



Jenny Mant

The River Restoration  
Centre



Restoration under global change:  
a practitioner's response



# The River Restoration Centre (RRC)

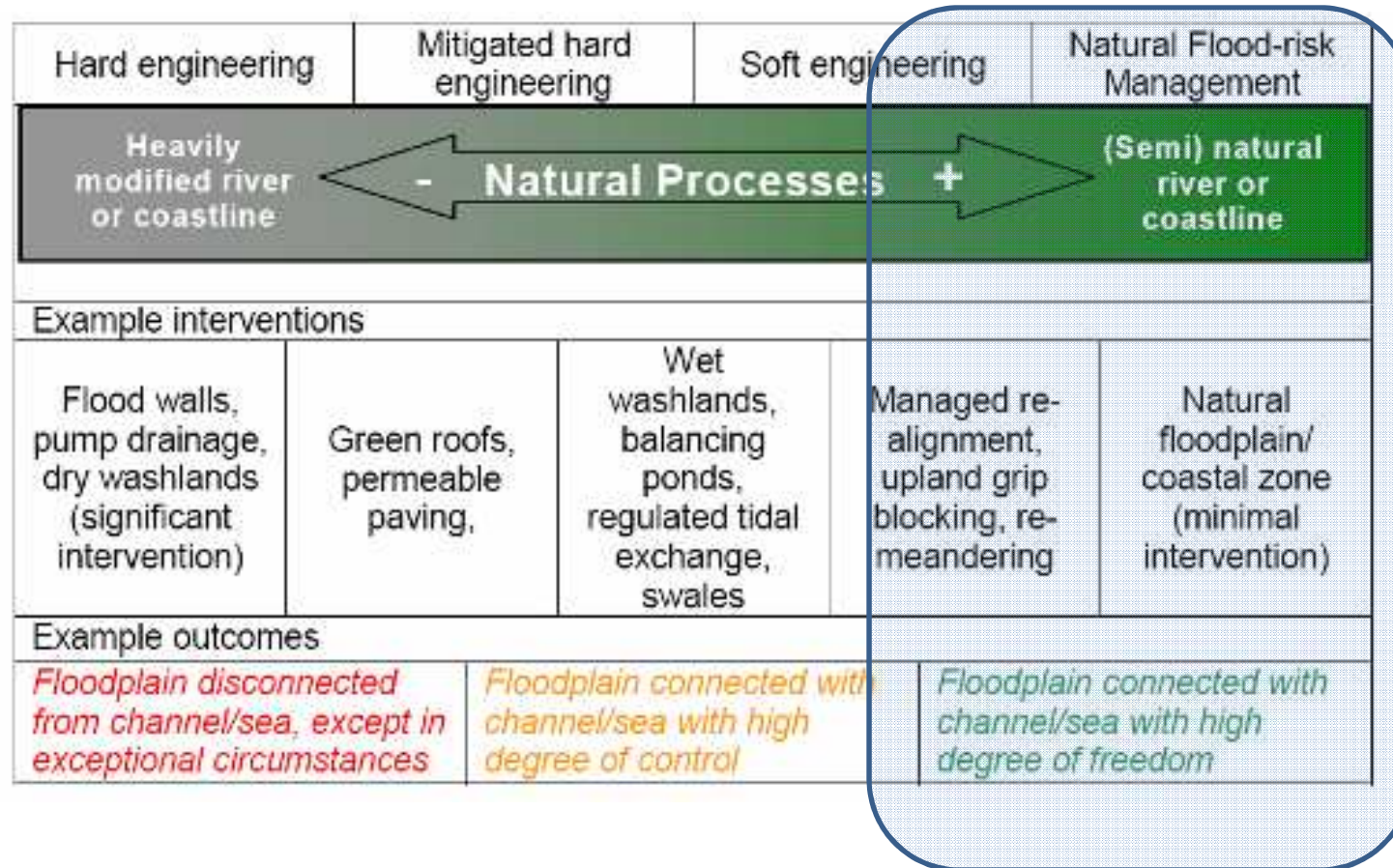
- Independent, not-for-profit, technical advisory centre
- Supports the development of river restoration as an integral part of best-practice river management
- Achieve effective river management through influencing policy and disseminating information

Since 1994





# Key issue: natural water retention measures



Habitat Enhancement  
& River Restoration





## But also remember...

- For wildlife benefit
- For community benefit

} Multiple benefits:  
society & funders





# The UK scenario today

- Current situation... flooding, flooding and more flooding.....
- Government level debates on need to dredge... opposite to working with natural processes
- Lack of recognition about catchment scale impacts from landowners to policy makers
- Against a backdrop of catchment scale approaches



4:08PM, MON 6 JAN 2014 FLOODS CLEAN-UP CONTINUES ACROSS THE WEST COUNTRY

## Village of Muchelney trapped by floodwaters

- last updated Tue 21 Jan 2014

UK • Muchelney • Somerset



*There's a risk even travelling by boat to Muchelney because of the danger posed by submerged cars.*  
Photo: ITV





river



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## SOMERSET FLOODING: To dredge or not to dredge - battle lines drawn over floodings on The Levels

By [WMNPBown](#) | Posted: January 20, 2014



uk

[www.therrc.co.uk](http://www.therrc.co.uk)



29 January 2014 Last updated at 03:28 GMT



## Farmers urged by WWF to do more to prevent flooding



By Roger Harrabin  
Environment analyst

**Farmers getting public grants should be forced to capture water on their land to prevent floods downstream, environmentalists have said.**

Green group WWF said farmers should get subsidies only if they agreed to create small floods on their own land to avoid wider flooding in towns and villages.

The average family pays £400 a year in grants to farmers.

Farmers' leaders rejected the idea but said they would support incentives to farmers to prevent flooding.

WWF is already working with eight farmers on the young River Nar in Norfolk in an experimental project to restore upstream rivers to their original state.

Rivers have been squeezed into straight, fast-flowing channels over hundreds of years to hurry rainwater off fields.



Environmentalist David Nussbaum (left) and farmer John Austen support "lazy river" schemes







# Natural rivers change shape and size to fit hydrological regime: global change?





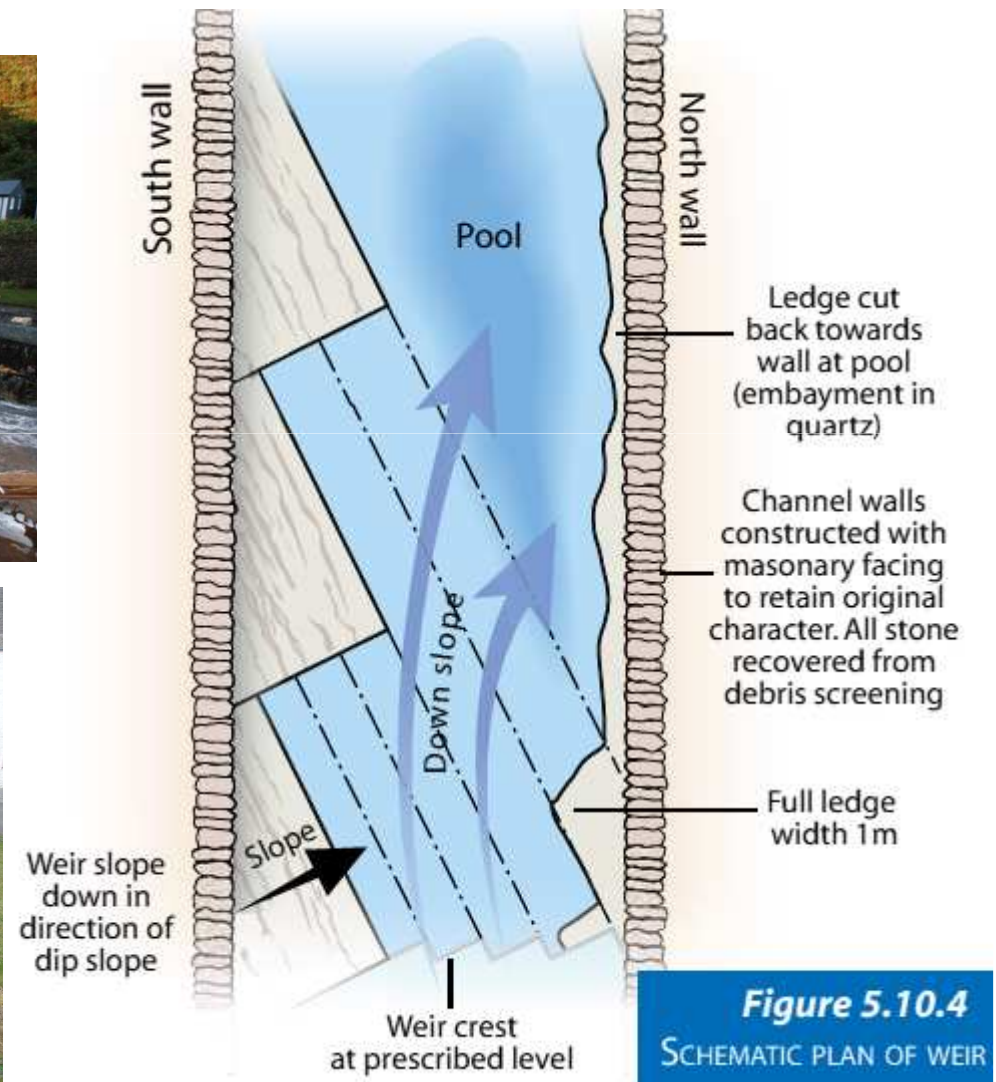
# Examples UK –modified rivers

- Opportunities to design in climate change variability even in confined spaces for HMWB
- Think about the high flows and the low flow conditions
- And.... work with wider water industry to think about how and when we abstract flow
- Building resilience to climate change





# Flood risk and restoration: future proofing?















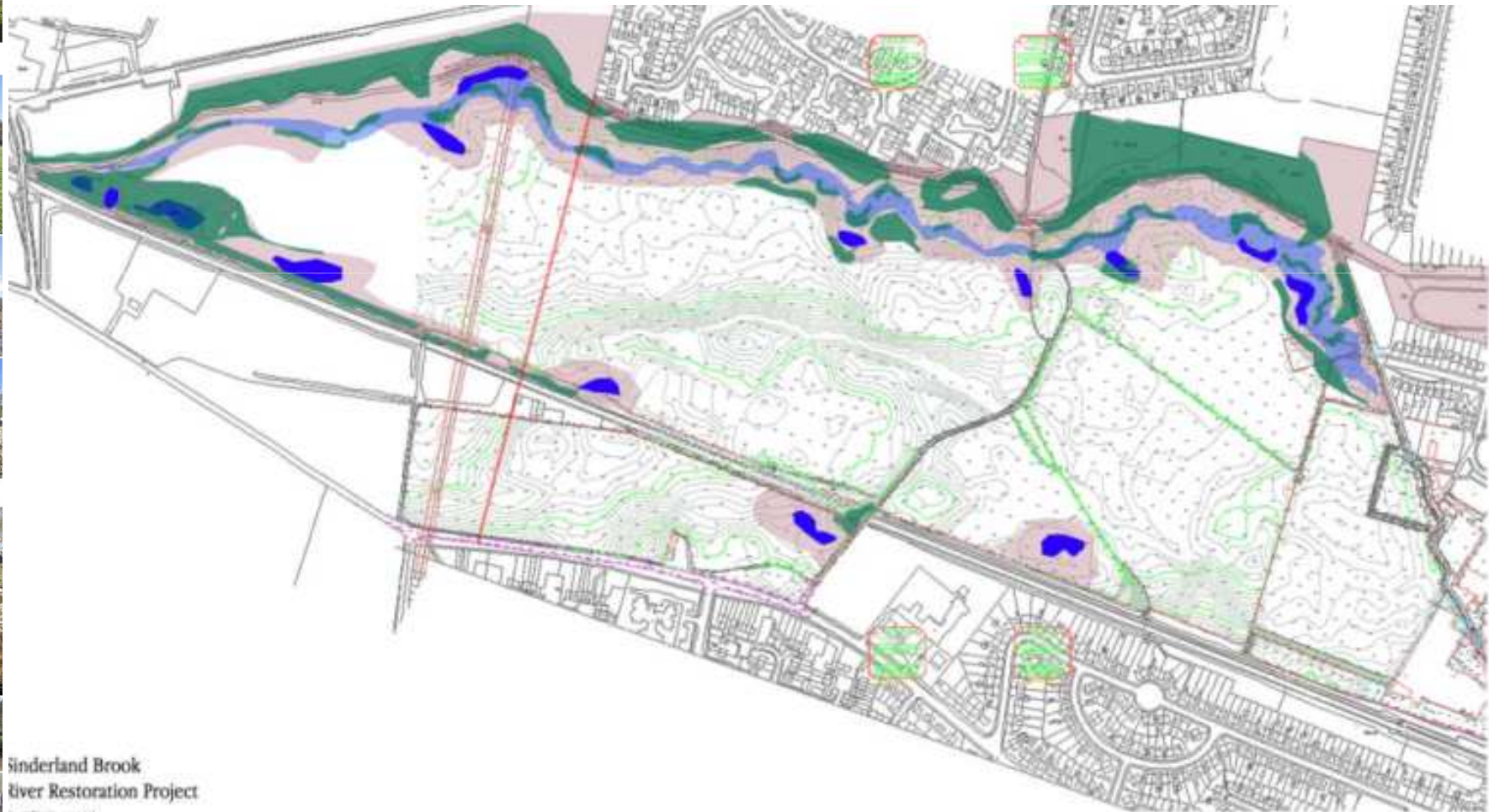
# Development near Manchester, England







# Development defined by the river



Sinderland Brook  
River Restoration Project  
Don't Environmental







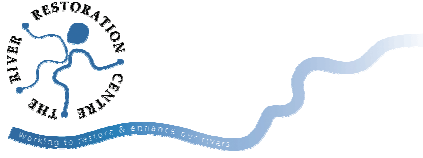


D. Revell, Environment Agency.

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[www.therrc.co.uk](http://www.therrc.co.uk)







# Urgent need to sharing and use good practice

[www.restorerivers.eu](http://www.restorerivers.eu)

together with  
REFORM, REFRESH,  
BIO-FRESH etc





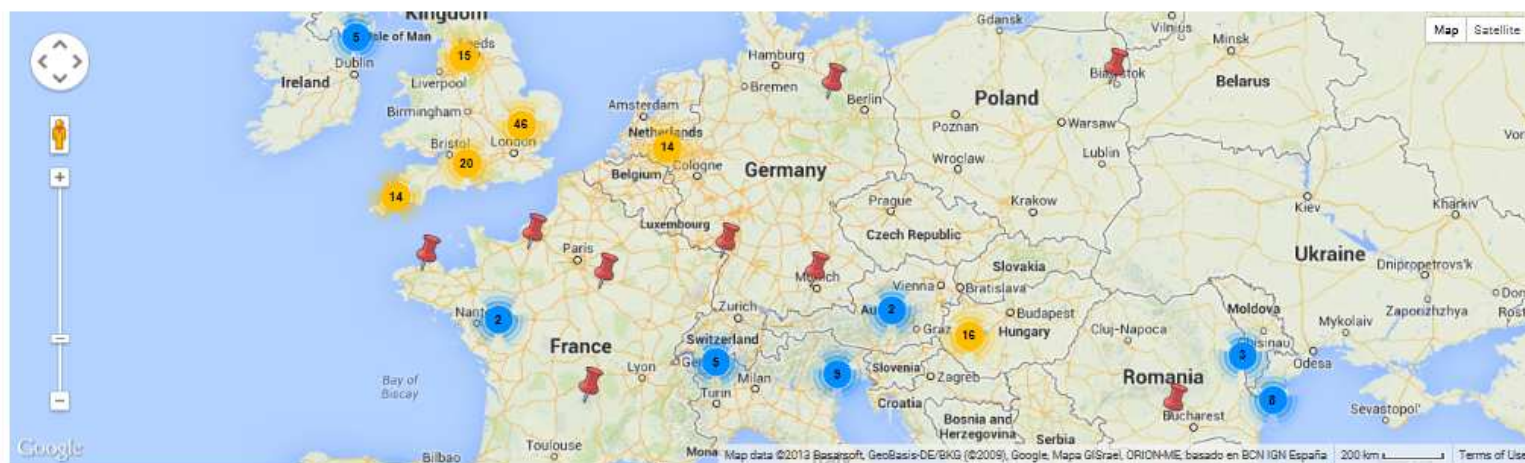
# Restore: the afterlife

## RRC and ECRR committed to continuous support of restoration information dissemination

The river WIKI –  
RESTORE and managed  
by RRC

Contents [hide]	Latest updated case studies	Modification date	Country
1 Map of case studies	Morava restoration project	9 September 2013 02:52:10	Austria Slovakia
2 Countries	Álgárda nature-like bypass channel at River Rolfsån	6 September 2013 18:27:00	
3 Search	Černý potok stream restoration scheme	6 September 2013 18:25:23	
4 Create a case study	'Restorations of River Nolán-Fishway in Forsa hydro power plant	6 September 2013 18:24:29	
5 Contacts	'Restorations of River Nolán-Bypass channel in Hulta Hydro power plant	6 September 2013 18:23:15	
	more...		

Map of case studies



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](#)
- Please also add your own river restoration scheme to the database: [click here to create a new case study](#).
- Provide us with your feedback: [click here to take the survey](#) or add to the discussion pages.