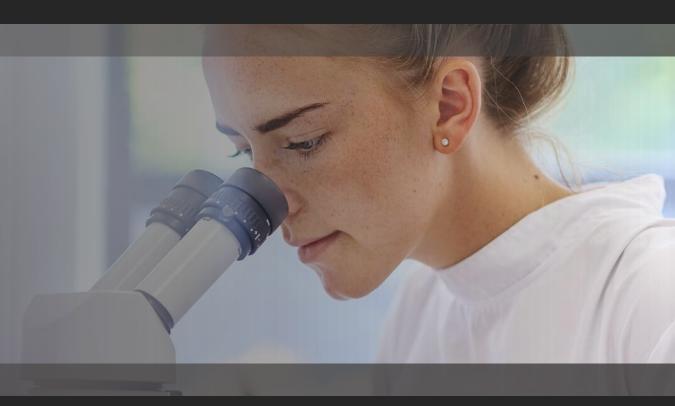
TNC19 – Cloud @ Microsoft

Brad TippDirector Higher Education Research

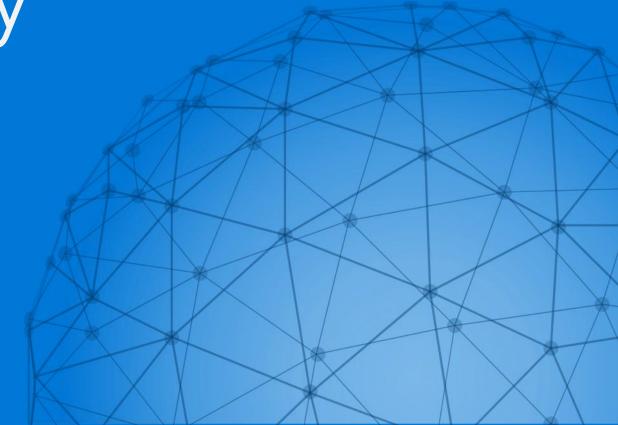
Microsoft Corp bradleyt@Microsoft.com

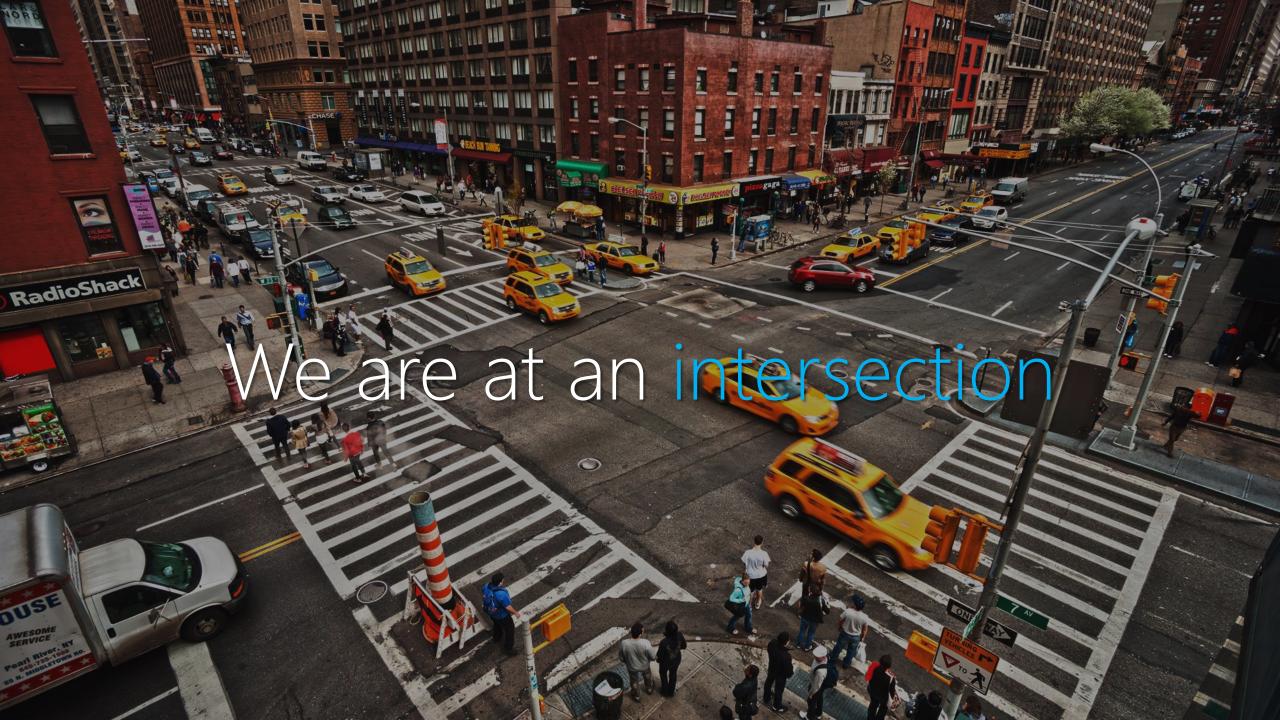




"No Cloud Strategy" is... not a Strategy

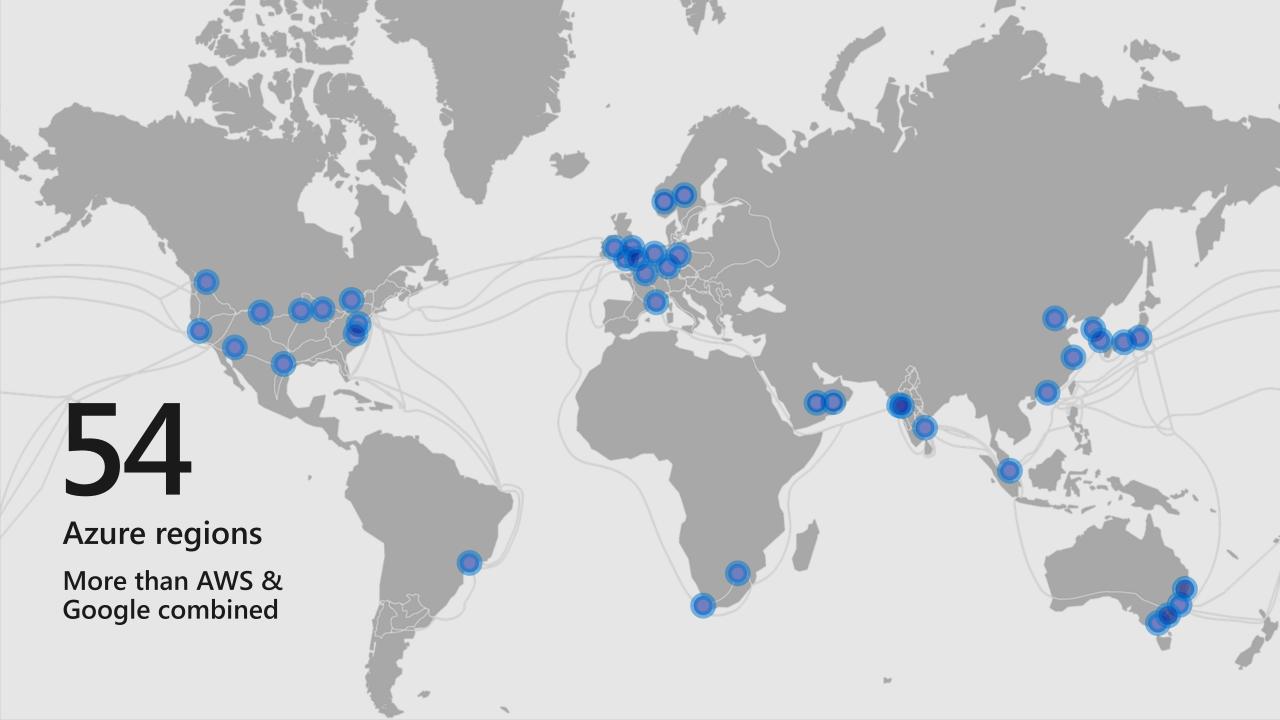
June 2012











Inside the Data Center



Entry Level VMs

Dev/Test Workloads



General Purpose VMs

Common Applications, Web servers etc



Compute Optimized VMs

Gaming, Analytics

Infiniband



Large Memory VMs

Large Databases



>80,000 IOPs Premium Storage

Low latency, high throughput apps



Storage optimized VMs

No SQL Databases (Cassandra, MongoDB), Data warehousing



High Performance VMs

Batch processing, fluid dynamics, monte carlo simulation



GPU-enabled VMs

NV -Graphic based applications NC2 – Advanced Sim (P100-X) ND1 – AI Inferencing (P40)

ND2* – AI Training (V100/V100 SXM)



FPGA*

Virtual Machines – HPC FPGA Microservices – AI/Edge



Cray Services in Azure

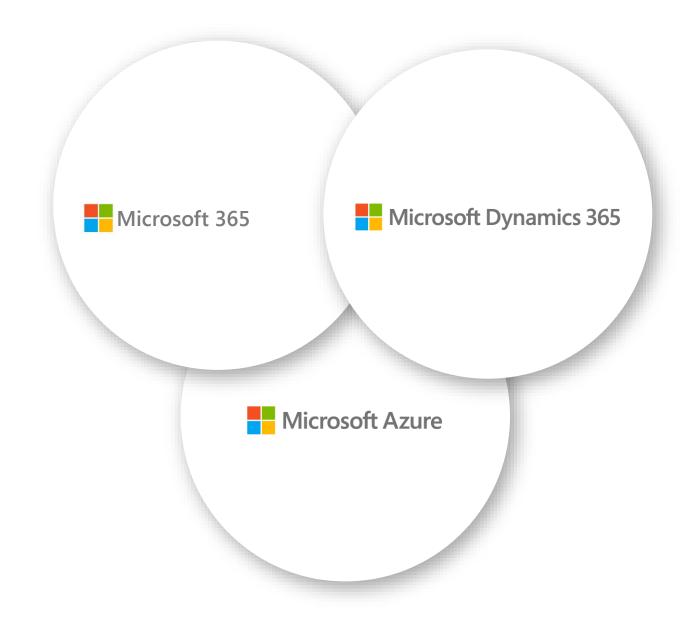
IB Connected CPU/GPU/Storage available in cloud

Microsoft cloud

Intelligent business applications

Productivity and collaboration

Open, flexible, enterprise-grade cloud computing platform



Azure is an open cloud

DevOps











Clients









Management





















Applications







PaaS and DevOps











App frameworks and tools















Databases and middleware

















Infrastructure









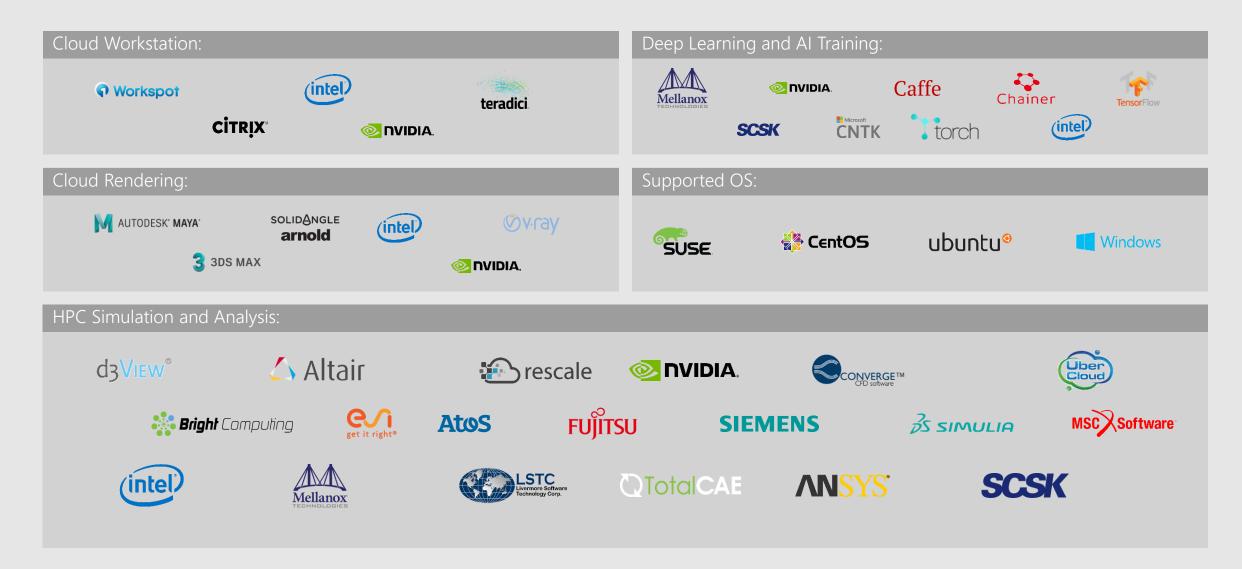








Supported applications, solvers, services, platforms, and frameworks



Azure: Trusted

India

MeitY

Canada

Privacy Laws

Privacy

Shield

Germany IT

Grundschutz workbook

cloud csA security Global SOC SOC ISO SOC 1 SOC 2 CSA STAR **CSA STAR** ISO ISO ISO SOC 3 CSA STAR 27001 27018 27017 22301 Type 2 Type 2 Self-Assessment Certification Attestation gov NST 劉IRS **FedRAMP FedRAMP** S High DoD DISA SP 800-171 FIPS 140-2 ITAR CJIS Moderate DoD DISA Section IRS 1075 JAB P-ATO JAB P-ATO SRG Level 2 SRG Level 4 **508 VPAT** Industry **HITRUST** NHS *FIFTEC SHARED ASSESSMENTS FIEC FACT CMS PCI DSS CDSA HIPAA GxP 21 CFR MARS-E **FERPA GLBA MPAA FACT** Shared FISC **HITRUST IG Toolkit** FFIEC Level 1 UK Assessments Japan /HITECH Act Part 11 UK (B) TRUES irap _ens_ IDA INFOCOMIM
DEVELOPMENT
AUTHORITY OF
SINGAPORE * enisa GOV.UK Regional EU UK China China China Singapore Australia **New Zealand ENISA** Argentina Japan My Japan CS Spain Spain PDPA **Model Clauses** G-Cloud DJCP GB 18030 TRUCS MTCS IRAP/CCSL GCIO Number Act Mark Gold ENS DPA

"No AI Strategy" is... not a Strategy

June 2019





