

## Business Directed Control of Operational State, Communication and Information Streams in Process Industry

# PRODUCTION 2010

*Operation and maintenance organisations in process industry are experiencing vast changes. Enterprises operating at real time in globalised business require agile production that quickly responds to changes in the business environment. Also the requirements concerning cost effectiveness and product quality are becoming even harder.*

*The operation and maintenance of a process plant has become networked as activities are being outsourced to service providers. At the same time the management of these previously somewhat separate activities is merging. New roles and therewith new businesses are evolving.*

*This change sets new requirements for software systems that support real time decision making on all levels in an enterprise and all nodes of the network. It is now time to analyse the decision making in the new setup, the information processing methods required and the implementation technologies available, and to see how this development can be best utilised.*

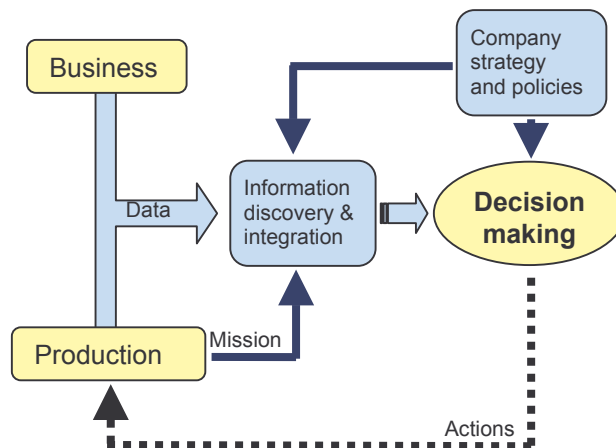
### Project topics and goals

The Production 2010 project has gathered a multidisciplinary research consortium to analyse and study the following topics:

- Implementation technologies: architectures, standards
- Information discovery: analysis and prediction of operational state
- Decision making: context-specific prioritisation and presentation of information, including uncertainties and risks
- Communication and integrated use of information in the networked organisation

The deliverables of the project include scientific publications including a monograph book, practical guidelines for specifying information systems, and simulation-based demonstrations.

The project will organise research seminars and company-specific workshops. The project will also launch and support company-headed confidential take-up projects in the companies involved.



*Decision making based on an integrated operational state of both business and production*

### Who is involved

The founding members of the Production 2010 industrial consortium are: IBM, Myllykoski, Stora Enso, Metso, and Jyväskylä Science Park.

The major interest of owner operators is to enhance their operation and maintenance through novel information management methods. The opportunity for service providers is new business through new roles and networking.

The project is a research project funded by the National Technology Agency TEKES. New member companies actively operating in Finland are welcome to join the project.

The research consortium comprises: VTT, Helsinki University of Technology, University of Oulu, Tampere University of Technology and University of Jyväskylä.

### Project facts

The project duration is Feb 2005 - May 2008.

The total project budget is 3 M€.

The annual company fee is 20 k€.

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