

Problem!





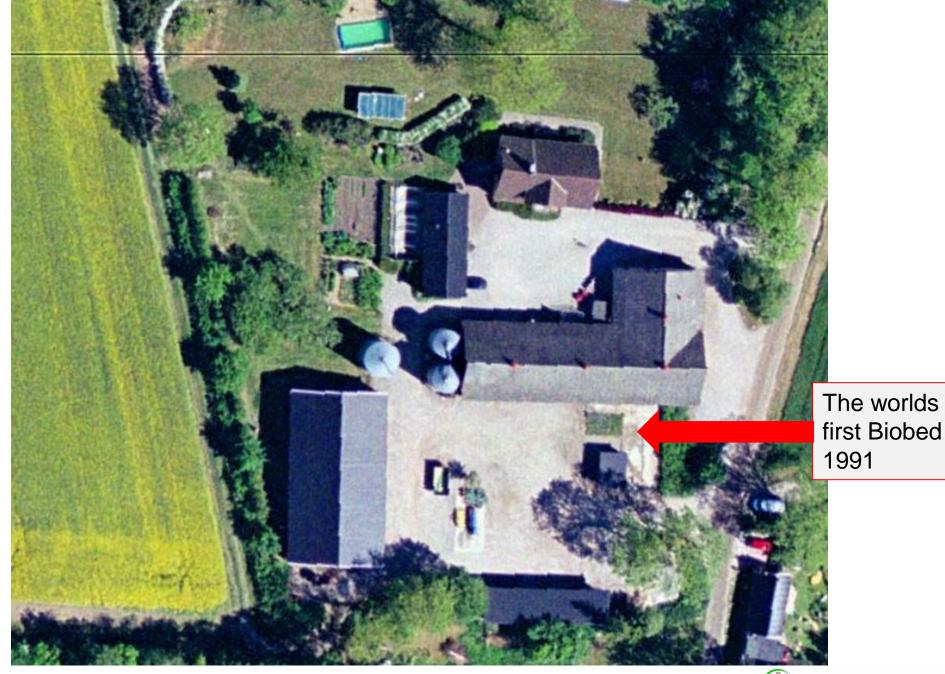
Photo: Niels Henrik Spliid Point pollution !



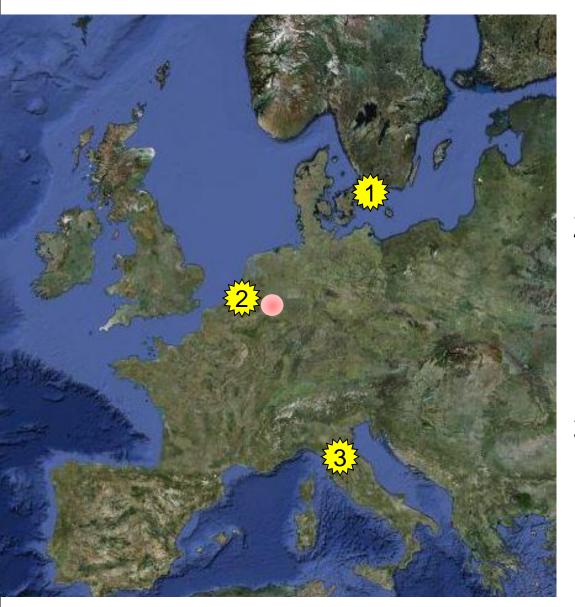








European biobed workshops



1. 2004 in Malmø



2. 2007 in Gent



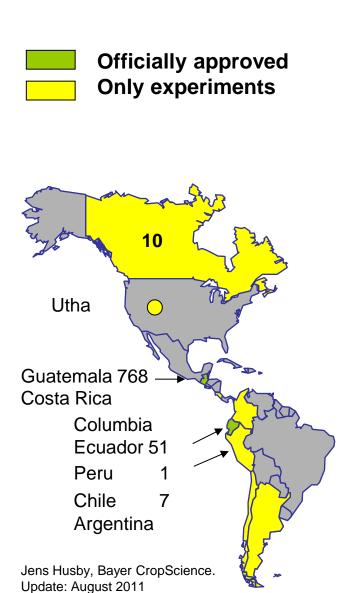
3. 2010 in Piacenza

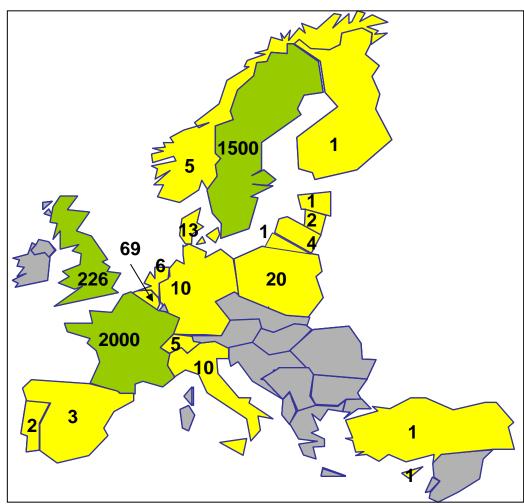


Research and ideas from many countries



Biobeds 2011







- Maroc 9, Ivory Coast 1 and Senegal 1,



Number of biobeds in Europe

	2011	2010	2000		
Europe		2841	2255	Information from	
Belgium		69	49	Inge Mestdagh	
Cyprus		1		Dimitris Karpouzas	
Denmark		11	6	Jens Husby	
Estonia		1	1	Eskil Nilsson, Visavi	
Finland		1		Jens Husby	
France	2000	1000	500	Jean-Yves Darmedru	
Greece		0		Dimitris Karpouzas	
Germany		10	16	Dieter Felgentreu; JKI	
Italy		10	6	Ettore Capri	
Latonia		2	2	Eskil Nilsson, Visavi	
Lithuania		4	5	Eskil Nilsson, Visavi	
Nederland	12	6	2	Rik de Werd	
Norway	5	5	2	Ole Martin Eklo	
Poland		20	7	Greg Doruchowski,	
Portugal		2		Maria do Carmo	
Spain	3			Emilio Gil	
Sweden	1500	1500	1500	Eskil Nilsson, Visavi	
Switzerland		5		Pierre Julien	
Turkey		1	1	Ali Musa Bozdogan,	
UK	226	150	75	Paul Goddard	
B P C C :					

2011

2010

2008



Number of biobeds in Latin America

	2012	2010	2008	
				Information
Argentina				Laboratory evaluation of biobeds
Chile	7			2 more under construction
Ecuador	1	1	1	50 small reported earlier
Peru	1	1	1	
Costa Rica				Laboratory evaluation of biobeds
El Salvador				Project proposal
Guatemala	768	19	19	

Information: Maria del Pilar Castillo.

Chile: is from Cristina Diez

Biobeds.org

Biobeds.org - the international biobed site

Background Links Publications Home Contacts Debate Photos The site

The biobed site

The purpose of this website is to compile information on biobeds and other biopurification systems and make it accessible to the general public. "The site"



Latest updates

2012

About the LATAM workshop April 10

A web side in Spanish is available on http://workshop2012lechosbiologicos.org/comite-cientifico/

First Latin American Biobed Workshop. January 10

The first Latin American Biobed Workshop will take place May 2nd to May 4th in Chile. See more on http://biobedchile.org/

Biobeds are important by

- Catching spill from pesticides
- Making users aware of:
 - How important it is not to spill deliberately
 - The soil microorganisms can degrade approved dose, but higher doses will cause problems.

Areas with interest in biobeds

- Agriculture
- Fruit growers
- Forrest nurseries
- Golf clubs
- Landscape entrepreneurs
- Cities
- and others using PPP

Are biobeds wanted?

A Danish exampel

With the Danish legislation for washing and filling a sprayer - is there then a need for biobeds?

Legislation from April 8th 2009/2010.



Legislation for filling and washing sprayer in Denmark

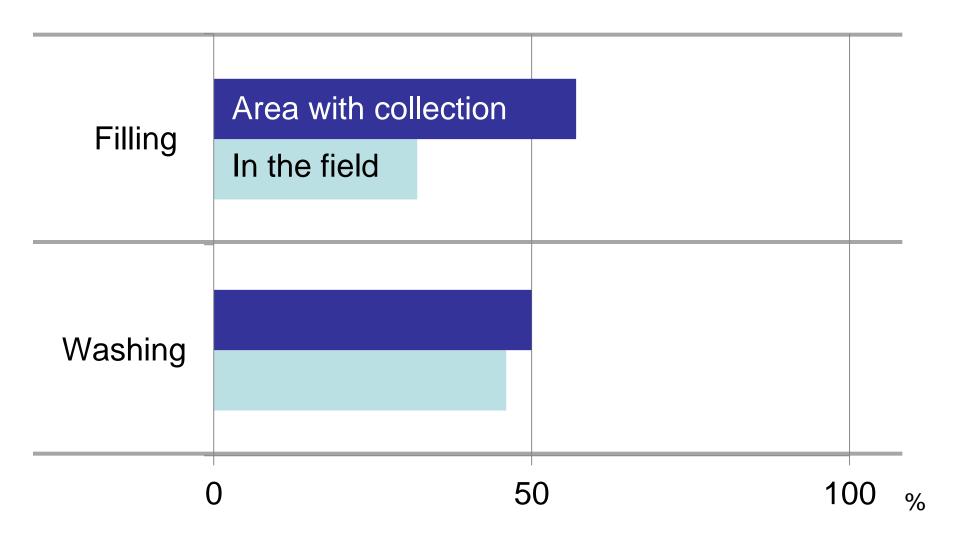
- Filling and washing must be done:
 - On an area with collection of all water.

or

- In the field where the PPP are used and never on the same spot.
- Unwashed sprayer/tractor must be placed on treated field, washing area or under roof.

Legislation from April 8th 2009/2010.

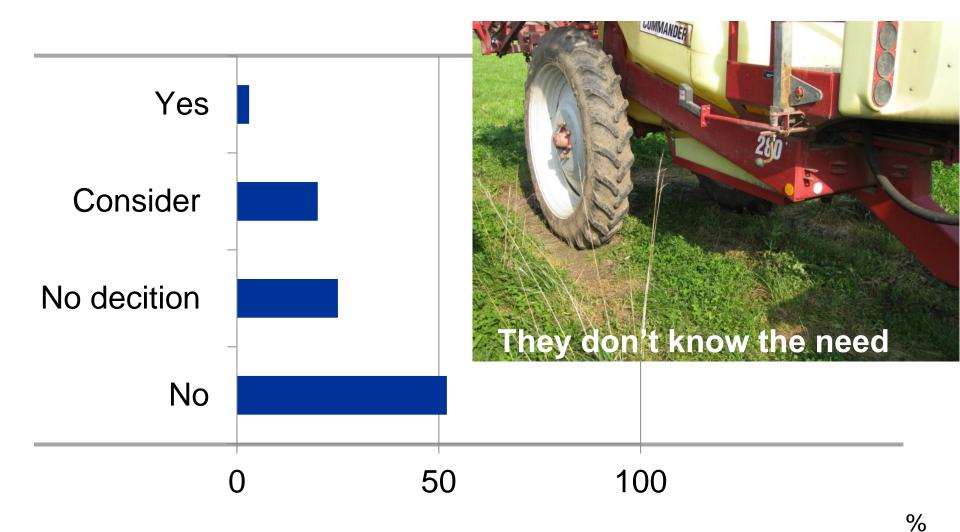
Where farmers fill and wash



Questionnaire: 341 Danish farmers Marts 2012



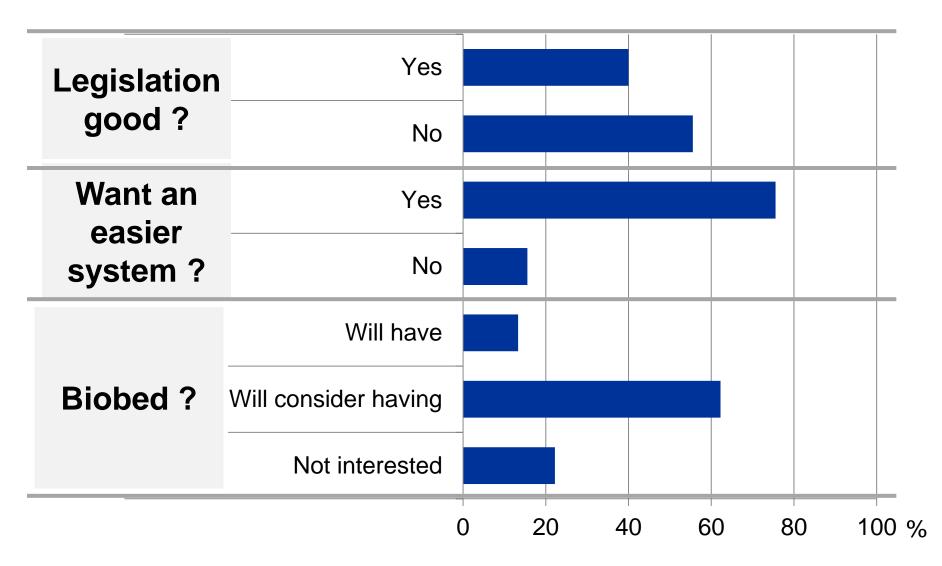
Will the farmers establish a biobed?



Questionnaire: 341 Danish farmers Marts 2012



What the farmers think



Questionnaire: 45 Danish grass seed farmers February 2012



Remarks to the Danish example

Danish farmers are well organized and have a good legislation for filling and washing, but:

- many are not satisfied with the system
- many will consider a biobed as a solution

Project development 2012



The Swedish Biobed

Farmer's idea

Degradation



The French Phytobac

Science idea

Off line – degradation and evaporation

Danish biobed

Farmers idea

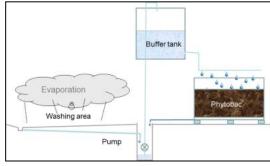
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Evaporation on cement



Nordic Phytobac Adviser idea

Off line and evaporation on cement



Important in creating new technology - like a biobed system

Government

- Positive attitude

Producers

- Practical solutions

Users

- Critics

Science

- Documentation

- Tests

- Theoretical ideas

Funding

- from government / companies

Soil capacity

About

30 years ago

15 years ago

Today in farmers mind

?



I wish you a successful and enjoyable workshop

