Improving the dissemination of knowledge and information about river restoration: the UK experience

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The River Restoration Centre (RRC)

Specialist independent river restoration organisation Providing expert advise and information since 1994.

Not-for-profit, not a consultancy, not a lobbying org.

- Information and Knowledge Exchange.
- Technical Project Advice and Assessment
- Training and Guidance

















Dissemination of knowledge and information

- Gather and share
 - Inventory and library
 - Website of information
 - Site visits to see the work
 - Workshops and conferences
 - Supporting new restoration projects from experiences
 - Guidance and training



RRC – 30 years of 'River Restoration'

- 1990's Engineering dominated approach. small scale enhancement and benefits not well understood or accepted. Promoting the concept
- 2000's new EU policies, catchment view, natural processes and river geomorphology. Some large demonstration projects
- 2010's strategic planning, River Basin Management Plans, Pressures and Impacts and ecological status and Program of Measures...
 Widespread work but mostly opportunity-led
- 2020's policy integration ('ish!), hydromorphology, catchment plans, NGO partnership delivery... Restoring the functioning & processes of natural river systems.

The River Restoration Centre (RRC)

'Naturally functioning river systems for people and wildlife'

To actively promote the re-establishment of natural processes, features and habitats of river systems by collating evidence and identifying and sharing best practice across the river management community.







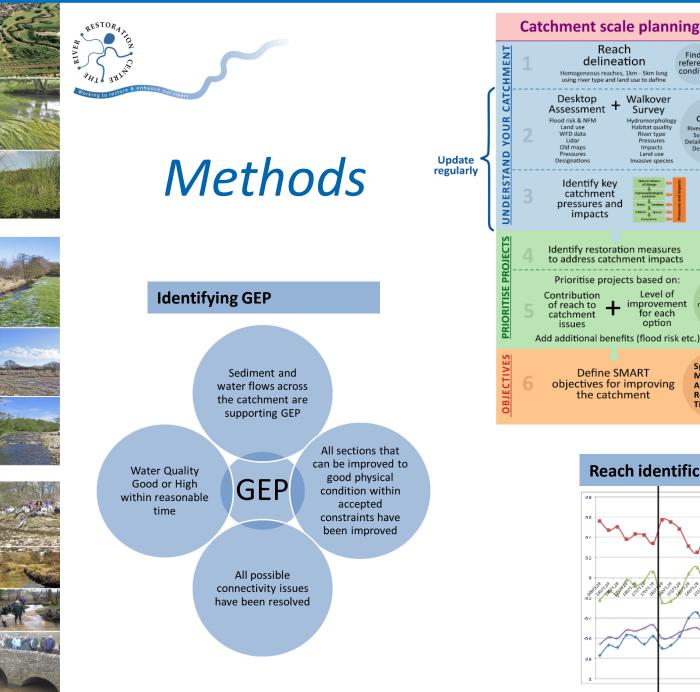






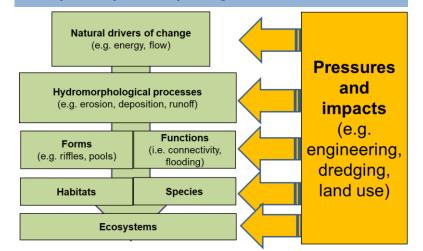
Building Capacity in River Restoration Practice

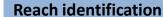






Analytical hydromorphological framework





Find a

reference

condition

Extra options

River Habitat Survey

Sediment count

Detailed ecology

Taking into

account costs,

benefits when

relevant

Specific

Measurable

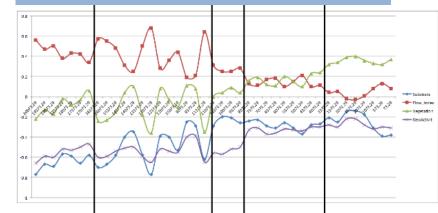
Achievable

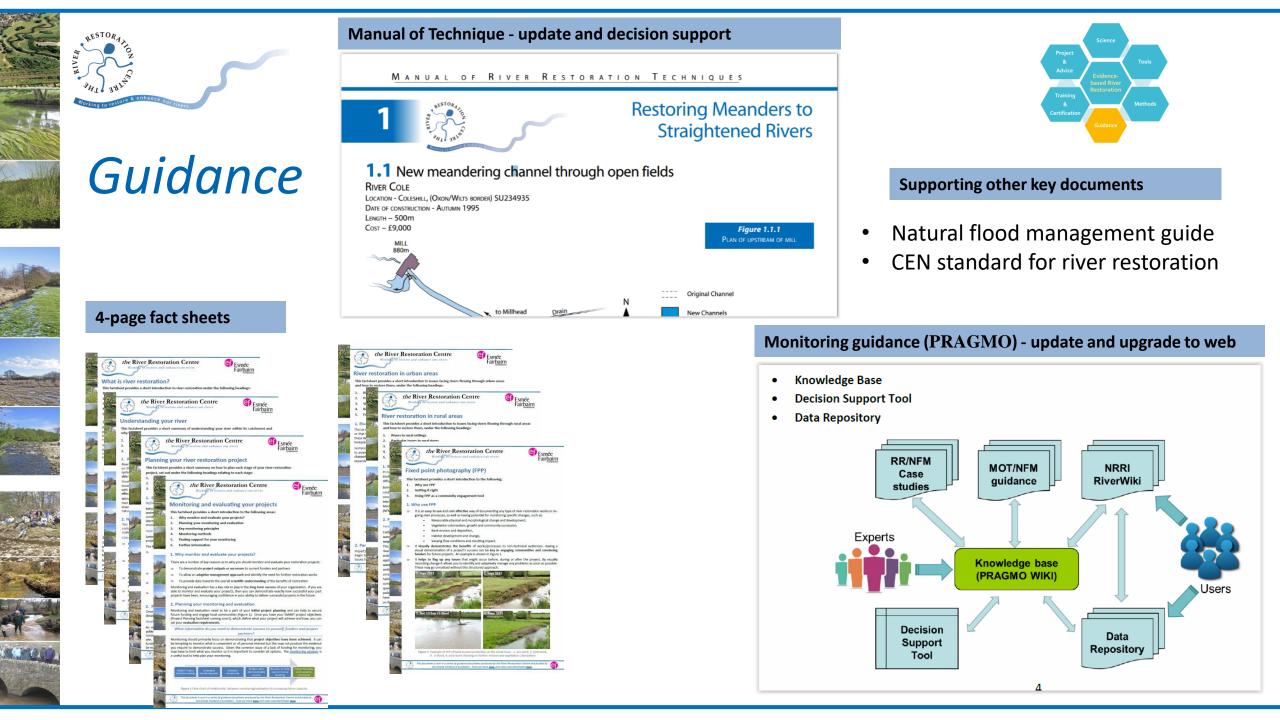
Time-based

Relevant

risks & multiple

Detailed water qualit











Training programme. Since 2018 - 34 times for 649 people. Now 8 courses run



Introduction to Hydromorphology (Level 1)



Developing a Catchment-wide Restoration Plan



Understanding your catchment Identifying Pressures and Impacts

Prioritising Projects

Hydromorphology for River Restoration (Level 2)



Mapping for Natural Flood Management



Certification Course

River Habitat Survey



Advanced Hydromorphology

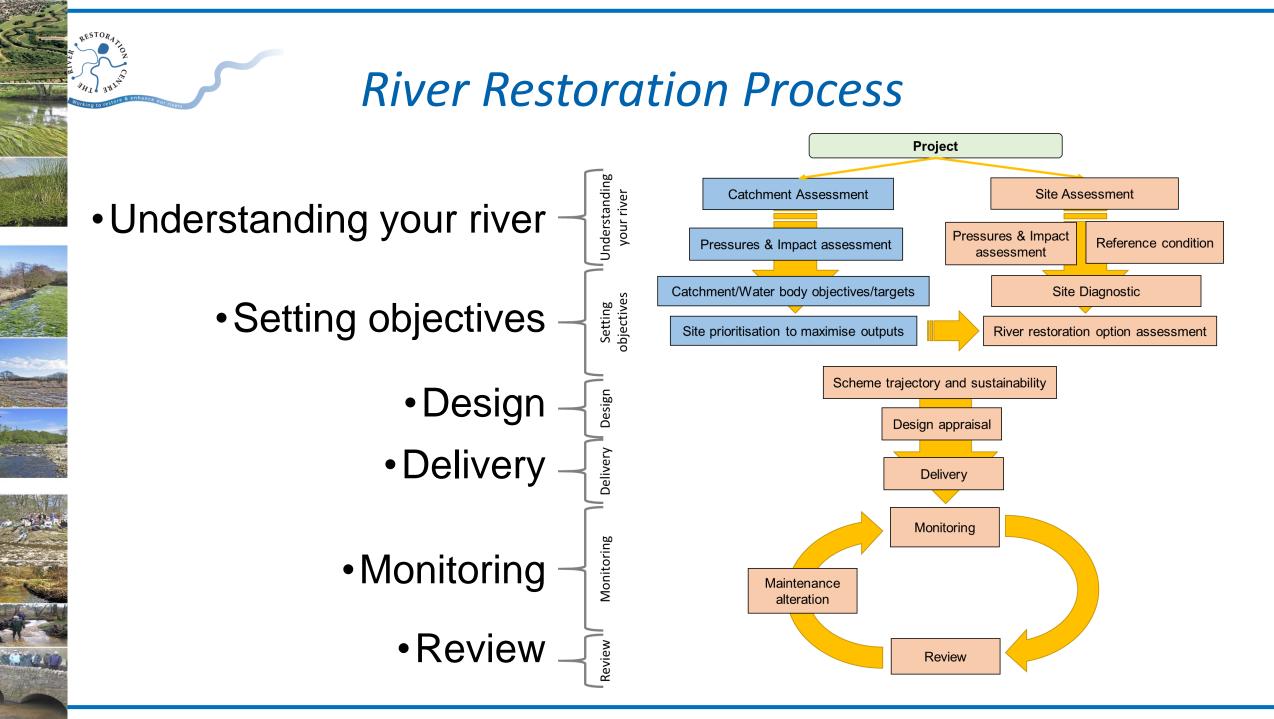
(Level 3)

Desk-based assessment for river restoration planning & catchment management



River Erosion Management



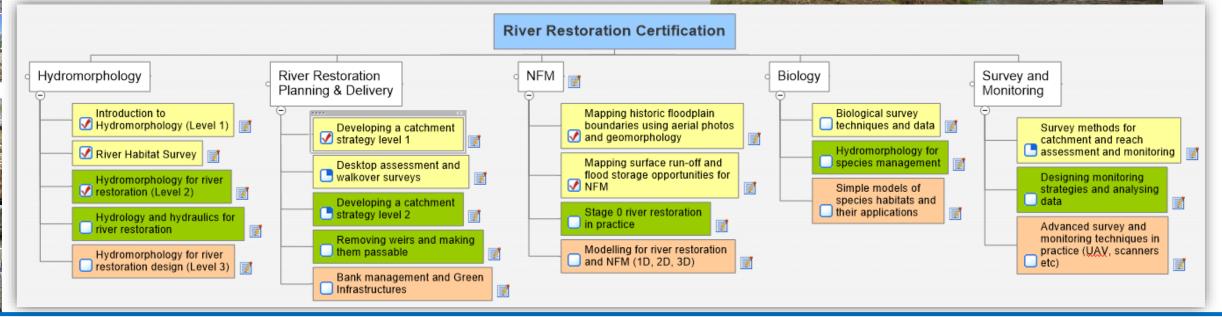


Training & Certification



- 5 new courses, more online, hybrid f2f courses...
- Certification (MSc... ?)
 - Improving standards, improving confidence..



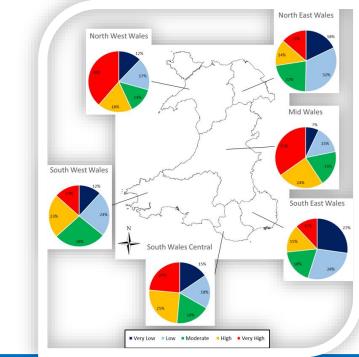






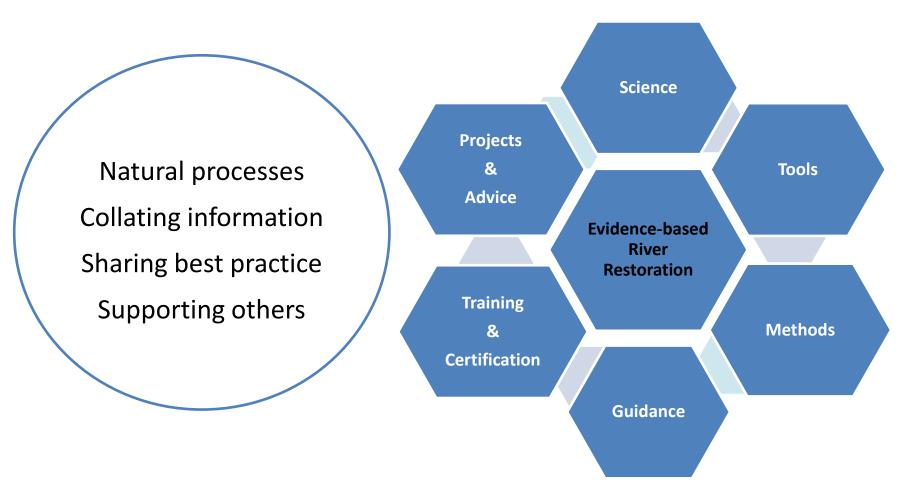






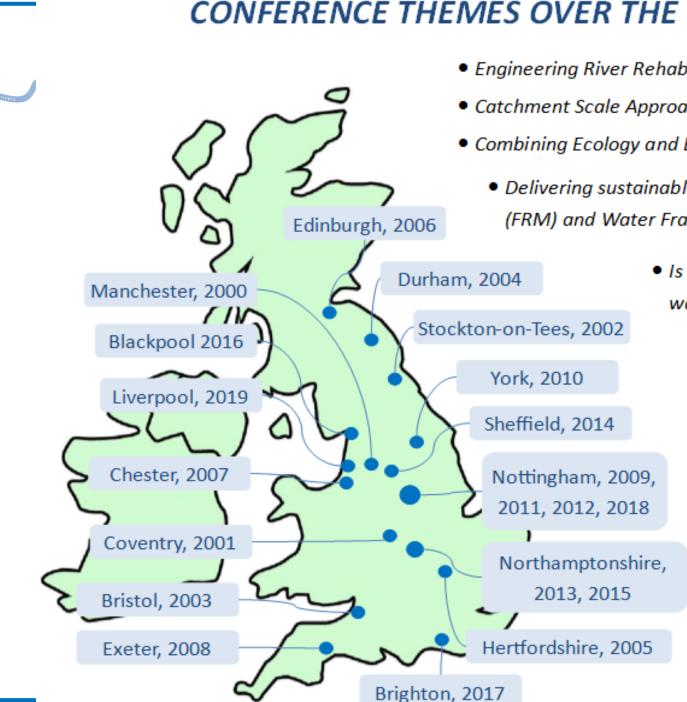


Building Capacity in River Restoration through knowledge and information



Further development via large projects

- Assessing hydromorphology for Bulgaria World Bank
- Linking habitats and ecology UK Water co innovation fund
- Citizen science impact and co-design Horizon 2020
- Building capacity in UK river restoration NGO's Grant
- NFM Manual, ongoing expansion UK construction industry
- Standard on River Restoration CEN standards agency
- Monitoring approaches for river restoration IUCN UK & Rol



CONFERENCE THEMES OVER THE YEARS

- Engineering River Rehabilitation
- Catchment Scale Approach to River Restoration
- Combining Ecology and Engineering
 - Delivering sustainable Flood Risk Management (FRM) and Water Framework Directive (WFD)
 - Is restoring back the best way forward?
 - River Restoration benefits Past, Present and Future
 - From Policy to Practice
 - Recipes for Success
 - People and Process-Based River Management
 - Planning, delivery and evaluation of our rivers
 - Addressing Uncertainty
 - Engaging with Rivers



2020 UK RIVER PRIZE **WINNERS**







The wider ECRR Network

European River Symposium 2021 About River Restoration Community Of Practice

Network of 16 national centres

Sharing knowledge & experience:

- Improving confidence
- Get better multiple benefits
- Improving access to information
- Promote learning through evaluation
- Sharing of case studies and methods

And establishing more national centres.

To support the development of river restoration as an integral part of sustainable river management in Europe



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Welcome to the website of the European Centre for River Restoration (ECRR)

River restoration brings futureproof river ecosystems that serve all who are dependent on healthy and safe water.

The ECRR is considered internationally to be the key network to promote and build capacity for ecological river restoration across Europe, supporting the implementation of the EU Water Framework Directive, Floods Directive and the UN Sustainable Development Goals, the UNECE Water Convention, the Convention on Biodiversity, as well as national policies. See here ECRR's submission to the EC's WFD Fitness Check.

The ECRR is the authoritative voice on river restoration in Europe.

The ECRR is respected by the EU, governments, and the wider river restoration community in greater Europe, backed by its formal national network of members. The ECRR maintains this position by making the most out of the active involvement of its partners, members and contacts. The ECRR is an independent association, free to voice opinions, irrespective of the interests of partners and supporters. See here ECRR's Position Paper.

This makes ECRR: "The network for best practice river restoration in greater Europe" with the following purposes:

Disseminating/sharing knowledge & information

- Who is your audience? what motivates 'them'?
- a) What is wanted, b) what is needed, c) how do you know?
- Does it exist? How can you collect it and use it?
- New stuff.. who will create it?
- How will you present it & will people remember it?
- Being reactive and proactive?
- Ask for involvement and feedback?