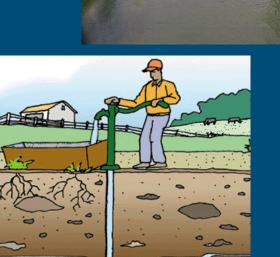


Scenarios EU FOCUS scenarios in a tiered approach

Mechteld ter Horst, (presented and slightly adapted for PRRP-Ethiopia by Paulien Adriaanse)

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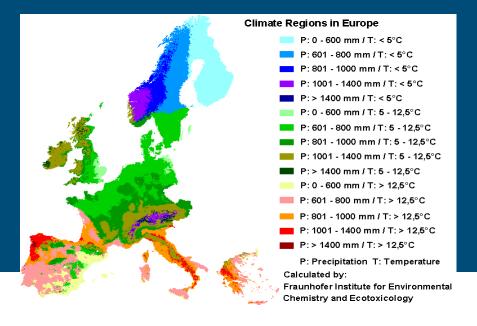
- 1. What is a scenario?
- 2. Relation model, scenario, input data
- 3. Why scenarios?
- 4. Tiered approach in EU
- 5. Concluding remarks



1. What is a scenario?

FOCUS, EU \rightarrow

a set of fixed input parameters in a pesticide fate modeli.e. soil parameters, climate etc.



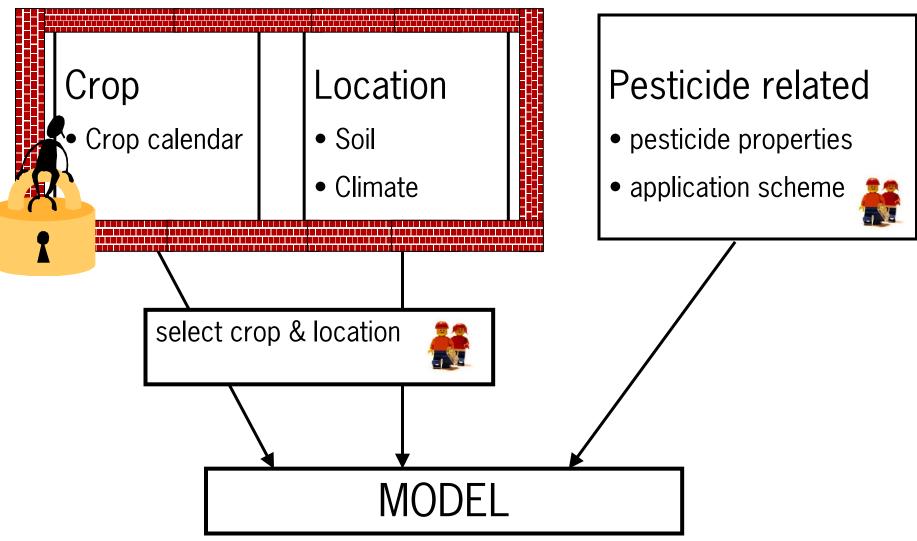


- 1. What is a scenario?
- 2. Relation model, scenario, input data
- 3. Why scenarios?
- 4. Tiered approach in EU
- 5. Concluding remarks



2. Relation model, scenario, input data





- 1. What is a scenario?
- 2. Relation model, scenario, input data
- 3. Why scenarios?
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3. Why scenarios?

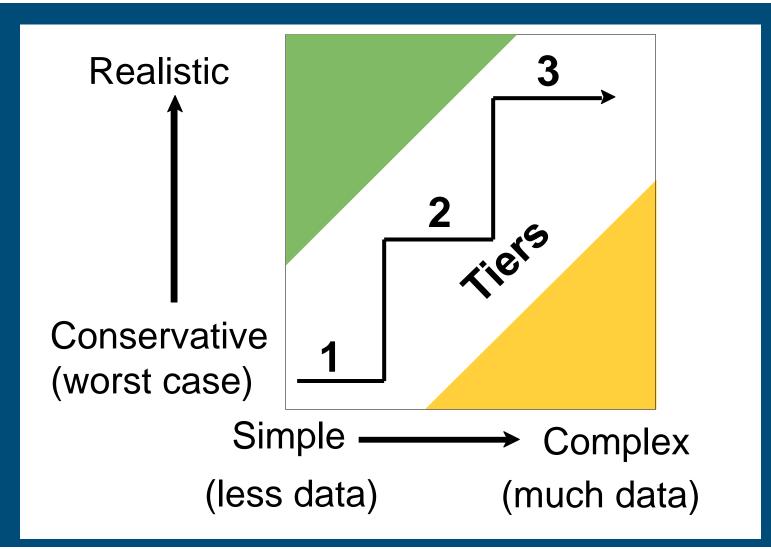
- Need for consistent and reproducible calculations
 minimize influence of model operator
- Easier for regulators
 - complex models will become easy to use, because a large part of the input is fixed and already filled in



- 1. What is a scenario?
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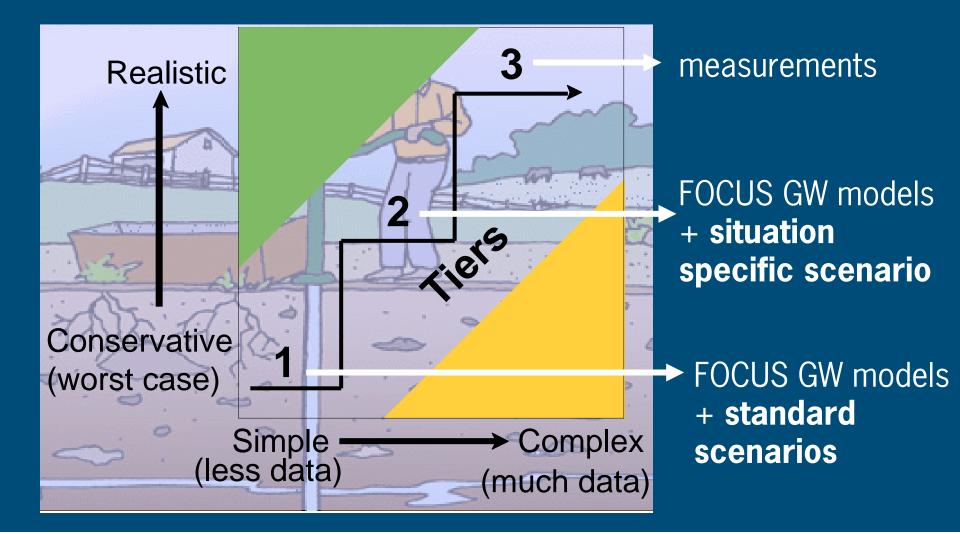


4. Tiered approach in EU: Principles

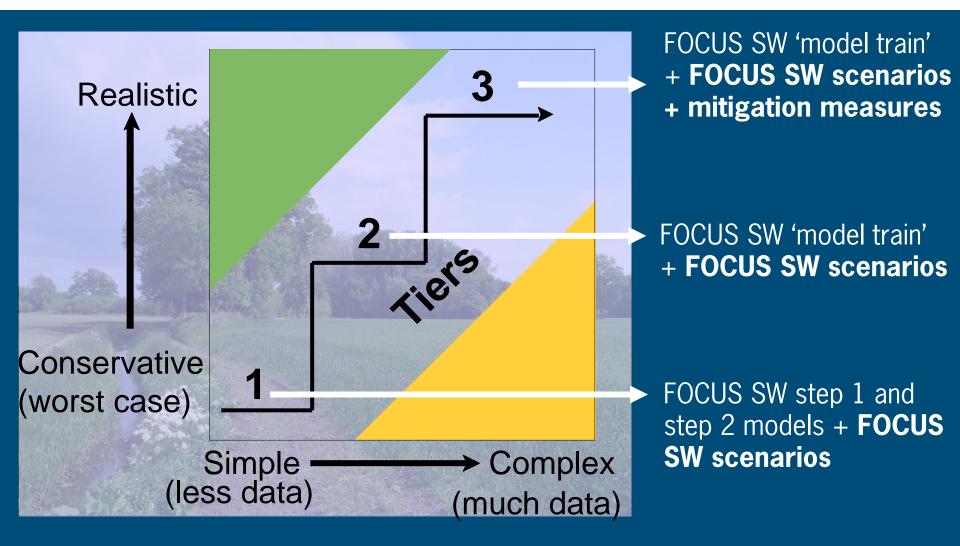




4. Tiered approach in EU: groundwater



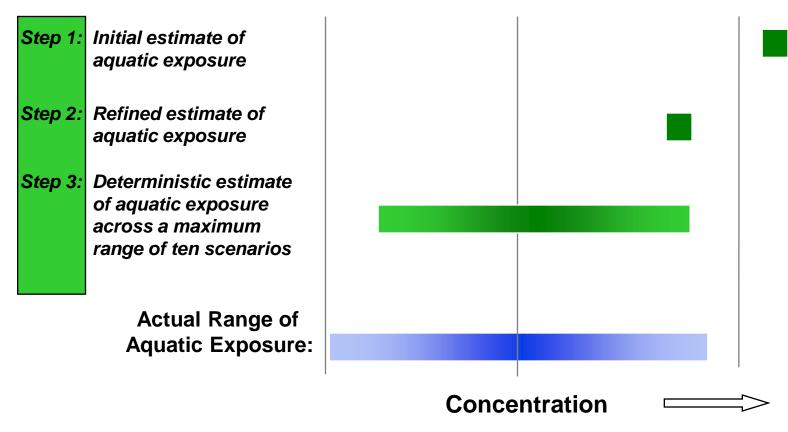






Conceptual relationship between Steps

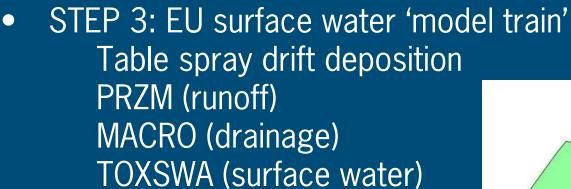
Exposure Estimate





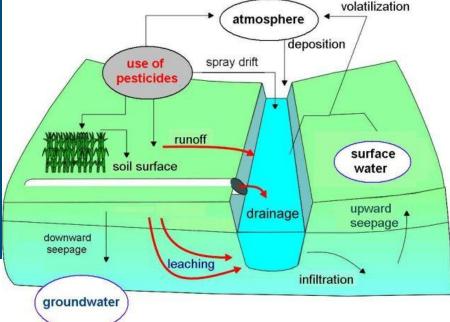
- STEP 1 FOCUS SW
- STEP 2 FOCUS SW

TERRA



calculations of PEC in a single watercourse next to an agricultural field





Step 1 scenarios	Step 2 scenarios	Step 3 scenarios	Step 4 scenarios
drainage + runoff = 10% of application rate	 drainage + runoff = x % of application rate Differentiation between north and south EU Differentiation between spring, summer, autumn application 	 Drainage calculated with MACRO Runoff/erosion calculated with PRZM 	 Drainage calculated with MACRO Runoff/erosion calculated with PRZM incl. mitigation measures (i.e. buffer strips)



- 1. What is a scenario?
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A scenario is a set of fixed input parameters in a pesticide fate model.

A scenario contains information on:

- Climate
- Soil
- Crop
- Topography (important for runoff)
- Agricultural management practices (i.e. irrigation, tillage etc)
- Surface water body (not for groundwater scenarios)



5. Concluding remarks

 Possibility to use simple but conservative scenarios in lower tiers and more elaborated but less conservative scenario's in higher tiers.





• A short break would be nice



