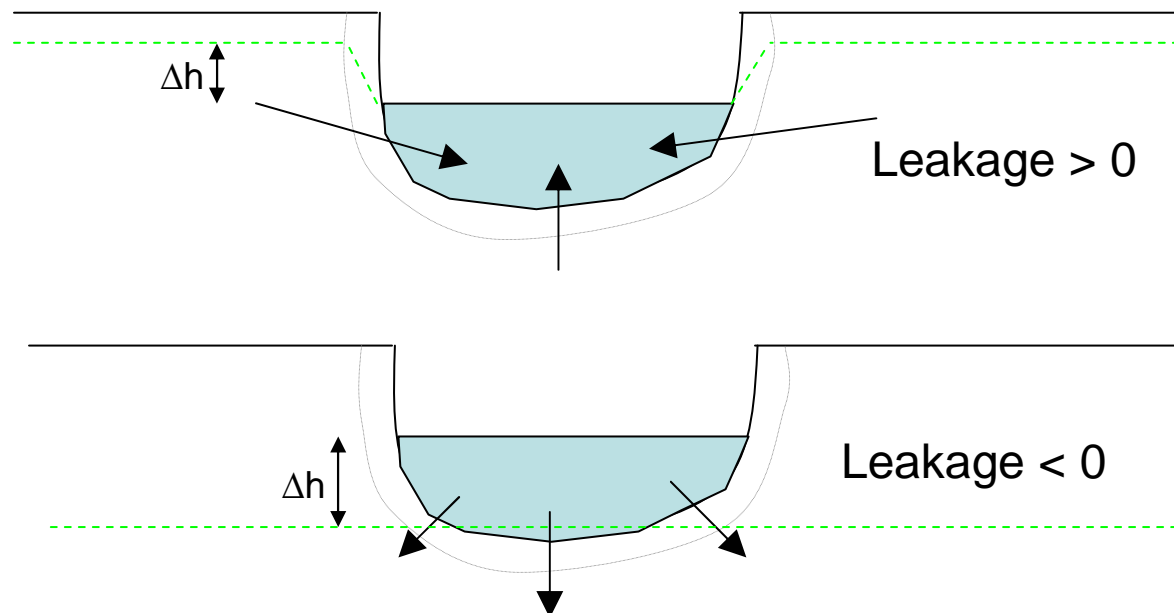


Demonstration of the OpenMI

Jan Gregersen



Water exchange between River and Groundwater:



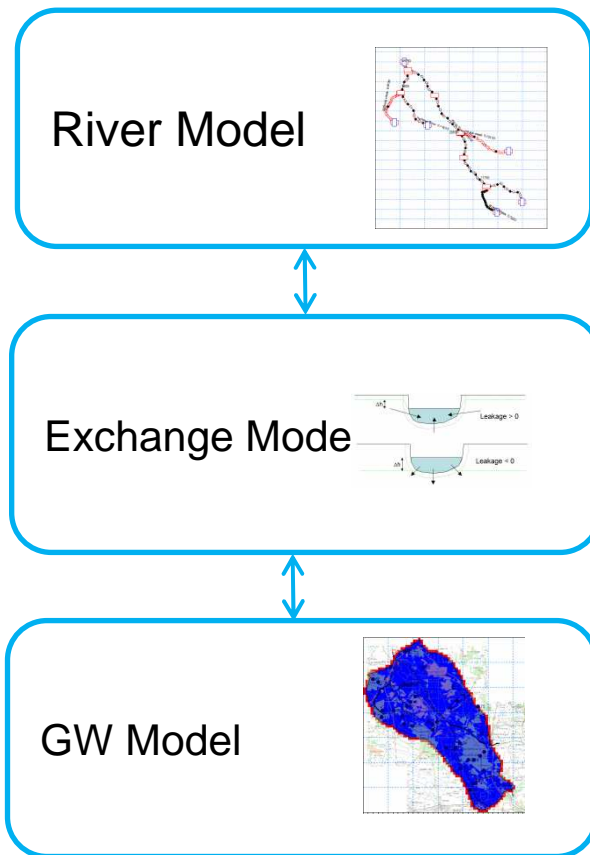
$$\text{Leakage} = C \cdot P \cdot \Delta h$$

C = Leakage coefficient

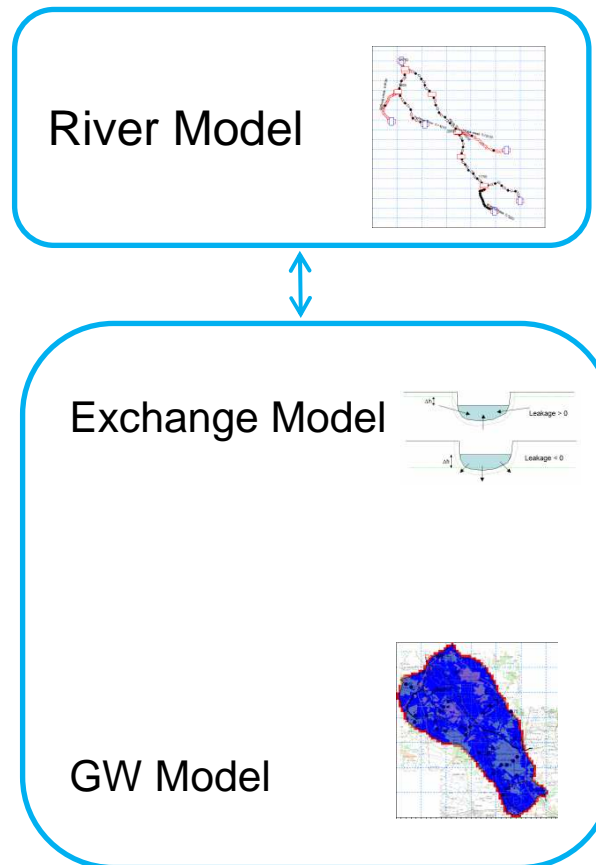
P = Wetted perimeter

Three options:

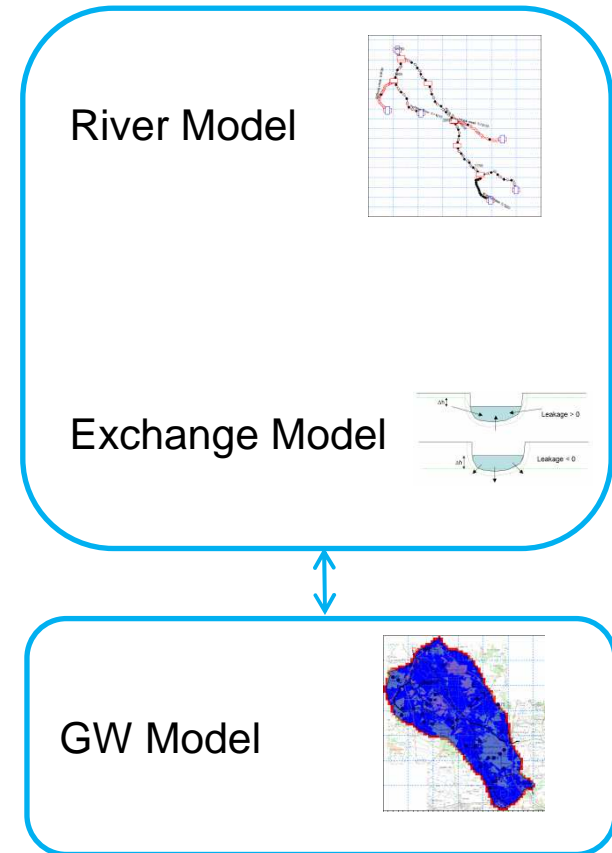
1:

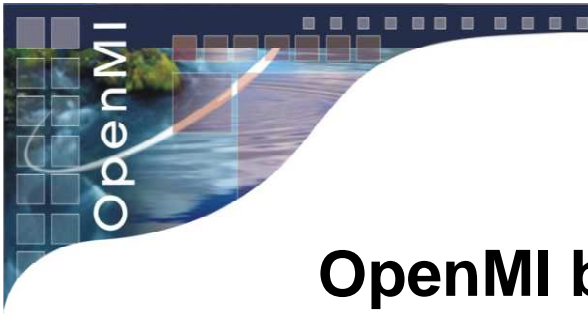


2:



3:





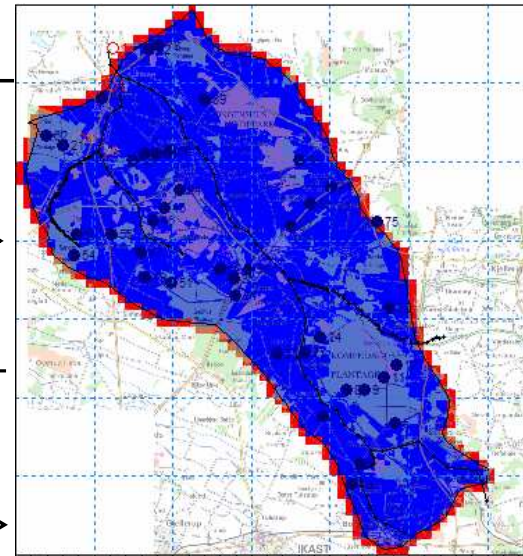
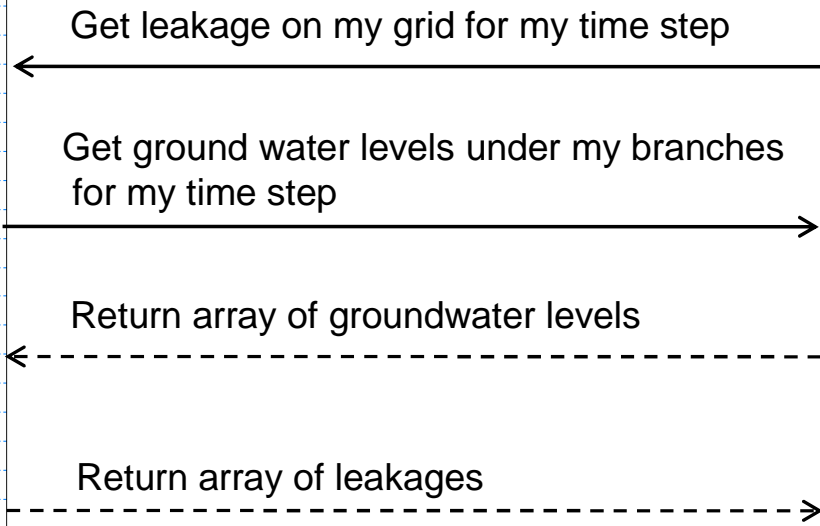
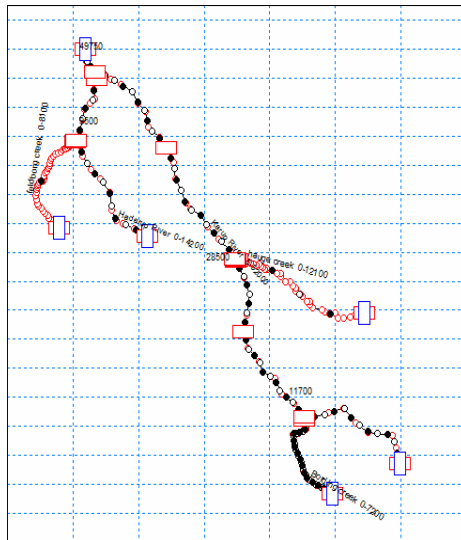
OpenMI basic ideas:

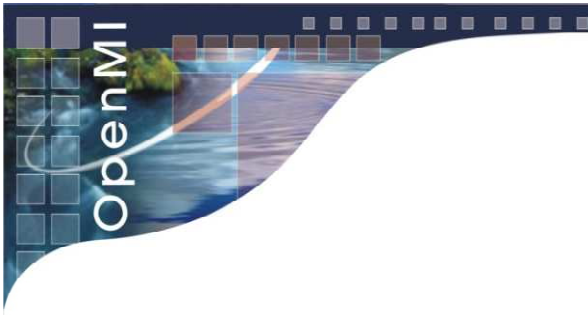
- **You get what you ask for**
 - Data for the time you ask for it
 - Data on the topology you ask on data for

- **Deliver what you are asked for**
 - Unit conversion
 - Interpolate in time
 - Interpolate in space
 - Perform time steps
 - Ask other components for input



Dataflow



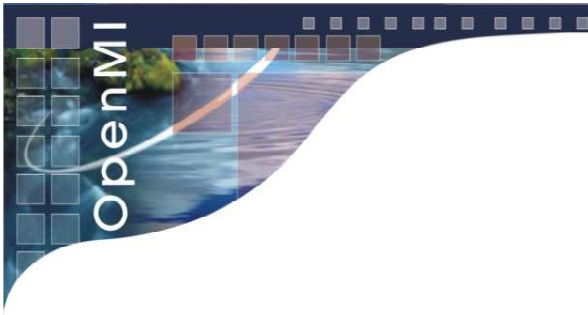


Now the Demonstration:



Conclusions:

- **Combine models**
- **Pass data between different complex topologies in one link**
- **Replace models in linked setups**
 - **Take MIKE SHE out and put VISUAL MODFLOW in or vice versa**



Thank you for your attention



Configuration, specifying links:

- **What**

- Quantity
- Dimension
- Unit

- **Where**

- ElementSet

- **How**

- DataOperations
- Scaling
- Spatial mapping

