

**Production simulation and process optimization make Ineos Köln one of the most effective petrochemical sites**



**BASF SE** www.basf.com

BASF SE is the largest chemical company in the world and is headquartered in Ludwigshafen, Germany. BASF originally stood for Badische Anilin- und Soda-Fabrik. The BASF Group comprises subsidiaries and joint ventures in more than 80 countries and operates six integrated production sites and 390 other production sites in Europe, Asia, Australia, Americas and Africa.[3] Its headquarters is located in Ludwigshafen am Rhein (Rhineland-Palatinate, Germany). BASF has customers in over 200 countries and supplies products to a wide variety of industries.

Ineos conducted a pilot study to simulate part of several chemical production processes in order to compute the day-to-day production and stock levels, and transport needs, for the coming two years, in a reasonable amount of time. The link between the simulation model and the central SQL database server ensures that new inputs are retrieved and the simulation results are forwarded for action. With the combination of simulation, SQL Server, and SAP, a complete and transparent overview of the past, actual, and future production rates and stock levels is available. As a result, anyone within the entire INEOS organization can access all the information related to production at INEOS Köln. After implementing the AIMMS-based DISPO system, INEOS Köln has become one of the most effective petrochemical sites. Bottlenecks are foreseen at an early stage, allowing INEOS to take appropriate preventive actions, and enabling INEOS to avoid, or at least minimize, losses in utilization.

**Simulation and Forecasting Technology role**  
Modelling chemical production process, operations planning, integration with other systems

**Sector**  
Chemicals

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