

 SIXTH FRAMEWORK PROGRAMME

FOOTPRINT

**Functional Tools for Pesticide
 Risk Assessment and
 Management**

FOOT-FS: Demonstration



Dr Kathy Lewis & Dr John Tzilivakis
 FOOTPRINT Meeting 3-7 November 2008, Wroclaw, Poland


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What is FOOT-FS?

- > FS = **F**arm-**S**cale or **F**ield-**S**cale
- > Objective: To provide a farm/field-scale software package to assess pesticide losses and ecotoxicity risks
- > Users: Likely to be consultants, researchers, regulators and others who want to explore scenarios at the farm and field level
- > Farm-scale perspective...

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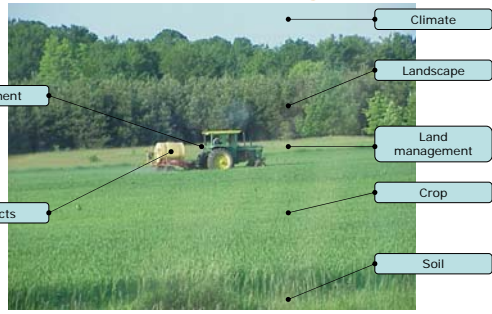
Farm-Scale Perspective



Point sources
 Best Practice Audit
 Diffuse sources
 Field Risk Assessment

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Field Risk Assessment: Components & Data Management



Equipment
 Products
 Climate
 Landscape
 Land management
 Crop
 Soil

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Field Risk Assessment: Components & Data Management

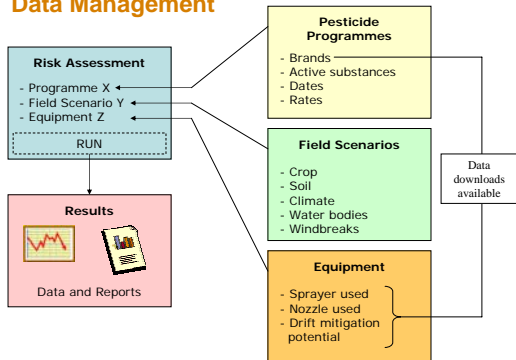


Equipment
 Pesticide Programme
 Products
 Climate
 Landscape
 Land management
 Crop
 Soil
 Field Scenario

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

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Field Risk Assessment: Data Management



Risk Assessment
 - Programme X
 - Field Scenario Y
 - Equipment Z

Results
 Data and Reports

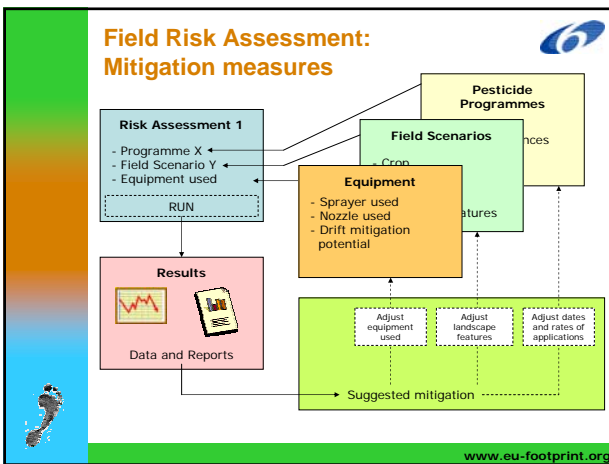
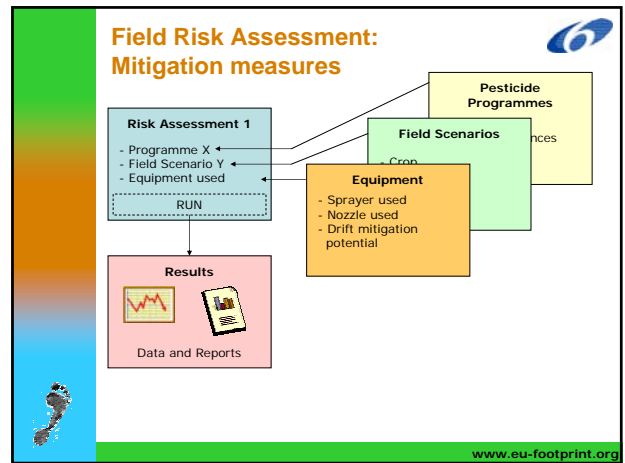
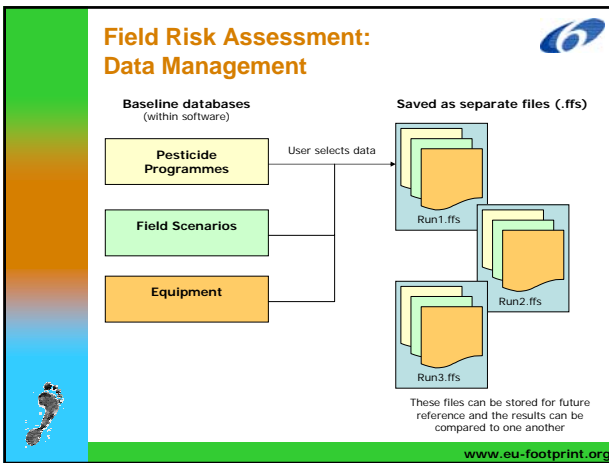
Pesticide Programmes
 - Brands
 - Active substances
 - Dates
 - Rates

Field Scenarios
 - Crop
 - Soil
 - Climate
 - Water bodies
 - Windbreaks

Equipment
 - Sprayer used
 - Nozzle used
 - Drift mitigation potential

Data downloads available

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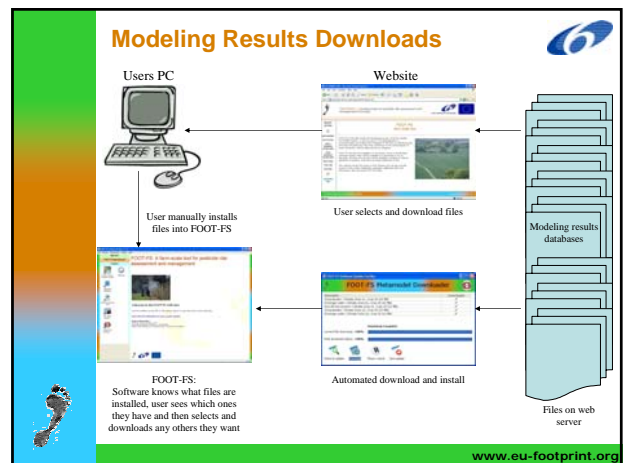
FOOT-FS Demonstration

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Software status

- > Software fully operational for drift and some data for groundwater and run-off
- > Will be developing facilities for user to manage the modeling results databases they have installed (by climate zone and crop), with the facility to automatically download new databases as needed/requested by the user

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Software status



> Further improvements planned to the outputs display including:

- Groundwater:
 - flag up any metabolites where the formation fraction is >10% and is GUS index shows potential to leach
 - flag up when the mean annual percolation is <20, as may be a factor is a high concentration
- Surface water, flag up when the concentration exceeds 0.1 µg/l
- Ecotoxicity, when a high aquatic risk has been identified, flag up when the active substance has higher tier data

> Translations - a significant task

(Planned: French, Italian, German, Swedish, Polish, Slovenian and Greek)

> Show Me Help System

(Video demonstrations)



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