

# HPE Edge to Cloud Solutions for SAS

End to end infrastructure for SAS, from Edge to Core/Cloud

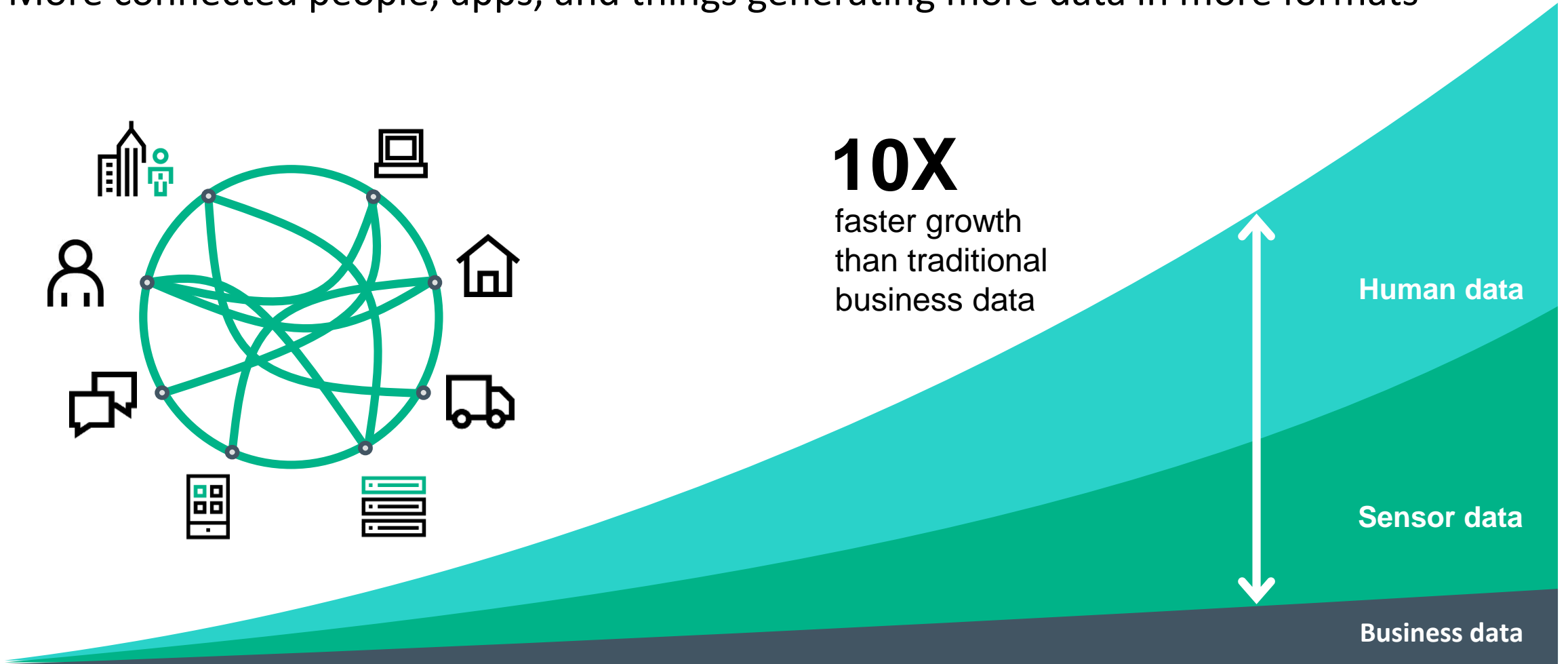
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Jude T Cruz, Senior Enterprise Architect



# Data fuels the transformation to digital enterprise

More connected people, apps, and things generating more data in more formats



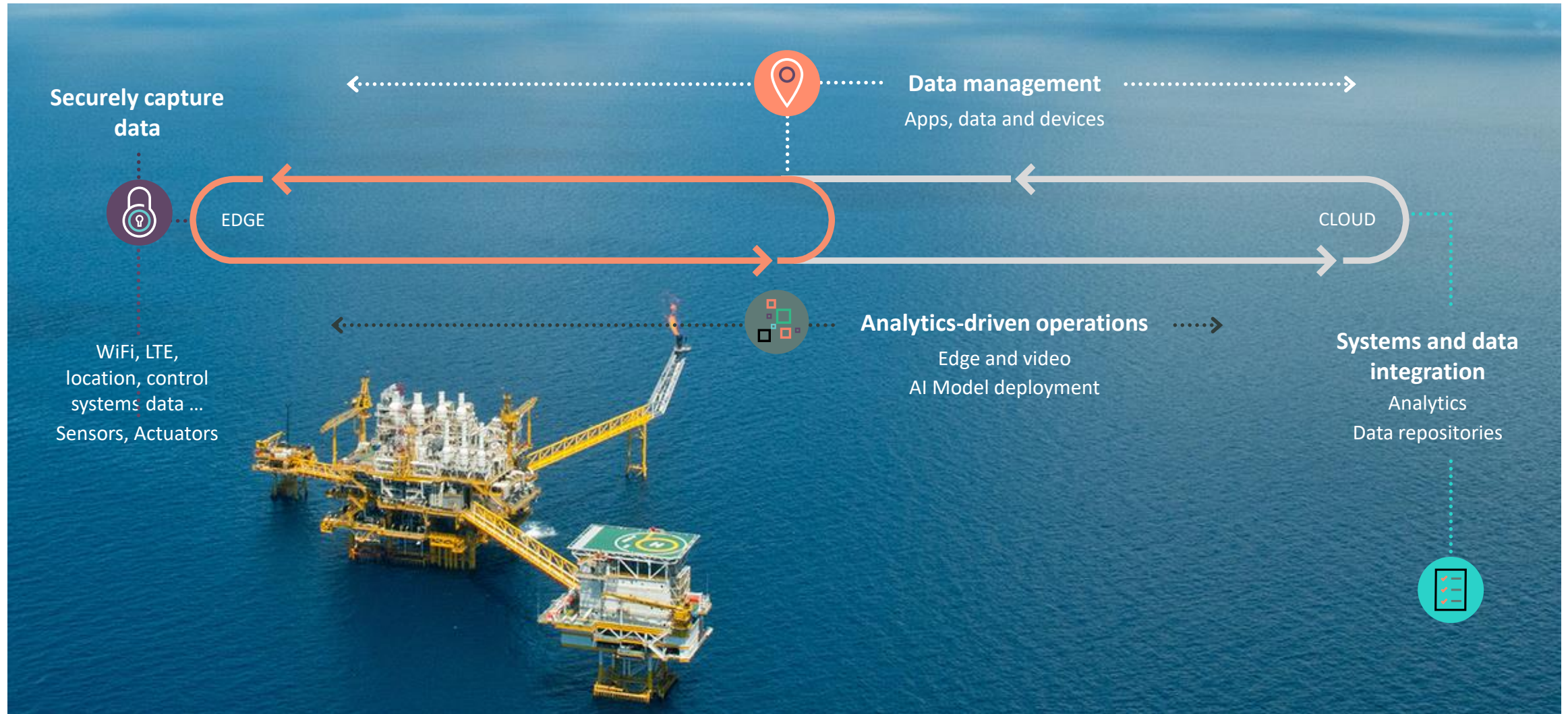


# Redefine experiences and create smarter operations



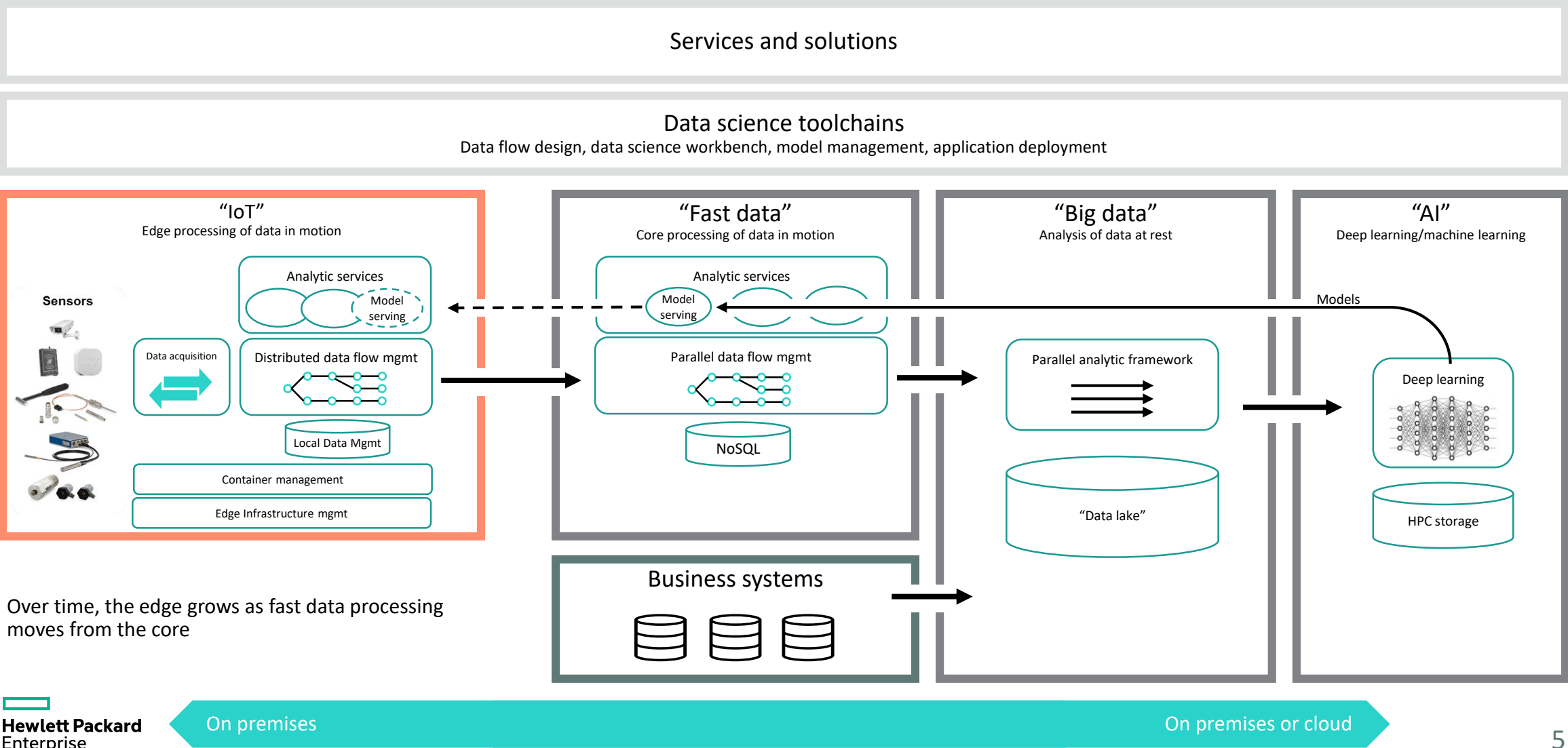


# How to drive smarter operations, everywhere



# An End to End Data Pipeline

## Functional view



# End to End Data Pipeline with SAS on HPE

**End to End Data Pipeline with SAS on HPE**

The diagram illustrates a comprehensive data pipeline architecture, categorized into four main processing stages, each supported by specific HPE hardware and SAS software components.

**“IoT Edge”** (Edge Processing of data in motion)

- Devices
- Stream Analytics (Edge)
- Machine Learning (Inference)
- SAS Event Stream Processing
- SAS Visual Data Mining/Machine Learning
- Data Routes
- Data Pond
- SAS Analytics for IoT
- Edgecenter

**“Streaming Analytics”** (Core Processing of data in motion)

- SAS Event Stream Processing

**“Big Data”** (Analysis of data at rest)

- Hadoop Data Lake
- SAS High Performance In-Database Analytics
- Other Commercial DB
- SAS Viya Advanced Analytics Platform
- SAS Data Connector
- SAS Datasets
- Data Lake Analytics

**“AI”** (Deep Learning/Machine Learning)

- SAS Viya Deep Learning/AI Visual Data Mining/Machine Learning
- Deep Learning
- New Models
- Machine Learning

**“Storage & Databases”**

- Commercial DataBases
- Blob Storage
- HDFS
- Object
- S3
- Hadoop

**“Business Systems”**

- ERP
- CRM
- SCM
- BI
- Mail
- HR

**“Visualization”**

- SAS Viya Visual Analytics

**Additional Data Sources**

- Web site – Clickstreams, logs
- Social Media – Twitter, FB, Google
- External – Govt, Mktg, Financial, Supplier

**HPE Hardware Components:**

- HPE Synergy
- HPE Apollo 2000 Gen10 (Compute-optimized)
- HPE Synergy (GPU-Accelerated)
- HPE Apollo 6500 (Gen 10) (GPU-Accelerated)
- MCS/HC
- 3PAR
- Nimble
- InfoSight Predictive Analytics
- HPE Apollo (Storage-optimized)
- SCALITY

**SAS Software Components:**

- SAS Analytics for IoT
- SAS Event Stream Processing
- SAS Visual Data Mining/Machine Learning
- SAS High Performance In-Database Analytics
- SAS Viya Advanced Analytics Platform
- SAS Data Connector
- SAS Viya Deep Learning/AI Visual Data Mining/Machine Learning
- SAS Viya Visual Analytics

**Legend:**

- Green line: SAS
- Blue line: HPE

**Hewlett Packard Enterprise**

MCS/HC

### 3PAR

## Nimble



**HPE Apollo  
(Storage-optimized)**



## Partners for more than 32 years

- SAS & HPE have been alliance partners since 1986
  - HPE is a Platinum SAS Partner
  - SAS is a key member of the HPE AllianceOne program
- We are also key customers of one another
- SAS & HPE enjoy a close R&D relationship
- SSA works with the SAS EEC to provide Solution Designs with tailored HPE Servers, Storage, and Networking
- Post Sales performance issues jointly handled by HPE and SAS
- Over the last 32 years, SAS and HPE have satisfied the decision support requirements of over 10,000 joint customers



**Hewlett Packard**  
Enterprise





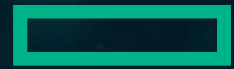
# Together with our partners, we help you drive smarter operations

## Technology Partners

## System Integrators







**Hewlett Packard**  
**Enterprise**

**Thank you**

