

Agenda for the 2 days



> Day #1

- Welcome
 - Overall presentation of FOOTPRINT
- Reporting on some of the science undertaken in FOOTPRINT
- FOOTPRINT dinner tonight
 - Restaurant 'Balkonen' inside Tivoli
 - Dinner at 19:30
 - Map in your packs
 - Meeting time for those at the CAB INN: 19:10

> Day #2

- Discussion sessions
- Split-up groups and get-together sessions
- Coffee from 8:30; Start at 9:00



Agenda for today



- > Welcome speech by Johnny Fredericia
- > The FOOTPRINT project
- The FOOTPRINT science
 - The FOOTPRINT literature reviews
 - Focus on Mitigation strategies and their effectiveness
 - Defining agro-environmental scenarios for the whole of the FII
 - Focus on key climatic factors determining the loss of pesticides to water resources
 - The FOOTPRINT PPDB
 - PArameterising MACRO and PRZM for a large number of scenarions

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The FOOTPRINT week



- > Our week started on Monday afternoon
- > Activities:
 - 2.5 days of intensive scientific meetings for partners and socialising
 - Preparation of the Annual meeting
- > Thanks!
 - Many thanks to Jeanne, Anker and GEUS
 - Many thanks to FOOTPRINT partners and their husband, wife and children





The FOOTPRINT project



- 3-year EU-funded research project as part of FP6
- Specific Targeted Research Project (STREP)
- > Priority 8: Scientific Support to Policies
- > 1 January 2006 (31 December 2008)



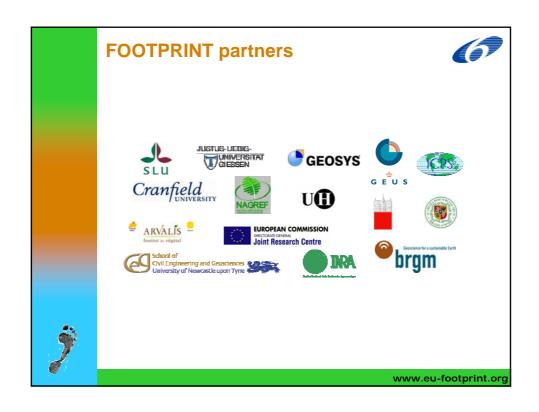
The FOOTPRINT partnership



- > 15 partners from 9 European countries
- Pesticide fate specialists, modellers, hydrologists, hydrogeologists, agronomists, data and GIS specialists, soil scientists, climatologists, ecotoxicologists, and tool developers
- Key features of the partnership:
 - Complementary profiles
 - Experience at the local, regional and national scale
 - Experience in the development or use of computerised tools









Project objectives



- Overall objective: to develop a set of computer tools that will allow users to:
 - i) identify the dominant pathways and sources of pesticide contamination in the agricultural landscape.
 - ii) estimate levels of pesticide concentrations in surface water and groundwater.
 - iii) make scientifically-based assessments of how the implementation of risk reduction strategies is likely to reduce pesticide contamination of water resources.
- Strong focus on the tools (SSP)



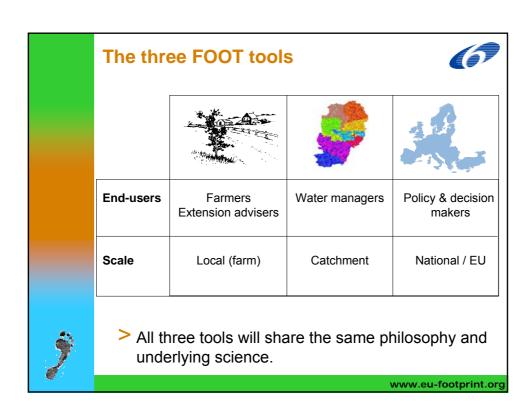
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Project operational goals

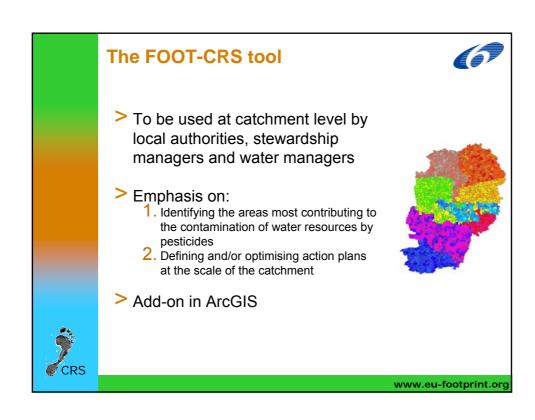


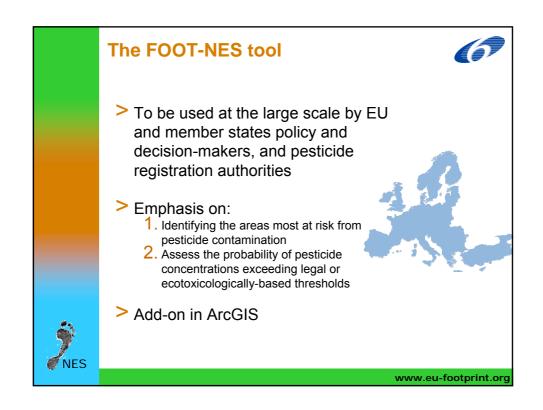
- 1) to develop a suite of three pesticide risk assessment and management tools, for use by three different user communities:
 - Farmers and extension advisors at the local (farm) scale
 - Water managers at the catchment scale
 - Policy makers/registration authorities at the national/EU scale.
- 2) to evaluate the usability and performance of the FOOT tools through piloting and evaluation studies at their various scales of application.





The FOOT-FS tool To be used at the farm level by extension advisers and farmers Emphasis on: 1. Identifying the pathways and areas most contributing to contamination of water resources by pesticides 2. Providing site-specific recommendations to limit transfers of pesticides in the local agricultural landscape Stand-alone application & web portal



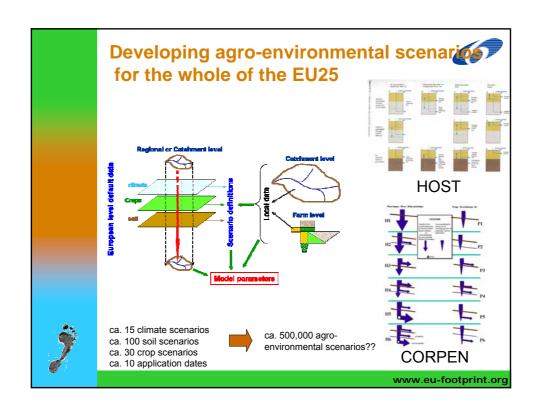


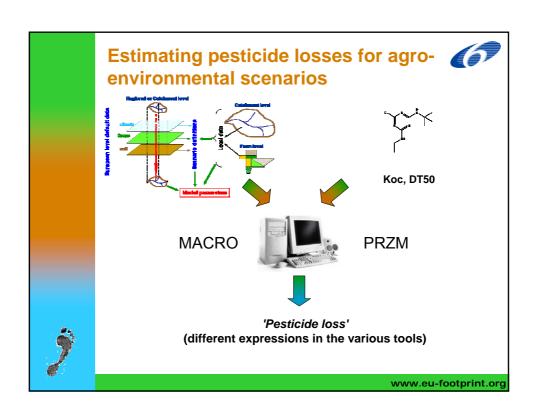
Underlying philosophy



- > Definition of a LARGE number of representative scenarios
- > Modelling for all these scenarios
- > Development of a metamodel (emulator)





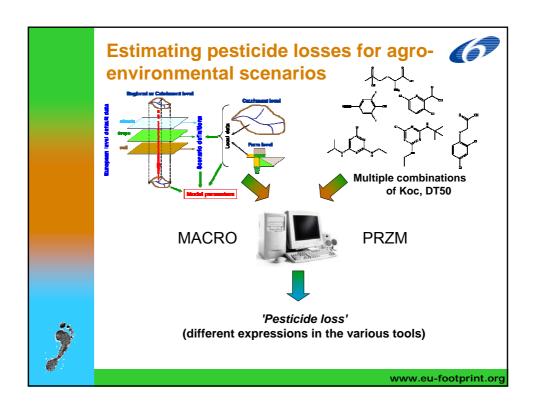


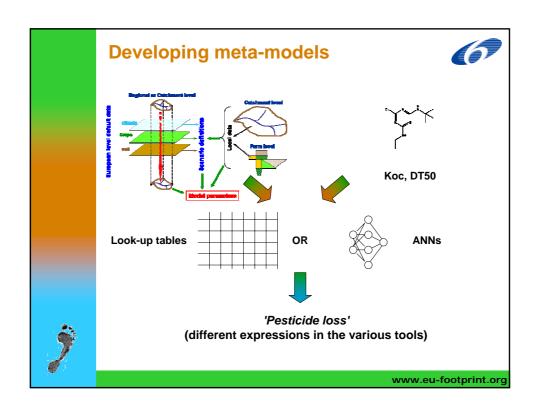
The waiting game



- The user does not want to wait for hours to get his/her results back
- > There is thus a need:
 - to simulate the fate of a large number of pesticides in the scenarios <u>beforehand</u>
 - to develop emulators ('metamodels') of MACRO and PRZM running in seconds







Modelling (super)effort



- Running MACRO and PRZM for millions of times requires ENORMOUS computing power (and storage!)
- > FOOTPRINT@work: development of a dedicated IT architecture which uses corporate computers which are not being used (at night, at weekends, during holidays) for running pesticide fate models



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Involving stakeholders and end-users



- The relevance of the tools developed to stakeholders and end-users is key (SSP project)
- Advisory Committee set up for those with a strong interest in the project and its associated tools
 - Level-1 members: 10 senior individuals representing the various potential end-user communities
 - Level-2 members: 24+ individuals
 - Communities represented: policy makers, regulators, researchers, water managers, the industry, extension advisers, consultancies



Communication



- > Project web site: www.eu-footprint.org
- > FOOTPRINT announcement list
- Talks at workshops and conferences
- Scientific and less-scientific papers
- Presentation tomorrow afternoon on communication efforts



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Going operational



- > 3 years
- > 8 Work Packages
 - WP0: project launching and coordination
 - WP1: literature reviews
 - WP2: high-resolution scenario-based spatial zonation
 - WP3: identification of landscape features and contamination pathways
 - WP4: model parameterisation, meta-modelling and risk assessment
 - WP5: development of functional tools
 - WP6: piloting and evaluation of tools
 - WP7: communication and dissemination
- > 46 deliverables





How is FOOTPRINT doing?



- > The project is doing well
 - Deliverables of good quality
 - Scientific advances which are submitted to peer review as they are produced
 - Very enthusiastic and motivated team
 - Excellent collaboration between partners
 - Part of the same challenging adventure
- Objectives for the future
 - Keep the momentum going
 - Keep on delivering



Activities since the start of the year



- Administrative aspects
- > WP1: literature reviews
 - 5 reviews completed
- WP2: definition of agro-environmental scenarios
 - Definition of climatic scenarios
 - Definition of crop scenarions
 - Definition of soil hydrological scenarios
 - Approaches to groundwater scenarios
- > Significant advances
 - WP3: landscape elements & the FOOT tools
 - WP4: parameterisation of the tools
 - WP5: capabilities of the FOOT tools
- Communication

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The year ahead



- > 11 deliverables in 2006, 17 in 2007 (!)
- > Now we mean business!
 - Finalisation of scenarios
 - Parameterisation of the models
 - Start of the modelling effort
 - Finalise capabilities of and approaches to be used in the FOOT tools
 - Beta version of the FOOT tools by October 2007
- A challenging year ahead



Concluding remarks



- > A project which goes well (so far!)
- Some significant advances, but also some key challenges to address and issues to resolve
- A genuine will to make the tools as useful as possible



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