

A collection of River hydromorphology restoration examples in France

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WFD application in France



525 000 km of river stretches (> 1 km)
More than 11 000 surface water bodies

12 River Basin districts in France:
12 RBMP

The main public institutional bodies for water public policy in France + overseas territories:

- The Ministry of Ecology (MEDDE)
- Water Agencies in France (6)
- ONEMA

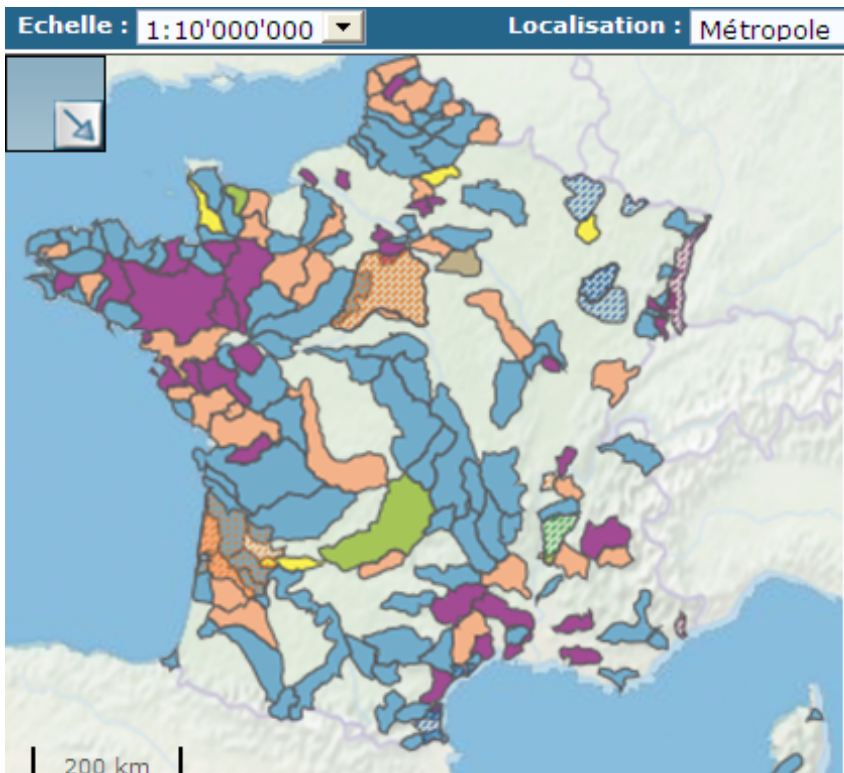
WFD application in France

- 50 % WBs affected by hydromorphological pressures
- 17 % of budget of 2010-15 programs of measures
- Bottleneck: implementation of river restoration projects
- River restoration need to be implemented by local project holders and need the support of local people



How river restoration measures are implemented?

Local RBMPs (« SAGE ») and local POM (« contrat de milieu ») at catchment level agreed between stakeholders, users, riparian owners... define what river restoration projects can be implemented.



Local RBMPs
« SAGE »



How river restoration measures are implemented?

In order to involve more local project holders and get support from local community

Need to show the benefits of river hydromorphology restoration, for the river and people

Promote a selection of RR examples with their benefits and facilitate the information exchange



Collection of river hydromorphology restoration projects:

TYPE OF HYDROMORPHOLOGICAL RESTORATION	Rhin	Rhone	Adour	Loire	Seine	Artois	
RIVER GRAVEL INPUT	1	1	1	1			4
REMEANDERING	1	8		2		1	12
PUTTING THE WATERCOURSE IN ITS ORIGINAL BED	1	2			3		6
RECONNECTION OF SIDE ARMS OR ANCIENT MEANDERS	1	1		1			3
PARTIAL OR TOTAL WEIR/DAM REMOVAL	4	3	7	13	7	5	39
POND REMOVAL OR DERIVATION OF WATERCOURSES	3	1		2	2		8
REOPENING OF CULVERTED RIVER		1	1		2		4
MODIFICATION OF RIVER BED'S GEOMETRY	1	3	1				5
RIVER BANK REMOVAL	1		1		1		3
PRESERVATION		1	1		1		3
TOTAL	13	21	12	19	16	6	87



Improvement for water sport and fish passage: Corrèze river



Restoration of sediment transport and financial savings: Vicoin river

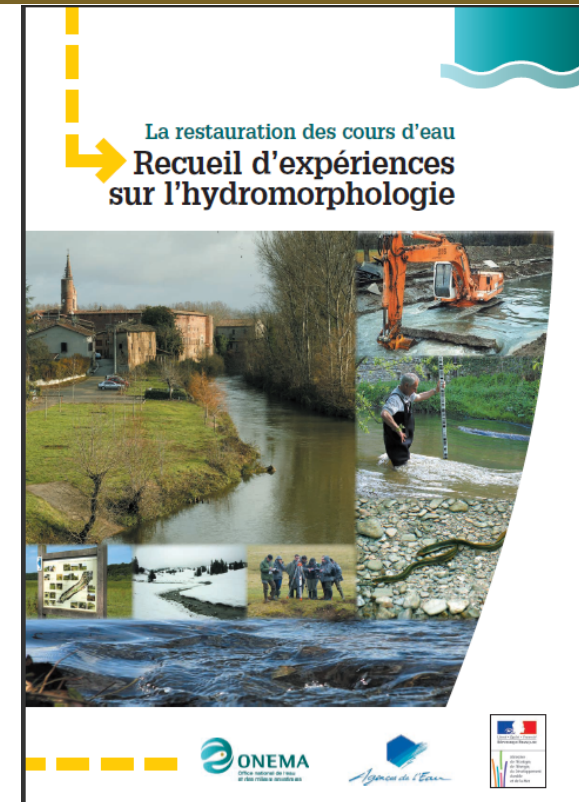


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The collection can be found

The full document « recueil d'expérience
sur l'hydromorphologie »
is available on
www.onema.fr
in the Publication section
or
www.onema.fr/Hydromorphologie,510



The collection can be found:

in the English pages :

in Resources/Thematic issues section

in RiverWIKI ECRR site



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LA RESTAURATION DES COURS D'EAU : RETOUR D'EXPÉRIENCES SUR L'HYDROMORPHOLOGIE

A collection of river hydromorphology restoration examples 

Le recueil d'expériences sur l'hydromorphologie des cours d'eau, destiné aux acteurs de l'eau et partenaires locaux a pour ambition d'inciter à la mise en œuvre de nouvelles actions de restaurations physiques du cours d'eau. Il regroupe sous forme de fiches, des arguments en faveur de la restauration des cours d'eau et présente plus de 60 exemples d'opérations qui ont eu lieu ces 20 dernières années. Il est le fruit d'un partenariat entre le Ministère en charge du développement durable, les agences de l'eau et l'Onema.

Removal of twenty small structures and diversification of the main channel of the River Couasnon

The operation

Category	Restoration
Type of operation	Total or partial dam or weir removal
Type of environment	Headwaters and intermediate river zone
Issues at stake (water, biodiversity, climate)	Good status of habitats, water quality and river continuity
Start of operation	June 2006

Location

Country	France
River basin	Loire-Bretagne (Brittany)
Region(s)	Pays-de-la-Loire
Département(s)	Maine-et-Loire
Commune(s)	Auverse, Baugé, Beaufort-en-Vallée, Chavaignes, Fontaine-Guérin, Gée, Lasse, Le Vieil-Baugé, Pontigné, Mazé



Towards the restoration of watercourses
and aquatic environments

80 examples of river hydromorphology restoration projects

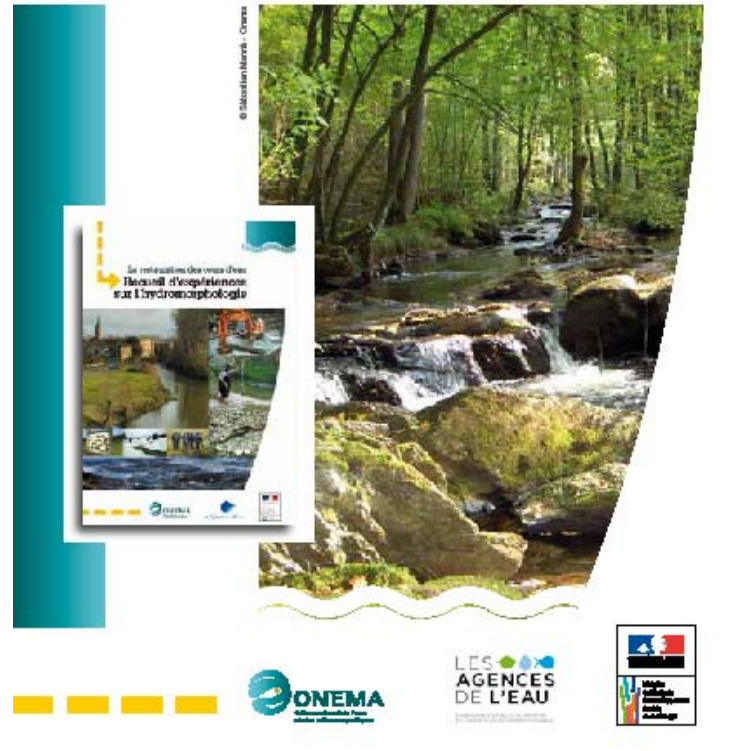


Photo : A. Richard

*THANK YOU
FOR YOUR
ATTENTION*

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<http://www.onema.fr/Hydromorphologie,510>

Hydromorphology restoration and flood risk reduction: Fontenelle river

