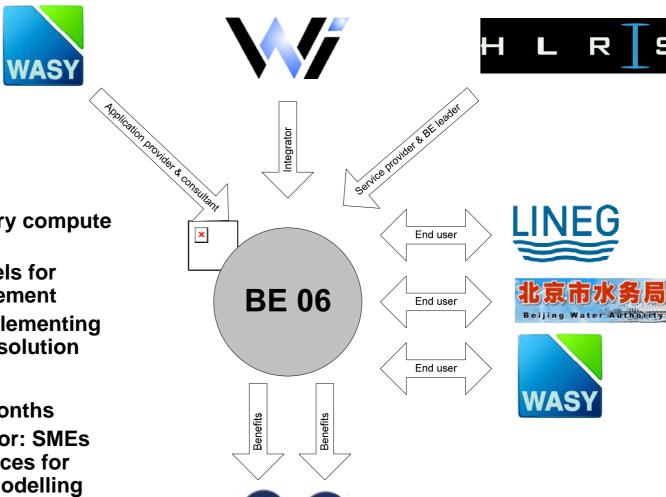


BE06 - Groundwater Modelling UNICORE Summit 2006, Dresden

Julian Reichwald Information Systems Institute University of Siegen



Overview BE06

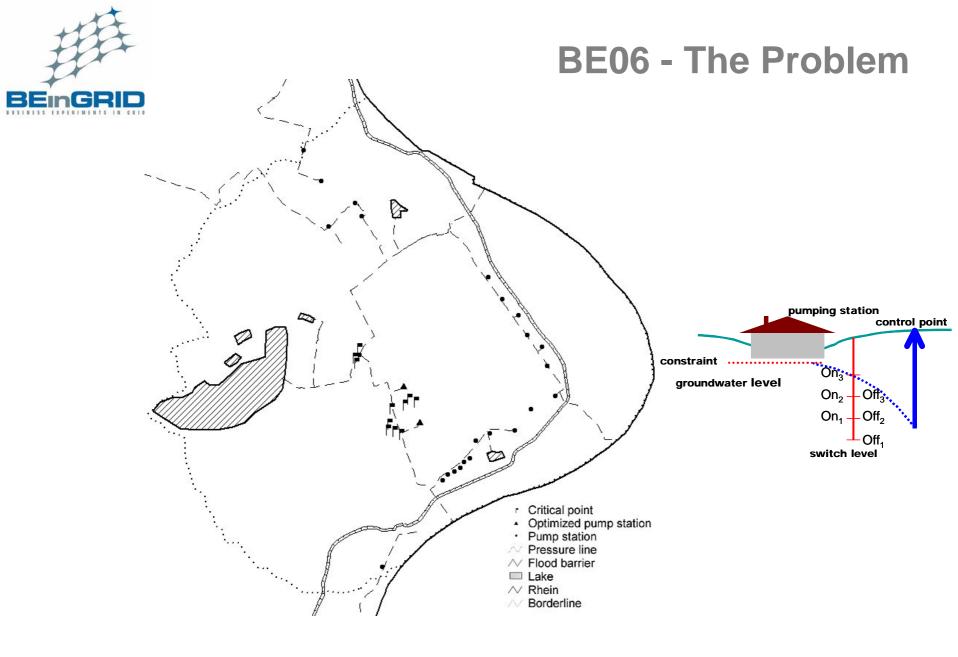


BE06 Goals:

- Large scale multidisicplinary compute grid
- Business models for license management
- Designing, implementing and validating solution

BE Details:

- Duration: 20 months
- Economic sector: SMEs providing services for groundwater modelling





Main Objectives and Challenges

Main objectives:

- Integration of a new discipline on a grid infrastructure: "Groundwater Modelling"
- Combination of numerical simulation with mathematical optimization algorithms
- Integration of Grid based backup mechanisms and data stores
- Development of new business models to solve current license management problems

Challenges:

- Economical suitability for service providers as well as for end customers
- New business models for collaboration in a multidisciplinary international grid-economy



Expected Results & Impact

Anticipated output:

Software package of industrial implementation for groundwater modelling

Benefits of using a Grid solution:

- Allow cost-effective and optimized solutions
- Perform more complex computing tasks
- Thereby provide better forecast possibilities for environmental state
- Reduce ...
 - ... total cost of ownership
 - ... administrative overhead
 - ... computation time

Exploitation intentions:

- Adoption and usage of developed solution by other companies
- Adaptation of developed solution to other scenarios



THANK YOU