

# FOOTPRINT

Validation activities in Year 3



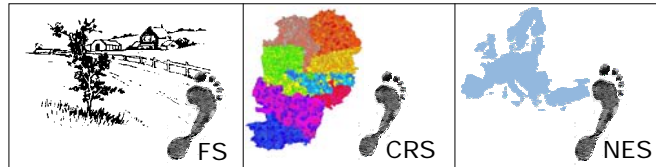
## WP6 Piloting and evaluating of the tools

The objective of WP6 is to

- > Evaluate the usability of the tools
- > Evaluate the credibility of the tools



## The three FOOT tools



	FS	CRS	NES
<b>End-users</b>	Farmers Extension advisers	Water managers	Policy & decision makers
<b>Scale</b>	Local (farm)	Catchment	National / EU



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## The FOOT-FS tool



- > Functionality workshop in Sweden, Poland, UK, France and Italy
- > Real application workshop in Greece (Eirinoupolis)



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## Why use Eirinoupolis as a study area?



- > Main region for tree fruit production in Greece
- > High demand to protect the surface water resources in the area
- > Good contacts and strong cooperation between research institutes and agricultural cooperatives
- > Ongoing training programmes of farmers on I.C.M. practices
- > FOOT-FS can facilitate these training programmes

Certified tomatoes



## The FOOT-FS tool



- > Functionality workshop in Sweden, Poland, UK, France and Italy
- > Real application workshop in Greece (Eirinoupolis)
- > Expert judgement will be used to evaluate the model result and mitigation output in France



## The FOOT-CRS tool



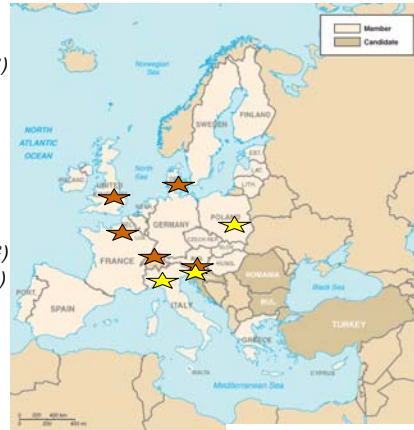
> FOOT-CRS will be evaluated in 8 catchments

### Measured data from

- ★ Great Britain (*Cherwell* - 250 km<sup>2</sup>)
- ★ Denmark (*GRUMO* - 50 km<sup>2</sup>)
- ★ Switzerland (*Greifensee* - 2 km<sup>2</sup>)
- ★ France (*Ouarville* - 25 km<sup>2</sup>)
- ★ Slovenia (*Apace* - 53 km<sup>2</sup>)

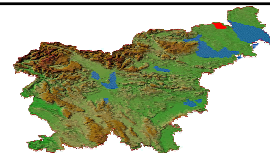
### Vulnerability maps from

- ★ Poland (*Ciesielska Woda* - 33 km<sup>2</sup>)
- ★ Italy (*Lombardy plain* - 13.000 km<sup>2</sup>)
- ★ Slovenia (*Apace* - 53 km<sup>2</sup>)



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## Apache Valley catchment - Slovenia



- > 53 km<sup>2</sup>
- > Intensive agriculture
- > Shallow groundwater
- > Contamination of groundwater by atrazine
- > In 2002 Atrazine was banned
- > Ensure a safe use of the currently used pesticides
- > Good dataset (monitoring, soil, crop and pesticide use data)



## The FOOT-NES tool



- > FOOT-NES will be evaluated using data from national/regional monitoring programmes

- Great Britain
- Germany
- Denmark
- Sweden



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## The FOOT-CRS/-NES tool



Credibility of the CRS/NES tool will be evaluated by comparing tool outputs with measured data.

Focus will be on the ability of the tools to:

- > Assess the probability of **groundwater contamination** (frequency of concentrations exceeding 0.1 µg/l)
- > Assess the probability of **surface water contamination** (frequency of concentrations exceeding ecotoxicologically-based thresholds)
- > **Identify areas vulnerable** to surface and/or groundwater contamination

Detailed SUGAR maps will be produced and evaluated (expert judgement in selected areas)

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## The FOOT-CRS/-NES tool



### Current status

- > Evaluation sites have been selected
- > Data cover a wide variety (sources/scale/quality)
- > Procedure for assessing the **quality** + **usefulness/representativeness** of the data have been discussed

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SIXTH FRAMEWORK PROGRAMME



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