

Thematic Group on Resource Efficient Rural Economy

Workstrand 3: Good practice examples

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Overview of Workstrand 3

"...there are already many great examples of good practice out there that we could learn from..." TG2

- 1. See what projects we already have information on?
- 2. Summarise this information and gather new examples.
- 3. Follow up on interesting projects in more detail to address:
 - 1. 3 Thematic and 3 Cross cutting themes

"...even where good practice examples and case studies exist, they often do not contain the level of detail or specificity necessary to understand why and how initiatives developed and worked in practice." TG2





EU project databases

ENRD



Water preservation project 'AQUABRAVA'

This LEADER-funded project created several small wetlands and helped raise awareness of and interest in water protection among landowners. It also contributed to increasing the amount of available water in the island of Gotland.

ummarv

Since the 1990's, access to ground water has been declining in the Island of Gotand, Sweden. Private dug wells have been dying Sweden. Private dug wells have been dying livestock farmers who have been obliged to tap water from a municipal water catchment. Drilling new wells had not brought a solution since the newly drilled wells produced either brackish or gassy water, or often there was high drilling cost for no water found.



In 2003, a study on the water system circle started to investigate the factors that had a crucial effect on the water access in the area and would increase the water resource for their wells. Aff list, three pends and wetlands were created to test the effectiveness of the method which proved to be far better than expected. The 'Aquabrawa' project supported the creation of an additional eight wetlands and ponds with a total area of 10 ha.

The project further set up a monitoring system, including metrics, methods and templates, and applied it in the year following the construction of the wetlands to document changes. Finally, a series of fectures and meetings were conducted to raise awareness and promote

Results

The efficiency of the wetland system was proven when the autumn rain filled all vetlands and increased water levels in wells doses to the system within a week. A subsequent measurement showed increased water levels in wells located further away from the wetland system. The creation of wetlands and ponds noticeably increased coxes to water in the area even during periods of drought.

The method has proved to be cost-efficient as the costs are limited to construction and maintenance.

Another advantage of the wetland system is that it is largely located on pasture land thus providing the cattle with constant access to water: a highly valued asset by the farmers in the area. The system has also reduced the amount of water provided b other parts of the Gotland island.

recommendation of the Bullic Sea as wetlands have now become stabile ecosystems with high bloodwersity in the watershed area. Species include different types of water plants and insects. Finally, the wetland system provides social benefits – it has become a recreational area.

Lessons & Recommendations

It is be advisable to monitor the wetland system and water level increases beyond the duration of the project in order to obtain better and more scientifically valid







66 Projects

- 2007 2017
- Soil Nutrients
- Soil Carbon
- Water Availability
- ENRD + LIFE

Progress in collating examples

~	Cou W	Region	Operat 🔻	Sta V	End W	Durat 🔻	There Y	Name V	Description		Code	Deneficiary Name	▼ Benefic	iary Type 🔻	Total Budg	EU contrib	utic 🔻	% EU Contributio	ma w
1	SE		2011-2014	2011	2014	3	Soil nutrients		An advisory programme on reducing nutrient pollution, implemented at county level helps minimize the impact of agriculture on the environment.	CA/RD			Gotland count	y board	€ 165,775.00	€ 1	55,775.00	100	Mitty // lennt ac. europa authorijects -practice/greppa-naringen-advice- treventing-fertilizer-curoff-octland-sweden. en
2	DK		2012 - 2014	2012	2014	2	Soil nutrients - mainly	 	A farmers association provided support on planning and facilitation of land	CAYRD			Agri Nord		€ 35,200.00		8,650.00	75	Mp. (mrd at except a project grading providing and develop-
	FR.	Place: Auvergne	2015 - 2016	2015	2016	1	Soil nutrients		stewardship, with particular focus on grazing in Sanderup river valley. Farmers in Franceis Auvergne region used EAFRD support to presenve prestand and	CATRO			Parc naturel R		6 470 866 70		9,966,00		eNCONStinderup-stream-valley on 4 http://enrif.ac.europa.eu/projects-practice/preserving-positions-and-wet-
,	PK	Hadi: Auvergne	2015 - 2016	2015	2016		July 100 Held		wet meadows in two Natura 2000 areas where over a hundred farmers raise cattle.				Volcans d'Aux	ngne		, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		medows-auvergne, an
	FR		2015 - 2017	2015	2017	2	Soil nutrients		A cooperation project trought together local farmers, inhabitants and public	CATRO		-	SROM (private	consultancy	€ 1,100,000.00	¢ 5	00,000.00		A http://enviller.europa.eu/projects-practice/fighting-against-soli-erosion-
5							Soil carbon		services managers to jointly define and promote soil preservation technics adapted in busylval environment. A Slovek state enterprise used EAFRD funding to plant new forest seedings and	CATOO.			project coords		e en 183.00		VA.307.00		mayotte-leselam_en
	SK		2014 - 2015	2014	2015	1	Soil carbon		develop a forest road for maintenance activities, strengthening the forest's	EAVED			state enterpris		€ 460,383.00		99,307.00		forest_en
6	æ		2011 - 2013	2011	2013	2	Water availability		This LEACER-funded project created several small wedands and helped raise searchess of and interest in water protection among landowners. It also	CAYAD			Conomic Asso Jordonnan	scianion	€ 154,554.00	6 1	8,095.00	52	http://envillac.europa.eu/projects-practice/water-preservation-projects http://estohubilaquabraye/lst2/satohubilage.en
7	N.		2012 - 2013	2012	2013	-	Water availability		contributed to increasing the amount of excitation when in the intent of Gottend. A canal atmain was reconstructed to get owing water storage capacity and to	CAYRD		+	Waterboard D	renths	€ 1,300,000.00	€ 5	75,006.00	44	Moviment or except expression profits incoming for exercising
									improve the water quality and blodiversity in the surrounding area. ISSUFFAME is an expert system for intigation backed by the results of more than 50	CAYRD				onfice - CDR					and in
	iT.		2012 - 2014	2012	2014	2	Water availability		years of research on plant/water relations and sustainable irrigation management.	EAVRD			and ANIX	onfice - CER					http://www.europa.eu/projects-grantos/hinda-erffame-automatio- ingetion-management-0_en
9	DG		2009 - 2012	2009	2012	3	Soli nutrients		The State Hunting Enterprise "Okohan" in cooperation with local authorities implemented this project with the aim to affored non-acricultural land and project	CATRO					€ 35,235.00		3,770.00	ec ec	Mbp://iend.ac.auropa.eu/end-static/policy-in- action/rdo.view/en/view.protect 11962 en.html
10	CZ		2007 - 2013	2007	2013	6	Soil nutrients		the land from the row of process and process (Sellin). Parting Todder Strips on Arabia Land to Protect Widdle, Sophersty and Soll	CAYRD		-	farmers		€ 1,140,000.00	€ 9	0,000.00		Marchine errors suint distribution
									Quality	CATRO					€ 23,320,00		2.825.00		action/rdp_view/en/view_project_9980_en.html
11	FR		2006 - 2013	2006	2013	5	Water availability		The farm Metains Neuer SCIA implemented a multi-annual agri-environmental scheme and thanks to the project, the use of perticides has reduced continuously on the land and the residues in the water have faller.	EAVRD			Farmers		€ 23,320.00		2,825.00	20	M. http://iennd.ac.europa.eu/ennd-static/golicy-in- action/indp_view/en/view_project_10181_en.html
12	GR		2009 - 2011	2009	2011	2	Water availability	†	on the lend and the residues in the wester have fallen. The burds aided the Velventos Local Organisation of Land Improvement to introduce a new system of electronic water abstraction and irrigation. This has	CAYRD			Regional admi	nistration	€ 602,085.00	¢ 3	57,125.00	6	Migration of the second and the second secon
13	DE		2029 - 2014	2009	2014	5	Water availability	ļ	resulted in high fineralal benefits and the better use of resources.	CATRO		_	Farmers		€ 223,000.00		4.000.00		
			2007 - 2004	2007	22.0	_			as experts from both public and private sectors to find new and innovative ways to adapt hop production to the Water Framework Directive and to meet water	1									actioning, view/en/view project 9921 en.html
14	DE		2009 - 2011	2009	2011	2	Water availability	 	evaluative. This project sought to improve the ground water balance through modernizing the	CATRO		_	Farmers		€ 269,673.00	¢ 2	H,922.00	72	
							Water availability		rift systems, and thus improving the agricultural conditions and well as the habitat. for numerous section in Rendershard Nickinh previous. The project augusted the endormation of the impacts facilities in 1,070 horizon.	CWRD					€ 23,233,634,00		93,485.00		action/rdp_view/en/view_projects_en.html
15	ES		2006 - 2011	2006	2011	3	Water availability		It replaced traditional surface irrigation systems with a new intigation network using	EWIND			Regional admi	netration	€ 23,233,634.00		89,485.00	,	action/indp_view/enriview_project_8240_en.html
15	DE.		2007 - 2000	2007	2010	3	Water availability	†	A mention control operation when the control of the	CATAD			Regional admi	nistration	€ 565,800.00	€ 5	55,800.00	100	Attorition of an europe authors statistically in- potion indip view for view project, 1280, an item
17	GR		2006 - 2012	2008	2012	4	Water availability	ļ	water, improving water quality and protecting the blodiversity of the river basin. Surface waters storage works, introduce materials reclasion and artificial reclasion of	CAYRD		_	Sectional artesi	nidration	6 6,940,000,00	€ 4,9	4,376.00	77	No. (New Communication and Associated States (Species)
									underground aquifers significantly contribute to sustainable intigation water management when environmental concerns are taken into account in the design										action/rdp_view/en/view_project_2660_en/toni
10	GR		2009 - 2013	2009	2013	4	Water availability	 	A large infrastructure project in Greece assisted with EAFRD co-financing to help	CAYRD			Regional admi	nistration	€ 4,400,000.00				N 185: //www.ec.europa.eu/enrol-static/policy-in-
29	CY		2006 - 2010	2006	2010		Water mulichilly		implement CU legislation regarding the protection and sustainable management of VADENTIA AND ADDRESS AND ADDRESS AND ADDRESS ADDRESS AND ADDRESS ADDRESS ADDRESS AND ADDRESS ADDRESS AND ADDRESS ADDR	CAVED					£ 1,708,601,00				action/rdp_view/en/view_project_2640_en.html ###################################
29	CY		2008 - 2010	2006	2010	2	Water availability		a feeding seeding nursery in Cyprus with co-financing for the installation of a modern new 'smart' intigation system that is both saving costs and conserving	ENKD			Partiers.		1,700,001.00				action/rdp_view/en/view_project_841_en.html
20	ES		2006 - 2013	2006	2013	-	Soil nutrients		water. This project creates strips of weartal cover by planting bushes and sowing a misture	CARD		_	Farmers		€ 3,009,065,00		7,548.00	-	http://www.ec.europa.eu/end-etatiopolicy-in-
									of coreals in order to control soil erosion. As a result, there is also better management of water and more plant diversibs.							6 12	13,717.00		action/into_view/en/view_project_4200_en.html
21	ON.	Deutschland : Bayern		2006		-2006	Water availability	FL000SCAN	New technology for fast, precise and cost efficient modelling of flood hazard areas through a combination of laser scanning with remote sensing data.	UFEOS D	N/0/000465	Reyerisches Landesand für Limwelt			€ 2,748,653.00	€ 1,0	03,354.00	40	http://ec.europa.eu/environment/ife/project/?nojectu/index.chr?fuseaction hr-search.dupPagelin_proj_3d=2000
22	es	Sapafa : Aragón/France : Britragne		2006		-2006	Nations	(S-WWWAR	Environmentally friendly management of twine waste in agriculture based on innovative techniques.	UFEOS ES	NV/5/00004	SODEMNSA - Saciedad de Desarrollo Rural de Aragón	S.A.		6 6,899,568.00	€ 23	64,163.00	33	http://ec.europa.eu/environnent/life/project/Projects/index.che?fuseactio nnearch dipPagellin, proj. Id=3070
23		talla : Emilia- Romana/berochland : Raden				-2006				+		u.	_					46	
		Worstenderg/Deutschland : Maden- Worstenderg/Deutschland : Etheroland (Malo/France :		2006			Nations	ATMIT	Mitigation of agricultural nonpoint-source perticide pollution and phytonemediation in		W/Essessa	ENSEES (Scole Nationale de Genie de l'Eau et de			£ 1878.01.00	6 10			http://ec.europa.eu/environment/life/project/Projects/Index.che?fuseactio
- 1	_	Tayle, France/France : Cantre/France : Alsoca/France :		200	1		Numeros	William	a tilicial wetland ecceptame.	LO TON IS	N/S/OWNERS	l'Environnement de Strado	wg)		C AMALES		CK MILLO		nnsanch dipPage&n, proj. ktr. 5000
24		Rhône-Ripes	_		_	-2006			Integrated systems to enhance sequestration of carbon, producing energy (rook by using	₩		Centro Ricenthe Produzioni							M. 1988 // Rec auropa eu/environment// Reforeject/Projects/Index.chm/lusescilo
25	IT.	tala: Enila-Ronagea	_	2006	1	-2007	Nutriers / Soil carbon	Seq-Cure	organic residues. Demonstration of medium and long-term water resources modelling tools for planning and	UP ECO IN	NV/11/000266	Animali - CRPA S.p.A.			€ 1,917,091.00	_	55,989.00		musech diplogation proj 14-1566 http://ec.surgp.au/seyronne-y// fe/project/Project/Index.chs?/usescio
25	es	-	-	2007		-2007	Water availability	WATER CHANGE	adaptation to climate change. Application to the Libbregat Basin.	arter to	N/I/Ocoans	Cel Agua			€ 1,234,280.00	6 1	16,020.00		ninsearch digPagellin, proj. kt=3276
1	6L	Ellas Kertriki Makedonia		2007	•		Nutrient / Water availability / Soli carbon	Soil Sustainability(So.S)	Development of tools for improved soil management regarding soil erosion, organic matter decline, salinisation, contamination and sealing.	UFEC? E	N/SA/00278	"Development Agency of Ea Thessaloniki ""Anassiki S.A.	ezem ,		€ 1,572,745.00	€ 1	71,872.00		** http://ec.europa.eu/en/roment/life/project/Projectu/Index.chs?fusesctio tr-search.dspRageBin_proj_td=3305
27	σ			2007		-2007	Nutriers / Water availability	RE-WASTE	Valorisation of olive mill waste waters by recovering high added value bio-products.	UFECE D	NV/17/909421	Industria Okaria Bagio Ma s.c.i.	taluvi		£ 1,546,500.00	()	73,250.00	22	6 http://ec.europa.eu/en/noveme/file/project/Project/index.chr?files.actio https://doi.org/10.2016/j.jch.247
28						-2007						Autorità di bacino dei flumi Isonao, Tagliamento, Liveno						46	4
		Italia : Vieneto										Place, Brenta-Bacchiglione (Nuthority of the Brenta,							
									Demonstration of innovative actions to assess and improve groundwater storage in			Bachiglione, Plave, Liverza Taglamento and Isono Riv	-						http://ec.europa.eu/environment/life/project/Projects/index.cfm?Huseaction+sear
29	iΥ			2007		-2007	Water availability	nusr	adaptation to climate change. Sustainable management of the Esina river basin to prevent saline intrusion in the coastal		Ny11/000475	Basins)	_		£ 1,838,360.00		198,380.00		dh.daphagelinprojid+3252 Nifrep.//lec.europa.su/environment/file/project/Projects/index.dm?Yuseaction+sear
30	PL			2007		-2007	Water availability Nutrients	SALT Lakement in Snivane	equifier in consideration of climate change. Improving water quality in belonek and Winlary takes (PL) by inactivation of pheephonus in		NV/11/900497 NV/Ps/900605	Mulliservisi SpA Yours of Snivane			€ 1,447,112.00 € 691,861.00		15,990.00	=======================================	dh.daphagelin, proj. idi 1279 Natip (fec europa sufervironnent/file/project/finojects/index.chr?flusection-sear
30	16			2007		-2007	Water availability	GreenClimeAduct	bottom sediments. Demonstration of green tools for urban climate adaptation.	UFECT D	W/S/D00908	City of Majnio	_		6 326626400	€ 13	#2.992.00	2	
32		-				-2007	Nation/Water		Improved management of contaminated aquifers by integrating source tracking.		W/Sig/000725	Zavne podjetje vodovod			6 18049500		04.860.00	*	dh.daphagekin_proj_id+3263 % Petp (jiec.europa eujenvironnent/life/project/Projectu/ndex.dh-Huseaction-exar
33	76	Cyprus : Extra-Regio/Cyprus :		2007		-2006	remidely	No.WE	monitoring took and decision strategies.	(J10) (I	Ng 5L0/900725	kanalizacija d.o.o.			1,000,000.00		IPCRIS 00	2	dh daghagalan, groj, id+1267 la http://www.uruspa.su/environment/ife/project/Projects/index.cfm?Yuseaction+ssar
34	or	Egynos / Kibris/Cyprus : Mediterr. Gypnus (CY)	_	2008		-2006	Water availability	WNSC	Demonstration of techniques and actions to improve the environmental performance of wineries in Caprus.		Ny/cr/copess	University of Cyprus			€ 1,371,357.80		92,954.00		ch.dsphajetin proj. id+3479
34	es	España : Comunidad Valendana	_	3008	_	-2006	Water availability Nutrients / Water	AQUIVAL	Yest and promotion of Sustainable Listan brainage Systems in the province of Valencia (IS) Inhuncement of sail againer treatment to improve the quality of recharge eater in the	-	N/1/000099	Apuntamiento de Xidiva Olifacia, Centro Tecnelógio			€ 1,228,618.00	_	195,KSB.00		 http://ec.auropa.eu/revironment/ife/project/Project/index.cfm?fuse.actio nnsearch.dspPageBin, proj. Idn/3448 http://ec.auropa.eu/revironment/ife/project/Projects/index.cfm?fuseaction.search.dsp.dip.dip.dip.dip.dip.dip.dip.dip.dip.di
35	es	fispafa : Caraluña	-	2008	_	-2006	availability National / Water	ENSKY	Information of the apparent parameters to improve the quarry or recharge water in the clobingst river delta aquifier. Demandation of innevative precision technologies for optimised infigution and integrated.	-	Ny%/000117	Agua The Soulandris Natural Kist			€ 1,340,358.00	_	97,372.00		th displayers are just a supervision of the project projects in description of the supervision of the superv
32	EL.	files : Thessala	-	2008	-	-2006	evallability	Hydrolense Sween-Aug	terminatorium or innevanire principion technologies for opinimies imgazion and integrated trap management in a ware limited agravystem. Demonstration of a small-scale mobile agricultural residue gashication unit for	-	NI/SR/00ES70	Museum Research Committee Aristo			£ 1,347,825.00		H4,787.00		ch.dsphage&n_proj_id+3466
38	115	Ellac Kerciki Makedonia Umia Umia : Bora-Regio/Umia	-	2008	-	-2006	Nutrierts	SMARGOR	decentralised combined heat and power production.	UPEON D	NI/SR/00ESIS	University of Thessaloniki	_		€ 947,287.00		50,543.00		ch.daphayekn.proj.id+3472
-		Lanvja : Zengale/Latvia Latvija : Videneišaoja Latvija :				-				1								_ ~	





Progress in collating examples

Soil Nutrients

- 31 projects / 12 MS
- 2007 2015
- €36,000 €7,000,000

Soil carbon

- 15 projects / 6 MS
- 2007 2014
- €460,000 €3,500,000

Water availability

- 42 projects / 16 MS
- 2007 2012
- €23,000 €23,000,000

Multiple objectives

- 18 projects / 7 MS
- 2007 2012
- €38,000 €3,500,000





Activities

Advisory programmes

Valorising wastes

Preserving fragile ecosystems

Capacity building

Cooperation

New infrastructure and reconstruction

Adapting to Water Framework Directive

Managing wastes

Green tools for climate adaptation

Modernisation for resource efficiency

Reducing environmental impact of nutrients

Managing aquifers





Thematic focus

Soil nutrients

Valorising wastes

Managing wastes

Reducing environmental impact of nutrients

Soil Carbon

Green tools for climate adaptation

Preserving fragile ecosystems

Water availability

New infrastructure and reconstruction

Modernisation for resource efficiency

Adapting to Water Framework Directive

Managing aquifers

Multiple objectives

Advisory programmes

Capacity building

Cooperation





Cross cutting

Motivation gap

Advisory programmes
Cooperation
Capacity building

Policy gap

Green tools for climate adaptation

Adapting to Water Framework Directive

Knowledge gap

New infrastructure and reconstruction

Modernisation for resource efficiency

Reducing environmental impact of nutrients

Managing aquifers

Valorising wastes

Preserving fragile ecosystems

Managing wastes





Next steps

Interrogate the EIP-AGRI project database

Analyse projects by cross cutting themes

Identify interesting examples to follow up

Identify new examples from the TG

Presentation of synthesis at TG4 in May

Develop outputs







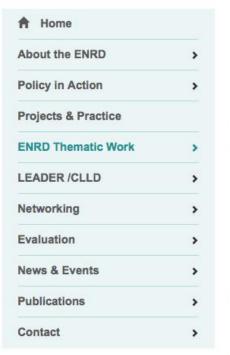


THE EUROPEAN NETWORK FOR RURAL DEVELOPMENT (ENRD)

Connecting Rural Europe ...

European Commission > The European Network for Rural Development (ENRD) > ENRD Thematic Work > Greening the Rural Economy > Resource Efficiency





TOOLS

Resource Efficiency in practice



Examples of resource efficient use and management of soils and water supported through European funds

Soil nutrients

- An advisory programme on reducing nutrient pollution, implemented at county level, helps minimise the impact of agriculture on the environment. (EAFRD)
- A farmers association provided support on planning and facilitation of land stewardship, with particular focus on grazing in Sønderup river valley. (EAFRD)
- Development of tools for improved soil management regarding soil erosion, organic matter decline, salinisation, contamination and sealing.(LIFE07 ENV/GR/000278)

Water availability

- Farmers in France's Auvergne region used EAFRD support to preserve peatland and wet meadows in two Natura 2000 areas where over a hundred farmers raise cattle. (EAFRD)
- Integrated systems to enhance sequestration of carbon, producing energy crops by using organic residues. (LIFE06 ENV/IT/000266)
- Demonstration of medium and long-term water resources modelling tools for planning and adaptation to climate change. Application to the Llobregat Basin. (LIFE07 ENV/E/000845)