FOOTPRINT

Introducing the 3 FOOT tools

Kick-off meeting
Friday 24 February 2006

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Overview

- Three pesticide risk prediction and management tools.
- Three different user communities:
  - (1) farmers / extension advisers
  - (2) water managers at catchment scale
  - (3) policy makers and registration authorities
- All share the same philosophy and underpinning science.
- Will provide consistent and robust assessments of the risk of contamination of water bodies at different scales.

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Framework

- Designed to integrate into the legal framework & risk assessment practices in place at EU & Member State level.
- Will contribute significantly:
  - To the revision of EU 91/414
  - To the implementation of the WFD
  - To the implementation of the Groundwater Daughter Directive.
- Will contribute to the Future Thematic Strategy on the Sustainable Use of Pesticides through a farm level decision support tool.
- Potential to make a contribution to the implementation of the CAP with respect to agri-environmental measures.

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Scales and goals of the FOOT tools

	Farm 	Catchment 	Country 
Objectives	Minimisation of aquatic contamination by pesticides	Identification of pesticide contaminant hotspots	Identification of pesticide contaminant hotspots & assess the probability of exceeding thresholds
Stakeholders	Farmers & extension advisers	Water managers	Policy & decision makers
Provisions	Site-specific recommendations via a risk assessment	Definition & optimisation of action plans	Support for policy decisions
Tools	Standalone system & web portal	GIS	GIS

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Tool development

> Common philosophy across scales

> Not science for science, but science for application

> Tool development through:

1 The development of scenarios

2 The identification of contamination pathways in the agricultural landscapes

3 The use of pesticide fate models

4 The development of meta-models

5 An evaluation program

The FOOT-FS tool (FS: Farm Scale)

> Target users:

- Mainly farmers and extension services but may have wider appeal

> Basic approach

- Will adopt best qualities of existing systems e.g. p-EMA.
- Stand-alone system and web-portal
- Fate predictions as well as ecotoxicological assessments
- Attention to results presentation & interpretation
- Multilingual tool

The FOOT-CRS tool (CRS: Catchment and Regional Scales)

> Target users:

- Local authorities
- Stewardship & water managers

> Basic nature of FOOT-CRS:

- Offline application
- ArcGIS add-on
- Water body accounted for by landscape analysis & satellite imagery
- Available in English, German, French

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The FOOT-NES tool (NES: National and European Scales)

> Target users:

- EU and member states policy- and decision-makers
- pesticide registration authorities
- agrochemical industry

> Basic nature of FOOT-NES:

- offline application
- ArcGIS add-on
- higher tier modelling application in the context of pesticide registration
- available only in English

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