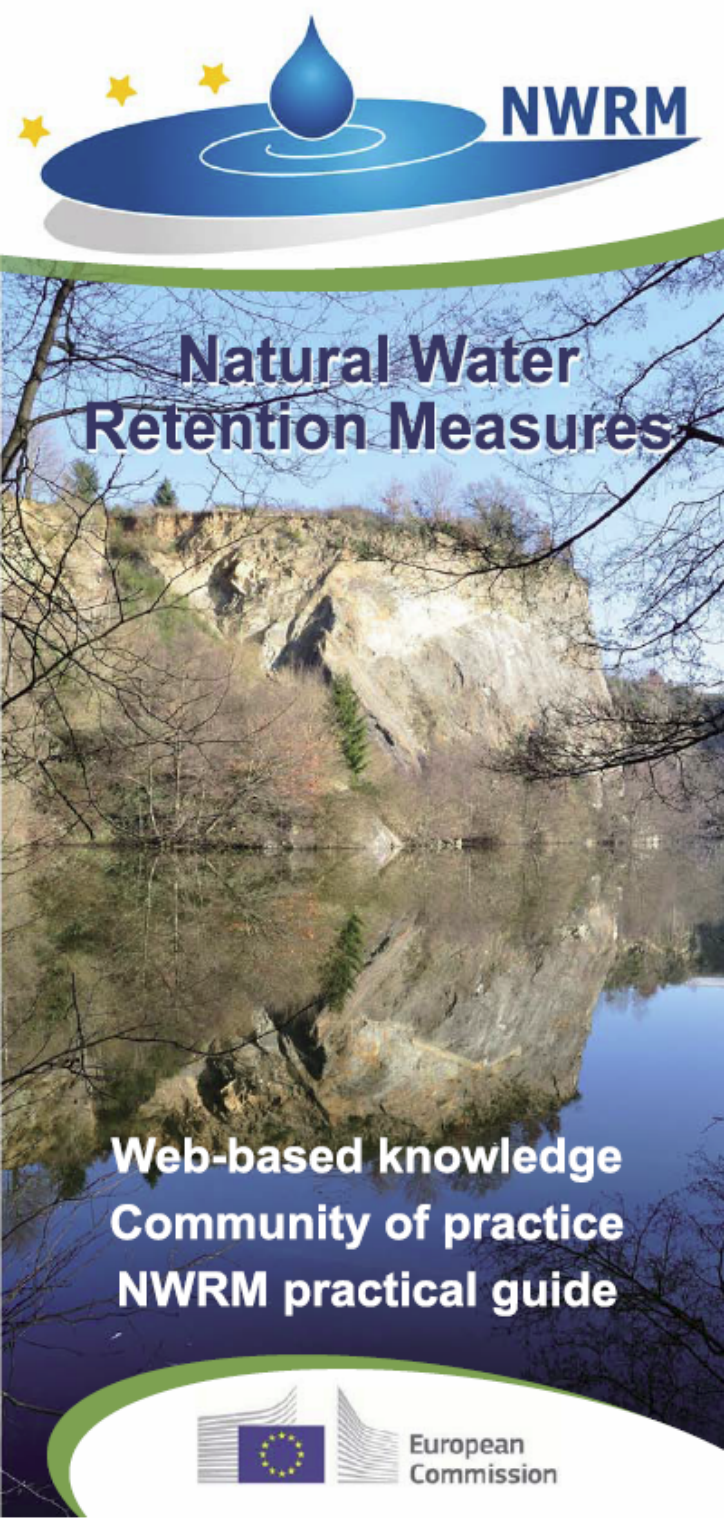


NWRM

Pilot Project - Atmospheric Precipitation - Protection and efficient use of Fresh Water: Integration of Natural Water Retention Measures in River basin management

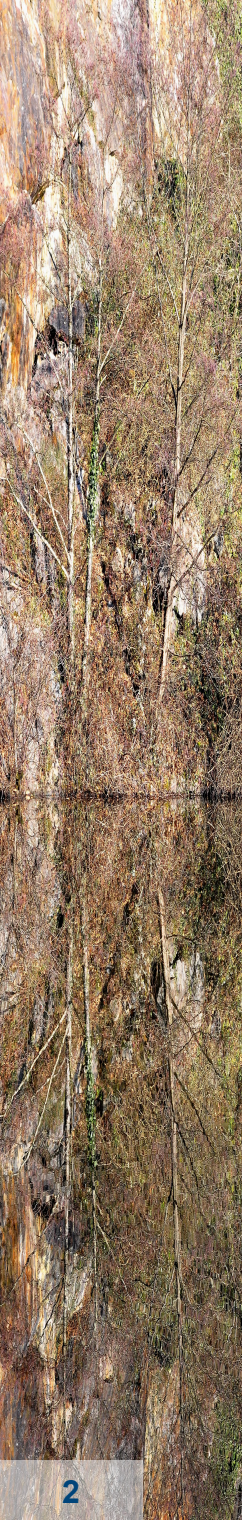
Service contract n°07.0330/2013/659147/SER/ENV.C1- DGENV

NWRM features: an overview of the main outputs and outcomes of NWRM initiative

Benoît Fribourg-Blanc
OIEau, Coordination team

Office International de l'Eau

ACTeon environment



Main outputs / outcomes

Done so far

Catalogue of measures:

- 53 measures so far (clustering in 4 land use groups)
- continuously adjusted by our experts (polder, mulching)

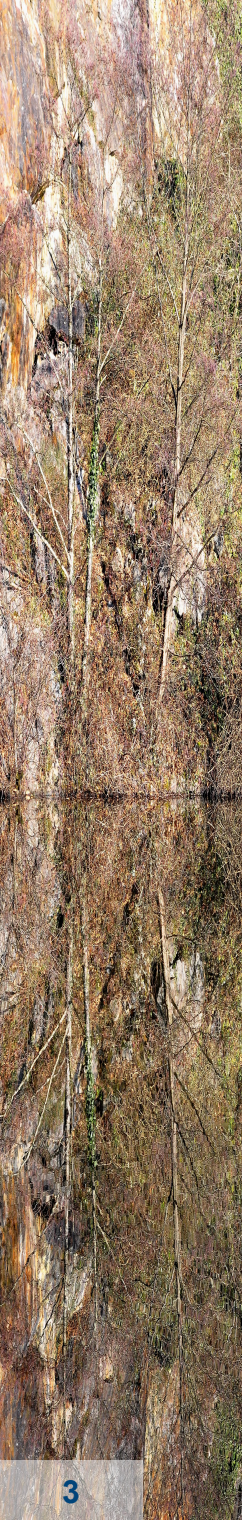
Workshops:

- first series in January 2014 → awareness raising
- second series ongoing, focussed on NWRM implementation

Case Studies collection:

- 40 in-depth case studies
- light case studies (current 44, objective: 56)

→ **If you have good cases on agriculture** (strip/intercropping, early sowing, mulching, traditional terracing, **on forestry** (water sensitive driving, CCF, reservoir catchment, urban trees) **send e-mail to contact@nwrm.eu**



Main outputs / outcomes

Under development

NWRM individual factsheets:

- 53 factsheets (1/measure) with cluster functions
- 53 knowledge base templates
- literature review + know-how: a knowledge base form gathering quantitative and qualitative data

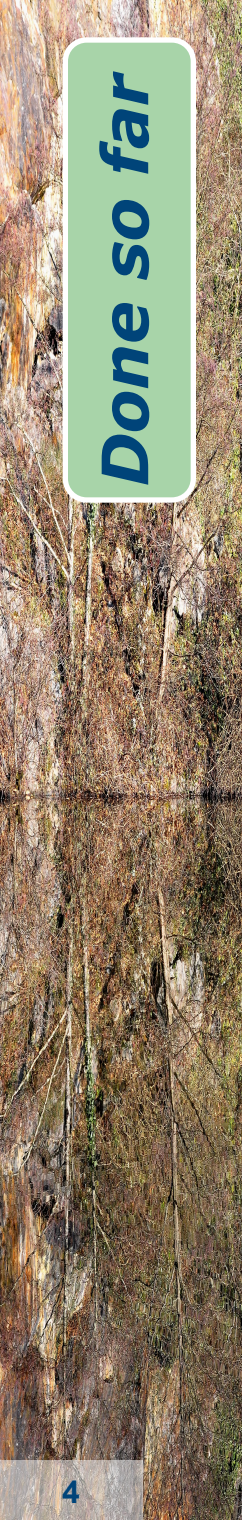
Policy Questions:

- literature review
- 12 synthesis documents (3 disciplines)

Exemple: Economic Assessment of NWRM

Platform for end-users:

- targeting practitioners, managers, policy-makers
- friendly interface, linked to the database



Done so far

Last version of the catalogue of NWR Measures

- Based at the beginning on Stella study

- Revised by NWRM experts

- Revised by Steering Committee (JRC, EPA, DGENV, …)

- Currently: list of 53 measures
  last update: polders and mulching

so far

Last version of the catalogue of NWR Measures

	A	B	C	D	E	F	G	H
1	NWRM ID	ID	Sector	NWRM			Technical skill	NWRM description/definition
2	(01/14)			Name	Action	Biophysical benefit		
3	A1	A1	Agriculture	Meadows and pastures	Restoration, Maintenance	Source Control, Decrease of runoff, Flood protection	Planting	Meadows are areas or fields whose main vegetation is grass, or other non-woody plants, used for mowing and haying. Pastures are grassed or wooded areas, moorland or heathland, generally used for grazing. Due to their rooted soils and their permanent cover, meadows and pastures provide good conditions for the uptake and storage of water during temporary floods. They also protect water quality by trapping sediments and assimilating nutrients.
4	A2, A3, A12, A13	A2	Agriculture, Urban, Nature, Forest	Buffer strips and shelter belts	Restoration, Maintenance	Source Control, Decrease of runoff, Biodiversity enhancement, Soil conservation	Planting	Buffer strips are areas of natural vegetation cover (grass, bushes or trees) at the margin of fields, arable land, transport infrastructures and water courses. They can have several different configurations of vegetation found on them varying from simply grass to combinations of grass, trees, and shrubs. Due to their permanent vegetation, buffer strips offer good conditions for effective water infiltration and slowing surface flow; they therefore promote the natural retention of water. They can also significantly reduce the amount of suspended solids, nitrates and phosphates originating from agricultural run-off. Buffer strips can be sited in riparian zones, or away from water bodies as field margins, headlands or within fields (e.g. beetle banks). Hedges across long, steep slopes may reduce soil erosion as they intercept and slow surface run-off water before it builds into damaging flow particularly where there is a margin or buffer strip alongside.
						Water quality improvement		Crop rotation is the practice of growing a series of dissimilar/different types of crops in the same area in sequential seasons. It gives various benefits to the soil. A traditional element of crop rotation is the replenishment of nitrogen through the

NWRM-list | List actions_BP-benefits | Discussion-polder

NWRM

Under development

U1 – Green roofs

Urban

53 NWRM knowledge base forms

N3 - Floodplain

Hydromorphology

53 measures
4 sectors
53 individual factsheets

Agriculture

A1 – Meadows and pastures

Forest

F5 – Land use conversion

Under development

Policy questions

- **Objective:**
  - Complementary to information on *individual NWRM* and implementation good *case studies*

12 Policy questions

12 synthesis documents

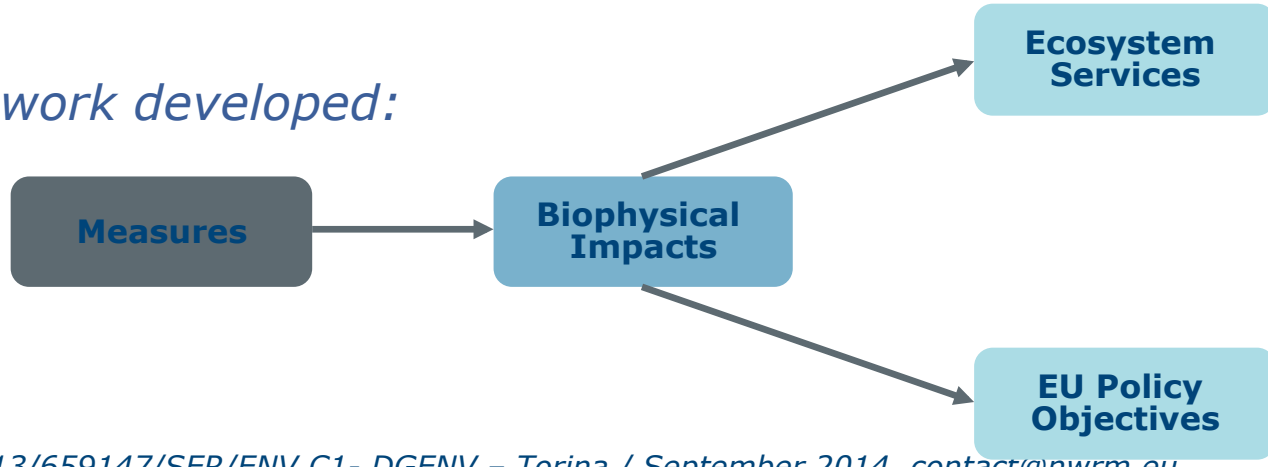
➔ grouped under 3 disciplines

Biophysical and technical aspects | **Socio-economic dimensions** | **Governance, implementation and financing**

➔ subdivided in questions

Example: What is the role of policy coordination for implementing NWRMs?

-A framework developed:



NWRM

Done so far

Case Studies Collect

40 in-depth

40 in-depth case studies

Case study template

In-depth case study factsheet template

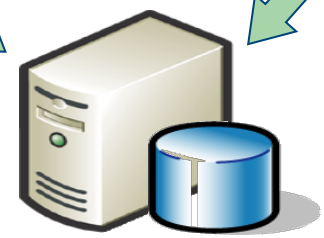
+

56 light (2-3 per country)

56 light case studies

Case study template

Database



NWRM

Under development

References

1. 102 minimum literature references
   - Literature_sources_minimum_0404
2. Other Literature references (national language, 28MS)
   - literature template-vf
3. Literature references for Case studies (partners)

Templates

4. 53 NWRM factsheets
   - NWRM factsheet template
   - NWRM list-v10
5. 12 Policy questions
   - Synthesis_docs
6. 40 in-depth case studies
   - Case study template
   - In-depth case study factsheet template
7. 56 light case studies
   - Case study template

Final product

8. Database

9. Platform

Practical guide with navigation via
- Hyperlinks
- Maps
- Search functions

07.0330/2013/659147/SER/ENV.C1- DGENV – Torina / September 2014, contact@nwrm.eu

Under development

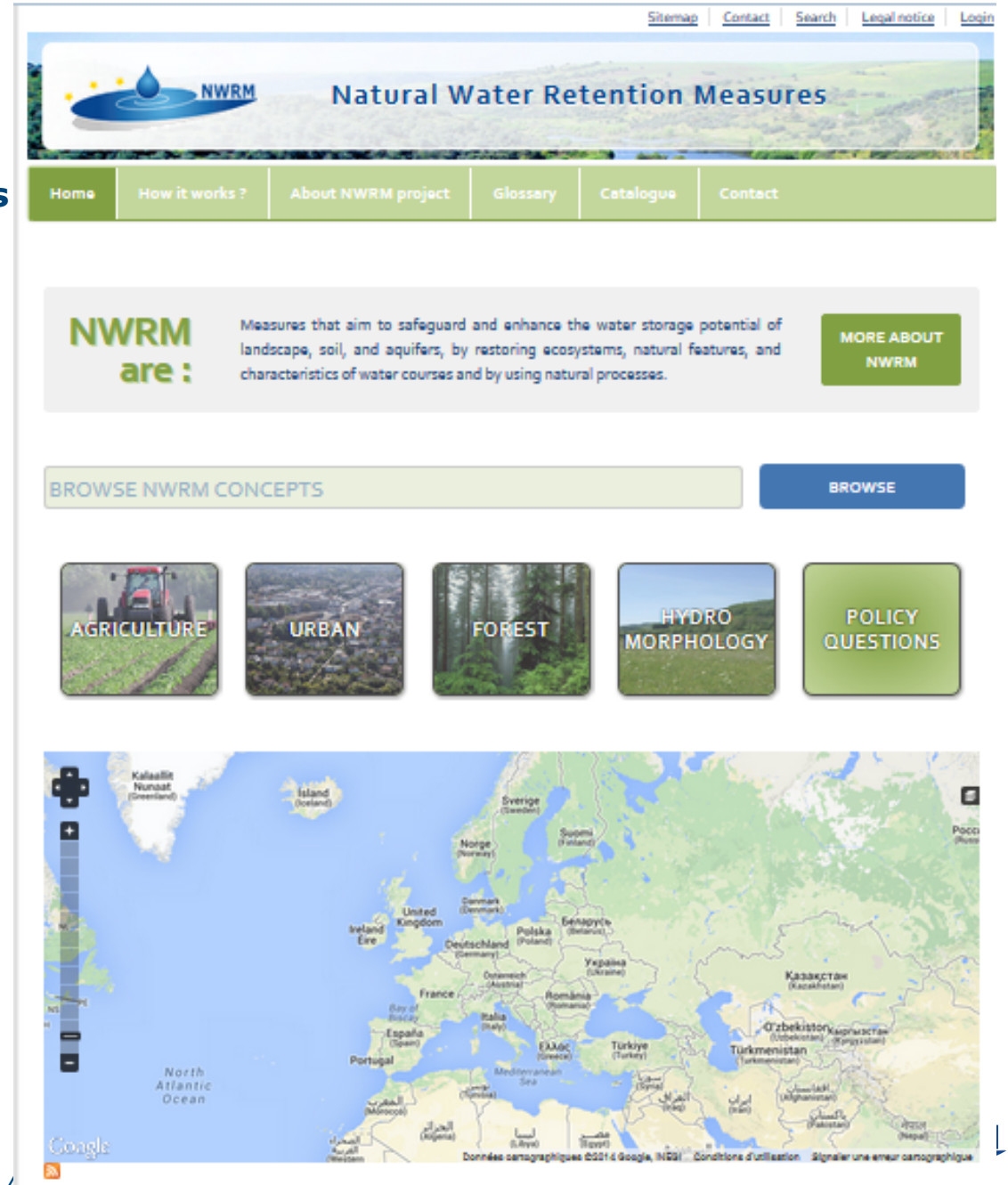
The platform

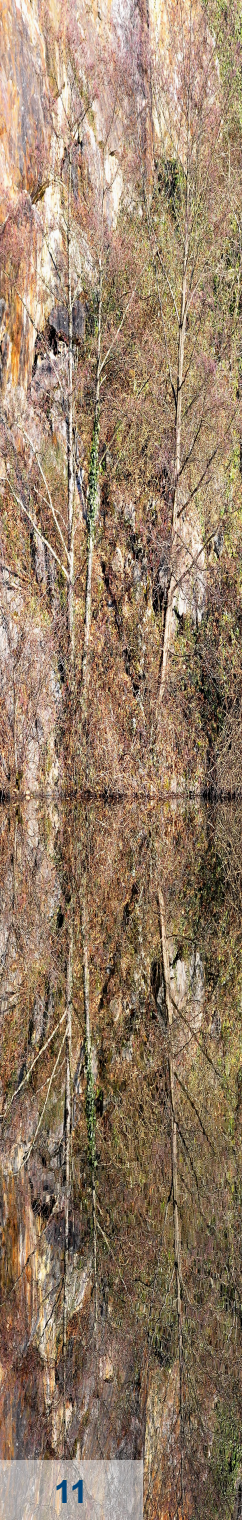
Main menu for access to different parts

Search tool

Access to the catalogue

Map locating case studies





Thank you for your attention!

Benoît Fribourg-Blanc
OIEau, Coordination team