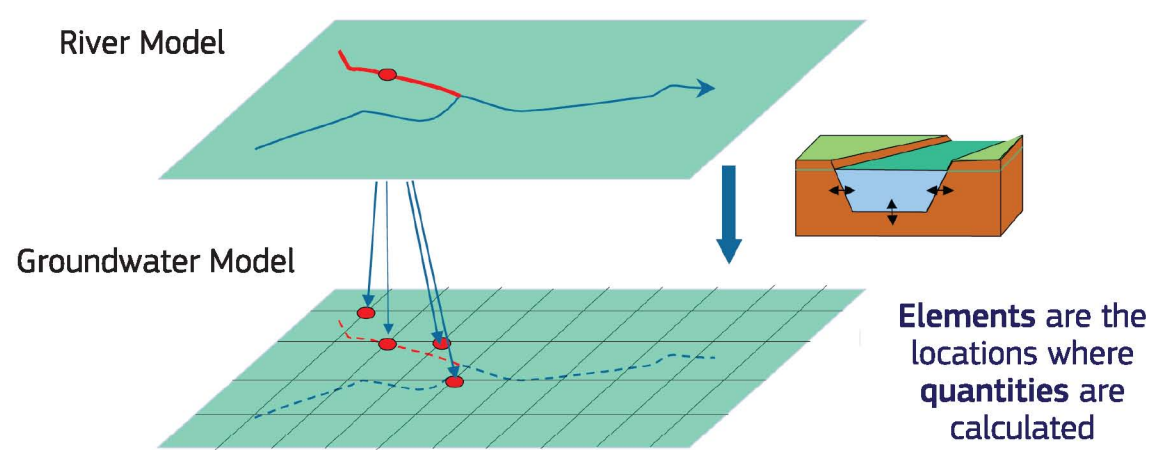


Katrijn Holvoet, Hans Vereecken - Flanders Hydraulics Research, Belgium • Neel Devroede, Yves Ronse, Kris Cauwenberghs - Flemish Environment Agency (VMM), Belgium • Johan Van Assel, Gunther Waterschoot - Aquafin NV, Belgium

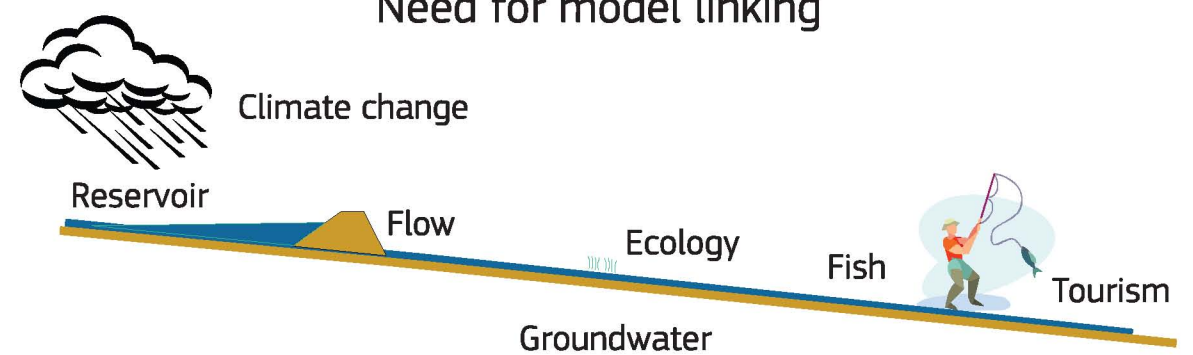
What is the OpenMI?

OpenMI = Open Modelling Interface
An interface standard for run time data exchange between models, databases & tools (no matter what dimension / domain), through links defined by the modeller, **whose purpose is** to improve the ability to model complex scenarios.

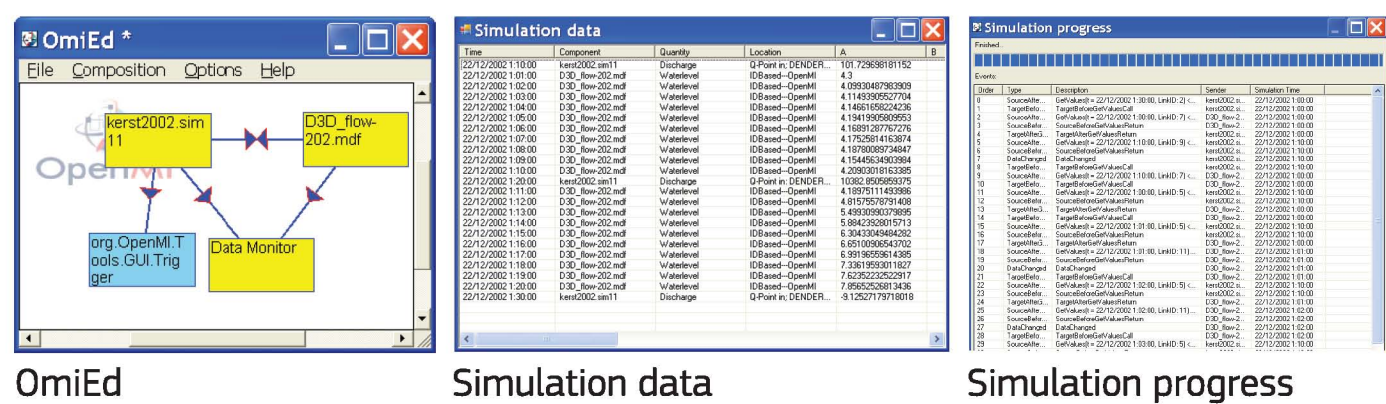


Why apply the OpenMI?

- Competition for scarce resources
- Need for integrated water management - WFD
- Complexity leads to need for decision support
- Need for whole catchment models
- Need for model linking



The OpenMI an example of linking

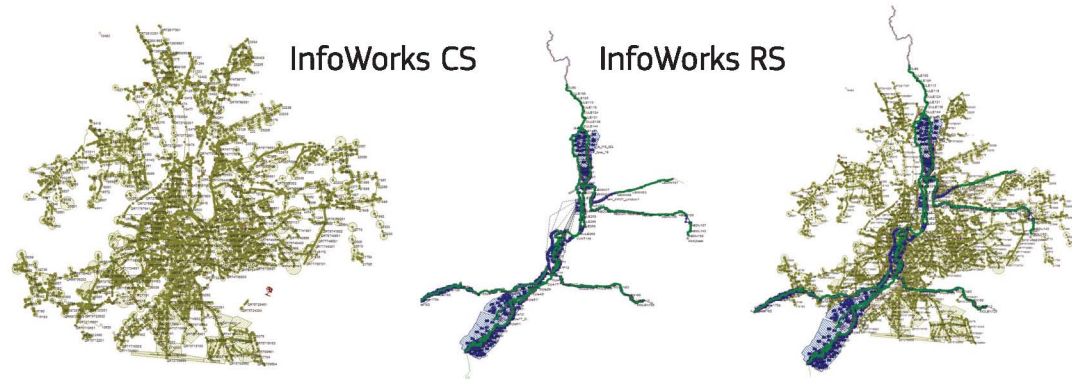


More information

- Concerning the LIFE project: <http://www.openmi-life.org>
- Concerning the OpenMI: <http://www.openmi.org>
- Gregersen J.B., Gijsbers P.J.A., Westen S.J.P., 2007. OpenMI: Open Modelling Interface. J. Hydroinf., 9 (3), 175-191.

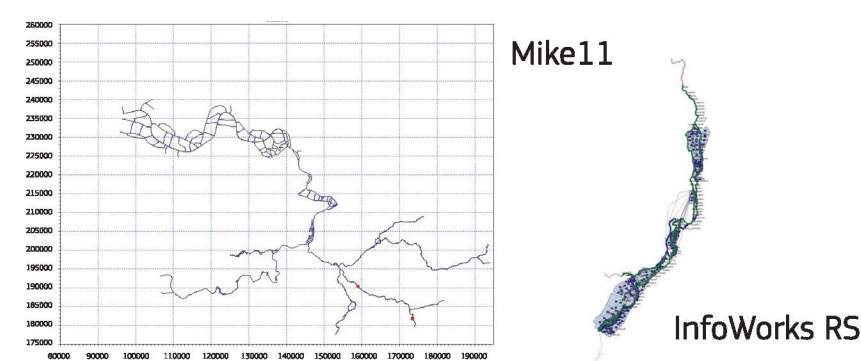
OpenMI-LIFE demonstration: The River Scheldt

Use case A: linking a sewer model & a river model



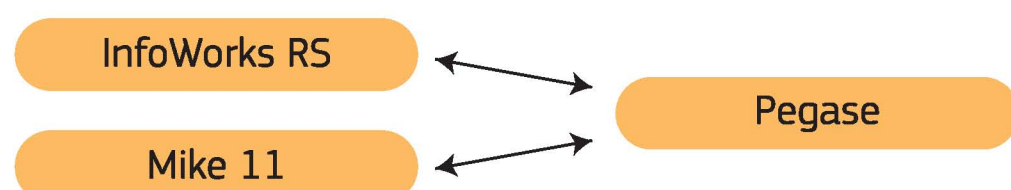
Objective: optimise investments & operational strategies for water managers
Study case: the City of Leuven & the River Dijle
Partners: Aquafin and VMM

Use case B: linking a tidal model & a river model



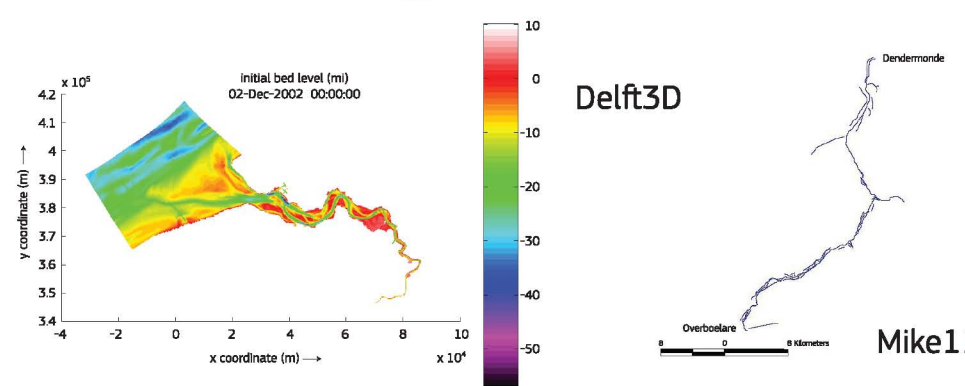
Objective: improved flood maps & predictions
Study case: the River Dijle & the River Scheldt
Partners: FH and VMM

Use case C: linking a river model & a water quality model



Objective: improve interaction between water quantity and water quality
Study case: the River Dijle & the River Demer
Partners: FH, VMM and ULG

Use case D: linking a 1D-river model & a 2D-tidal model



Objective: improved flood maps & accessibility for Antwerp Harbour
Study area: the River Scheldt & the River Dender
Partners: FH and Deltares