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shaping tomorrow with you

HPC Solutions with Integral Application Expertise

PRIMERGY HPC Gateway

SC12, Salt Lake City

Ian Godfrey, Fujitsu Systems Europe

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Targets of HPC Simplicity

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Obtain **better value**
from HPC investments.

Find and apply HPC
knowledge in **new ways.**

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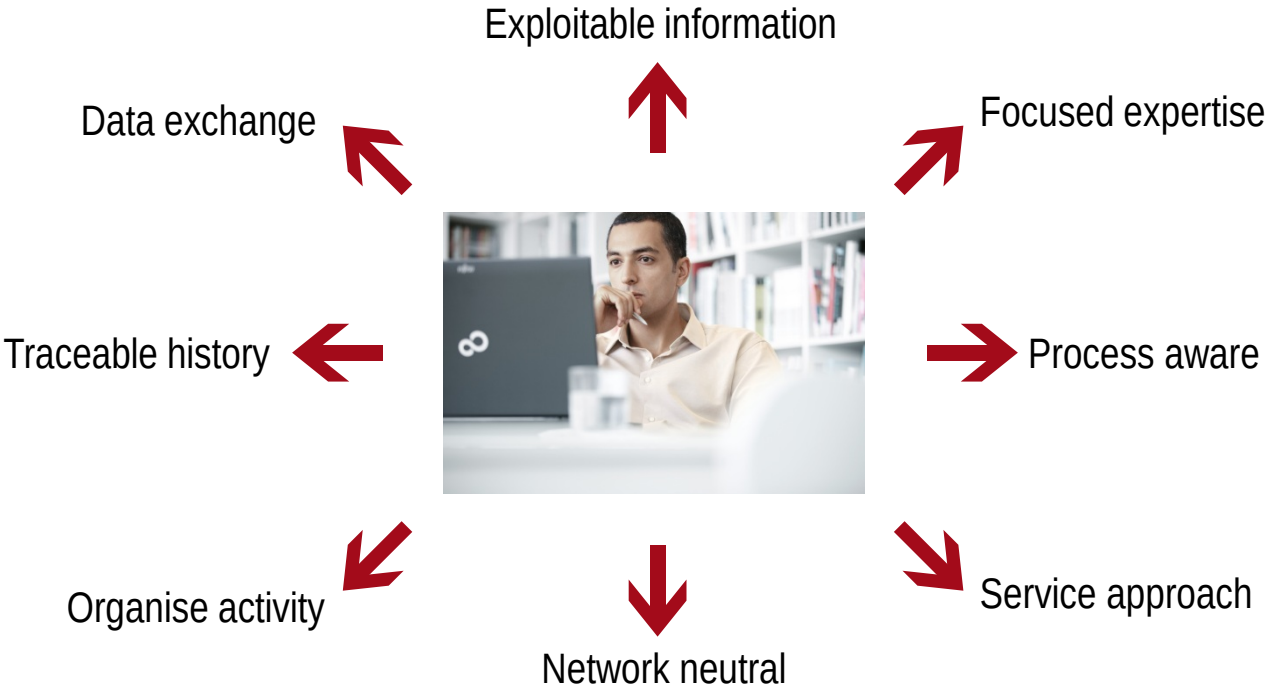
End-User Perspective – Many questions



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Delivering HPC Simplicity – Bringing Answers

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Integral Application Expertise.

Tuned processes
Range of methods
Active process reporting

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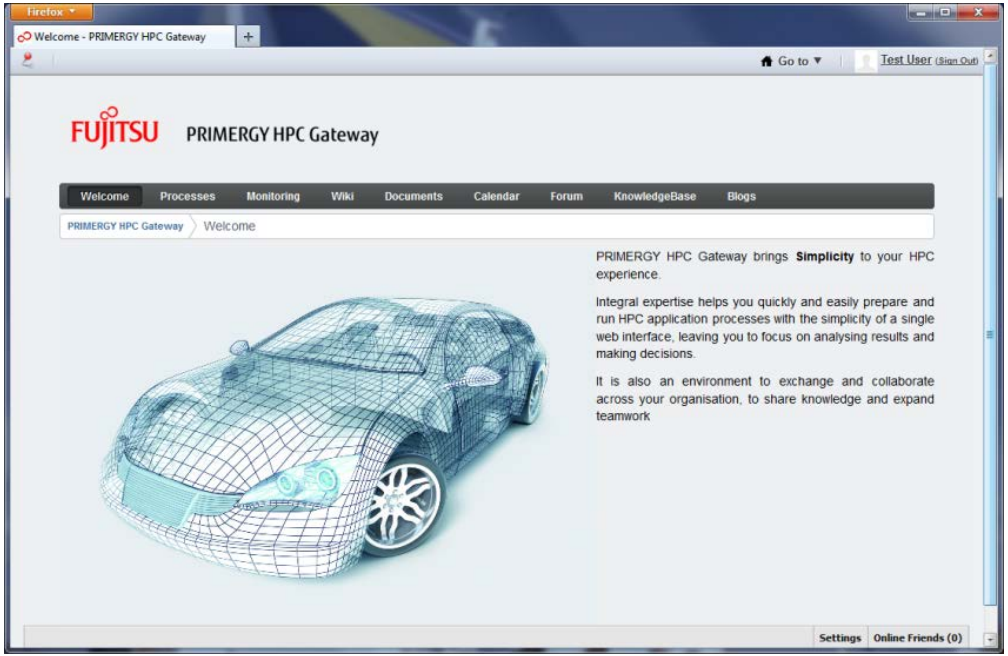
Introducing PRIMERGY HPC Gateway



Access expertise in business methods without the IT pain

Constant visibility on experiments and projects

Traceability for assured and secure operations

Scalable and Agile resources usable from single view

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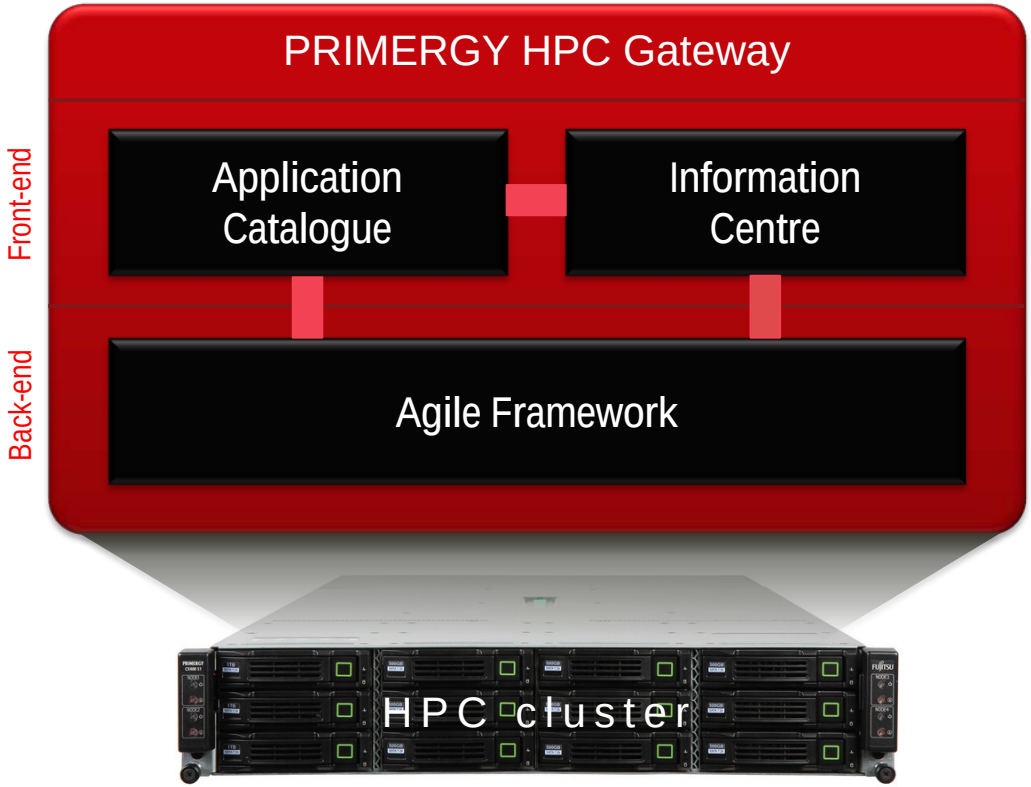
PRIMERGY HPC Gateway Components



Integral expertise with domain focus

- Process execution and monitoring
- System and application reporting

Foundation for application scalability

- Global orchestration and dataflow
- Native security layer

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Scale to Global Data Centres and Extended Enterprise

Easier connectivity, transparent scale and dynamic data flow

Robust automated application process management

Global Reporting and Traceability

PRIMERGY HPC Gateways

LAN | WAN | Internet

Local cluster

Company datacentre

Partner resources

Cloud resources

Agile job placement and data movement

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Application Catalogue – Process expertise designed-in

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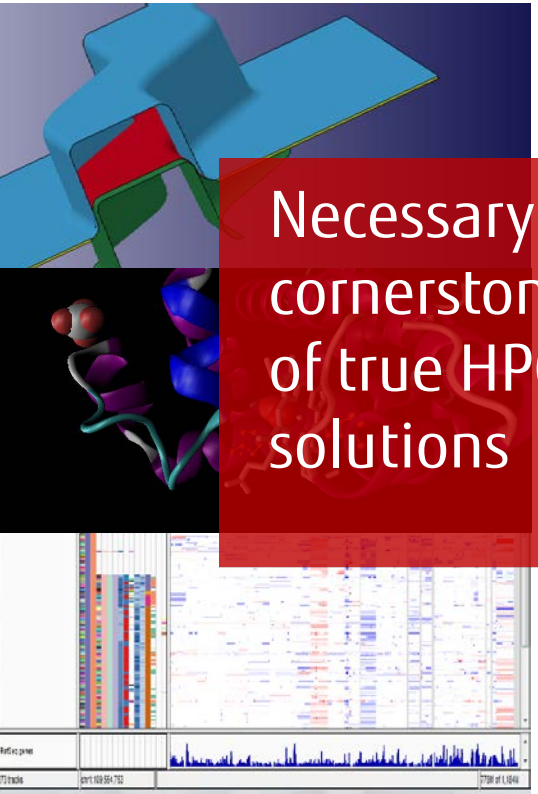

Necessary cornerstone of true HPC solutions

Application process expertise captured with designed-in workflows

Gateways organise related processes and knowledge

Automated global dataflow increases exchange speed and robustness

Solution extended with self application on-boarding

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Supporting the full work cycle

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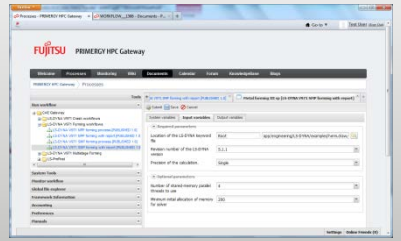
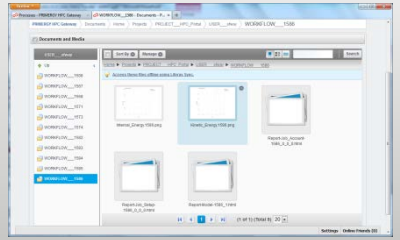
Simpler experiment setup,
run profile history

Immediate reporting,
latest information

Application Catalogue



Information Centre



Simplify

Orchestrate

Deliver

Make use

Structured methods,
robust and scalable

Integrated, more
comprehensive traceability

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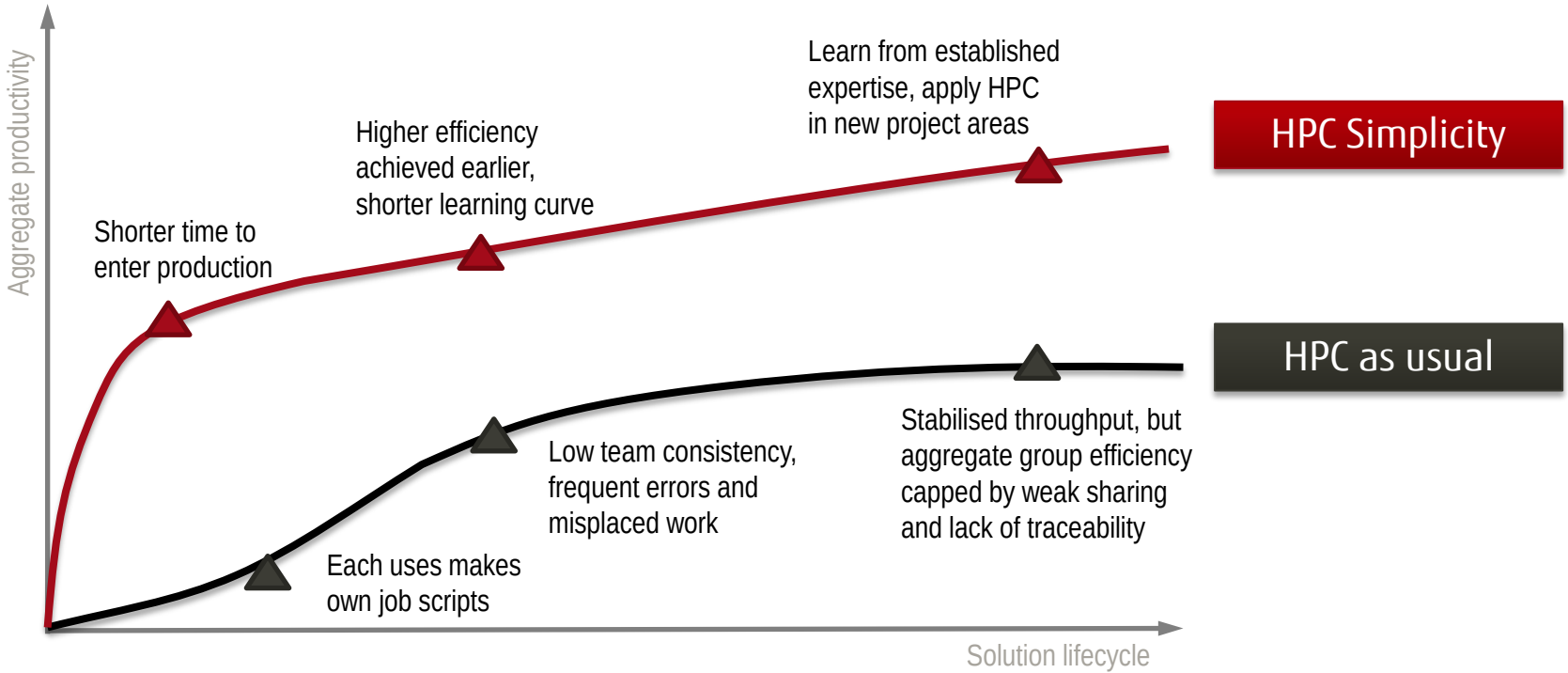
Advantages grow over hardware lifecycle



From Integral Expertise to HPC Solutions

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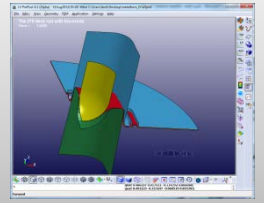
Designed in

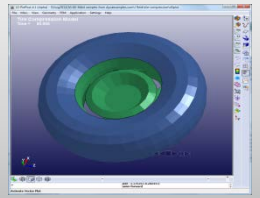
Application Catalogue

- Application Process
- Application Process
- Application Process
- Application Process

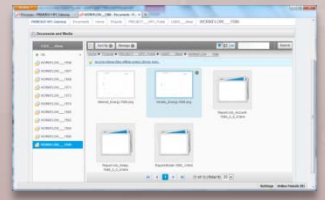
Project



Project



Gateway Solutions



Self on-boarding

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Gateway solutions by HPC domain

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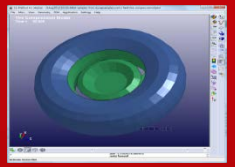
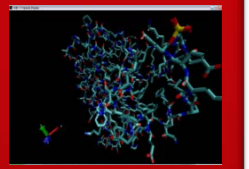
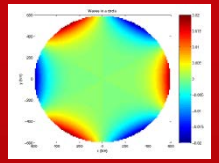
CAE Gateway	Life Sciences Gateway	Environment Gateway
		

Gateway front-end	Integral application methods – More reliability, lower risk , shorter time-to-value Experiment setup and management, project reporting Web access to all methods and information
Gateway back-end	Workflow orchestration from single cluster to global data centres Native security layer, single sign-on, encrypted data Cloud infrastructure, service-based abstraction
PRIMERGY HPC Portfolio	Intel XEON and XEON Phi clusters HPC software stack

Creating Business Outcomes

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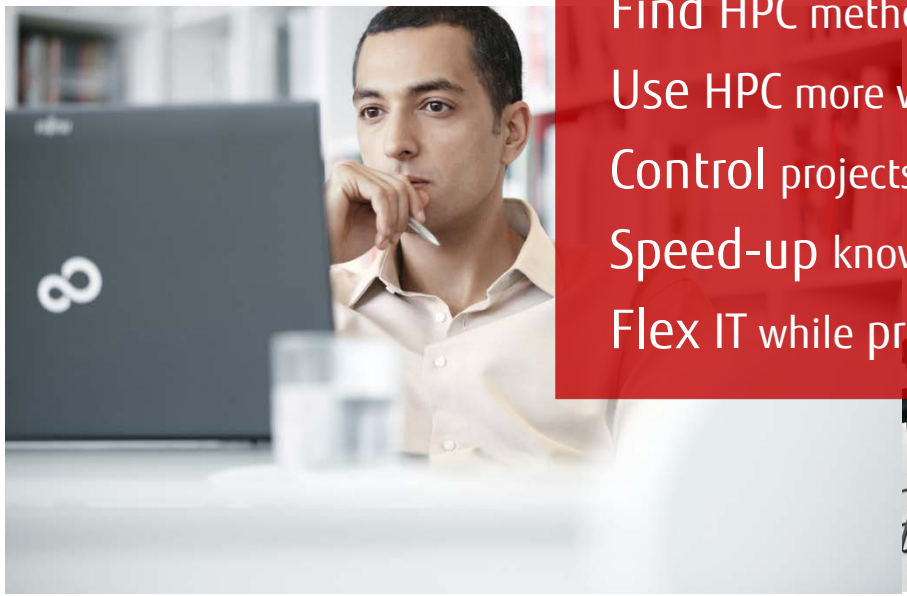
"PRIMERGY HPC Gateway combines the simplicity of web access, the expertise from agile application workflows and clarity of active reporting to tune your business processes and better manage project outcomes."



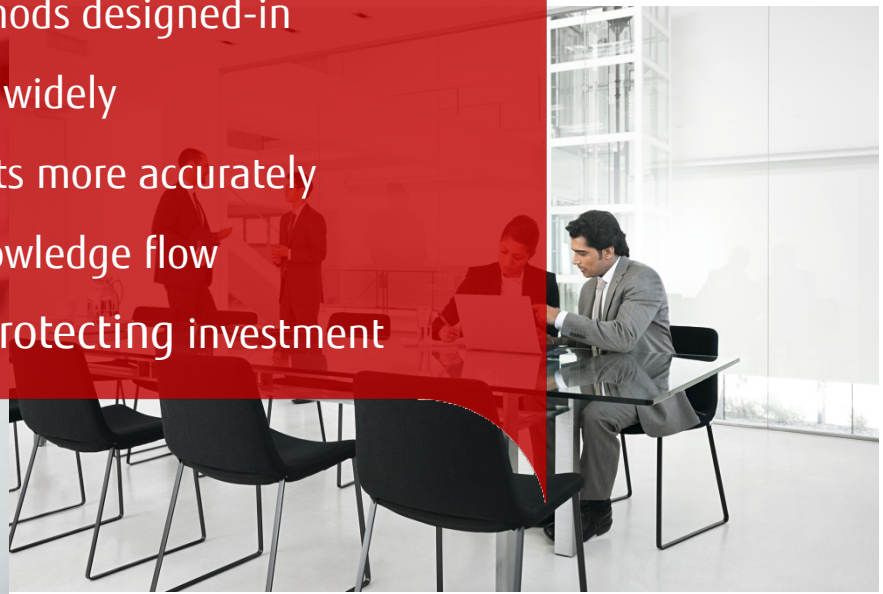
Find HPC methods designed-in

Use HPC more widely

Control projects more accurately

Speed-up knowledge flow

Flex IT while protecting investment



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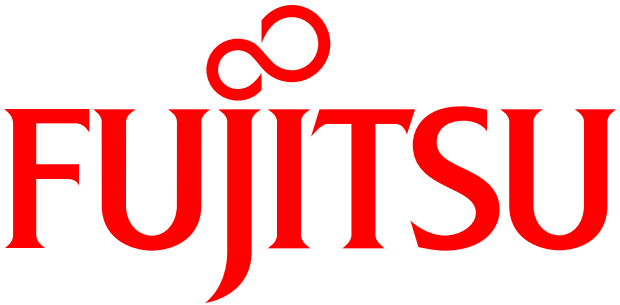

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