



New Applications for High Performance Networking

HPC for Wall Street

April 2017

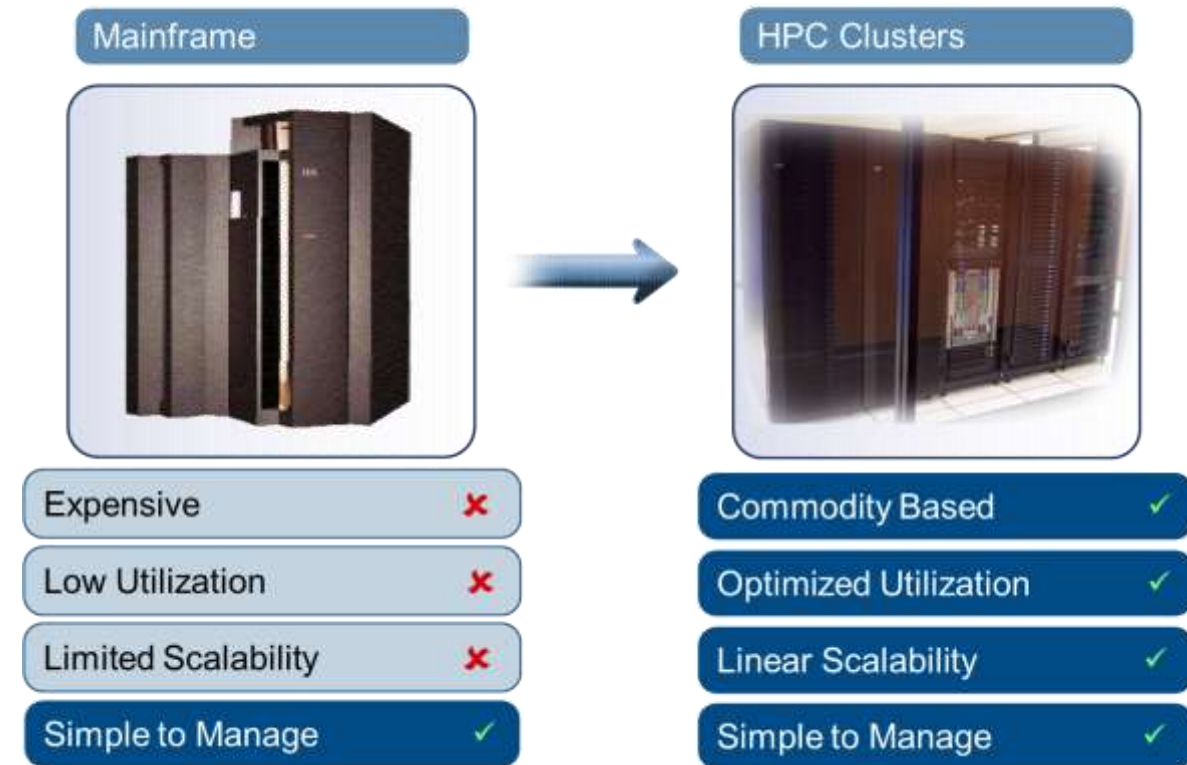
 **Mellanox**
TECHNOLOGIES
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Defining High Performance Networking

- Breaking up the mainframe into the HPC Cluster, while maintaining linear scalability required:

- Highest throughput
 - Matching CPU interface (PCI)
- Lowest Latency
 - The lower the better
- Hardware Based Protocol Offload and RDMA
 - Enabling minimal CPU involvement
- Scalable routing topologies
 - Eliminating oversubscription bottlenecks
- Lossless fabric
 - Minimize impact of re-transmissions

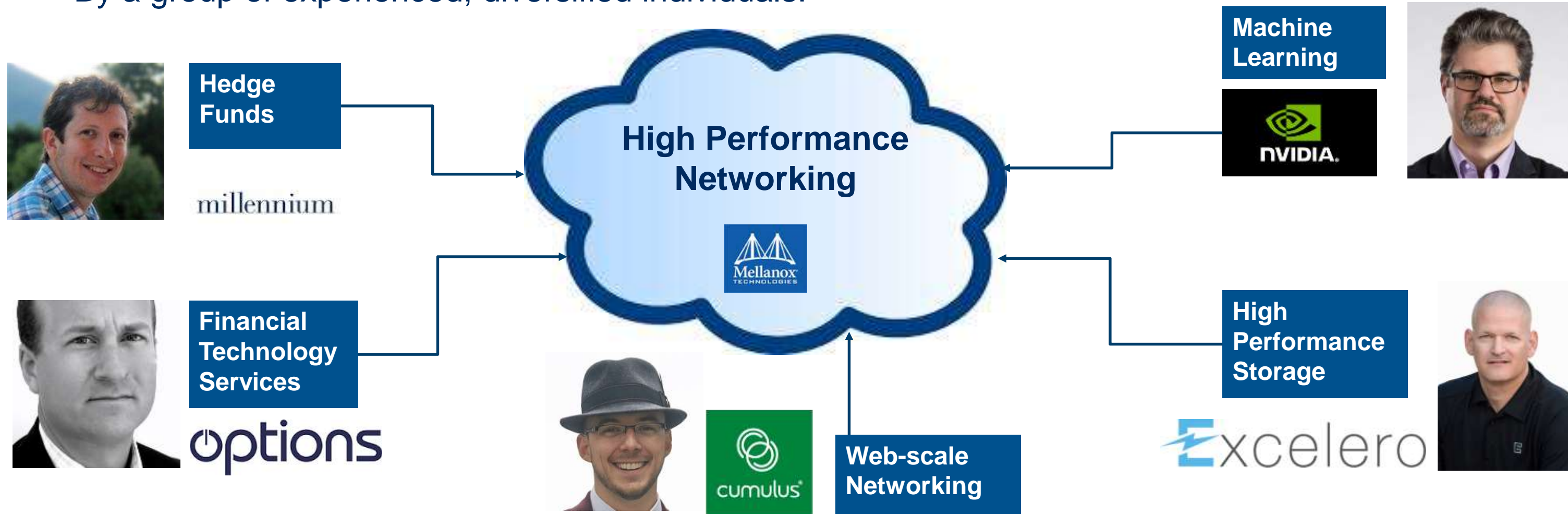
- Various subsets of these capabilities continue to enable new HPC applications today



New Applications for High Performance Networking



- This panel will attempt to answer the following questions:
 - Who/Where/Why is using high performance networking on Wall Street?
 - What key applications is it enabling?
 - What are some of the challenges they face or tradeoffs they need to make?
- By a group of experienced, diversified individuals:





Thank You