



# Pilot study on SOIL





# Contribution of LIFE projects to the implementation, dissemination and further development of EU environmental policies and legislation



## Policy and legislative texts

- ***Thematic Strategy for Soil Protection (2006)*** and a ***Proposal for a Soil Framework Directive (2006)***
- The **Habitats Directive (1992)** and **Biodiversity Action Plan (2001)**
- EU **Integrated Pollution Prevention and Control Directive (2008)** and EU **Groundwater Directive (2006)**
- The EU Directive on **Nitrates** from Agricultural Sources (1991) and **Common Agricultural Policy**



## 4 SUBSECTIONS

- ➔ **Soil monitoring and conservation:** 9 projects.
- ➔ **Soil in biodiversity and climate change issues:** 7 projects
- ➔ **Soil contamination:** 14 projects
- ➔ **Soil management in the agricultural sector:** 9 projects



## **MEDAPHON**

LIFE08 ENV/H/000292

*This system measures parameters of the soil biota to assess biological and microbiological activity, ecological degradation and biodiversity from field to landscape level*

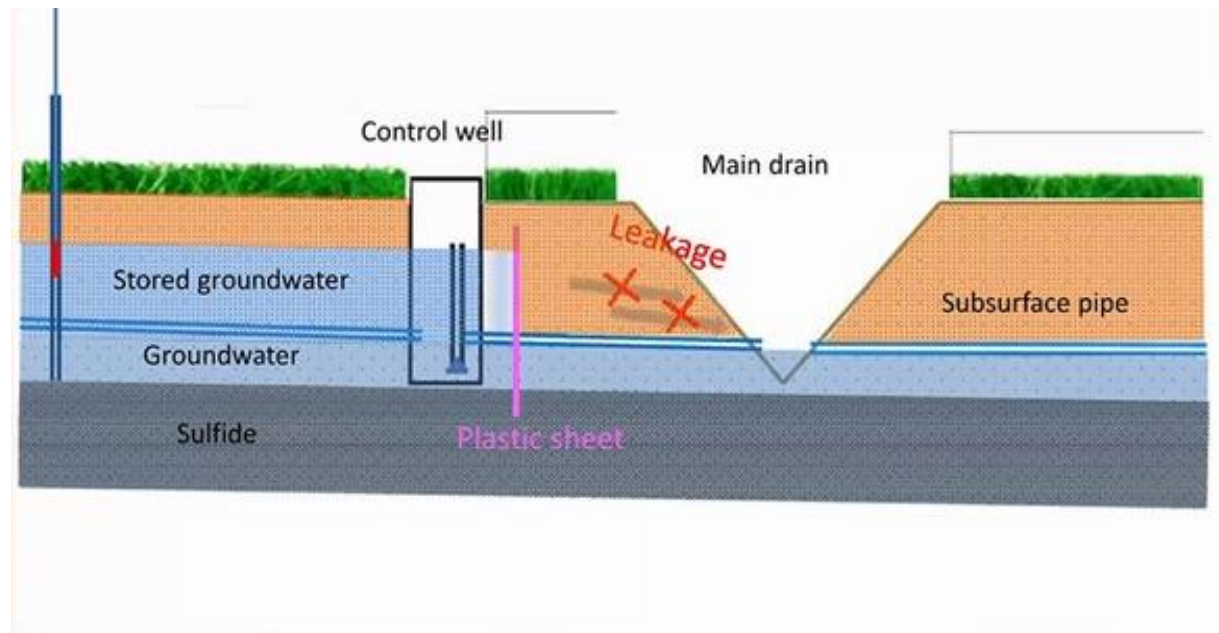




## CATERMASS

LIFE08 ENV/FIN/000609

*Addressed the issues that climate change poses to the management of acid sulphate soils in a Finnish river basin district. If dried and exposed to oxygen, this kind of soil generates sulphuric acid that causes heavy metals to be released and flushed into drains and recipient estuaries during wet spells, poisoning water bodies and surrounding lands.*



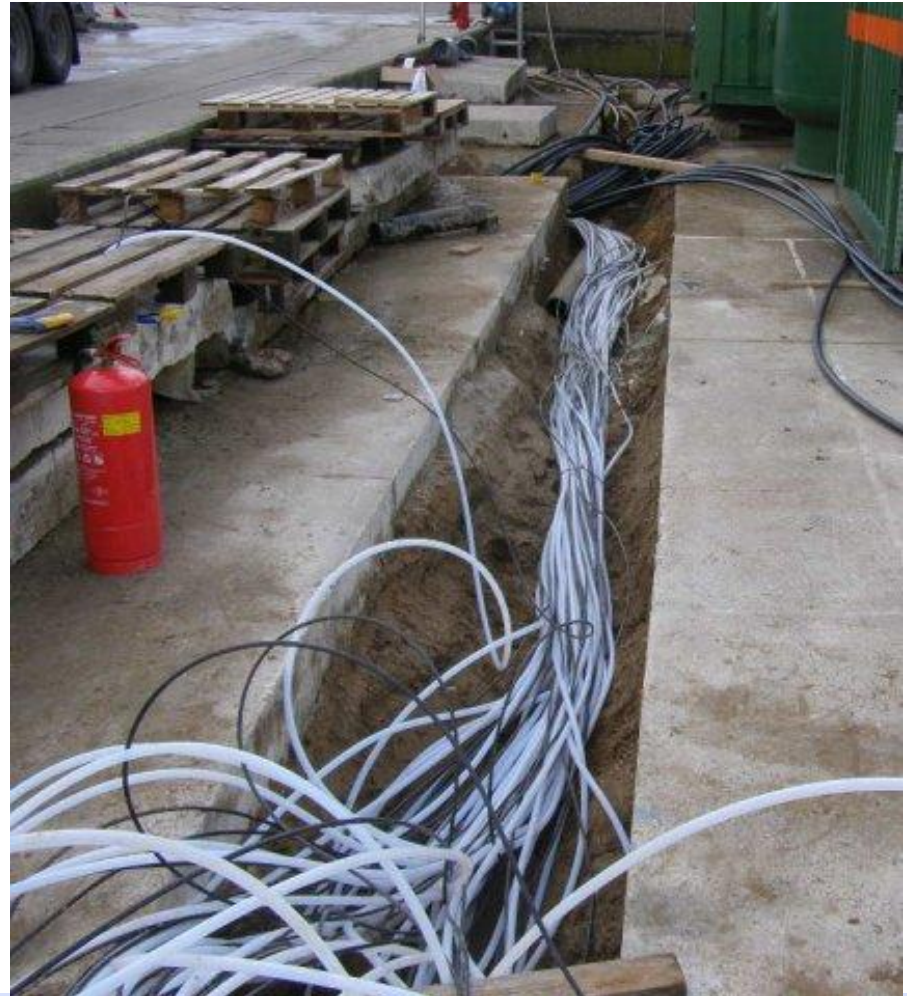




## **VOPAK-EXPERO3**

LIFE09 ENV/BE/000407

*Demonstrate the applicability of in-situ chemical oxidation in ex-industrial sites contaminated by a "cocktail" of organic pollutants*





## **PRIORAT**

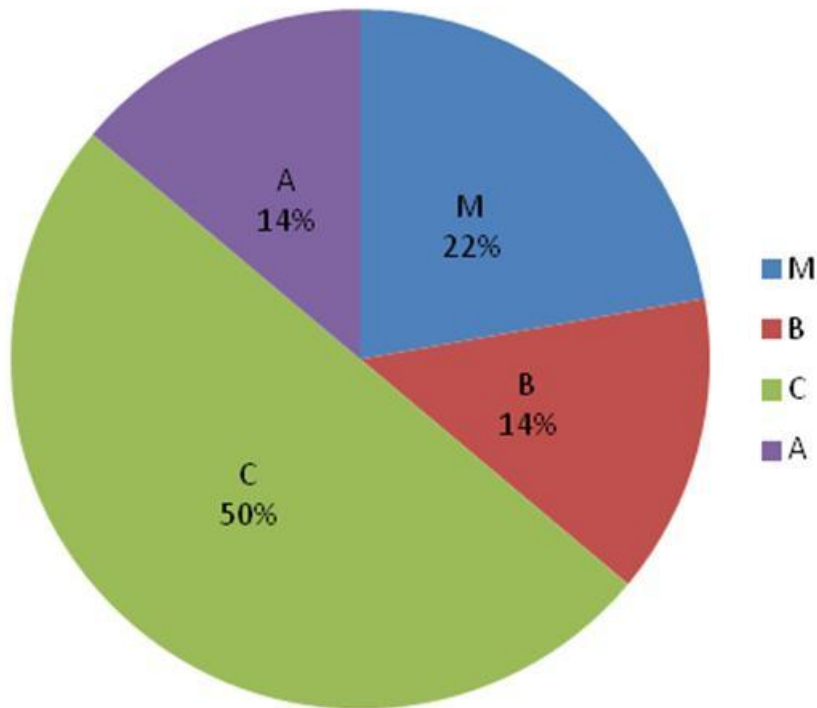
LIFE05 ENV/E/000330

*Promoted innovative land management systems for mountain viticulture, aiming at reducing the sector's environmental impacts on soils, while still producing wines of good quality*





Relative number of projects by category

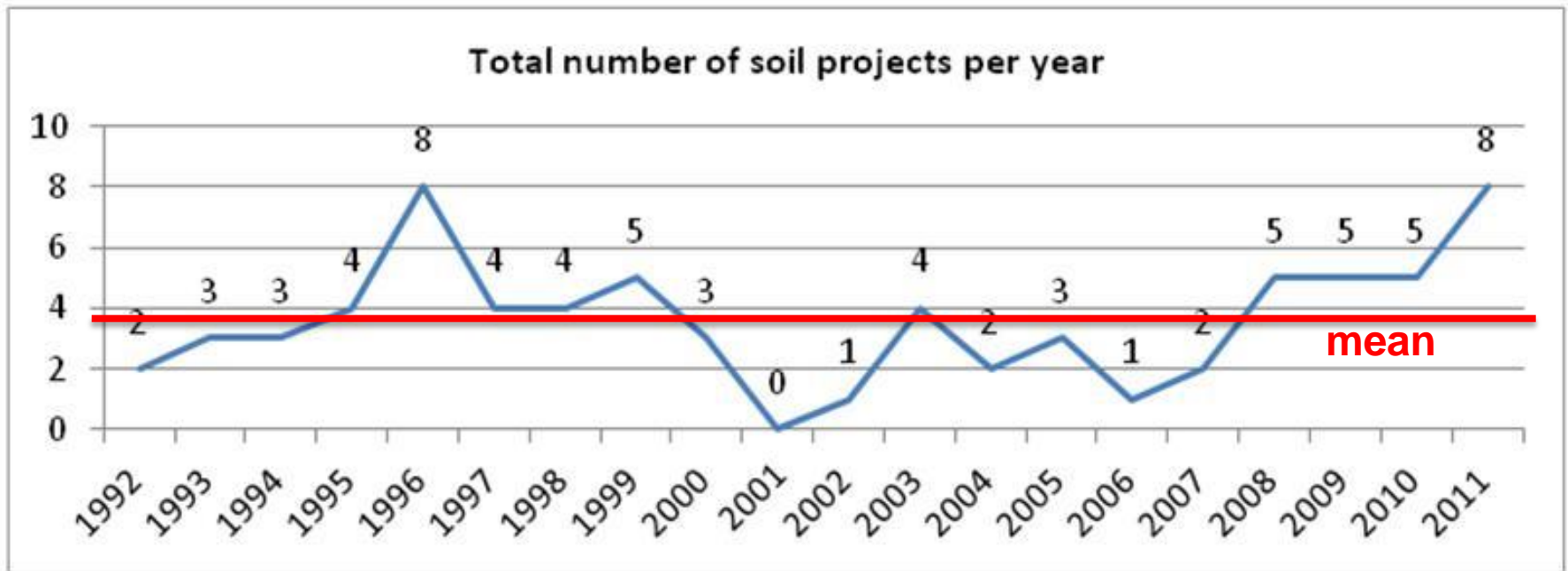


## *Relative number of soil-related LIFE projects by category*

- **M: Soil monitoring and conservation**
- **B: Soil in biodiversity and climate change**
- **C: Soil contamination**
- **A: Soil issues in the agricultural sector**

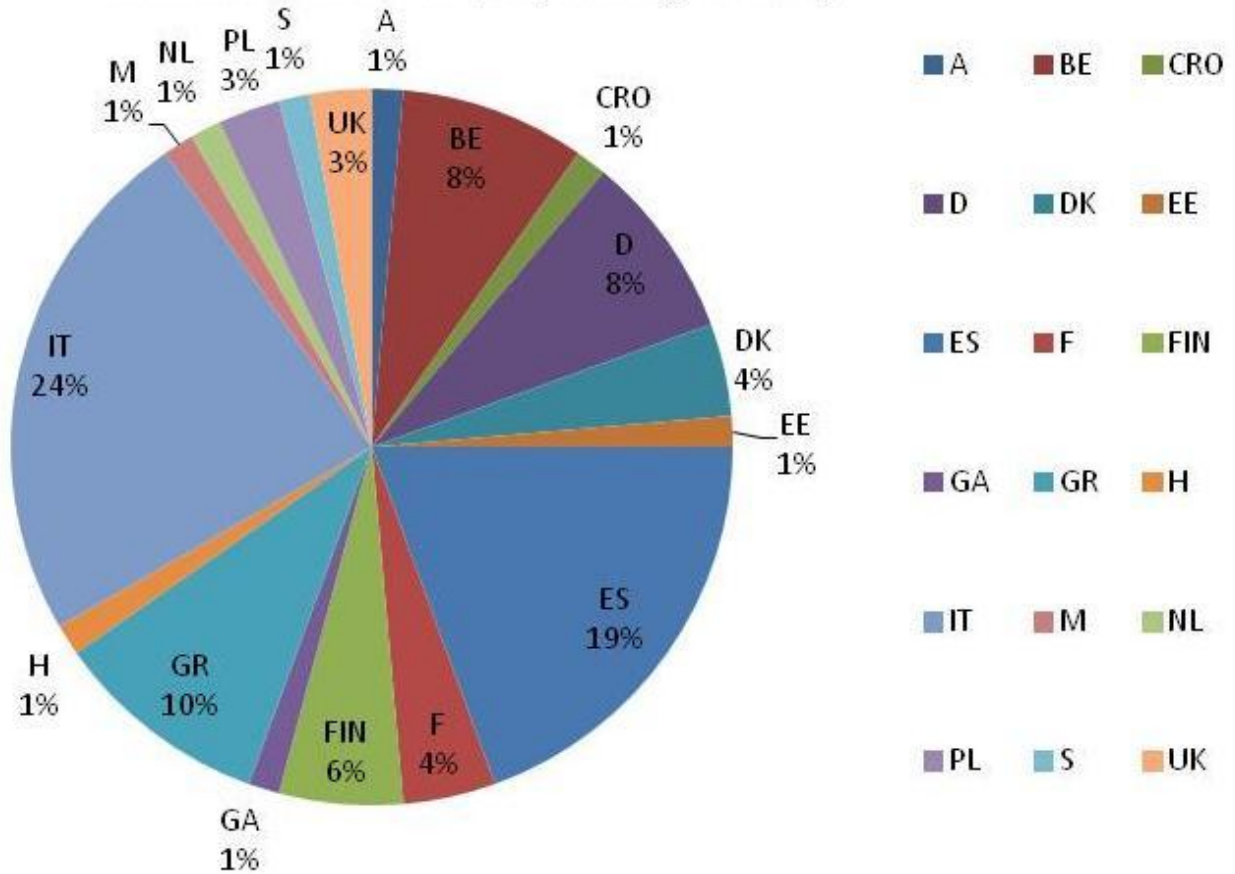


Total number of soil projects per year





Relative number of projects by country





Project acronym	Code	Legislative/Policies frame work																									
		STS							BIOD					L-CONT			D-CONT		CAP								
		<i>Threats to soil</i>							BD	HD	Bd-C	Wet	Bd-S	Bd-AP	ELDD	Contaminants			NA SD	Contamin.		2078	CAP-P2				
		E	O	IC	dC	Se	C	Sa	L	B	1979	1992	1993	1995	1998	2001	2004	g	PCB	L	HC	M	1991	g	N	Pe	1992
Petrignano	LIFE00 ENV/IT/000019			X	X																	X		X		X	
Prosit	LIFE00 ENV/IT/000191			X																							X
MALSIS	LIFE00 TCY/M/036	X	X	X	X																						
Westliche Dämmerniederung	LIFE02 NAT/D/008456	X	X							X	X	X	X	X	X												
DEMO-MNA	LIFE03 ENV/FIN/000250				X															X							
FREEPCB	LIFE03 ENV/IT/000321				X													X									
Sowap	LIFE03 ENV/UK/000617	X	X		X																						X
Saint Hubert	LIFE03 NAT/B/000019	X									X	X	X	X	X											X	
BIOSOIL	LIFE04 ENV/ES/000263				X															X							
OptiMa-N	LIFE04 ENV/IT/000454					X																X		X			X
ALMOND PRO-SOIL	LIFE05 ENV/E/000288	X	X																							X	X
SOIL MONITORING	LIFE05 TCY/CRO/000105			X	X	X																					
TRITECH ETV	LIFE06 PREP/UK/000002				X																						
Soil Sustainability (So.S)	LIFE07 ENV/GR/000278	X	X	X	X	X																					





# Main RESULTS of the STUDY

- The most successful projects are those which adopted an **integrated approach** for tackling multiple problems at once: thus soil protection can efficiently deal at the same time with issues of water pollution or prevention of landslides. As a result, multi-dimensional projects tackling various issues raise interest among a more varied audience, from several productive and scientific sectors



- Few projects dealing with soil **surveys** and with the **monitoring** of soils characteristics
- Often **NAT** projects dealing with habitat restorations do not assess adequately the positive effects their actions might have on soils
- The most recent soil threats (i.e **sealing**, hydrogeological issues) are only partially tackled by LIFE projects



- ➔ Almost all the projects examined deal with one or more of the threats identified by the **Soil Thematic Startegy**
- ➔ Necessity of a specific **Directive** which would enforce the protection of soils and their sustainable use
- ➔ No **INF** projects so far...but an opportunity for the future



THANK  
YOU

