



PSE is a leading

provider of advanced

modelling technology

and model-based

services

PSE is a leading provider of advanced modelling technology and model-based services to the process industries.

Companies use our software and services to maximise product quality, minimise production cost, control environmental impact and manage innovation risk, through the application of high-accuracy predictive mathematical models of their processes and products.

How do I minimise my catalyst lifecycle cost?



dedicated to **innovation**

in the process industries

PSE is dedicated to innovation in the process industries. We enable our customers to innovate much faster, design more efficient processes, manage risk more rigorously and integrate R&D and engineering work.

Some 200 academic and research institutions around the world also use our software for research into new technology areas.

Because our technology is based on first-principles approaches, it finds application in virtually all the key process industry sectors: chemicals, fine chemicals, petrochemicals, oil & gas, refining, alternative energy, polymers & plastics, pharmaceuticals, biotechnology, power, mining & minerals, food & beverage and pulp & paper.

We are also dedicated to innovation in our own products. A large proportion of our annual spend is on R&D in fundamental areas of process modelling, and our gPROMS[®] advanced mathematical modelling software continues to win awards for its contribution to engineering.

As a company PSE is committed to working in partnership with our customers for mutual benefit, and the success of our ModelCare[®] service is testimony to this.

Smithsonian Award
1998

Queen's Award for
Innovation 2001

TechTrack fastest
growing technology
companies
2002-2003



MacRobert Award
for Engineering
Innovation 2007

How do I minimise off-spec product when changing grades?



How do I scale up this crystalliser successfully?



ModelEnterprise

Optimal economic planning

ModelEnterprise® is advanced software technology for optimal economic planning of multi-product, multi-site process manufacturing facilities with complex production requirements.

ModelEnterprise applies rigorous mathematical optimisation to a model of the enterprise to maximise asset utilisation under specific operational constraints – for example, material availability, demand levels or resourcing constraints – in order to maximise or minimise an economic objective.

The resulting optimal information is used for quantitative decision support in a range of planning activities – from the week-by-week planning of production to deciding where to site new facilities – all resulting in better economic performance of the plant or enterprise.

How do I achieve the right product quality every time?



gPROMS

Advanced process modelling

PSE's gPROMS is the world's leading advanced process modelling environment.

gPROMS models typically combine detailed first-principles physics and chemistry relationships with real-world data.

This provides high-accuracy predictive information that is used for decision support in process and product innovation, design and operation.

gPROMS is applied in all process sectors, and at all stages of the process lifecycle, from R&D through detailed engineering to operating plant.

Typical application areas are reaction of all kinds, crystallisation, polymerisation, advanced separation and fuel cell component and system design.

PSE provides software, models and services

How do I minimise work-in-progress to improve cash flow?



ModelCare

Expert modelling services

We acknowledge that building models is often a challenging specialist task.

PSE's ModelCare is a specially-designed service that covers everything from occasional assistance to your in-house modellers to the implementation of model-based innovation approaches across R&D, engineering and operations divisions.

Core ModelCare activities are aimed at delivering fit-for-purpose projects rapidly while transferring modelling know-how to customer personnel.

This helps you to build up capabilities within the organisation based on successful application.

How do I prove this stack design will work?



PSE customers include the world's largest and most innovative process companies, across many different industry sectors and application areas.



refining, oil & gas

chemicals, petrochemicals

pharmaceuticals, polymers

advanced process modelling

fmcg, food & beverage

optimal economic planning

minerals, mining

expert modelling services

energy, paper

biotreatment

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