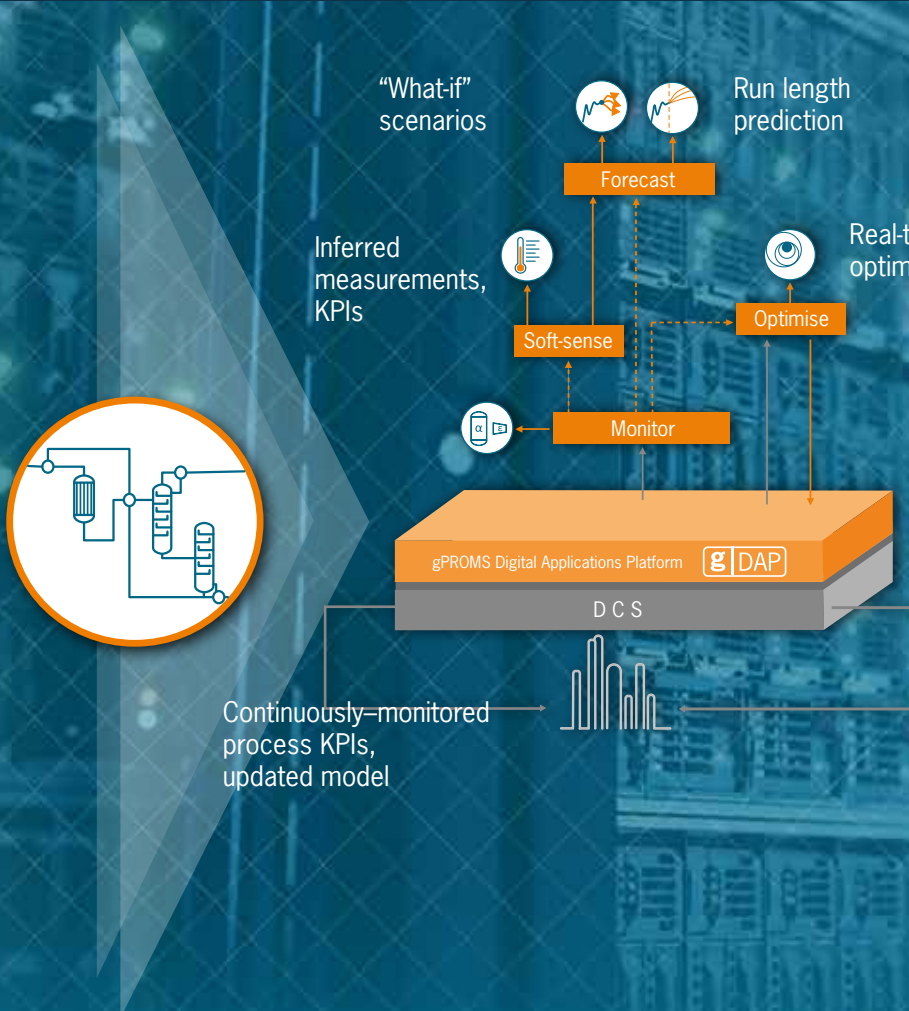




gPROMS DIGITAL APPLICATIONS PLATFORM

HIGH-FIDELITY PREDICTIVE PROCESS MODEL



- Complete framework for intelligent digital operations
- Internal and external data exchange, cleansing and validation
- Monitoring, soft-sensing, forecasting, optimisation applications
- Steady-state detection, state estimation, simulation, optimisation, non-linear MPC activities
- Full failure recovery for robust operation

The **gPROMS[®] Digital Applications Platform (gDAP)** is a robust, integrated software framework for the development and online deployment of complex model-based decision support systems as part of intelligent digital operations.

It takes care of all essential activities for both online development and implementation and execution of models – management of external and internal data exchange, data cleansing and validation, and execution scheduling of the model based computations – within an integrated fail-safe framework.



The Advanced Process Modelling Company

A Siemens Business

psenterprise.com

Operations in UK, USA, Japan, Korea, China, Taiwan and Thailand.

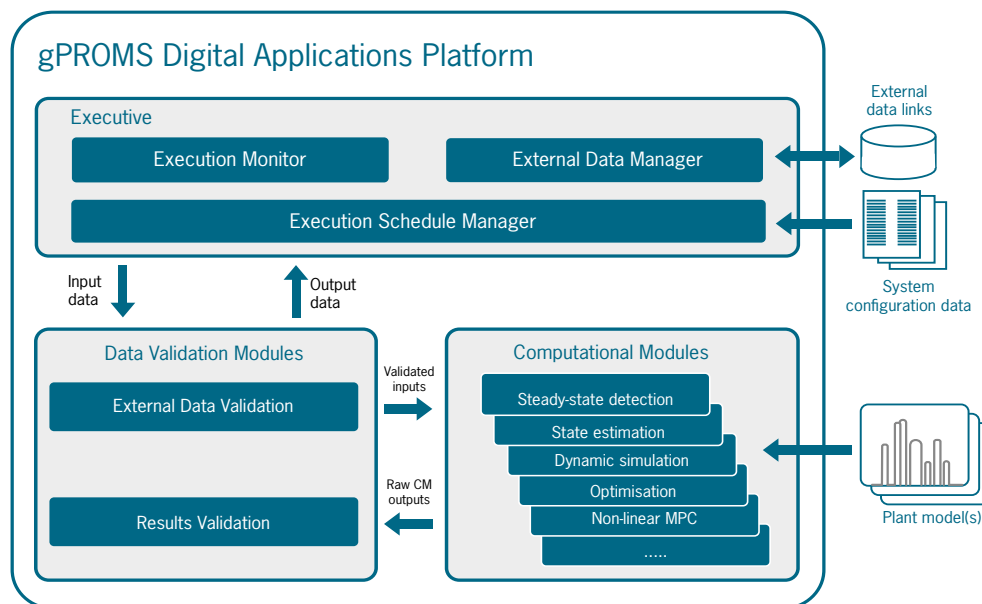
Head Office
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INTELLIGENT DIGITAL OPERATIONS



Integrated online execution and data management

The gPROMS Digital Applications Platform (gDAP) takes care of all essential activities for online implementation and execution of high-fidelity models as part of operations decision support systems.



The gDAP underpins the following gPROMS Operational Excellence Solutions

g|OLEFINS



Olefins monitoring, forecasting & optimisation suite

g|UTILITIES



Site utilities optimiser

g|REFINERY



Online fouling management & optimisation

g|OILFIELD



Oil & gas field integrated production & facilities optimisation

Find out how PSE's intelligent digital operations applications can help you at

psenterprise.com

Core software components include:

- **External Data Manager**, managing communication with the external data servers
- **Execution Schedule Manager**, managing the timing of the execution of the various calculations
- **Execution Monitor**, which ensures correct operation and takes corrective action if necessary
- **Data Validation Modules** that apply extensive validation to all data exchanged within the system and with external data servers, and handle any cases of missing or invalid data
- **Computational Modules (CMs)** that perform the required applications described in the section above – for example steady-state detection, parameter estimation, optimisation, simulation.

Supply

The gPROMS Digital Applications Platform is supplied as the basis of all PSE's intelligent digital operations applications, including the gPROMS Operational Excellence Solutions.