



Forum **TERATEC** 24

Unlock the future

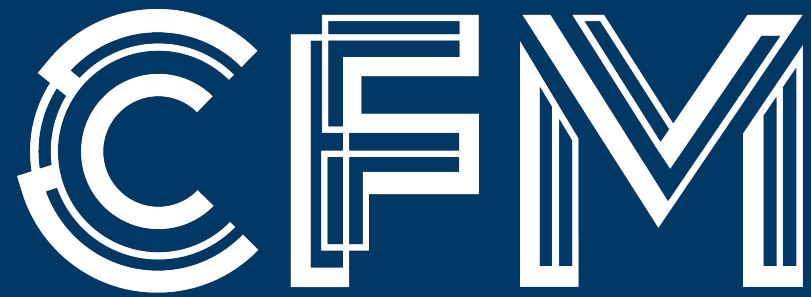
**The HPC Cloud is an essential lever to
accelerate CFM's growth and its exponential
needs for HPC and AI simulations**

A Pioneer of Quantitative Investing

An Adoption-Oriented Project

Conclusion





INSIGHT.DATA.CLARITY.

Who we are

Founded in 1991, Capital Fund Management is one of the early **pioneers** of quantitative investing.

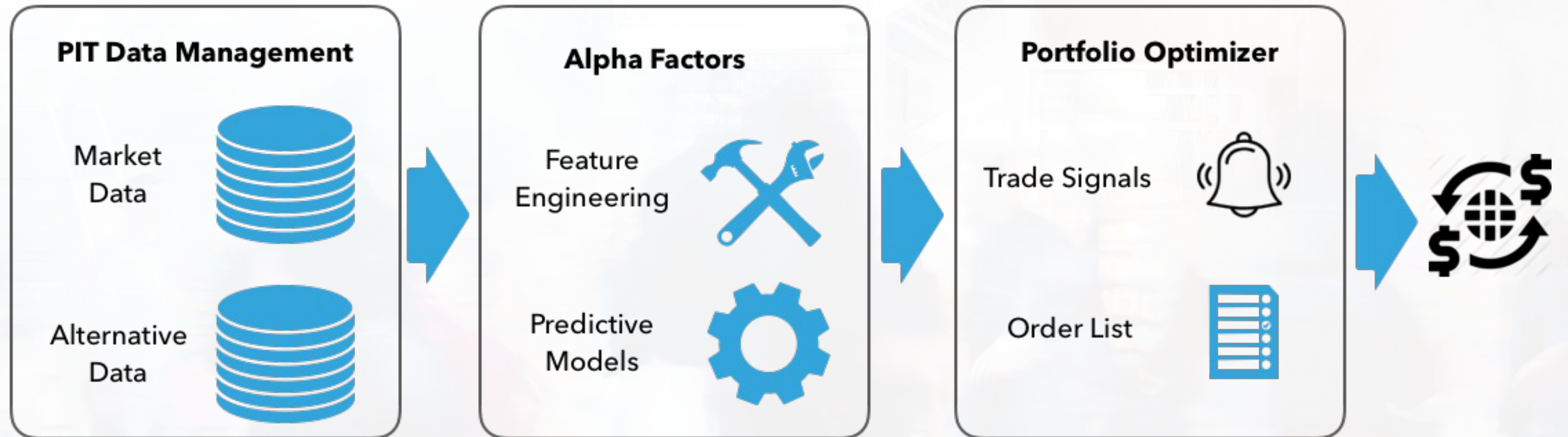
Research and technology form the foundation of our investment approach. We analyze a broad spectrum of **data** through leading-edge analytical techniques to develop and **systematically** implement diversifying investment strategies.

Headquartered in Paris, our firm brings together individuals with **scientific**, engineering and business backgrounds who share a culture of **innovation**, **collaboration** and **commitment** to our global investor base.

Founded	AUM	Staff	Employee owned	PhD
1991	\$14.1bn	320+	89%	85+

Unlock the future

Quantitative Investment process



For illustrative purposes only

Source: <https://github.com/stefan-jansen/machine-learning-for-trading>

Two example use cases

Frequent run of predictive models

- A strong and tight SLA (<30min)
 - Increase of number of models
 - Increased complexity
 - Dedicated infrastructure
-
- Expected gain: TCO, innovation and scalability at high pace

Reference data computation for calibration

- Periodic run of predictive models on decades of historical data
 - Increase of number of models
 - Increase of number and size of data sets
-
- Expected gain: reduce elapse time (more parallelisation) while supporting growth

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Anticipate and Consider Culture and Habits to Ease Adoption and Governance

Assess

4 to 6 weeks *

- Discovery
- Use cases mapping
- Applications landscape
- Features coverage
- Teams' skillset
- Teams' habits
- Success criteria incl. performances
- Opportunity case
- Architecture Design

Create a case for change

Prepare

3 to 6 months *

- Security & Compliance
- FinOps
- Build Solution
- Skills Improvement
- Define Target Operating Model

Build Solution

Modernize & Optimize

6 to 18 months *

Modernize & Operate:

- Applications migrations
- Dynamic Monitoring setup
- Support ramp-up

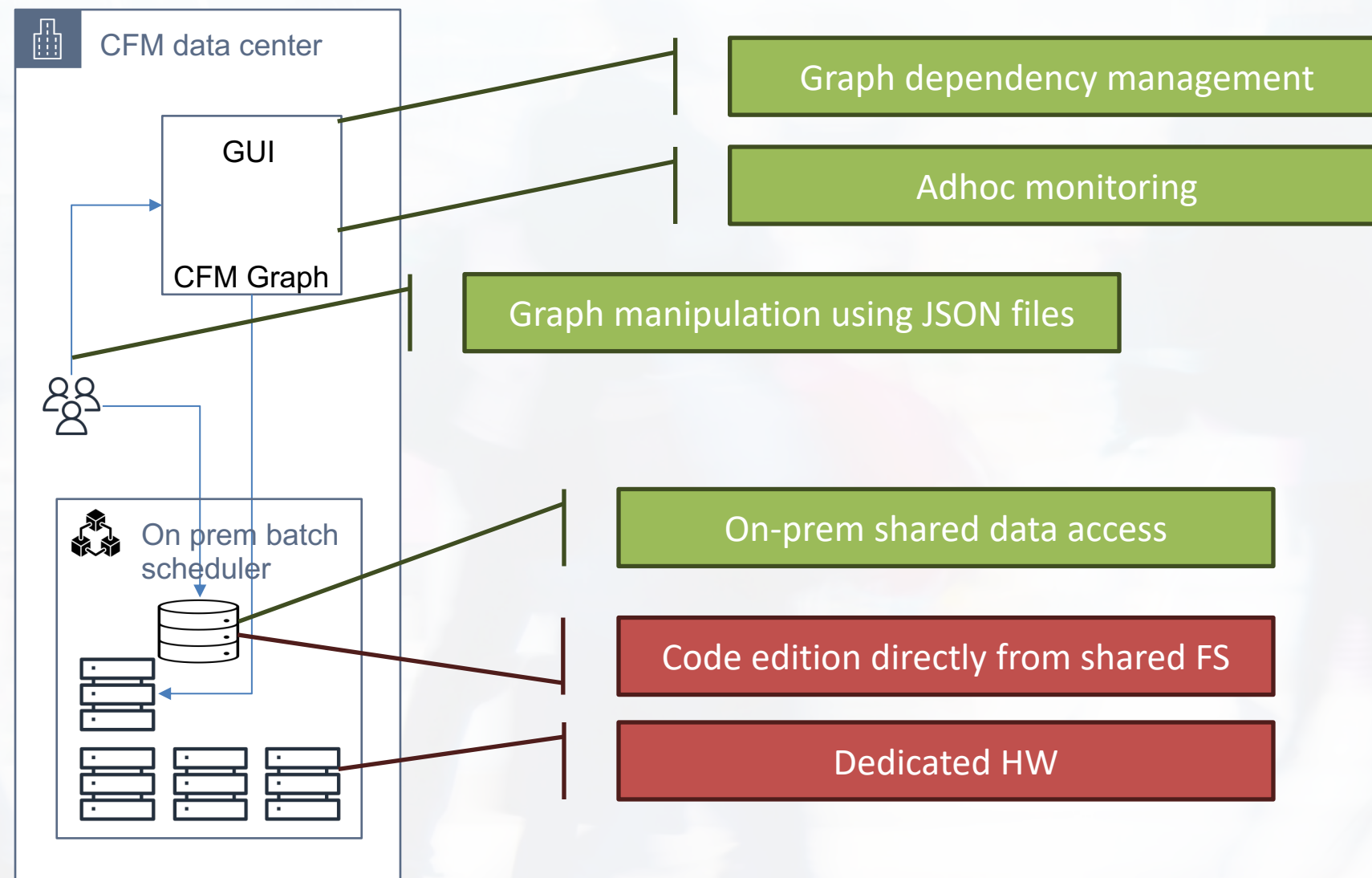
Optimize:

- Optimize hardware configuration
- Optimize service usage

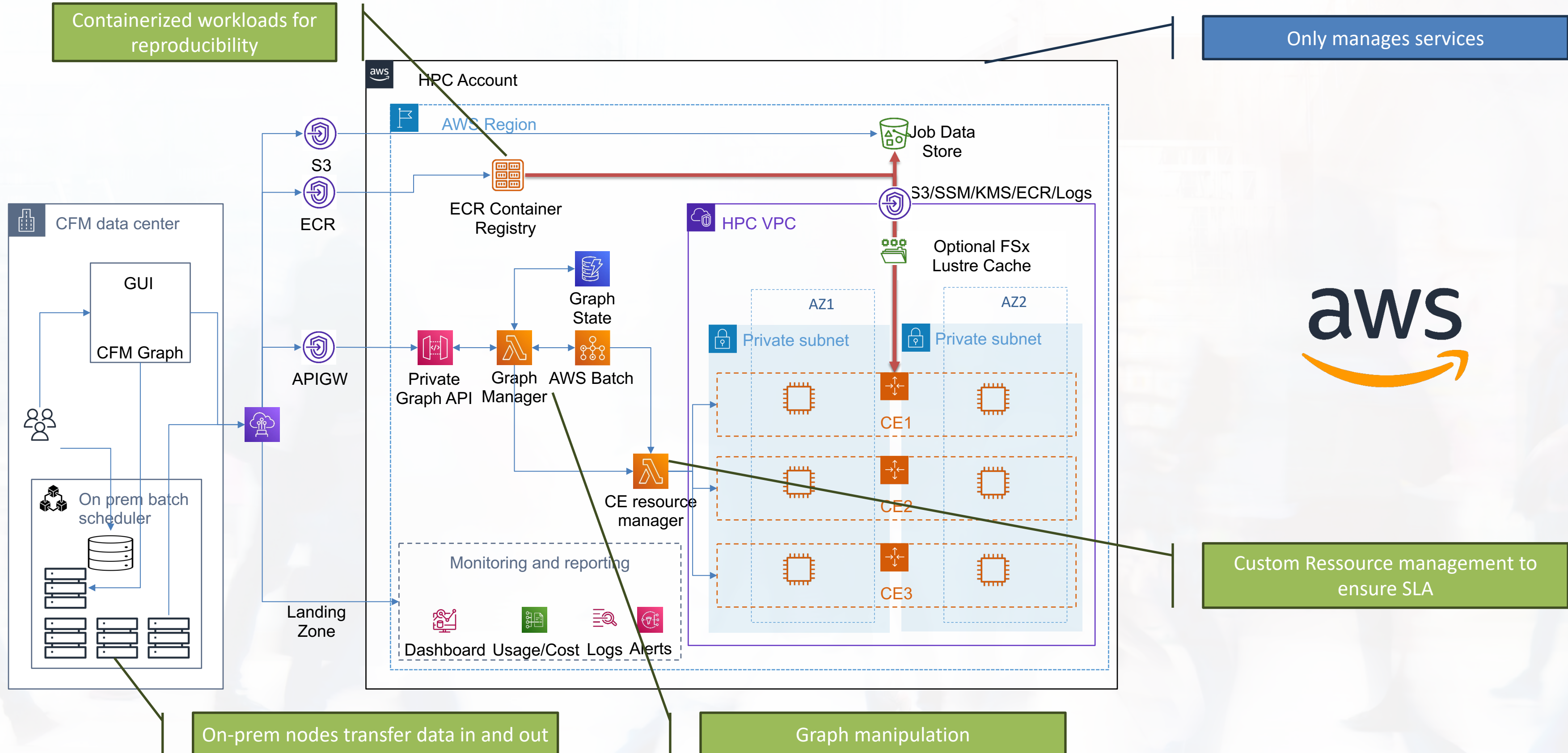
Deploy at scale & Accelerate



Migration without disruption: an Example



Migration without disruption: an Example



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Realised benefits

- **Tight compute SLA can be achieved on the cloud**
- **Massive parallelisation reduces elapse time**
- **TCO reduction**

Unleashes innovation

Leverage HPC and cloud experts to design the solution that fits your context

Disclaimer

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