

# Partnership for sharing knowledge & promoting best practice on river restoration in Europe

## RESTORE

Bruno Boz: CIRF



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**cosa è stato fatto?**

eventi RESTORE

Lessons by Design

RiverWiki

una sfida globale: rivitalizzare  
urbani - sfida della  
permanenza come agorà

Urban Challenge

Quale visione?

applicare tecnologie di  
laborare nel mondo  
di oggi

diversi livelli di  
applicazione

Prossimi passi?

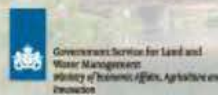
come 500 persone possono  
influenzare milioni se certi  
temi non distinguono anche  
la loro priorità?

come permettere la  
riqualificazione [urbana]?

Quali soggetti coinvolgere  
in futuro?

Quali temi?





## Restoring Europe's Rivers

who we are - RESTORE EU life partnership for sharing knowledge and promoting best practice on river restoration

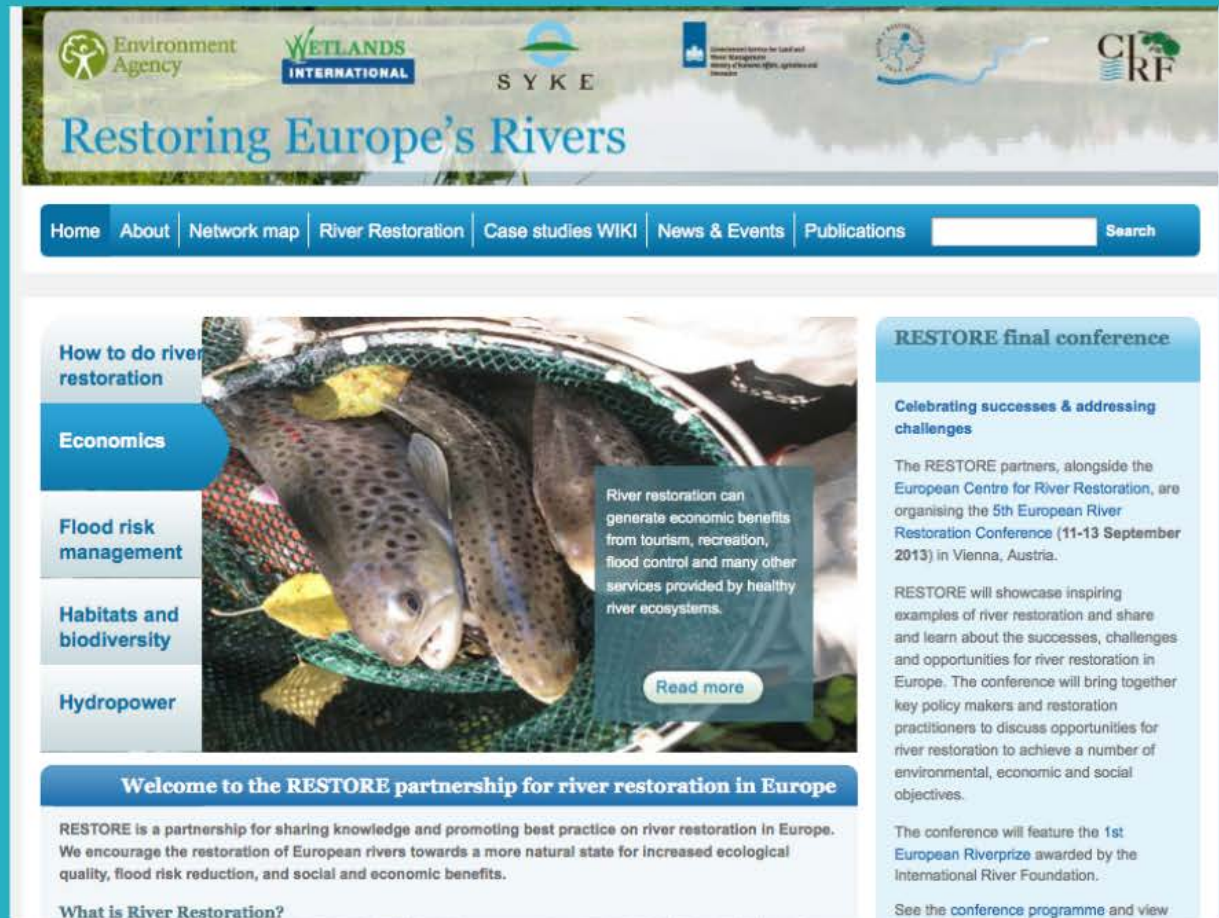
- RESTORE incoraggia la riqualificazione dei corsi d'acqua verso uno stato di maggiore naturalità: maggiore valore ecologico, riduzione del rischio idraulico, vantaggi sociali ed economici...
- supportato da EU LIFE+.
- 6 partners, 21 stati coinvolti e suddivisi in 4 macroregioni.. €1.8M dal 2010 al 2013.



lack of shared best practice

# cosa è stato fatto?

www.restorerivers.eu



The screenshot shows the RESTORE website homepage. At the top, there is a banner with logos for the Environment Agency, Wetlands International, SYKE, and the European Centre for Land and Water Management. The main title is "Restoring Europe's Rivers". Below the banner is a navigation menu with links for Home, About, Network map, River Restoration, Case studies WIKI, News & Events, Publications, and a search box. The main content area features a large image of two brown trout in a net. To the left of the image is a vertical menu with categories: How to do river restoration, Economics, Flood risk management, Habitats and biodiversity, and Hydropower. A text box over the image states: "River restoration can generate economic benefits from tourism, recreation, flood control and many other services provided by healthy river ecosystems." Below the image is a "Read more" button. To the right of the image is a section titled "RESTORE final conference" with the sub-heading "Celebrating successes & addressing challenges". The text describes the 5th European River Restoration Conference (11-13 September 2013) in Vienna, Austria, and mentions that the conference will showcase inspiring examples of river restoration and share and learn about the successes, challenges and opportunities for river restoration in Europe. It also mentions that the conference will feature the 1st European Riverprize awarded by the International River Foundation. At the bottom of the page, there is a section titled "Welcome to the RESTORE partnership for river restoration in Europe" with a brief description of the partnership and a link for "What is River Restoration?".

Environment Agency WETLANDS INTERNATIONAL SYKE European Centre for Land and Water Management CRRF

## Restoring Europe's Rivers

Home About Network map River Restoration Case studies WIKI News & Events Publications Search

How to do river restoration

Economics

Flood risk management

Habitats and biodiversity

Hydropower

River restoration can generate economic benefits from tourism, recreation, flood control and many other services provided by healthy river ecosystems.

Read more

### RESTORE final conference

#### Celebrating successes & addressing challenges

The RESTORE partners, alongside the European Centre for River Restoration, are organising the 5th European River Restoration Conference (11-13 September 2013) in Vienna, Austria.

RESTORE will showcase inspiring examples of river restoration and share and learn about the successes, challenges and opportunities for river restoration in Europe. The conference will bring together key policy makers and restoration practitioners to discuss opportunities for river restoration to achieve a number of environmental, economic and social objectives.

The conference will feature the 1st European Riverprize awarded by the International River Foundation.

See the conference programme and view

### Welcome to the RESTORE partnership for river restoration in Europe

RESTORE is a partnership for sharing knowledge and promoting best practice on river restoration in Europe. We encourage the restoration of European rivers towards a more natural state for increased ecological quality, flood risk reduction, and social and economic benefits.

What is River Restoration?

# River Restoration Case Studies - from around Europe

# RiverWiki

Restoring Europe's Rivers

[Create account](#) [Log in](#)

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RESTORE partnership  
RESTORE web site

Wiki navigation

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Add new term  
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Toolbox

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Special pages  
Printable version  
Permanent link

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Powered by  
Google Translate

## Main Page

Welcome to the river restoration case studies RiverWiki. This tool is for sharing best practices and lessons learnt for policy makers, practitioners and researchers of river restoration.

**This is an interactive source of information on river restoration schemes from around Europe!**

Up to now, the database holds **460** river restoration case studies from **24** countries

**HAVE YOUR SAY**, we are working on improvements to the site over the next couple of months please contact us with any suggestion.

*The RiverWiki has been developed by the RESTORE partnership for sharing knowledge and promoting best practice on river restoration. Read more on the RESTORE partnership.*

Contents [hide]	Latest updated case studies	Modification date	Country
1 Map of case studies	Morava restoration project	7 September 2013 08:55:29	Austria Slovakia
2 Countries	Ågårdna nature-like bypass channel at River Rolfsån	8 September 2013 18:27:00	Sweden
3 Search	Černý potok stream restoration scheme	8 September 2013 18:25:23	Czech Republic
4 Create a case study	Restorations of River Nocián-Fishway in Forsa hydro power plant	6 September 2013 18:24:29	Sweden
5 Contacts	Restorations of River Nocián Bypass channel in Hulba Hydro power plant	6 September 2013 18:23:15	Sweden
	more...		

### Map of case studies

Map data ©2013 Google, MapLink - 1000 km

Left click to look around the map, and use the wheel of your mouse to zoom in and out.

**What you can do:**

- You can search the database to find case studies by using the different categories: country; monitoring or implementation costs and many more; click here to search for a case studies

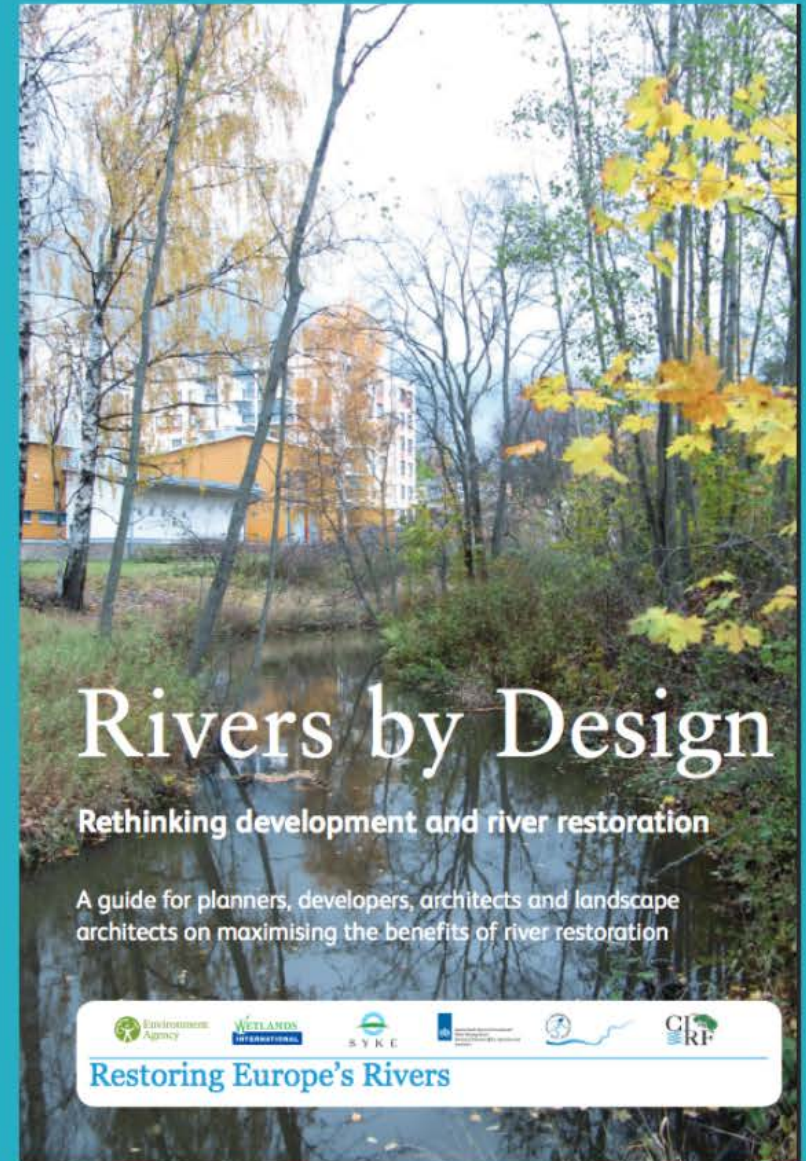


*A guide for planners, developers & architects  
and on the benefits of river restoration*

# Rivers By Design

## Cosa si intende per riqualificazione fluviale?

- le condizioni naturali ed i processi di funzionamento di un fiume
- riqualificazione anche in ambito urbano
- riconnessione delle piane alluvionali
- la funzione di laminazione delle piene
- il miglioramento dell'accessibilità e della fruizione
- non necessariamente un ritorno al passato alle condizioni naturali ma verso un miglioramento approccio a scala di bacino



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37 events in 21 countries



# eventi RESTORE

36 events in over 10 countries

1200 persons engaged through events

500 case studies on the WIKI database

90,000 persons through project outreach

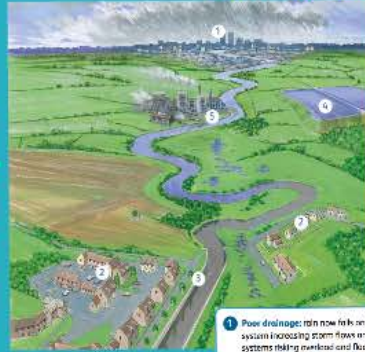
International River Restoration Conference





## Stesse sfide/problemi in tutta Europa

what challenges did  
people come up with?



- 1 Poor drainage: rain now falls onto hard surfaces such as roofs, parking and roads and drains quickly into the river system increasing storm flow and runoff increasing the potential for flooding. This can also quickly saturate sewerage systems making overland and flooding.
- 2 Development within the floodplain: housing, industry, infrastructure and agriculture can lead to greater flood risk, loss of habitats and biodiversity.
- 3 River profile: raising river banks, cutting and straightening were used to try and reduce flooding and drain land. They might have solved a local problem but they often put pressure on the watercourse and downstream land.
- 4 Water supplies: abstracting water from rivers, canals, reservoirs, lakes or underground sources to provide public water supply for agriculture and industry. Over abstraction can lead to problems such as drying-out of wetlands and drying river banks.
- 5 Pollution: waste dumping, chemicals from industry, sediment, pesticides and fertilisers from agriculture and drainage from both increasing all are all contributors to river pollution, leading to loss of water quality and biodiversity.

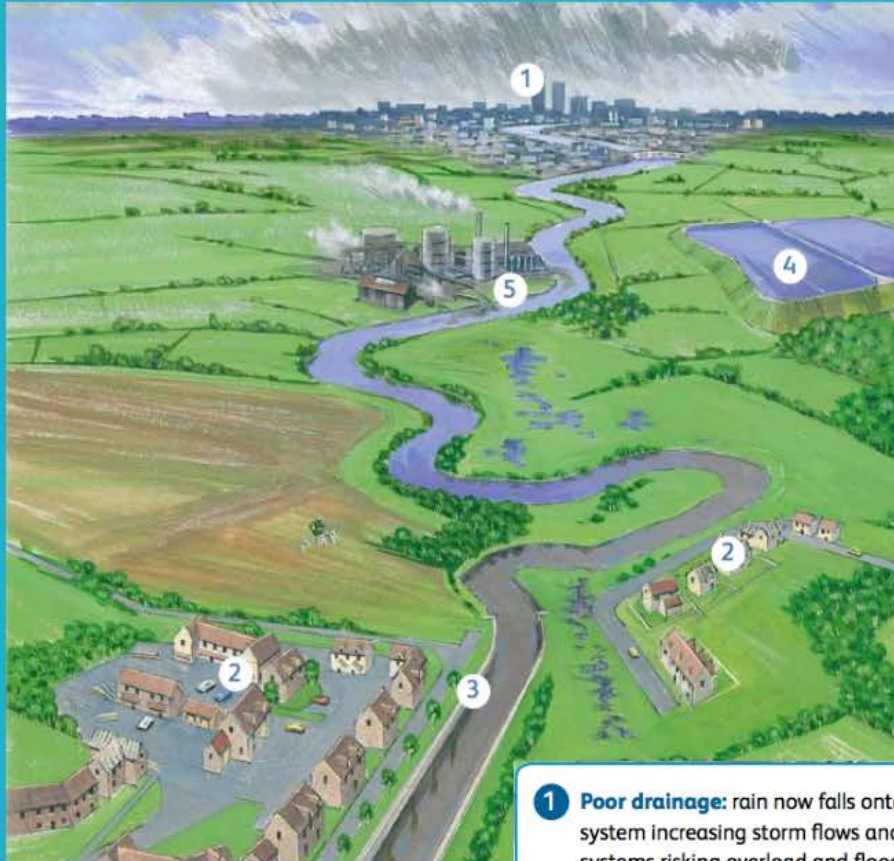


## Specie invasive



## Stesse sfide/problemi in tutta Europa

what challenges did  
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- 1 Poor drainage:** rain now falls onto hard surfaces such as roofs, paving and roads and drains quickly into the river system increasing storm flows and runoff increasing the potential for flooding. This can also quickly enter sewerage systems risking overload and flooding.
- 2 Development within the floodplain:** housing, industry, infrastructure and agriculture can lead to greater flood risk, loss of habitats and biodiversity.
- 3 River profile:** raising river banks, culverting and straightening were used to try and reduce flooding and drain land. They might have solved a local problem but they often put pressure on the watercourse and downstream land.
- 4 Water supplies:** abstracting water from rivers, canals, reservoirs, lakes or underground aquifers to provide public water supply for agriculture and industry. Over abstraction can lead to problems such as drying-out of watercourses and wetlands and sinking water tables.
- 5 Pollution:** waste dumping, chemicals from industry, sediment, pesticides and fertilisers from agriculture and drainage from roads containing oil are all contributors to river pollution, leading to loss of water quality and biodiversity.



# Specie invasive





## Quale visione?







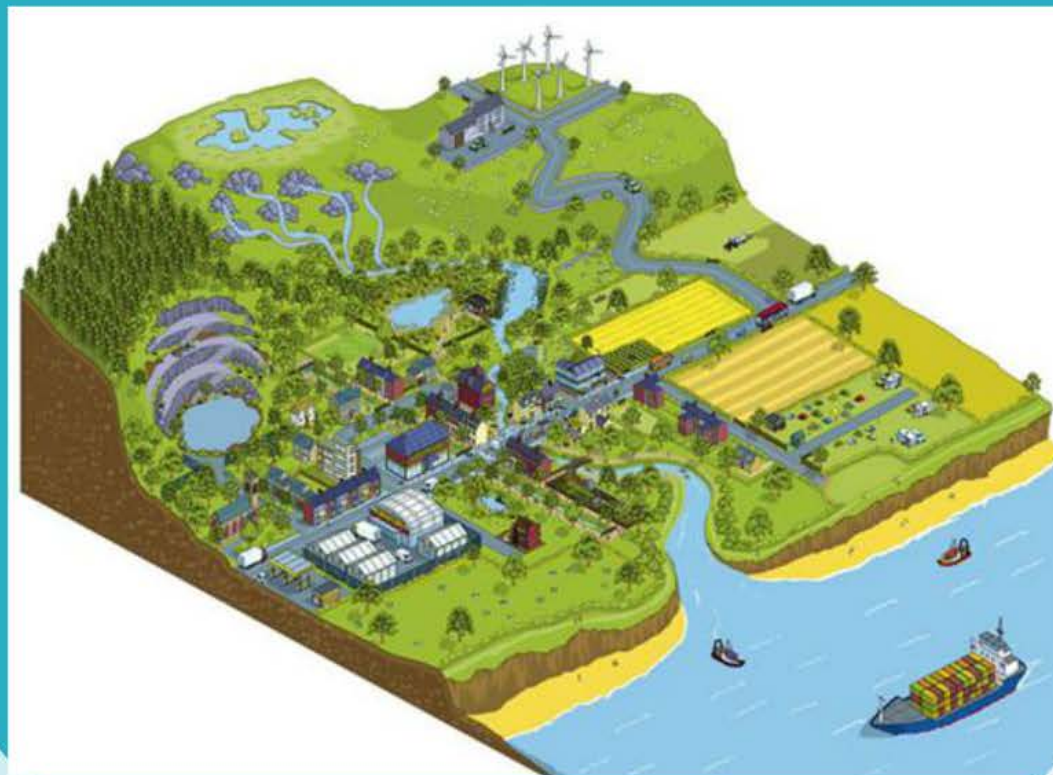
*spiegare i vantaggi di  
lavorare assecondando i  
processi naturali*



metodi innovativi  
nello spiegare i  
benefici



# soluzioni a scala di bacino





diversi livelli di  
spiegazione



# Prossimi passi?

*come 300 persone possono influenzarne milioni se certi temi non divengono anche la loro priorità?*

*come promuovere la riqualificazione fluviale?*

*Quali soggetti contattare in futuro?*

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*come promuovere la  
riqualificazione fluviale?*

Quali soggetti contattare  
in futuro?



# Quali temi?



# Implementazione delle Direttive





# valutazione dei servizi ecosistemici derivanti da RR





# il tema della gestione delle portate in presenza di usi conflittuali







*fruizione, agricoltura, turismo..*

# aspetti tecnici, progettualità e gestione della biodiversità







*strategie di  
comunicazione*



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