


  
 SIXTH FRAMEWORK PROGRAMME

# FOOTPRINT

Evaluation activities



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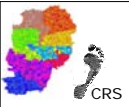

## Evaluation activities

The objectives are to

- > Evaluate the **usability** and increase the **credibility** of the FOOT tools
- > To identify conditions for which the model are applicable, and how the results should be interpreted


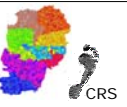
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## The three FOOT tools

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## The three FOOT tools

		
<b>Evaluation</b>	Usability is assessed through piloting workshop	Credibility is assessed by comparing model output with measured data





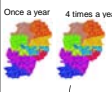

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## Outline

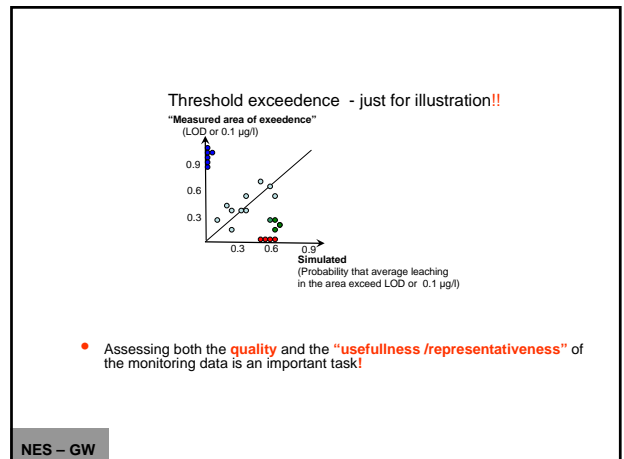
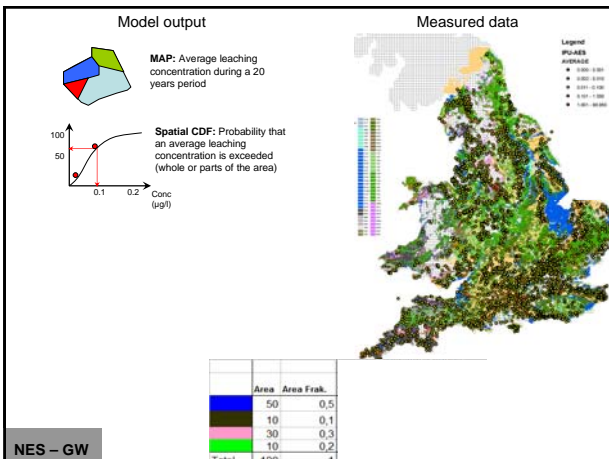
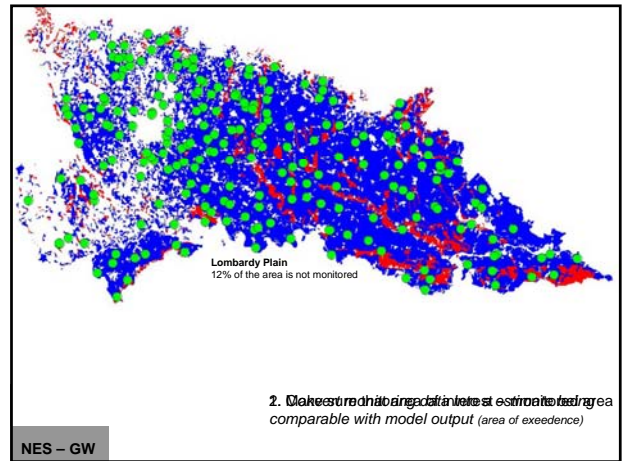
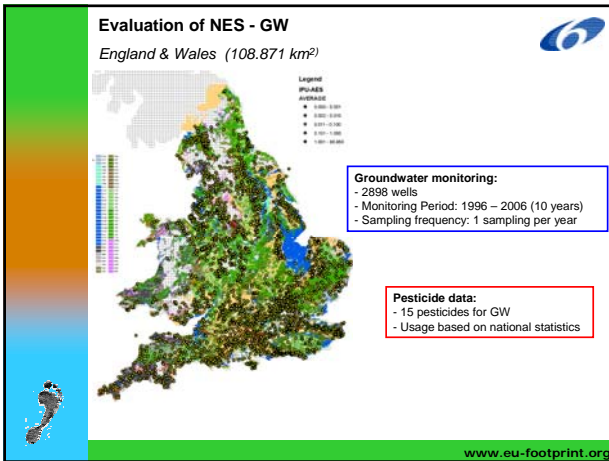
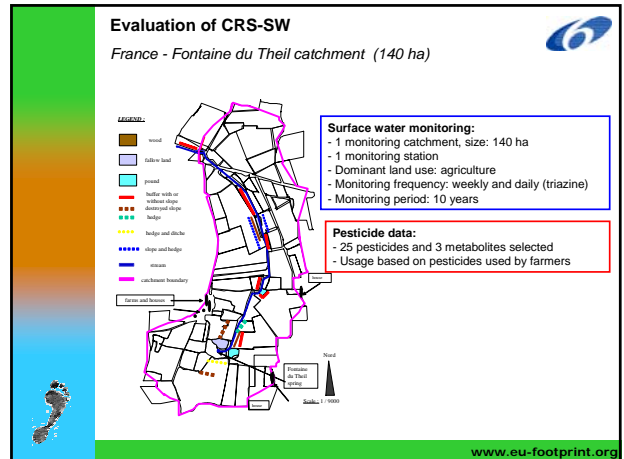
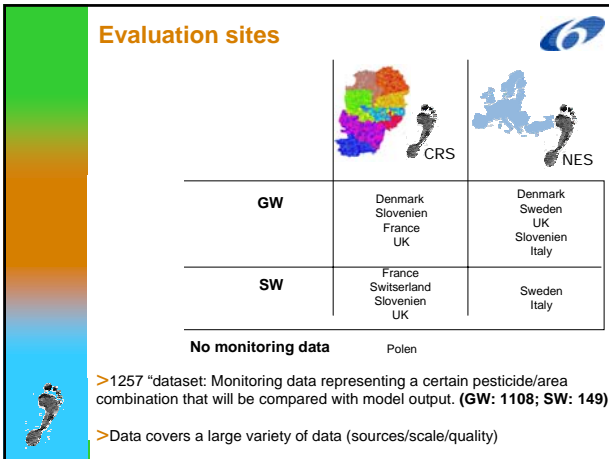
1. Methodology for evaluating the FOOTPRINT tools

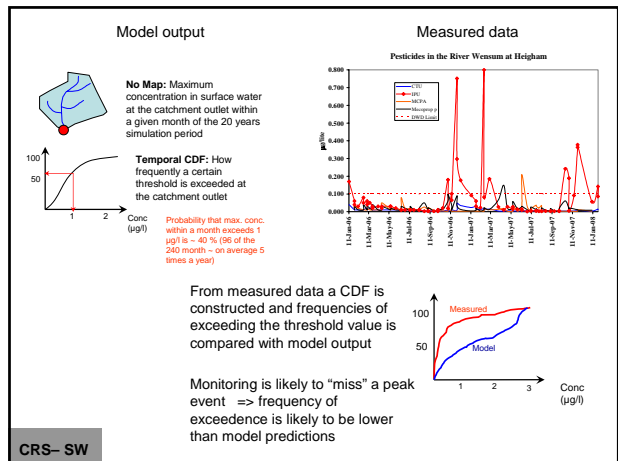
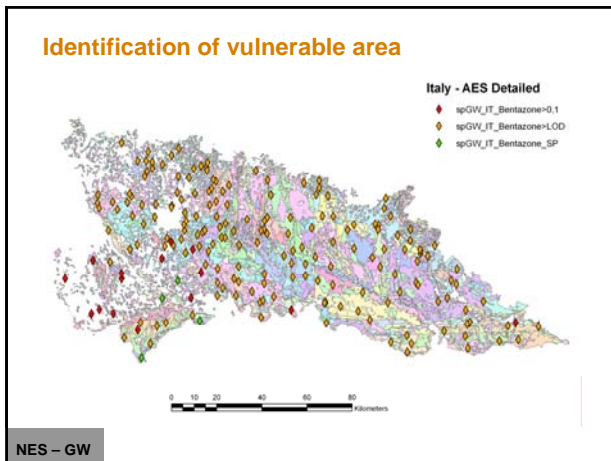
- > Model output
- > Available monitoring data
- > How to compare the two (examples from GW-NES & SW-CRS)

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<p style="text-align: center;"><b>CRS</b></p>  <p><b>MAP:</b> Average leaching concentration during a 20-year period</p>  <p><b>Spatial CDF:</b> Probability that an average leaching concentration is exceeded</p> <p style="color: red; font-size: small;">The threshold of 0.1 µg/l is exceeded in 40% of the area</p>	<p style="text-align: center;"><b>NES</b></p> <p style="text-align: center;">Same as for CRS (MAPS and CDF)</p>
<p style="text-align: center;"><b>CRS</b></p>  <p><b>No Map:</b> Maximum concentration in surface water at the catchment outlet within a given month of the 20-year simulation period</p>  <p><b>Temporal CDF:</b> How frequently a certain threshold is exceeded at the catchment outlet</p> <p style="color: red; font-size: small;">Probability that max. conc. within a month exceeds 1 µg/l is ~ 40 % (86 of the 240 month = on average 5 times a year)</p>	<p style="text-align: center;"><b>NES</b></p> <p style="text-align: center;">Once a year      4 times a year</p>  <p><b>MAP:</b> different maps illustrate the peak concentrations in edge-of-field water bodies that are likely to occur either e.g. once a year (~99.7 percentile), 4 times a year (99 percentile) ect.</p>  <p><b>Spatial CDF:</b> area percentages of exceedence</p> <p style="color: red; font-size: small;">Focusing on the peak concentration occurring e.g. 4 times a year (99 Percentile). The threshold of 1 µg/l is exceeded in 40% of the area</p>

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### Acknowledgements

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