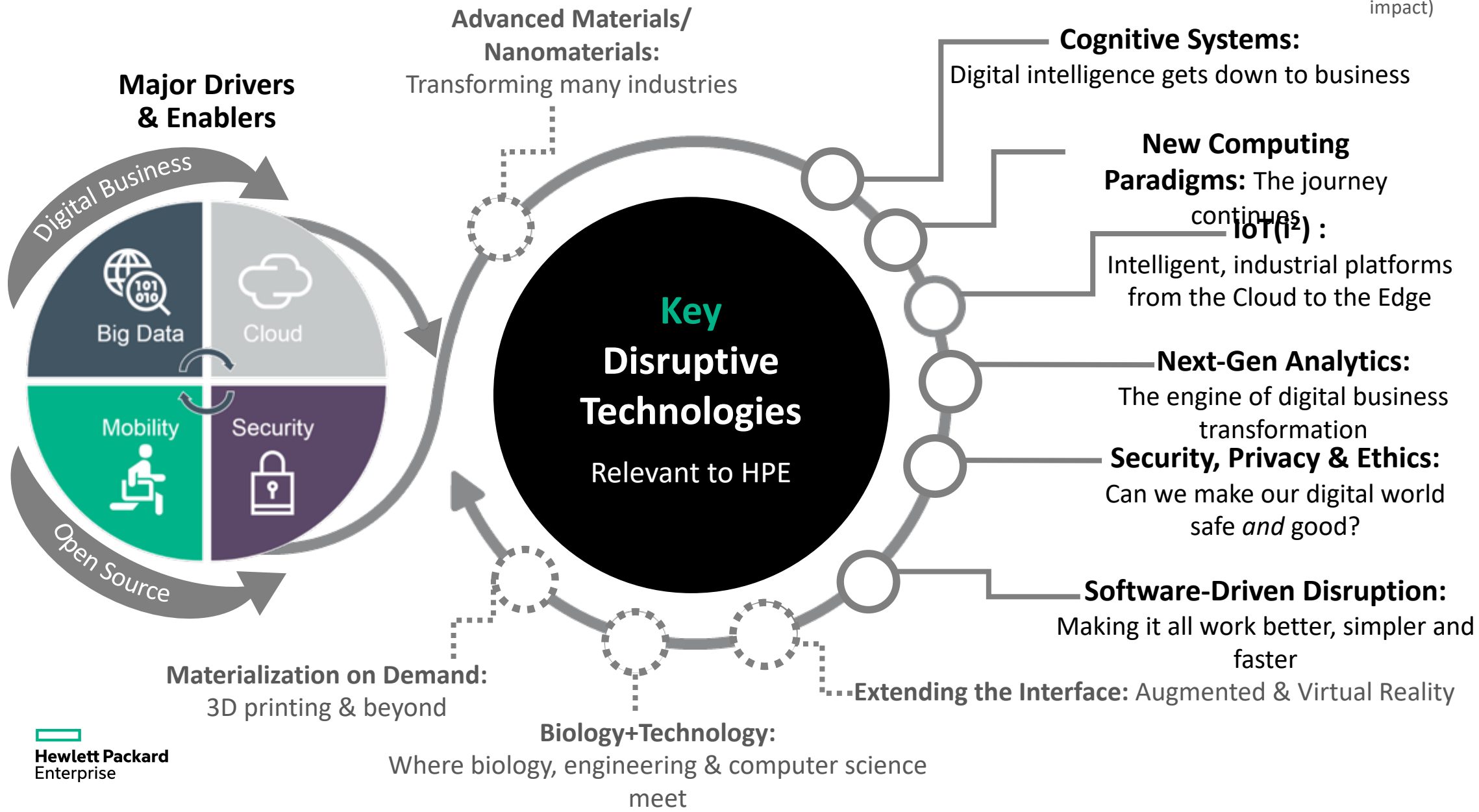
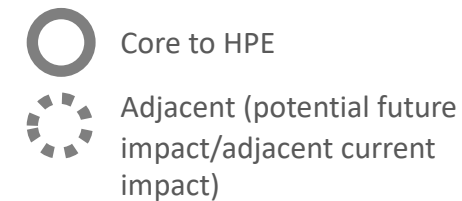


**Hewlett Packard
Enterprise**

Datacenter challenges: Explosion of data... what solutions?

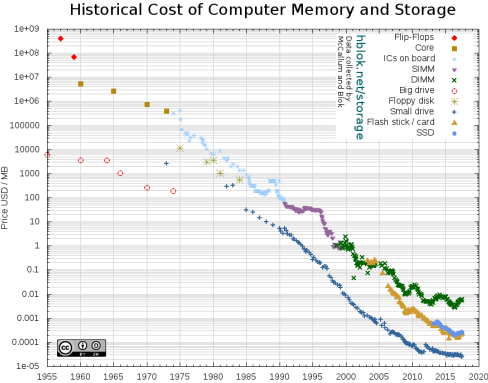
Gallig Renaud – Distinguished Technologist

Key disruptive technologies 2019

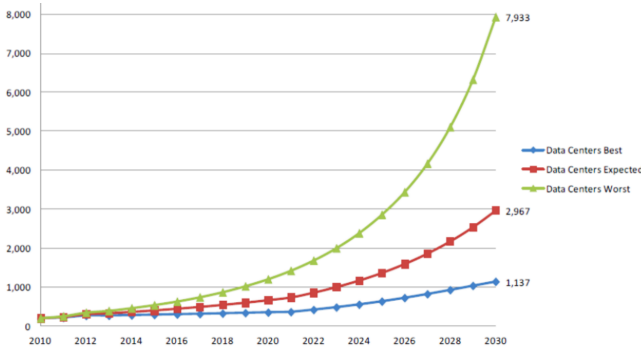


Challenges for exponential IT

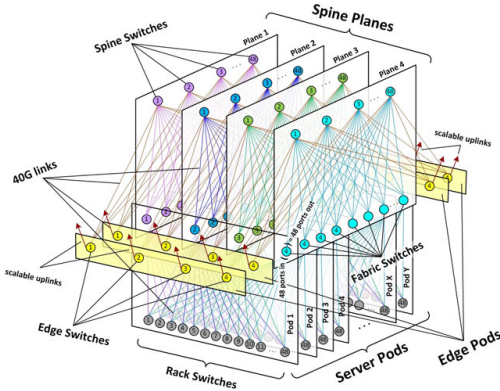
Economy



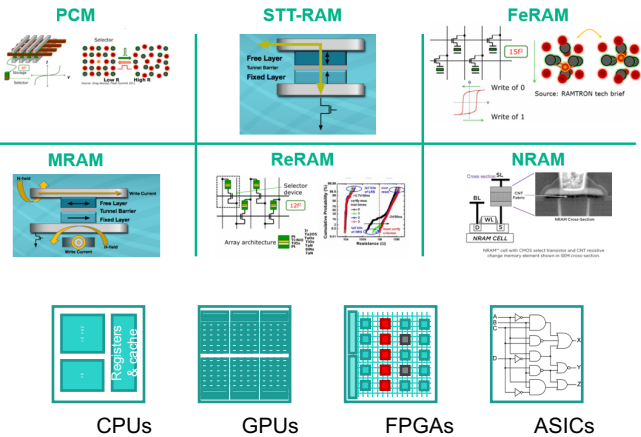
Energy



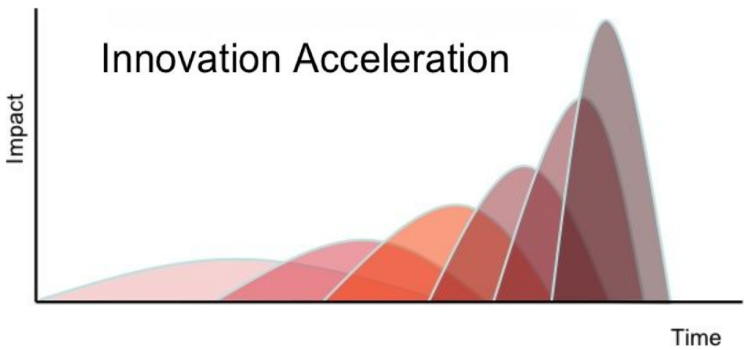
Complexity



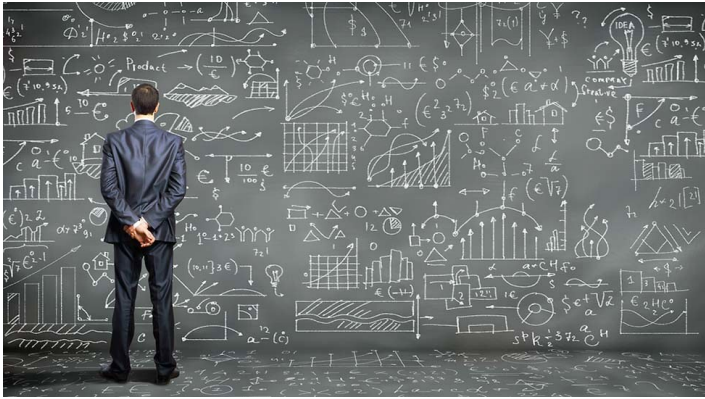
Disruptions



Speed

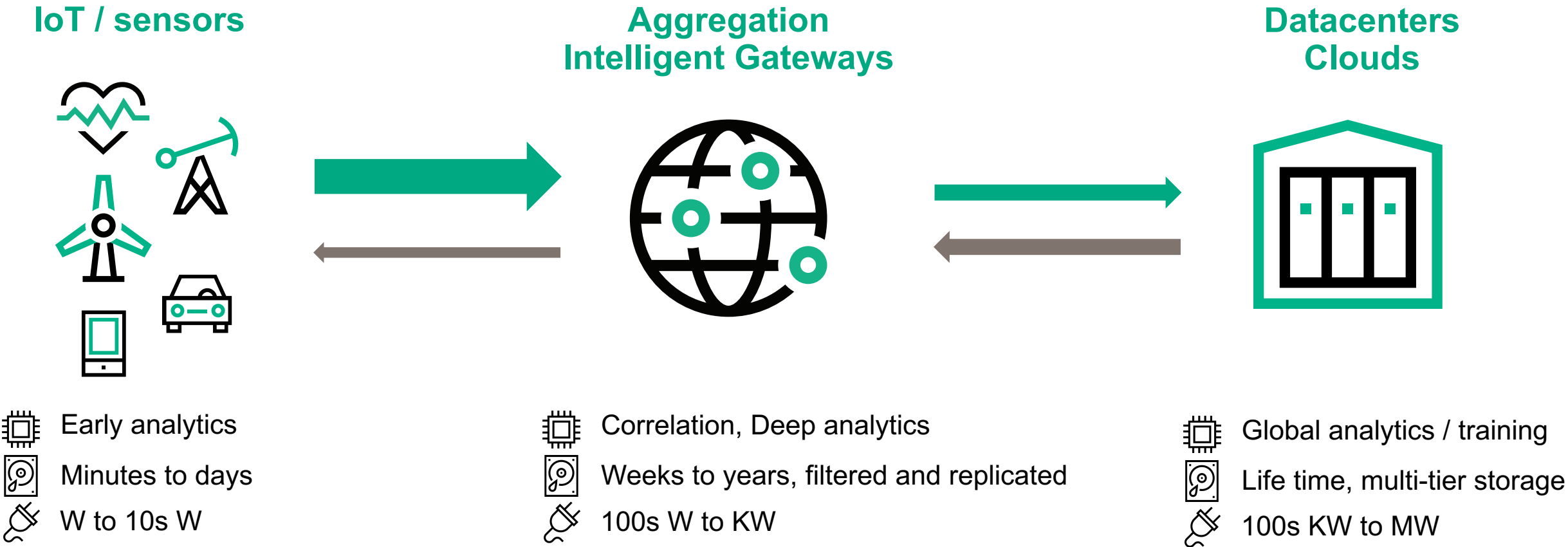


Expertise



Compute and Storage Continuum

Decentralized architecture



Optimizing data flows

Multi-tier storage

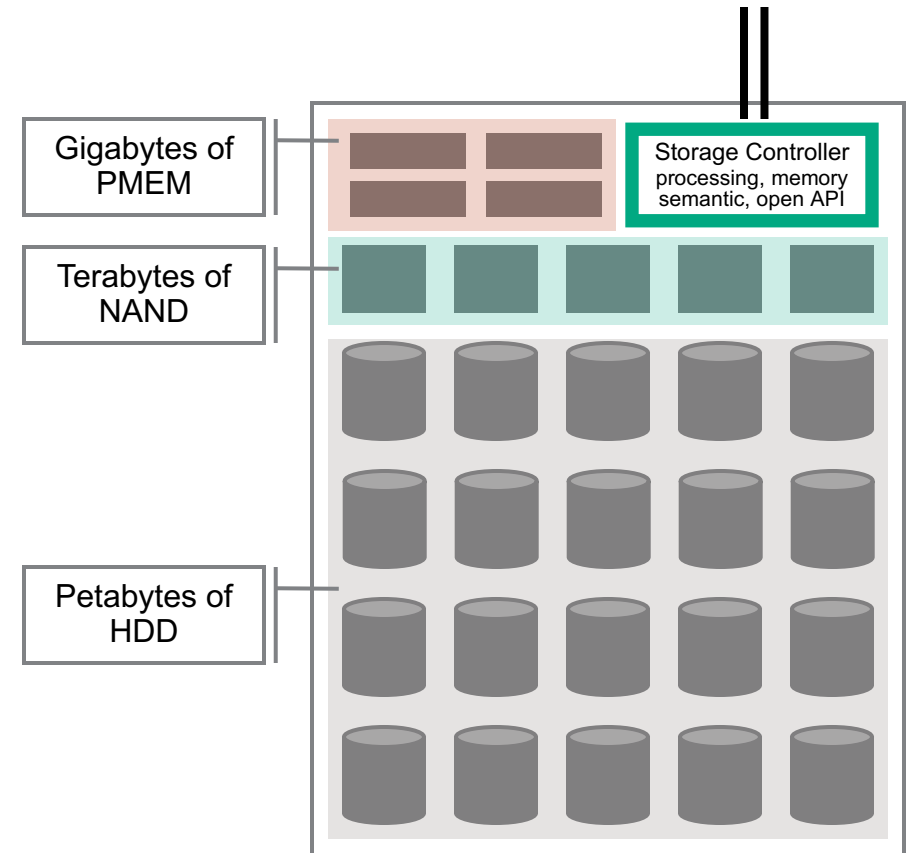
- Data Lake of cheap storage (erasure, replication)
- Flash Tier / Burst Buffer
- Off-line storage / archiving
- Persistent Memory

Data orchestration

- Moving data based on size, performance requirement, location, topology and protocols
- Requires perfect understanding of data, network and processing (code instrumentation)
- Adaptive rules embedded into enterprise scheduler and high-performance schedulers
- APIs and libraries are key to success

In memory processing

- Ultimate solution to avoid moving data: send operations to the memory

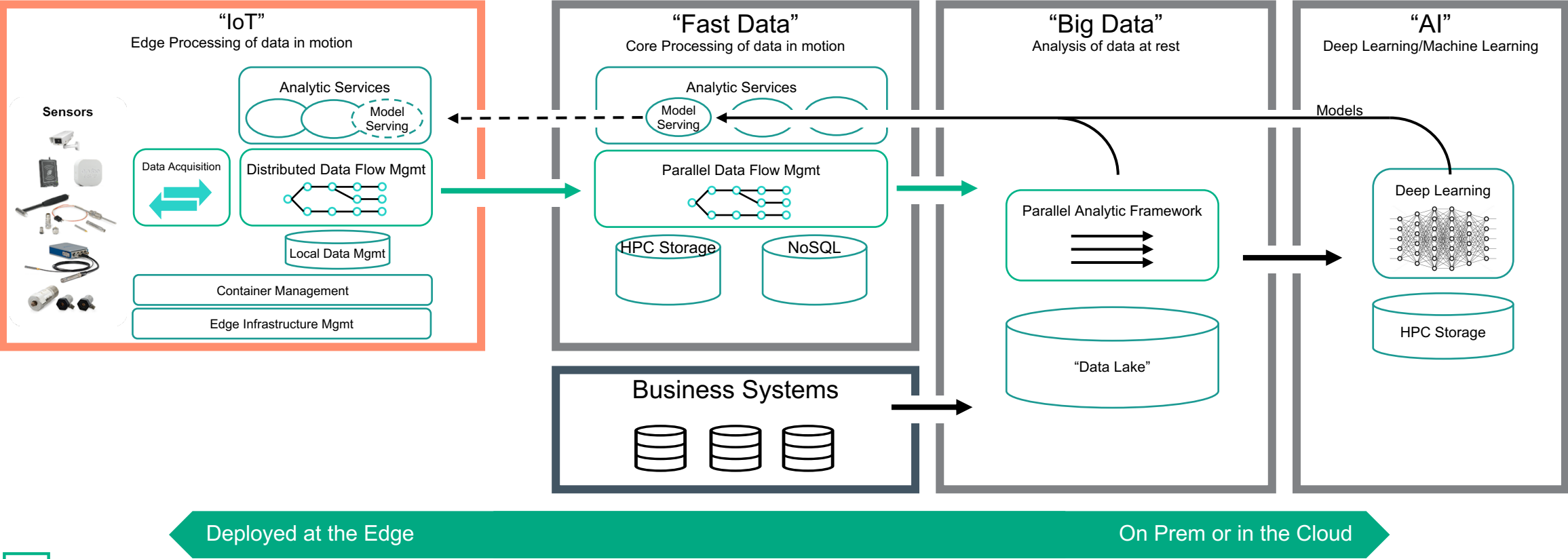


Compute and Storage Continuum applied to IoT and AI

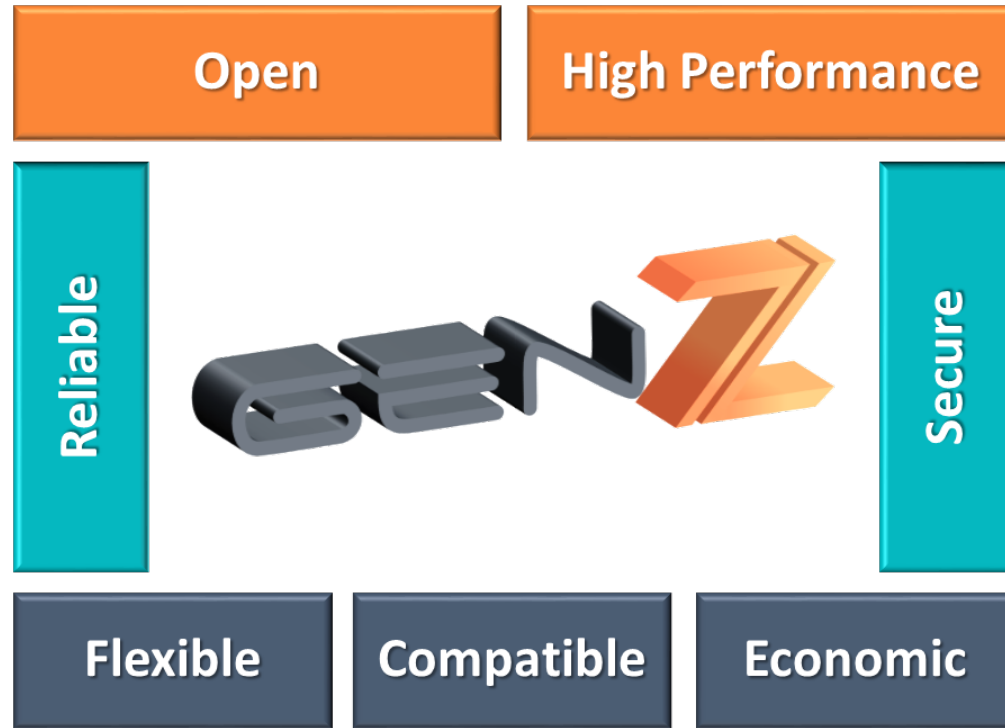
Services and Solutions

Data Science Toolchains

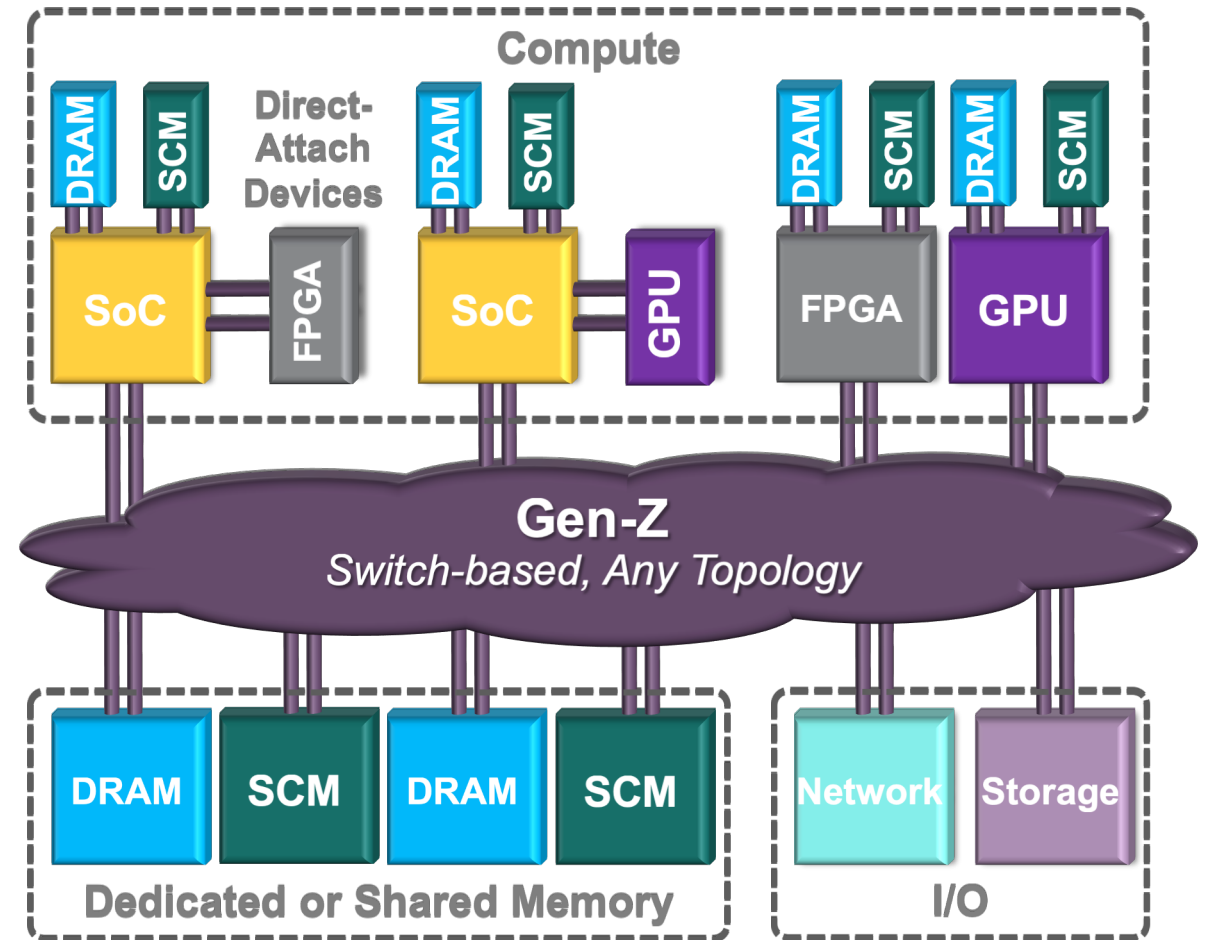
Data Flow Design, Data Science Workbench, Model Management, Application Deployment



Gen-Z: The new way to architecture solutions



<https://genzconsortium.org>





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Thank you