



FUNGIBLE



OUR GOAL:

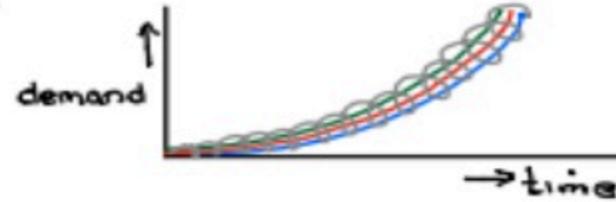
Revolutionize the *Performance*, *Reliability*, and *Economics* of all Data Centers

FUNDAMENTAL BELIEFS:

- **Human progress** \propto Information technology
-

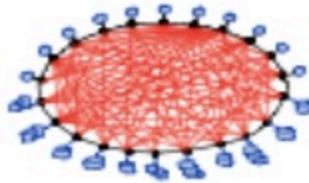
- **Insatiable** demand for:

- Compute
- Storage
- Networking



- **AI** will drive the compute model
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- **Scale-out** will be the dominant architecture



Network is key

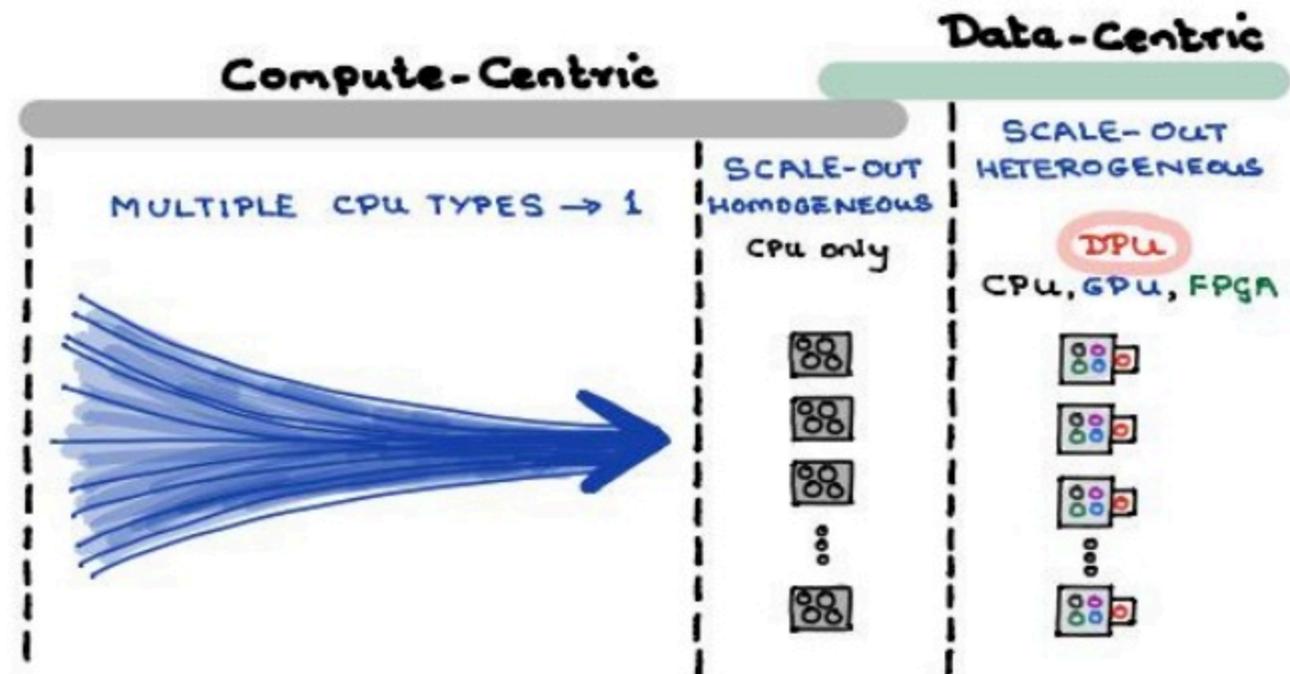
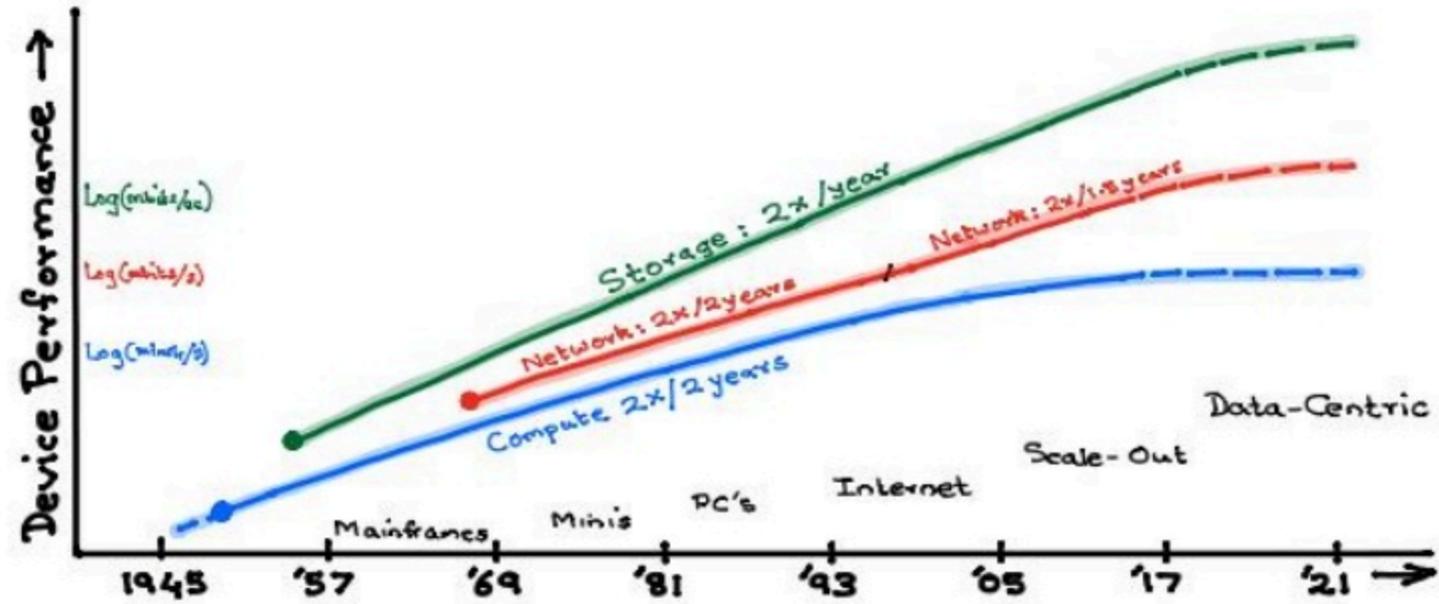


- **Cloud** will be the dominant delivery model

- Agility
 - Economics
-

KEY INDUSTRY TRENDS:

- Moore's law plateaus
- Hyper connectivity is pervasive
- Apps become increasingly Data Centric (AI, Analytics)
- Security threats accelerate



FUNDAMENTAL INDUSTRY NEED FOR DPU

→ Modern applications: increasingly data-centric
Data centers: largely compute-centric

Data-Centric \triangleq

- workload arrives as packets
- client requests intermingled
- computation is stateful
- I/O dominates arithmetic

→ **Data Processing Unit (DPU)** is programmable silicon that:

- Executes data-centric workloads much more efficiently
- Enables disaggregation and pooling of compute and storage at scale

→ DPU represents **new class of microprocessor** focused on data-centric workloads

→ DPU will impact all levels of cloud infrastructure:

- Server
- D.C. Building
- Global

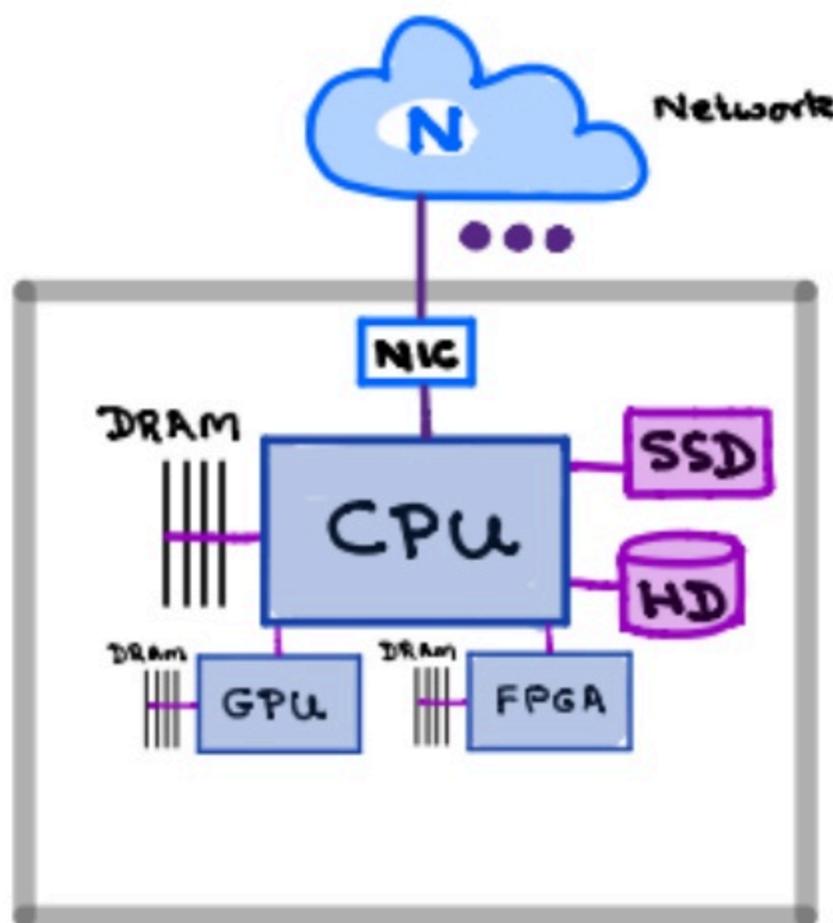
SERVER IMPACT

90% of servers in 5 years

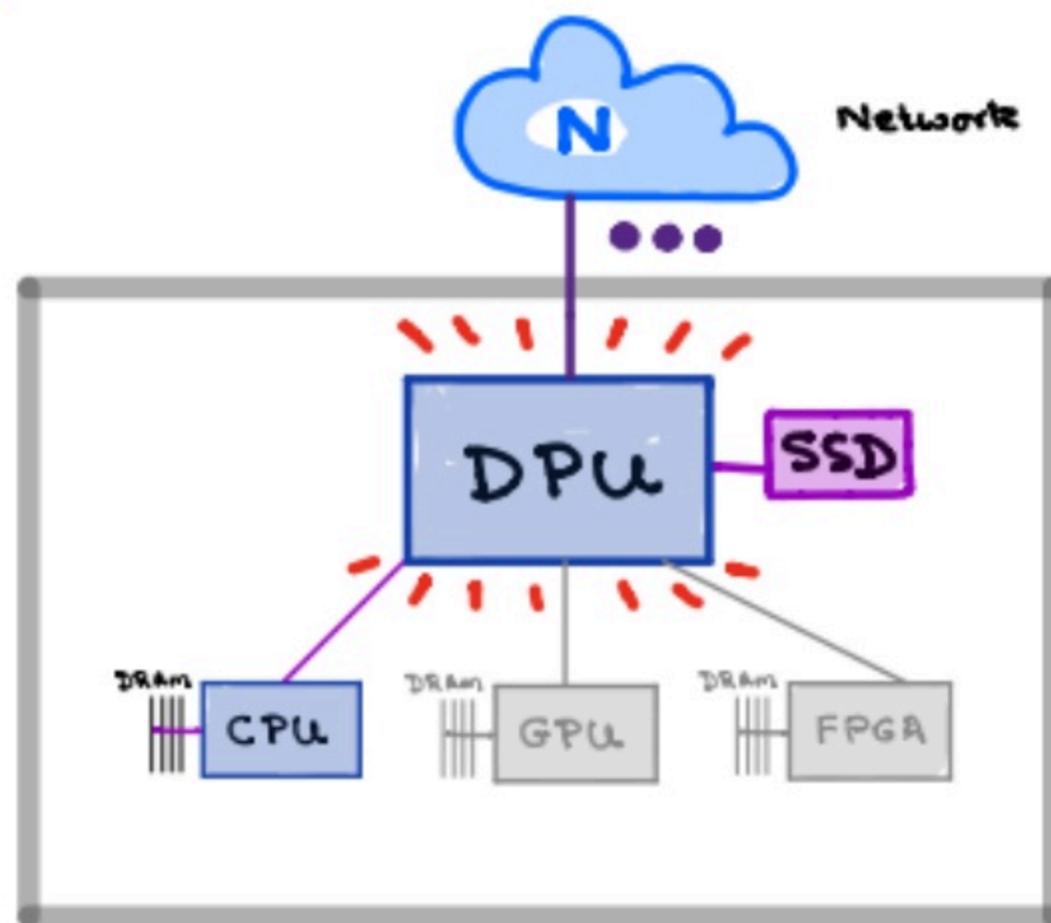
Compute Centric



Data Centric



CPU: Apps + Traffic cop
GPU, FPGA: Applications



DPU: Data Centric Workload
CPU, GPU, FPGA: Applications

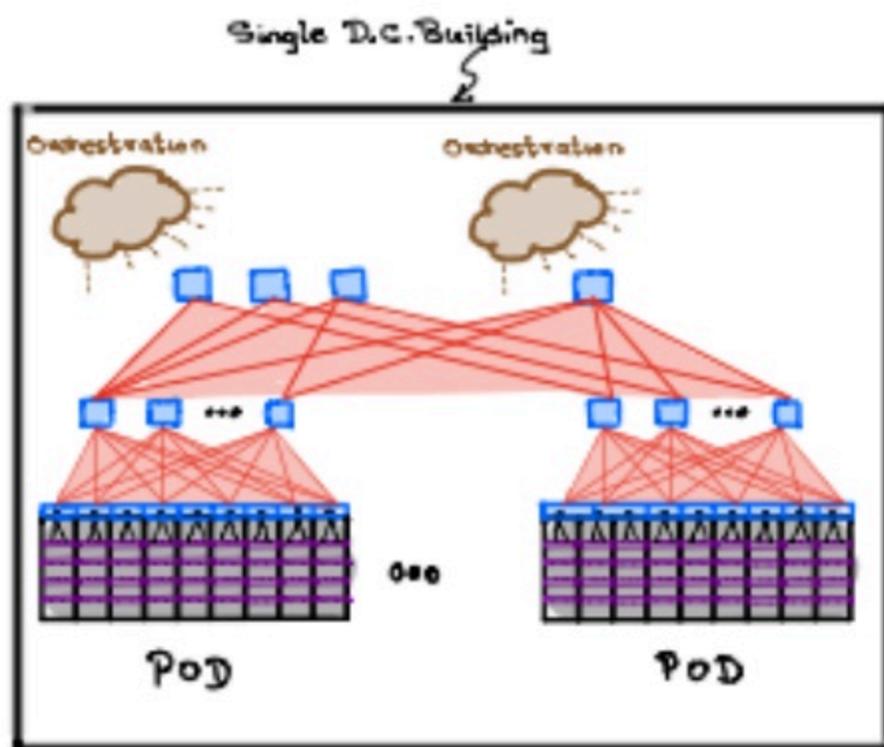
DATA CENTER IMPACT

90% of buildings in 5 years

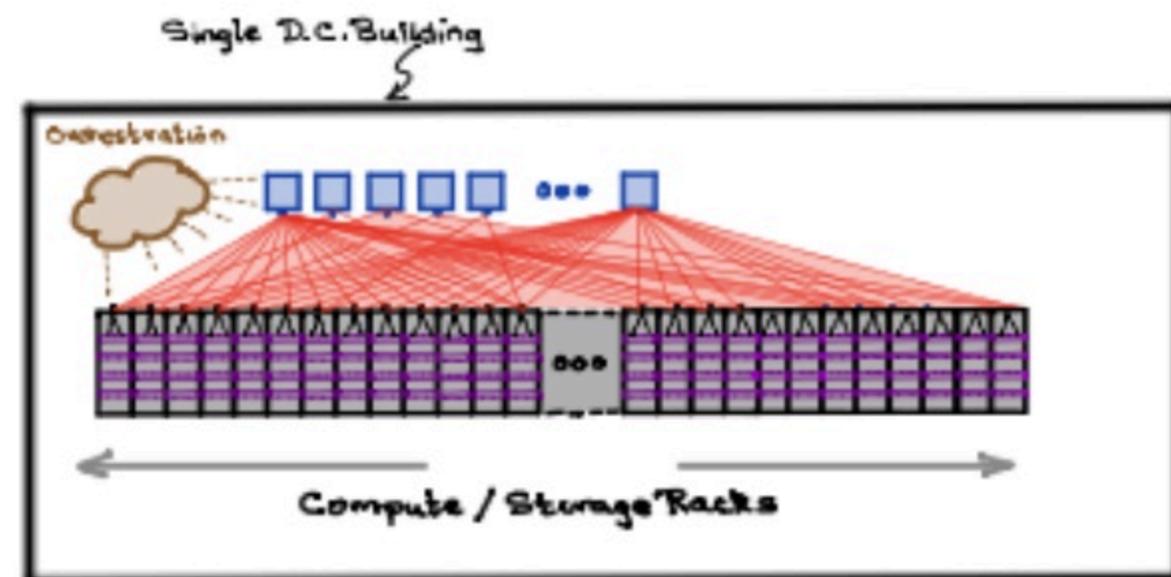
Complex multi-tier network



Simple flat fabric



Multi-tier, inefficient, expensive
slow



Flat, efficient, fast:
Supports Resource Pooling at large Scale

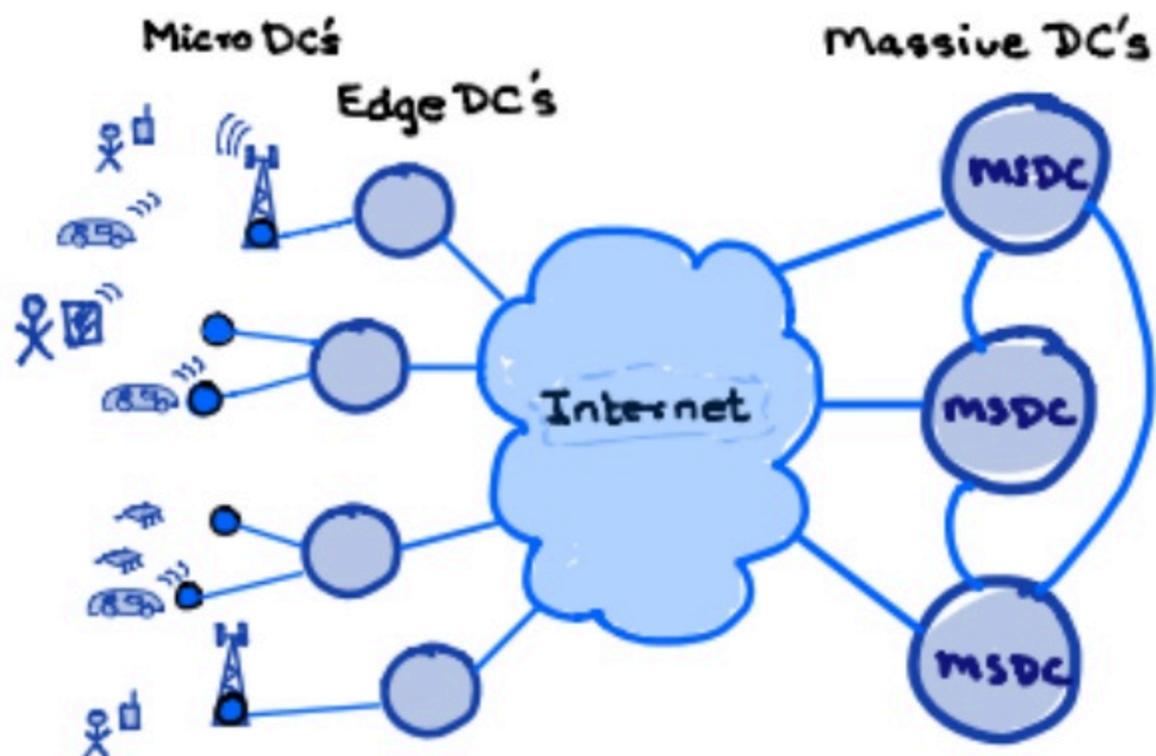
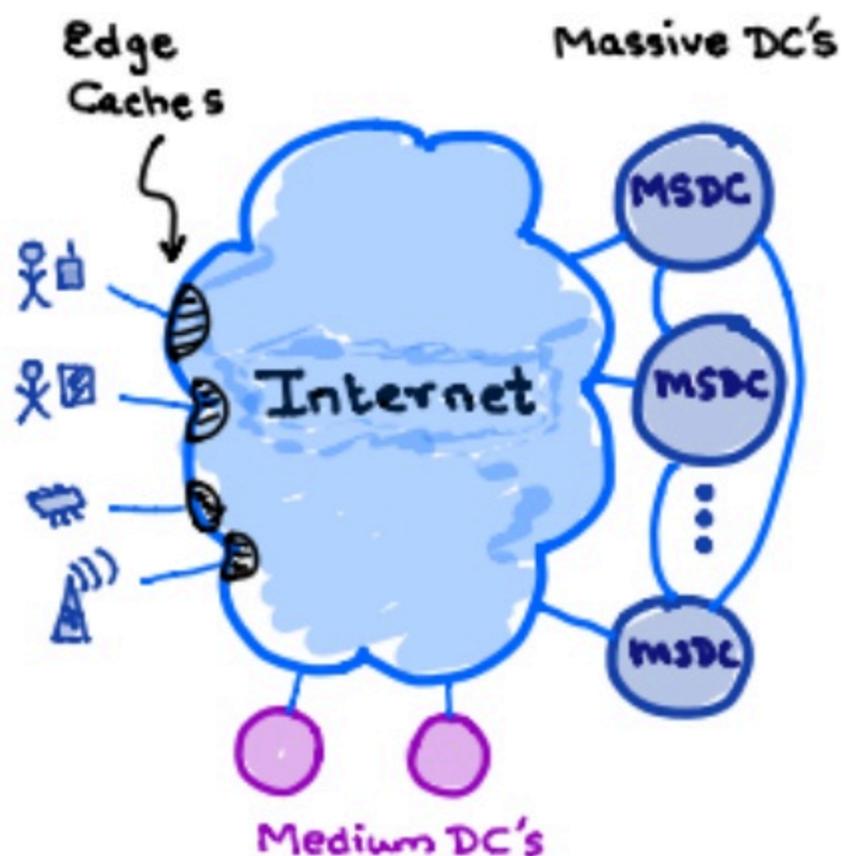
GLOBAL IMPACT

90% of regions in 5 years

Centralized



Hybrid



- Lower latency – AR, SaaS, GAMING
- Lower cost
- Better security & durability
- Data Sovereignty

SUMMARY:

- Fundamental new technology for a data-centric world
- Fully programmable DPU is a new class of microprocessor
 - + Performs data centric computations much more efficiently
 - + Enables disaggregation and pooling at scale
- Breakthrough benefits in:
 - Economics
 - Security
 - Reliability
 - Performance
 - Agility } Across all data centers
- Will enable Cloud Providers to leapfrog competition
- Designed for ease of insertion
 - No changes in Application code
 - No changes to network
 - No changes to server design

THANK YOU!



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