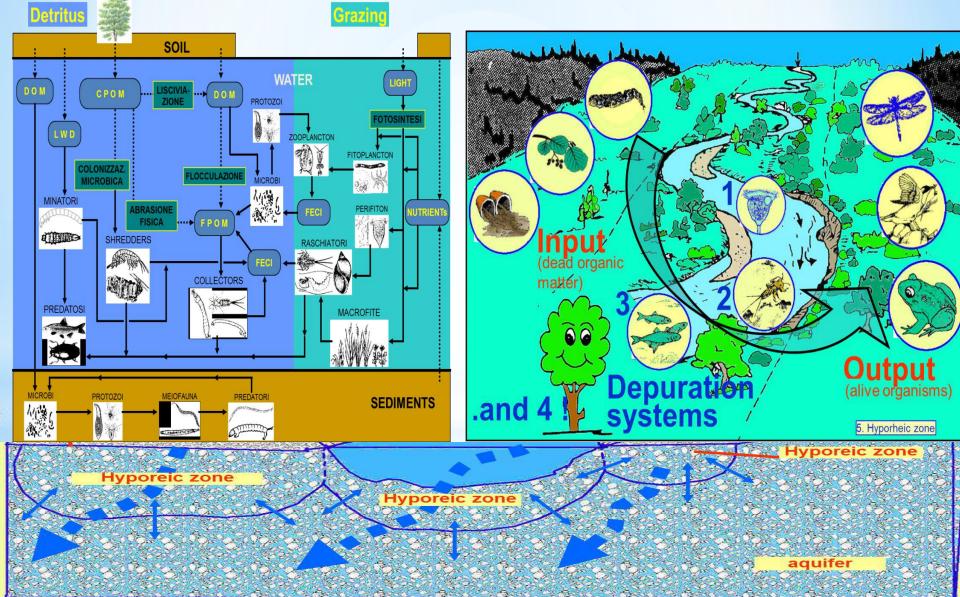
# Rivers and their corridors: Dynamic processes vs high diversity





# Specialized food web: Self-depuration







# Healthy water ecosystems give to the humanity essential good services for free







Humans

Well-being

SUPPLY OF GOODS CULTURAL SERVICES

REGULATORY SERVICES
SUPPORT SERVICES

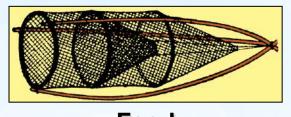
Aquatic Ecosystems Status







**Waste water** 





Food

mining









urbanization



**Navigation** 





Recreational



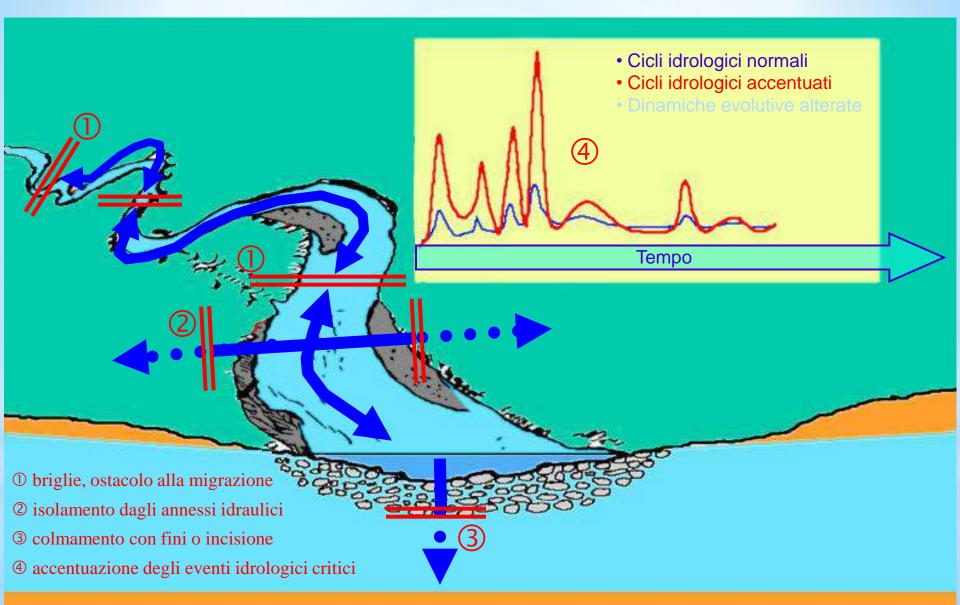
reclamation

cultural

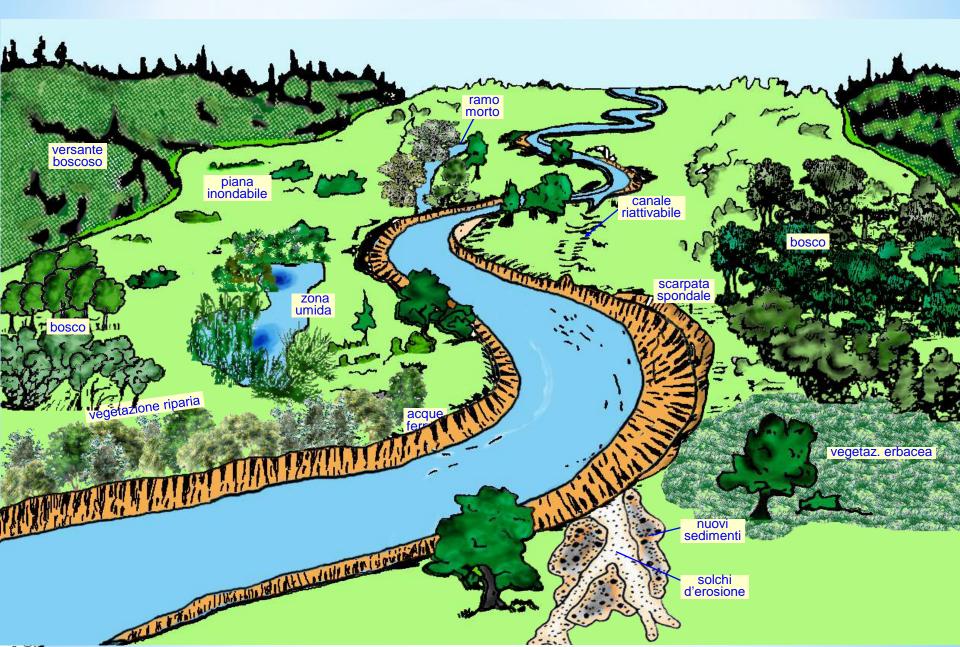
# We reduce the river space

# We disconnect river from surrounding





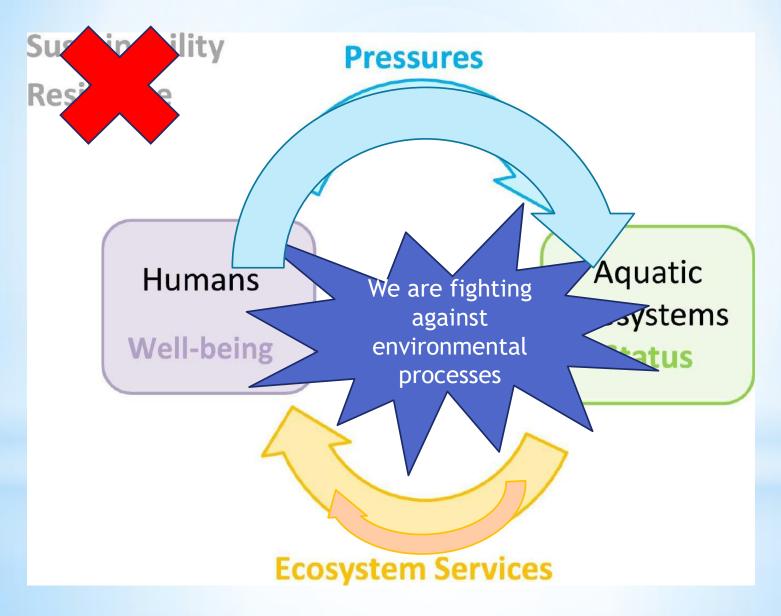






# **RESULTS**

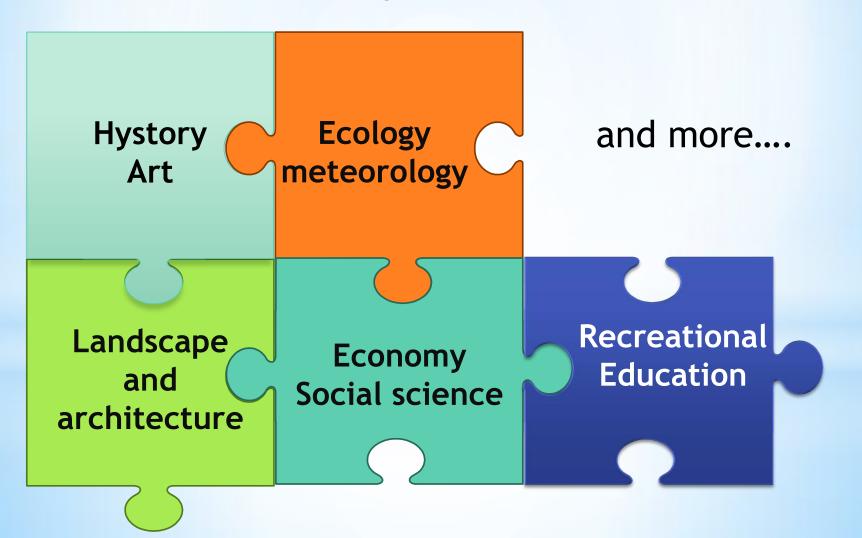




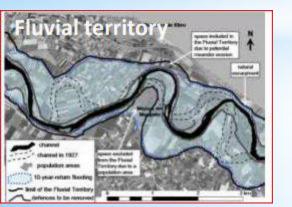
# WATER MUSEUMS ROLE



Water museum must be the oppotunity to connect different disciplines around water

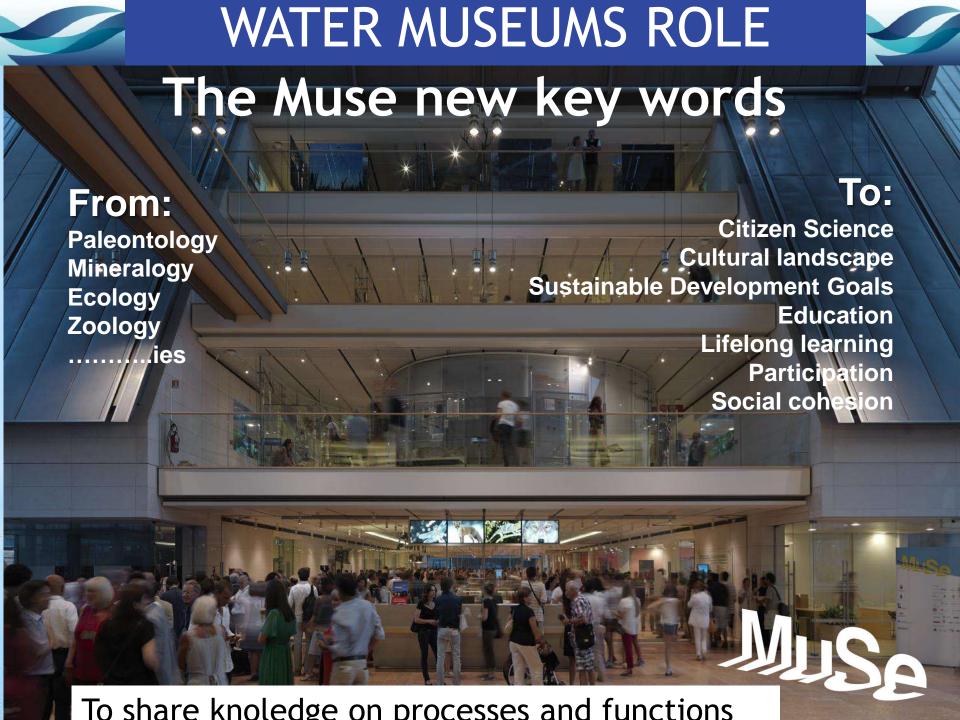


# NEW approach for sustainability processes and connectiv Work with ity Safety for four million people in the Dutch delta. Room for the River nature as Riparian much as 2 forms vegetation possible!!! water habitats quality









# WATER MUSEUMS ROLE







# **Education**

Science & Education activities for all ages

# Subject

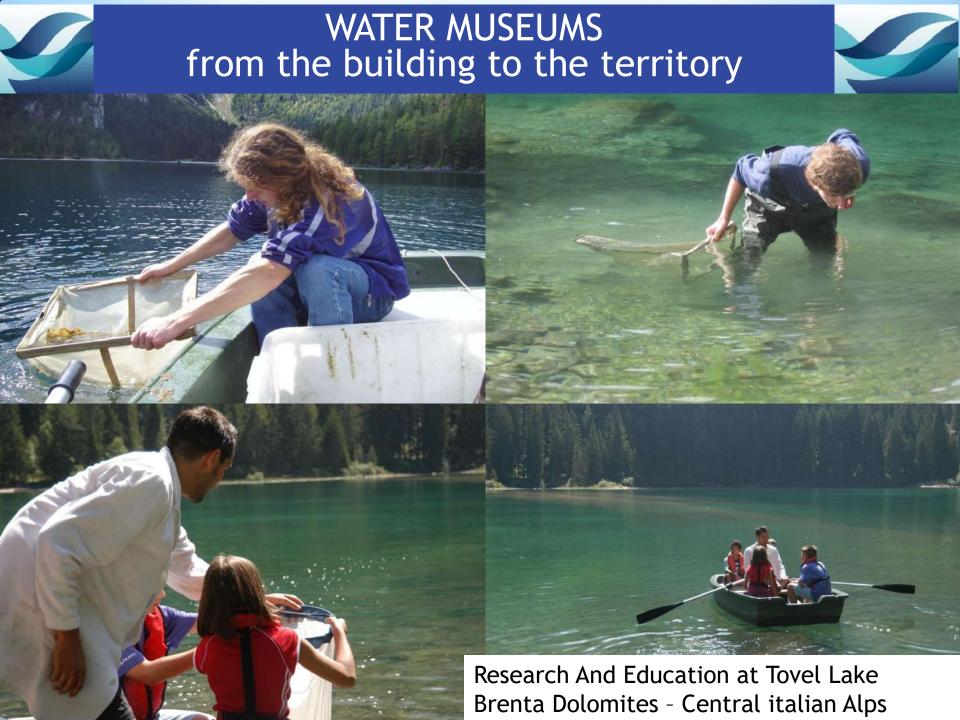
Convergence on Sustainable Development Goals

# Local development

Supporting local assets and social values

# WATER MUSEUMS from the building to the territory







# Osservatorio Citizen Science



















RICERCA & TESI

UNO DEI PROGETTI IN CORSO:
EOTOGRAMMETRIA





PROGETTI





TI AIUTEREMO AD AVVIARE IL TUO



www.osservatoriocitizenscience.org



# Citizen Science - FWW











89%
Improved
understanding of
local & global
water issues

95%
Inspired to reduce environmental impact

91%
Contributing to local/company sustainability programme

77%
Motivated to continue with association/company

Source: analysis based on 450 FWW citizen scientists (April 2016)

# Opportunity for global community









SDGs: Call to action



# From a Natural History Museum to the new **MUSE – Museo delle** Scienze. Trento - Italy

Since 18° Century, nobles & rich people of Trento built up a first permanent natural history collection.

In1921, a natural history museum went organized in a historical building in the city center,

In the '90 we began to better develop research activity (together with fresh water ecology studies), new exhibitions and innovative public programs.

In 2003 the nomination to develop a feasability study of a brand new museum.



# The cultural Identity of Muse – Trento Italy

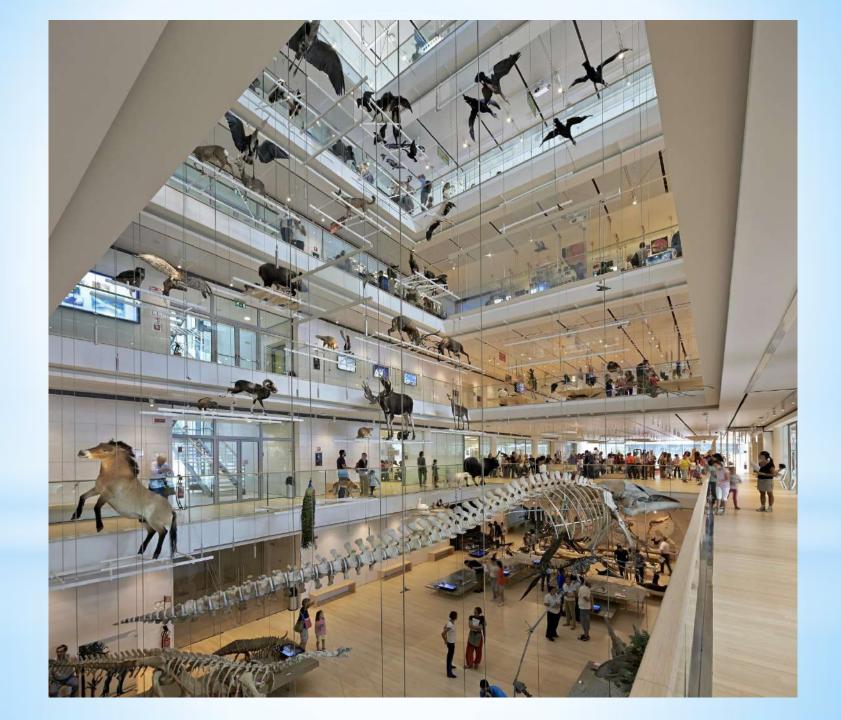




# Six floors, one unique open space

from the top of the mountains to the deep history of life





# The Promise



# To become:

- A relevant scientific research institution
- A relevant informal education institution
- A place where things happens, people meet and build up a personal opinion
- A venue that partecipate to the cultural and touristic offer of the region

# \*

# Numbers ... so far

# for the local economy

500k visitor/year. 75% tourists from outside 50ML €/year the induced grow on local economy



# for the people

The Muse is a relevant cultural entity for citizen and visitors, support s cultural associations, education activities and long life learning.



# for the museum

Up to n. 2000 fte employees (160 with University degree) for Operations, Education, Audience Development, Research, (regional and EU Projects)

