Hewlett Packard Enterprise

AI & IoT

2019 Best of Breed Conference

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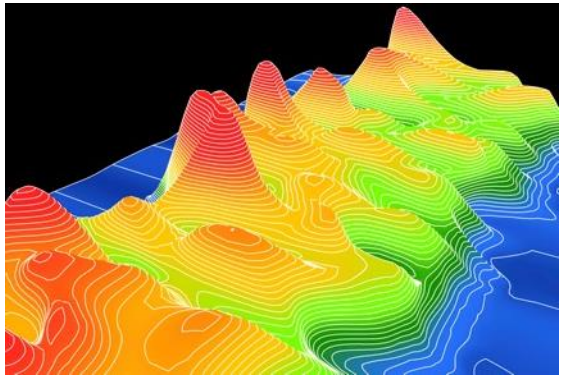
Chief Strategist AI & IoT

What's driving the data explosion?

[1] Driver assistance systems only

HPE knows there are hidden insights from an abundance of data across many vertical domains

Weather



- Timely and more precise weather forecasting
- Improved understanding of climate change

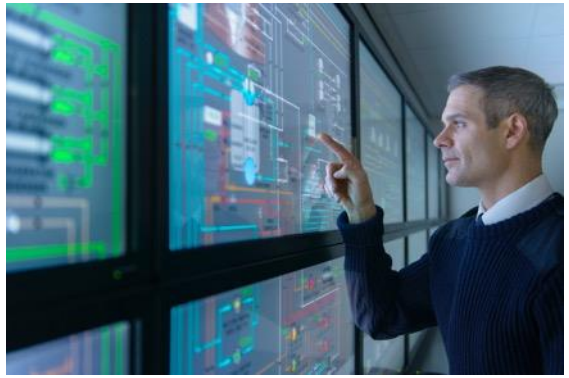
Energy

- Wind energy optimization
- Better photovoltaic efficiency

Aerospace

- Video analytics—airport surveillance
- Flight data from thousands of sensors

Manufacturing



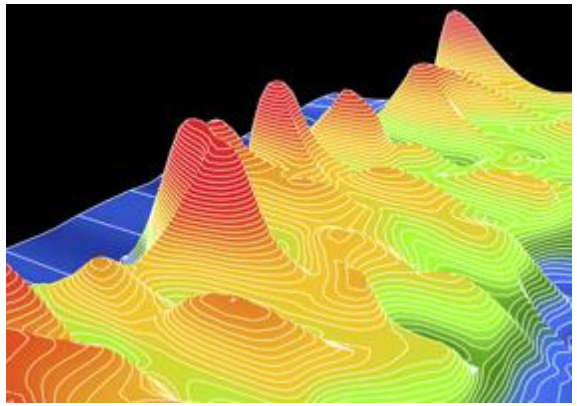
- Predictive and prescriptive maintenance
- Data from monitoring temperature and vibration within equipment

AI & IoT dramatically improve the way we live, work, and innovate

WINNING WITH AI NOW

Financial services
Fraud detection, ID verification

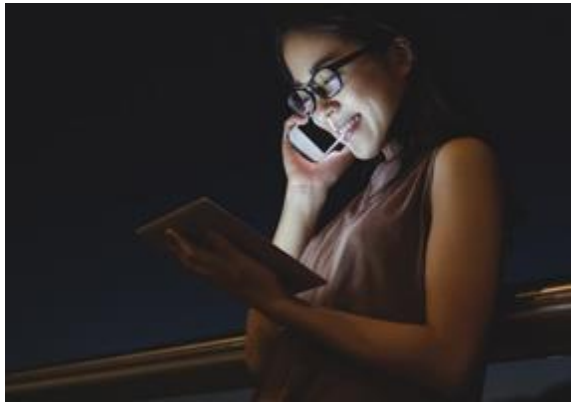
Government
Cyber-security, smart cities and utilities



Energy
Seismic and reservoir modeling

Retail
Video surveillance, shopping patterns

Health
Personalized medicine, image analytics



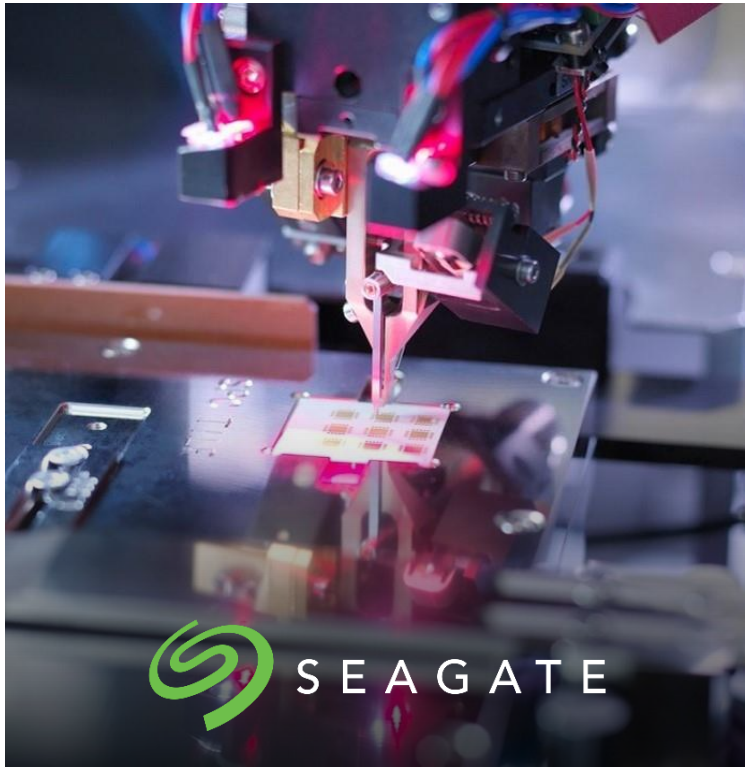
Consumer tech
Chatbots

Service providers
Media delivery

Manufacturing
Predictive and prescriptive maintenance

HPE PUTS AI IN ACTION

Shaving milliseconds off race times



Transforming manufacturing quality assurance using deep learning from edge to cloud

Automating worker safety and facility condition monitoring with predictive maintenance and video analytics

ACCELERATE YOUR AI ADOPTION WITH PROVEN SOLUTIONS

Digital prescriptive maintenance

- Determines condition of in-service equipment in order to prescript when maintenance should be performed

Surveillance using video analytics

Provides operational insights based on captured video data, ranging from:

- Facial recognition
- Queue monitoring
- Unattended items

Speech to Text natural language processing

Communication surveillance

- Speech to Text
- Biometric search
- Live Call monitoring

Quality control

Manufacturing quality assurance

- Applies AI techniques to visually identify defects in products and flag the areas of interest when it comes to the quality of the product

BIG DATA TRENDS

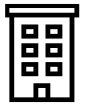
Business drivers

Consumption-based experience
A managed infrastructure with flexible growth and pricing structures.

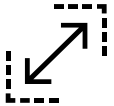
Stream analytics
Moving beyond MapReduce to analyze data in flight from the edge, to the core, into the cloud.

Deep learning
Machine learning algorithms are being applied to big data to solve business problems in every industry.

Technology enablers



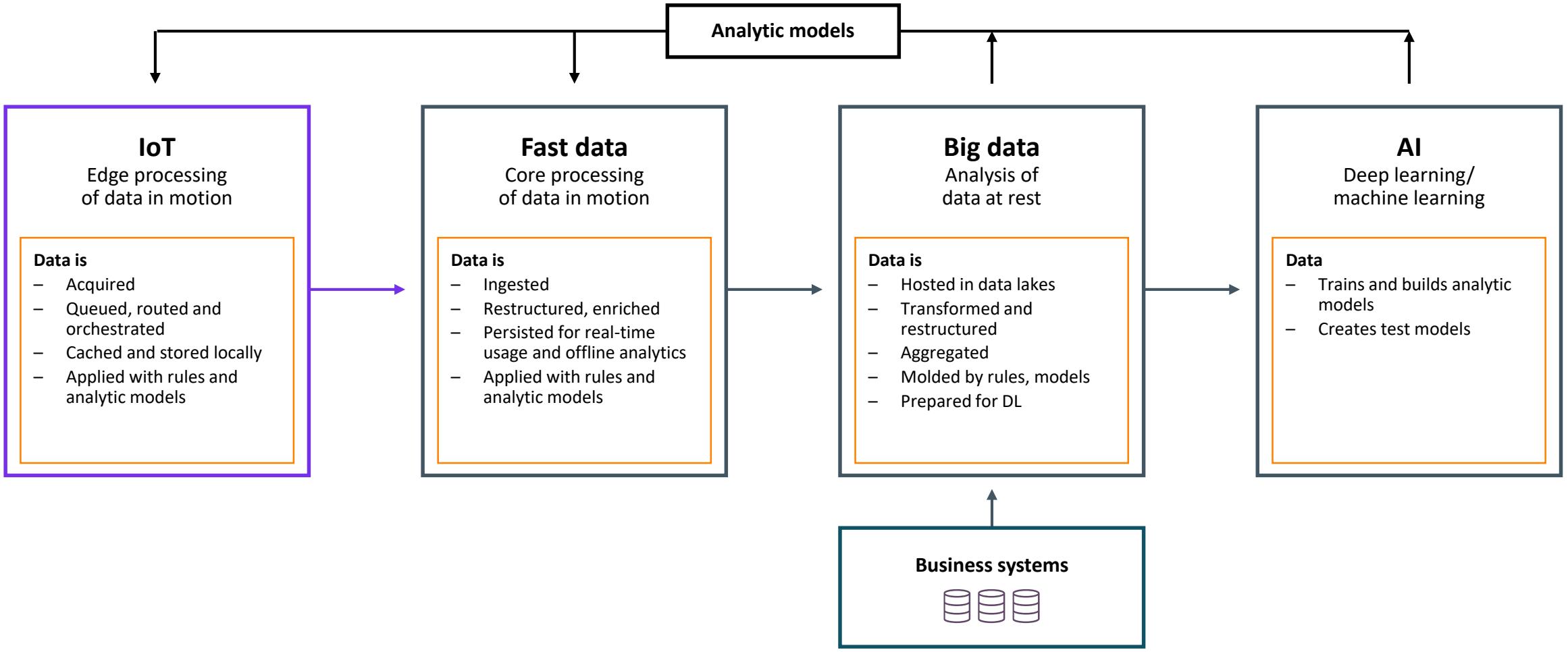
Multi-tenancy
Drive toward reducing cluster sprawl with density-optimized servers, serving diverse workloads on a single data platform.



Hyperscale
Faster networks and flash storage allow for independent scaling of compute and storage, enabling new compute platforms for analytics.

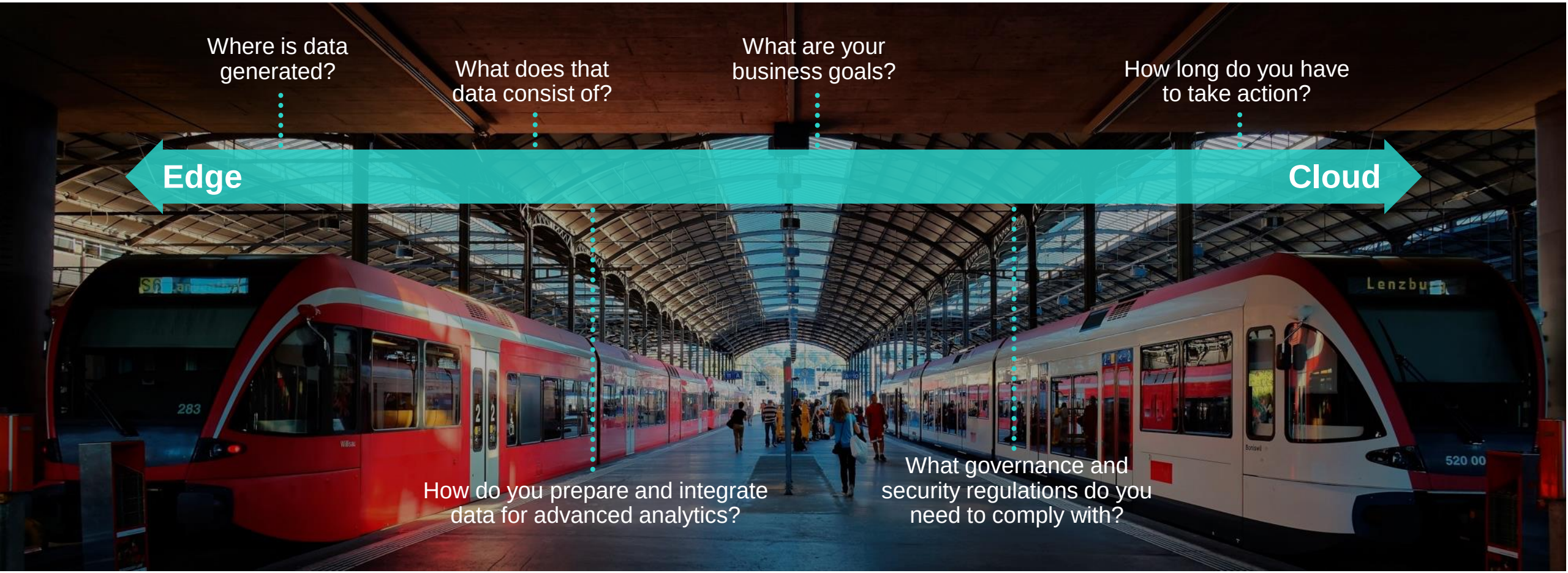
Containers
Enable infrastructure and business agility with Docker, Mesos, and Kubernetes.

DATA IN ACTION: AN END-TO-END DATA PIPELINE



Why HPE?

Our vision is about data - from edge to core to cloud



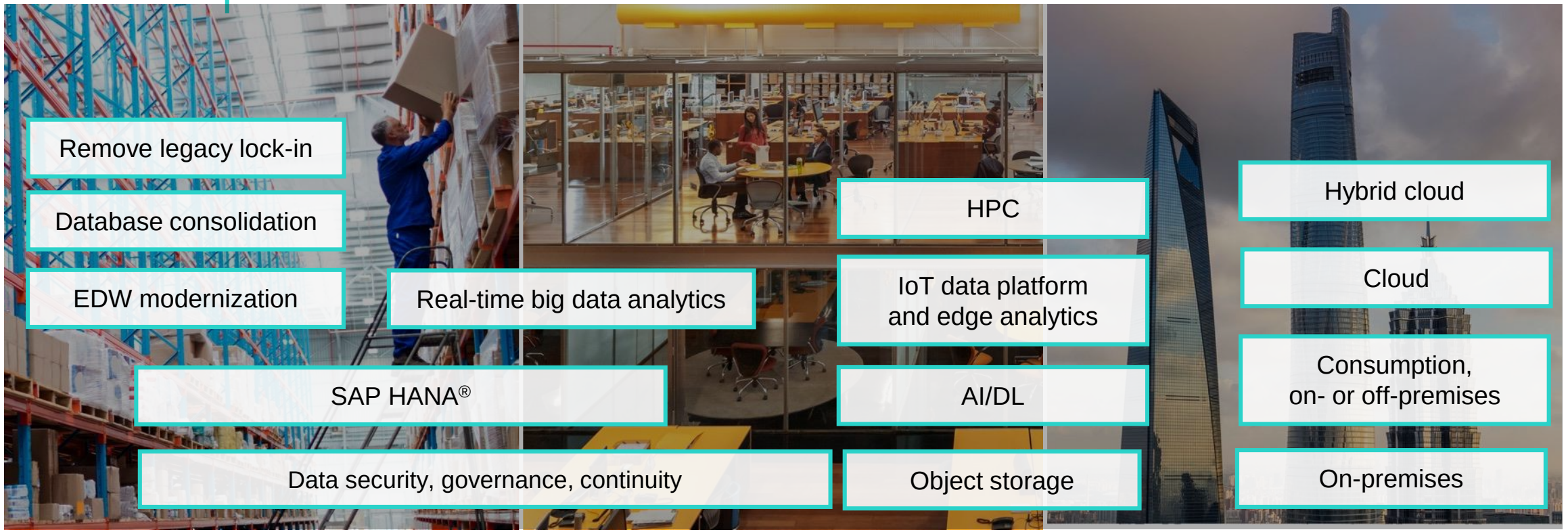
HPE can help you wherever you are in your data journey

Modernize, secure traditional data environments

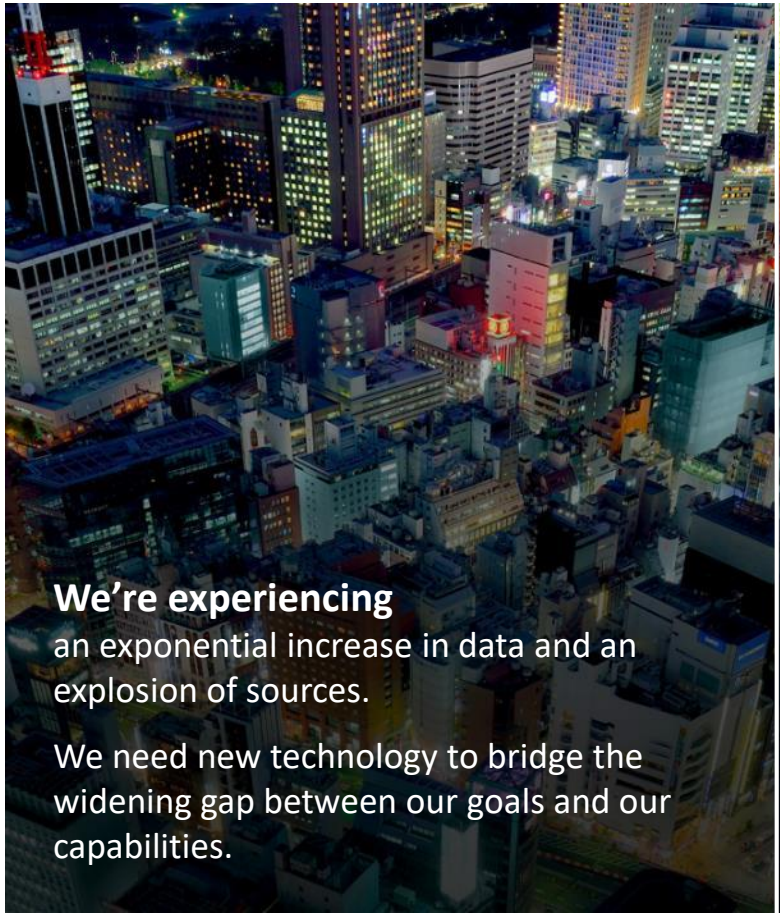
Unify data architectures

Generate insights from data at any scale

Converge deployment models

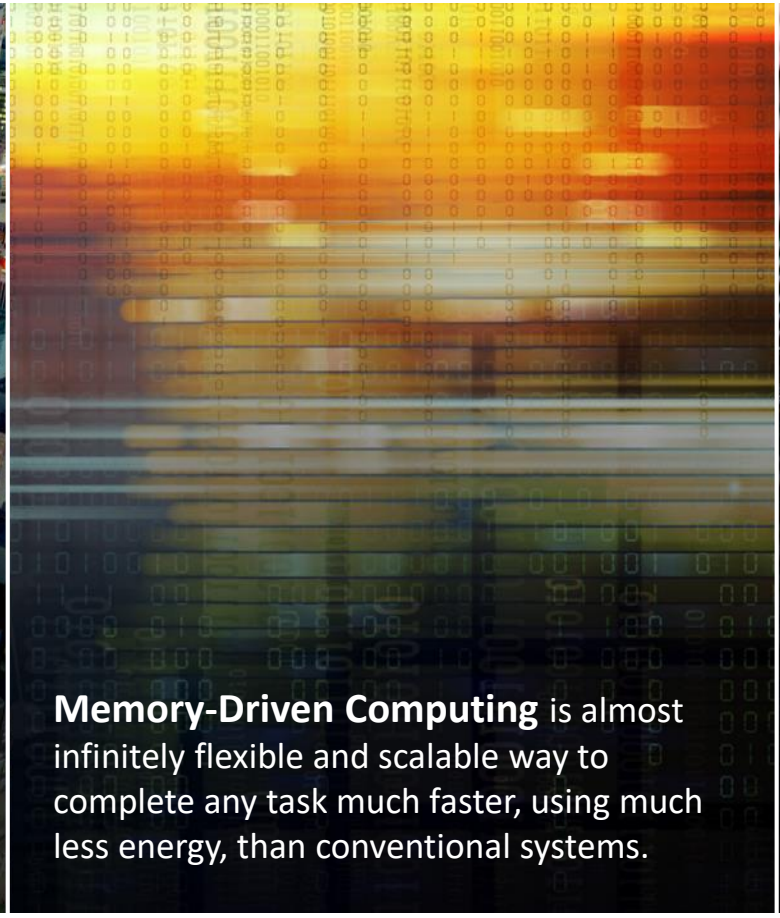


MEMORY-DRIVEN COMPUTING WILL POWER THE DATA-DRIVEN FUTURE

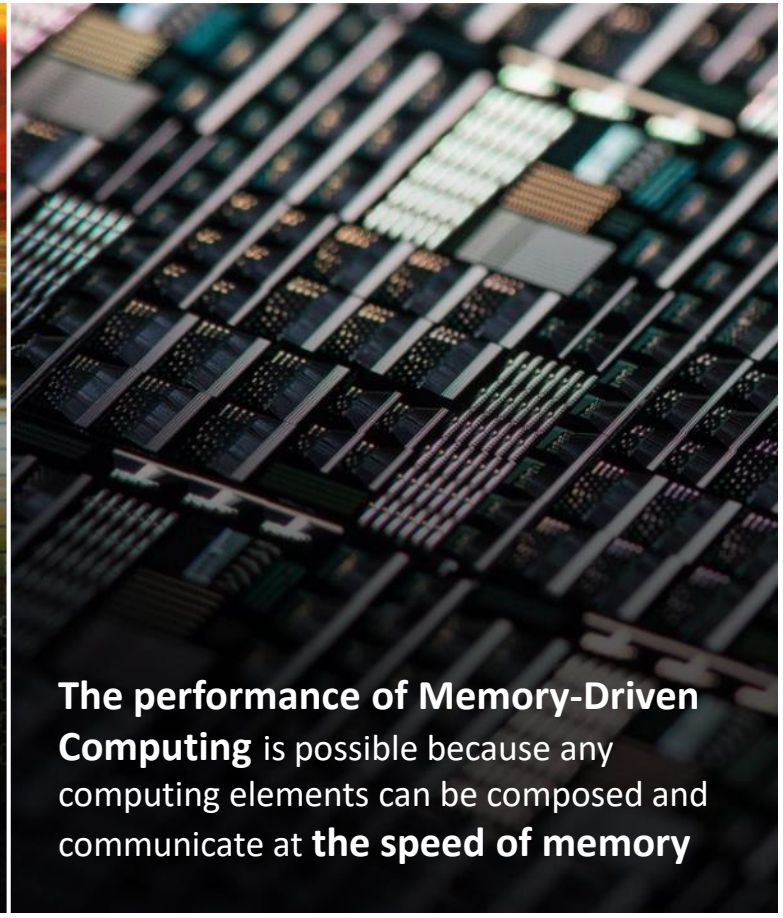


We're experiencing
an exponential increase in data and an explosion of sources.

We need new technology to bridge the widening gap between our goals and our capabilities.



Memory-Driven Computing is almost infinitely flexible and scalable way to complete any task much faster, using much less energy, than conventional systems.



The performance of Memory-Driven Computing is possible because any computing elements can be composed and communicate at **the speed of memory**

IF YOU THOUGHT YOU WERE HAVING TROUBLE KEEPING UP TODAY, IT'S ONLY GOING TO GET WORSE

Exponentially-increasing data **X** Exploding data sources **X** Shrinking time to action **=** Massive advances in computing power **needed everywhere**

But conventional compute improving only incrementally

Growing capability gap

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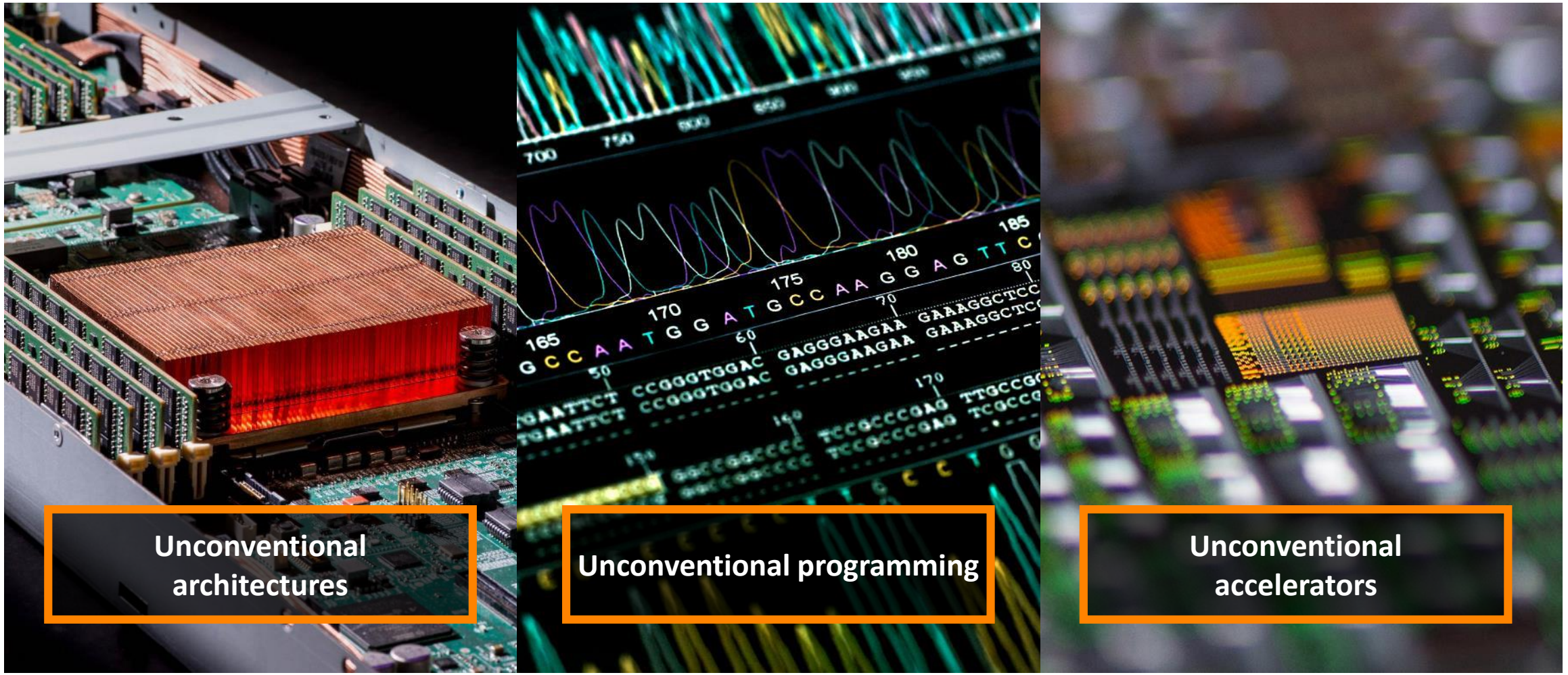
WE ARE RADICALLY RETHINKING OUR APPROACH TO COMPUTING

Advancing computing without relying on Moore's Law



How to get engaged

Begin the journey

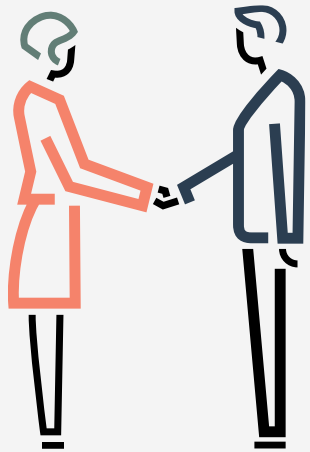
Do you want to know more about:

– Our AI CoE, adoption models and use cases

– Our pay-as-you-go consumption model with GreenLake

– Our industry solutions and partner ecosystem

Please contact us at iot-ams@hpe.com, and our experts will get back to you!



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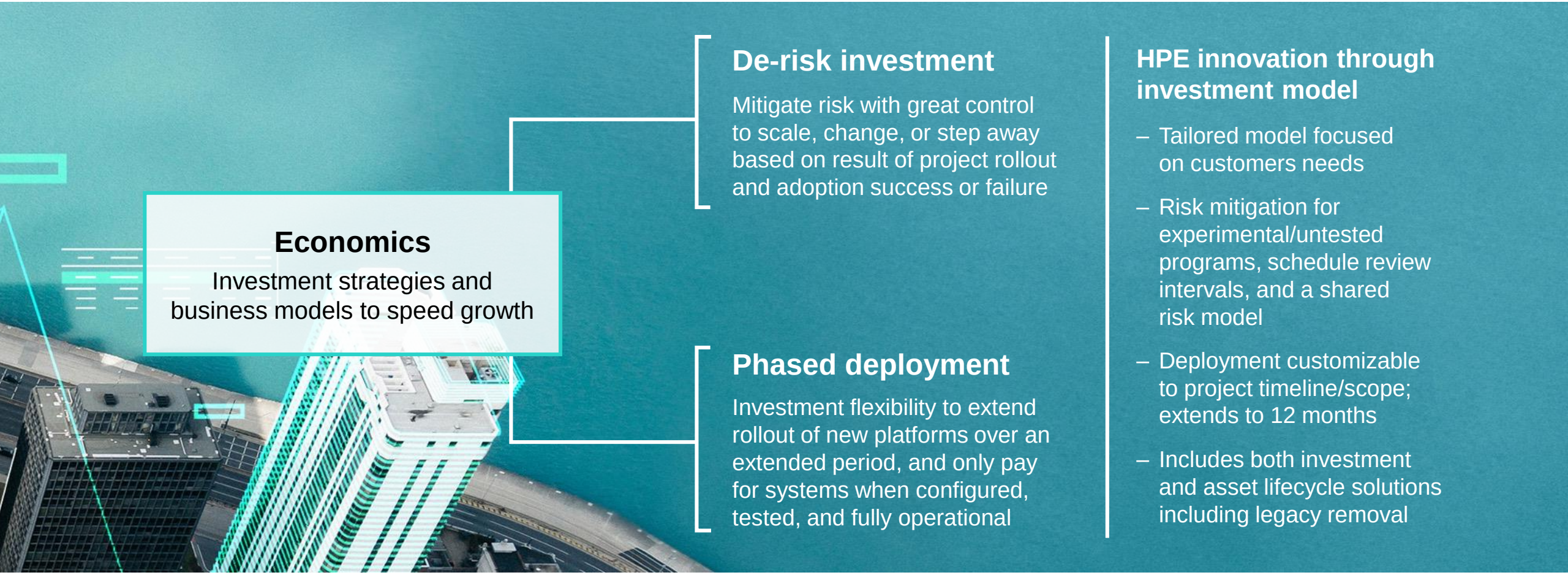
Make IT happen with HPE Pointnext

Clear economic hurdles

Engage HPE Financial Services



Economics

Investment strategies and business models to speed growth

De-risk investment

Mitigate risk with great control to scale, change, or step away based on result of project rollout and adoption success or failure

Phased deployment

Investment flexibility to extend rollout of new platforms over an extended period, and only pay for systems when configured, tested, and fully operational

HPE innovation through investment model

- Tailored model focused on customers needs
- Risk mitigation for experimental/untested programs, schedule review intervals, and a shared risk model
- Deployment customizable to project timeline/scope; extends to 12 months
- Includes both investment and asset lifecycle solutions including legacy removal

Thank you