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tech
event

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Building Your Cloud Strategy

Henk van de Crommert,
Cloud Solution Architect

A decade ago

Cloud Attributes



Pooled
Resources



Self-Service



Elastic

Usage-based

Transform the Datacenter

45%

of total IT spend will be cloud-related by 2020*

74%

of enterprises expect their cloud service provider to move cloud offerings back on-premises if needed**

80%

of the world's 2,000 largest companies will have more than 50% of their IT onsite by 2020**

* Forrester: "Prepare For 2020: Transform Your IT Infrastructure & Operations Practice, Oct. 24, 2012

** IDC: "Successful Cloud Partners: Higher, Faster, Stronger," IDC InfoDoc, July 8, 2013

Cloud Types

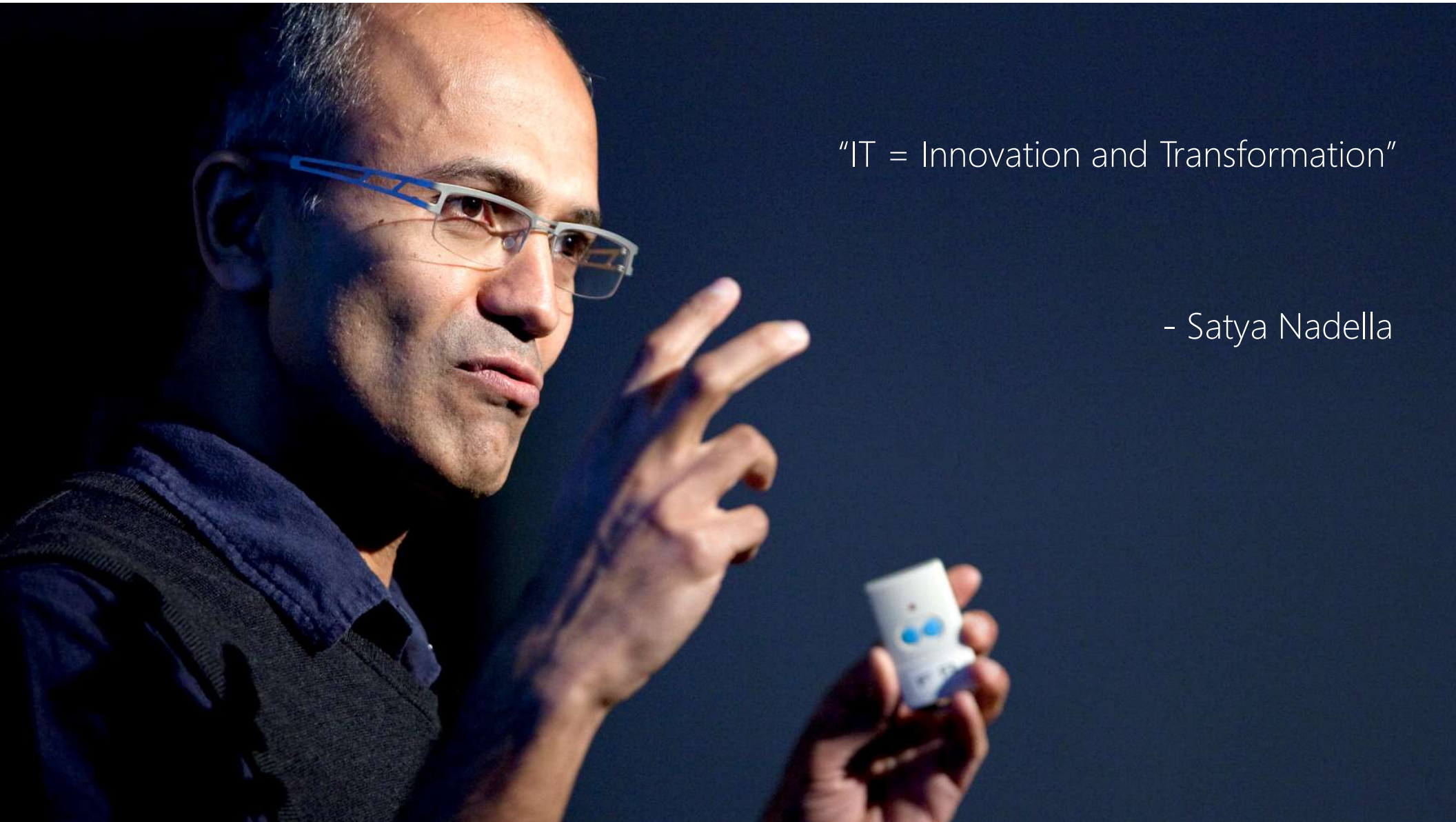
Private Cloud

Public Cloud

Service Provider
Cloud

Hybrid Cloud

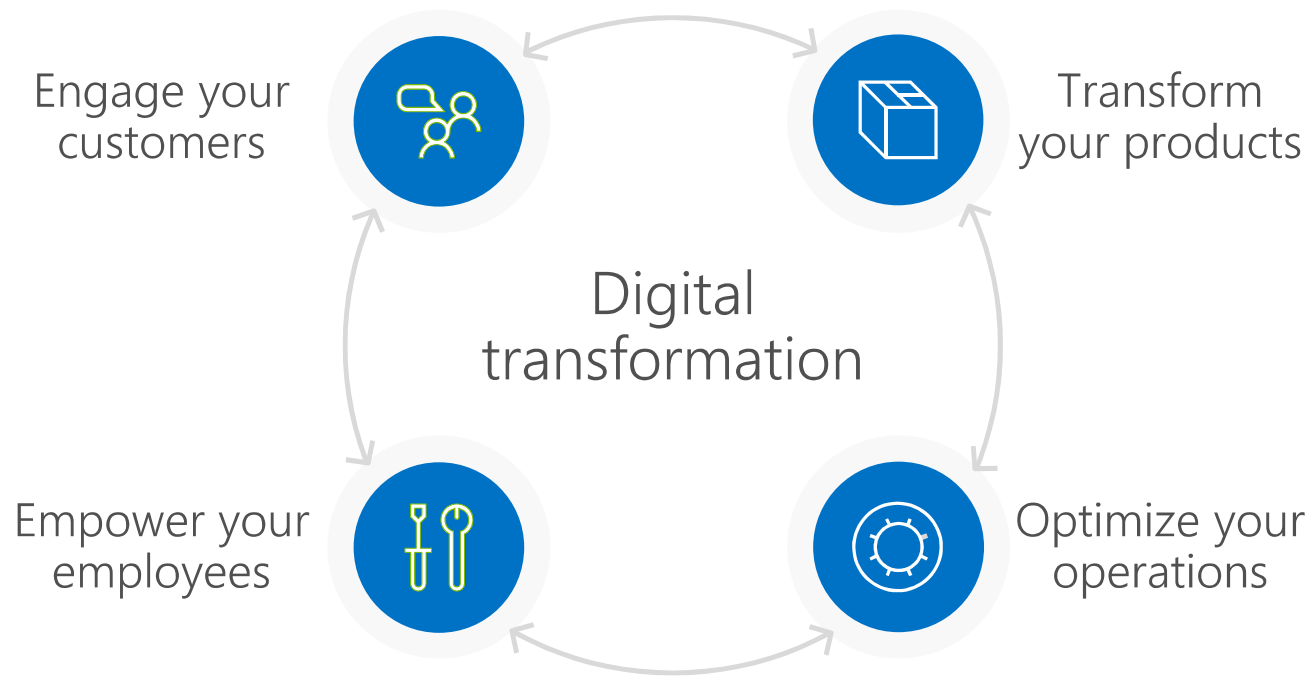
The world today



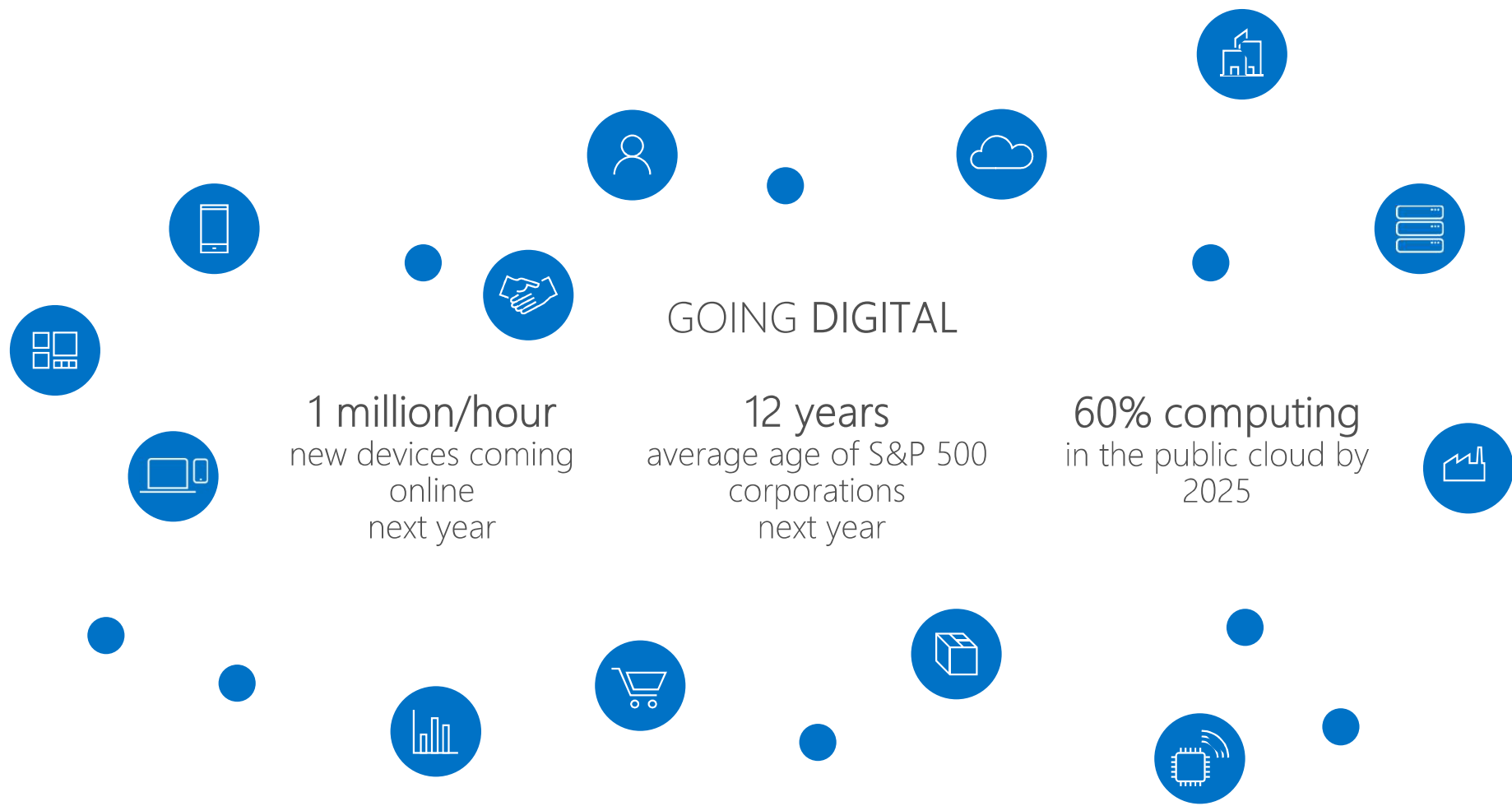
"IT = Innovation and Transformation"

- Satya Nadella

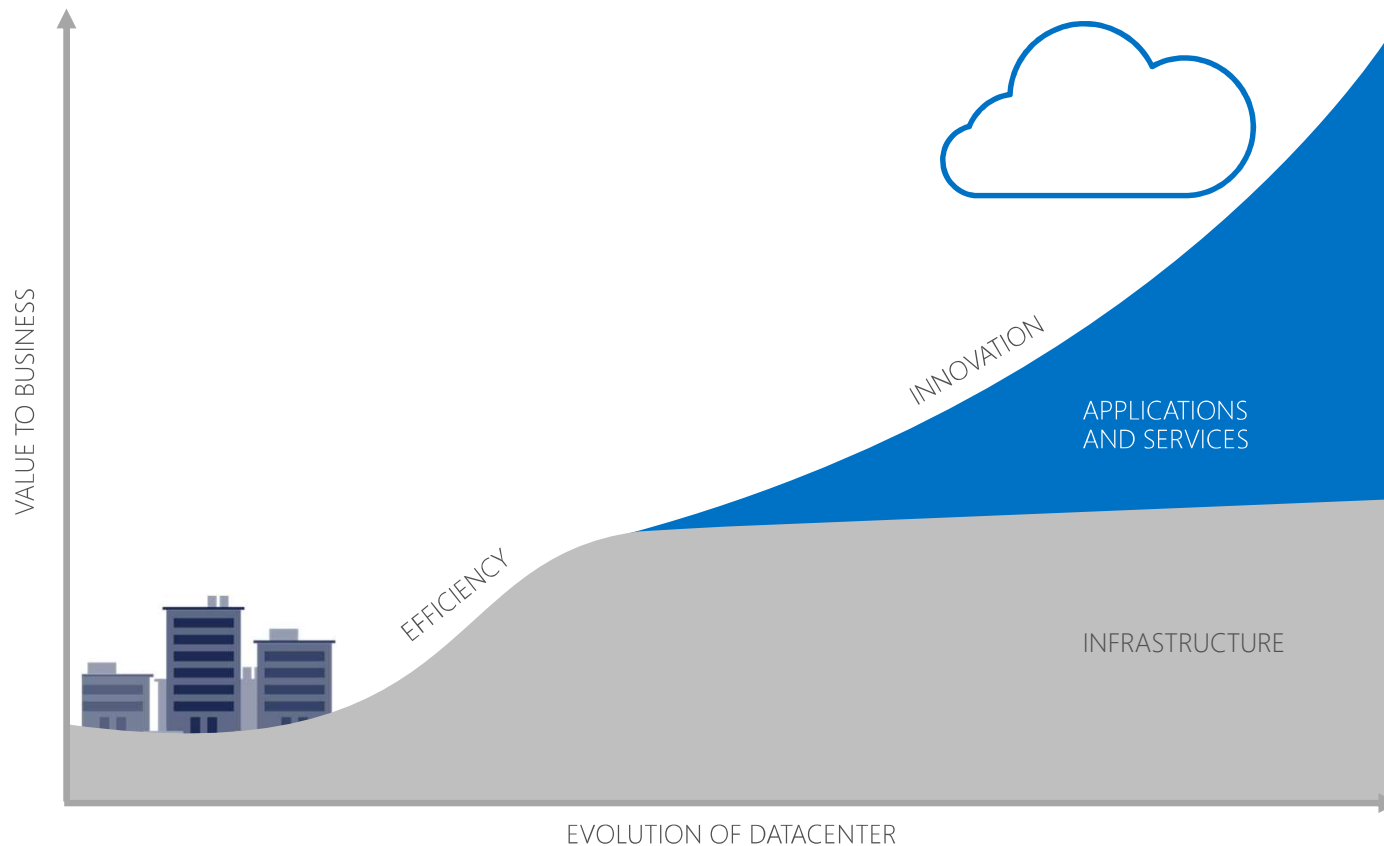
Digital Transformation



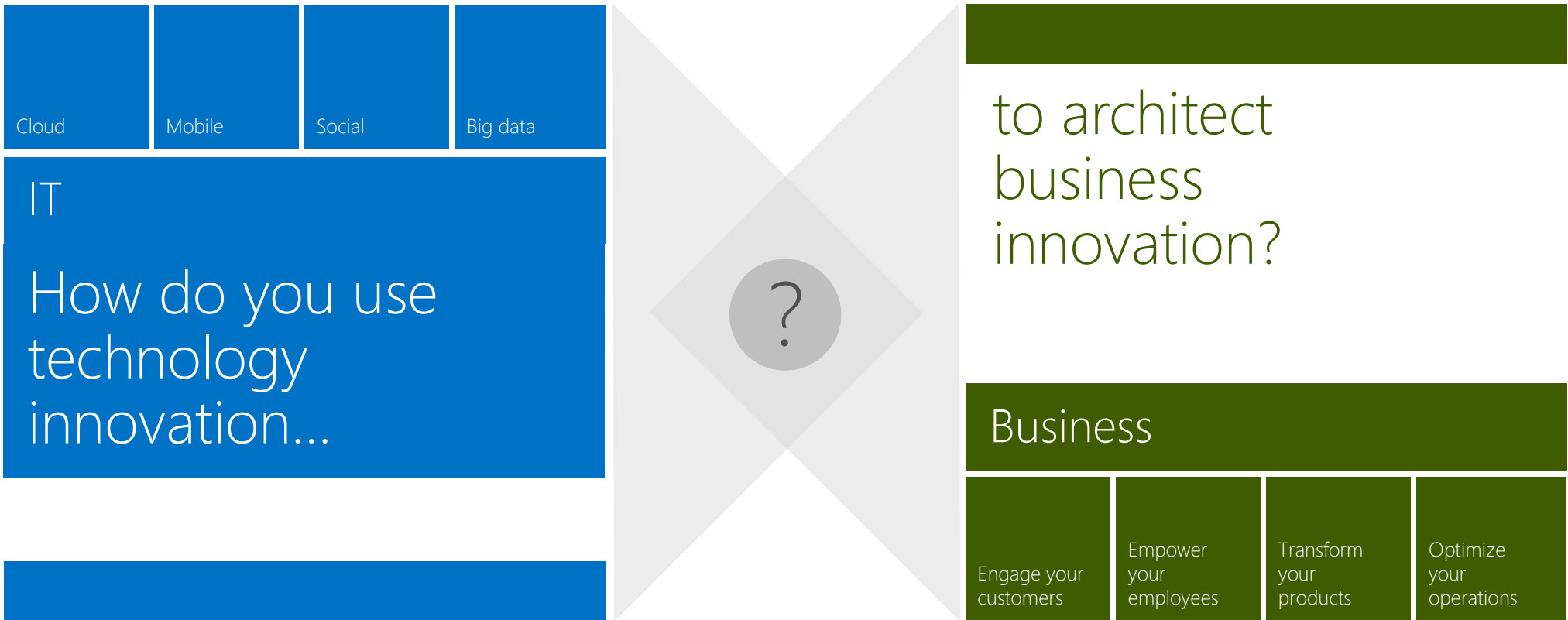
Going Digital



Cloud is at the center of Application Innovation

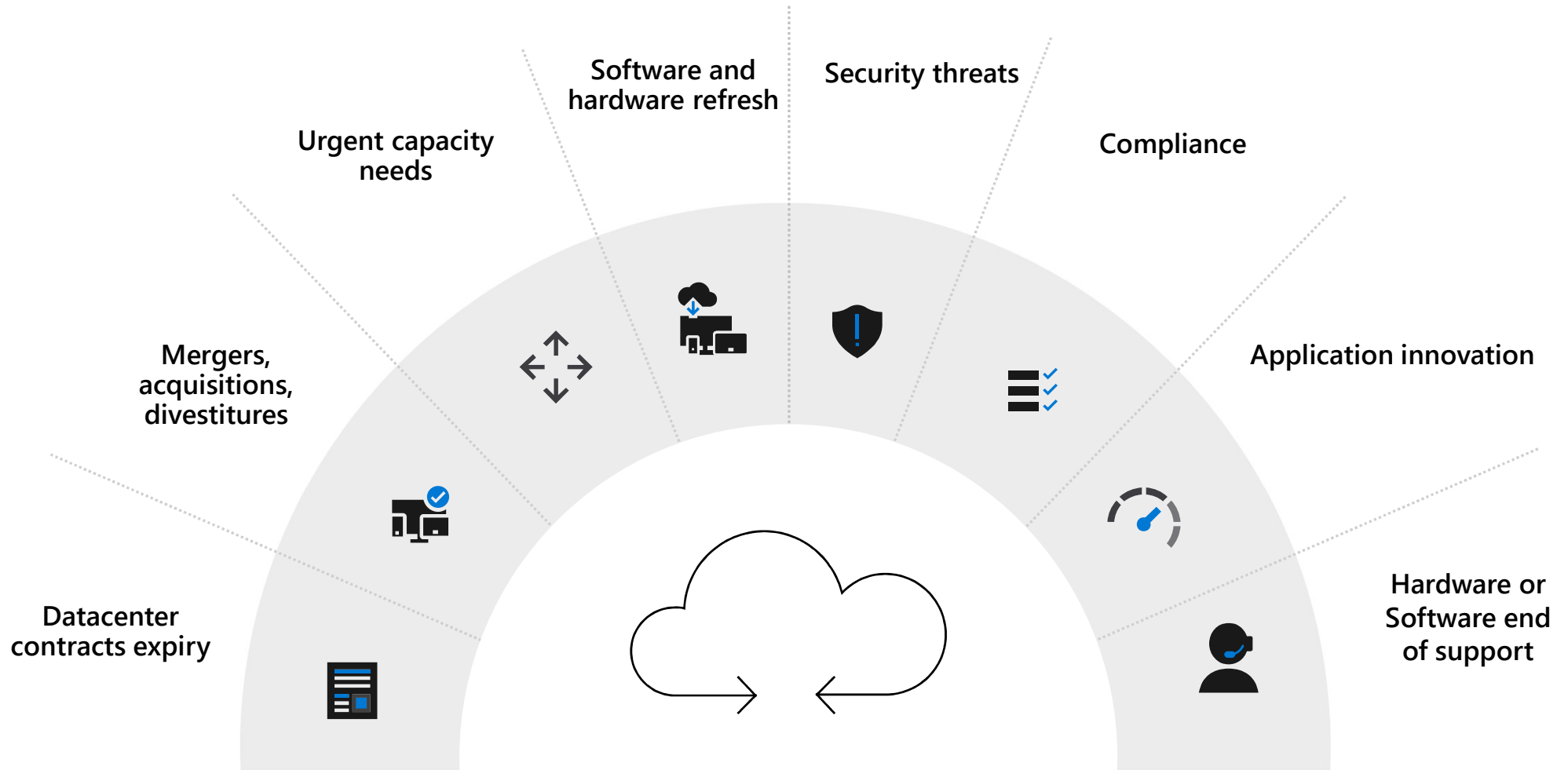


How do you participate?

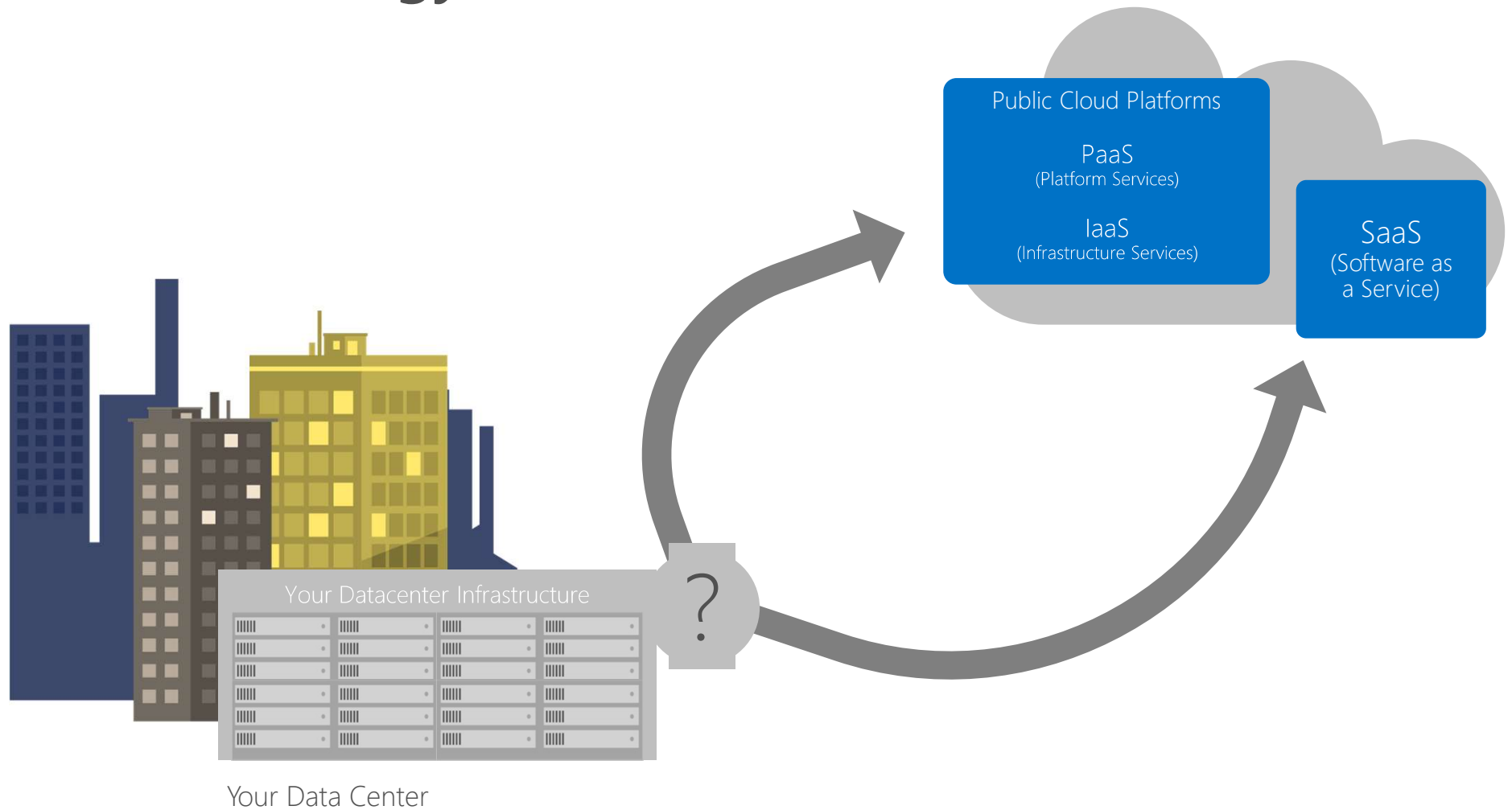


Define your vision

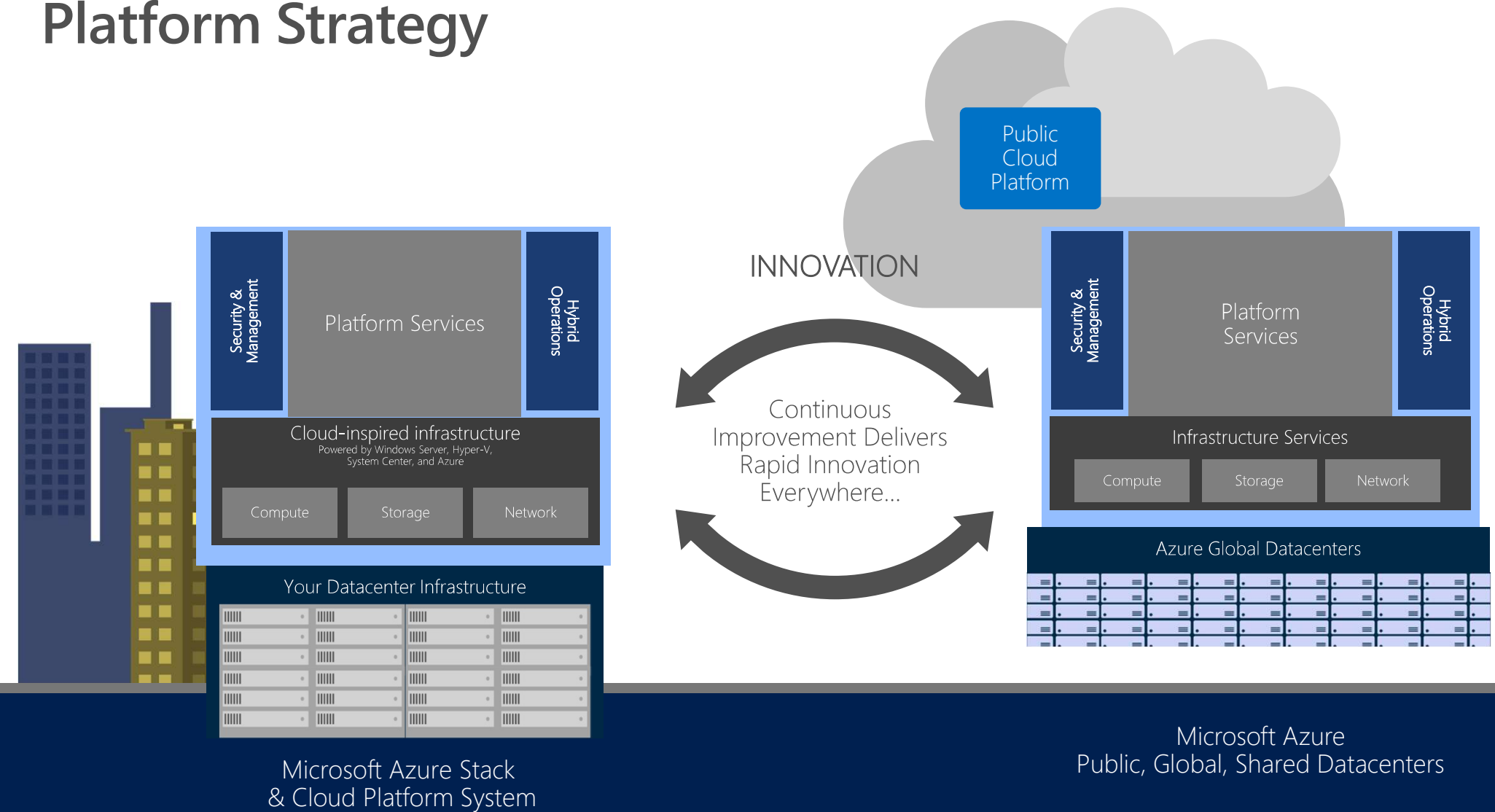
What are your cloud drivers?



Cloud & IT Strategy



Platform Strategy



Decide on the ecosystem

54

Azure regions

90+

Compliance standards



Local or global regulations / certifications?

Global



ISO 27001



ISO 27018



ISO 27017



ISO 22301



SOC 1 Type 2



SOC 2 Type 2



SOC 3



CSA STAR Self-Assessment



CSA STAR Certification



CSA STAR Attestation

Regional



Argentina PDPA



EU Model Clauses



UK G-Cloud



China DJCP



China GB 18030



China TRUCS



Singapore MTCS



Australia IRAP/CCSL



New Zealand GCIO



Japan My Number Act



ENISA IAF



Japan CS Mark Gold



Spain ENS



Spain DPA



India MeitY



Canada Privacy Laws



Privacy Shield



Germany IT Grundschutz workbook

Industry



PCI DSS Level 1



CDSA



MPAA



FACT UK



Shared Assessments



FISC Japan



HIPAA/HITECH Act



HITRUST



GxP 21 CFR Part 11



MARS-E



IG Toolkit UK



FERPA



GLBA



FFIEC

Us Gov



Moderate JAB P-ATO



High JAB P-ATO



DoD DISA SRG Level 2



DoD DISA SRG Level 4



DoD DISA SRG Level 5



SP 800-171



FIPS 140-2



Section 508 VPAT



ITAR



CJIS



IRS 1075

Creating a strategy

What is the most important to your business?



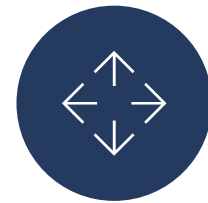
Innovation

- Focus on the applications
- Enable developers
- Deliver new and reliable services quickly
- More innovation at a faster pace



Economics

- Invest in competitive differentiators
- Reduce capital expenditure
- Take advantage of cloud scale and economics



Flexibility

- Choose where to deploy
- Decrease risk of vendor lock-in

A strategy should address ongoing challenges and opportunities



Foundation

- What are our architectural standards?
- What are our cloud policies?



Optimization

- How will we decide whether to replace, refactor, or leverage cloud for new and existing applications?
- How do we optimize our application design?
- When should we leverage SaaS vs. PaaS and IaaS?



Transformation

- Where are our opportunities to innovate and differentiate?
- What are the expected benefits and outcomes? How do we measure them?

Challenges for the organization



Developer

Designing quickly,
looking for more
agility and support



App owner

Remotely using
own cloud
resources outside
of IT to get the
job done



IT

Trying to maintain
security,
compliance, and
meet Service Level
Agreements (SLAs)
while keeping the
lights on



CSO

Managing security
concerns across
the organization



CIO

Needs to respond
to business and
CFO pressures by
shepherding the
next stage of
transition

The foundation

Your strategy requires a cloud foundation

Infrastructure



"What your application runs on"

Data



"What your application works with"

Code



"What your application does"

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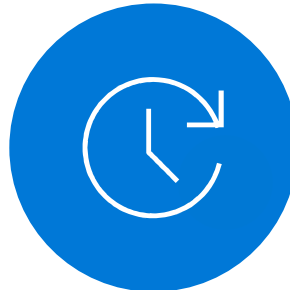
Migrate + Innovate

Security • Connectivity • Monitoring • Governance

Start with an identity foundation from the cloud



Seamless access to apps

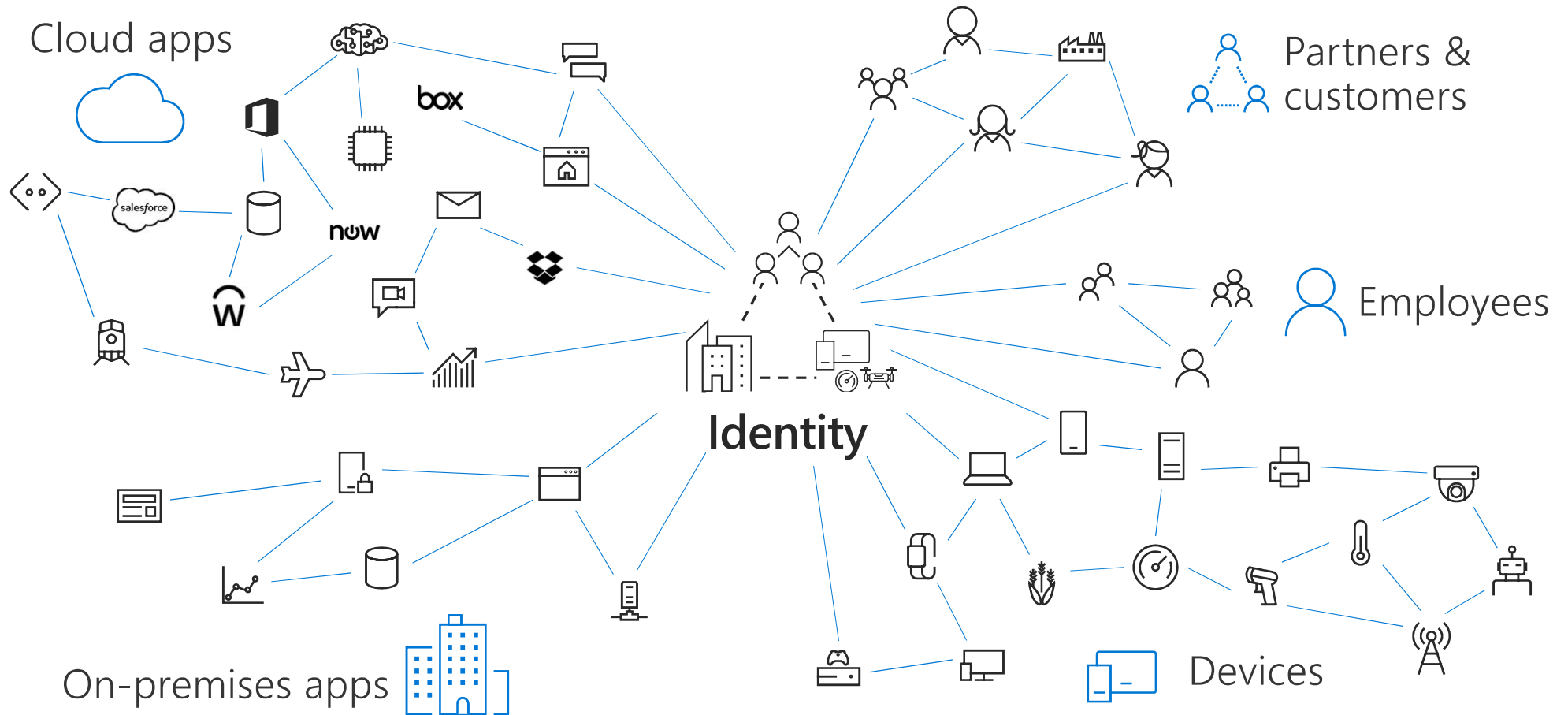


Automated provisioning



Empower self-service

Identity is the new control plane



Extend On-Premises Data & Apps to the cloud

Hybrid Use Cases

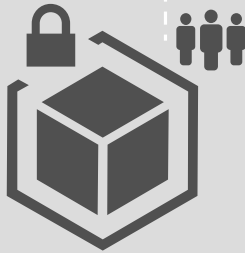
Application Availability



Bottomless Storage

Identity Management

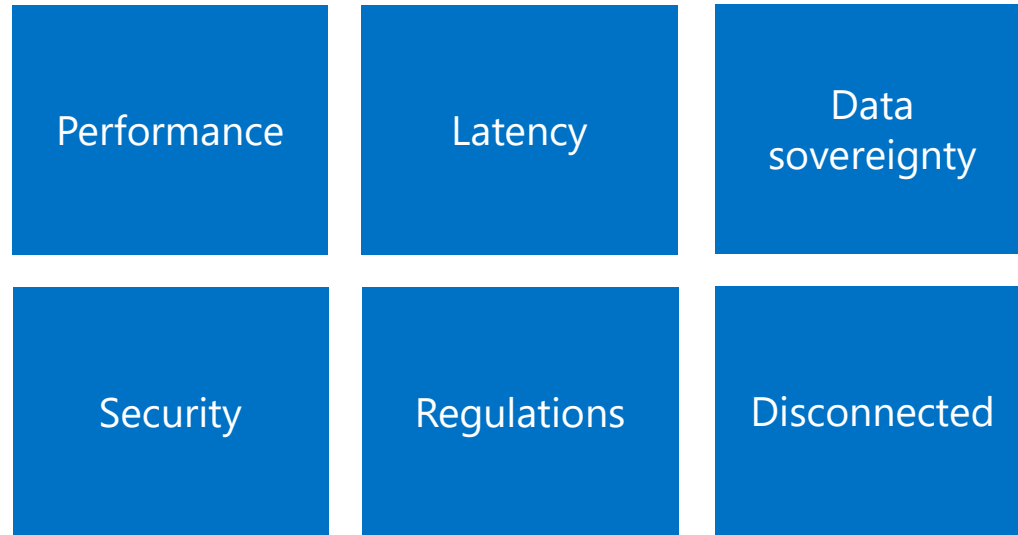
Full hybrid applications



Seamless & secure across

INFRASTRUCTURE	Azure Backup
	Azure Site Recovery
DATA	Azure StorSimple
	SQL Server Stretch DB
USERS	Azure Active Directory
APPS	App Service Web Mobile Logic Apps API Apps
MANAGEMENT	Operations Management + Security

Or... extend the cloud with on-premises Data & Apps

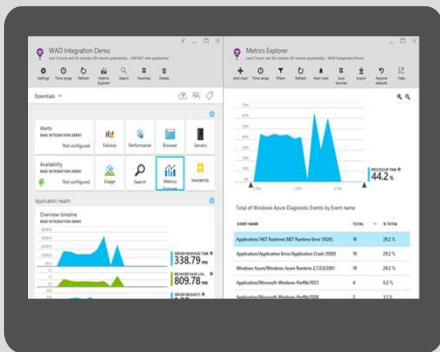


Monitor your environment proactively

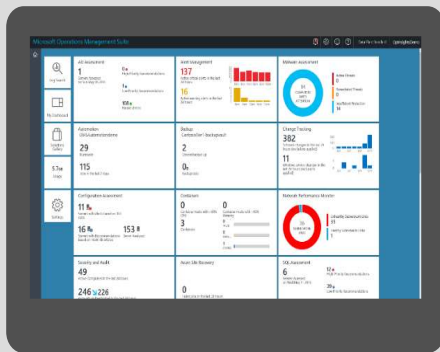
Azure Portal



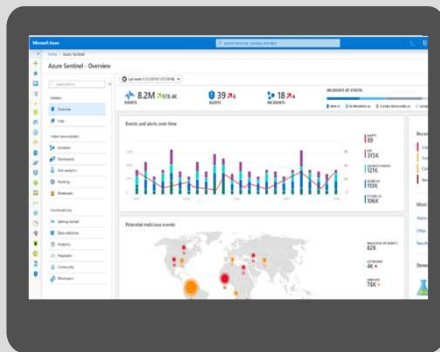
Application Insights



Log Analytics



Azure Sentinel



Governance for the cloud

The broadest governance portfolio of any cloud



Management Group

Define organizational hierarchy

Hierarchy



Policy

Real-time enforcement, compliance assessment and remediation

Control



Blueprints

Deploy and update cloud environments in a repeatable manner using composable artifacts

Environment



Resource Graph

Query, explore & analyze cloud resources at scale

Visibility

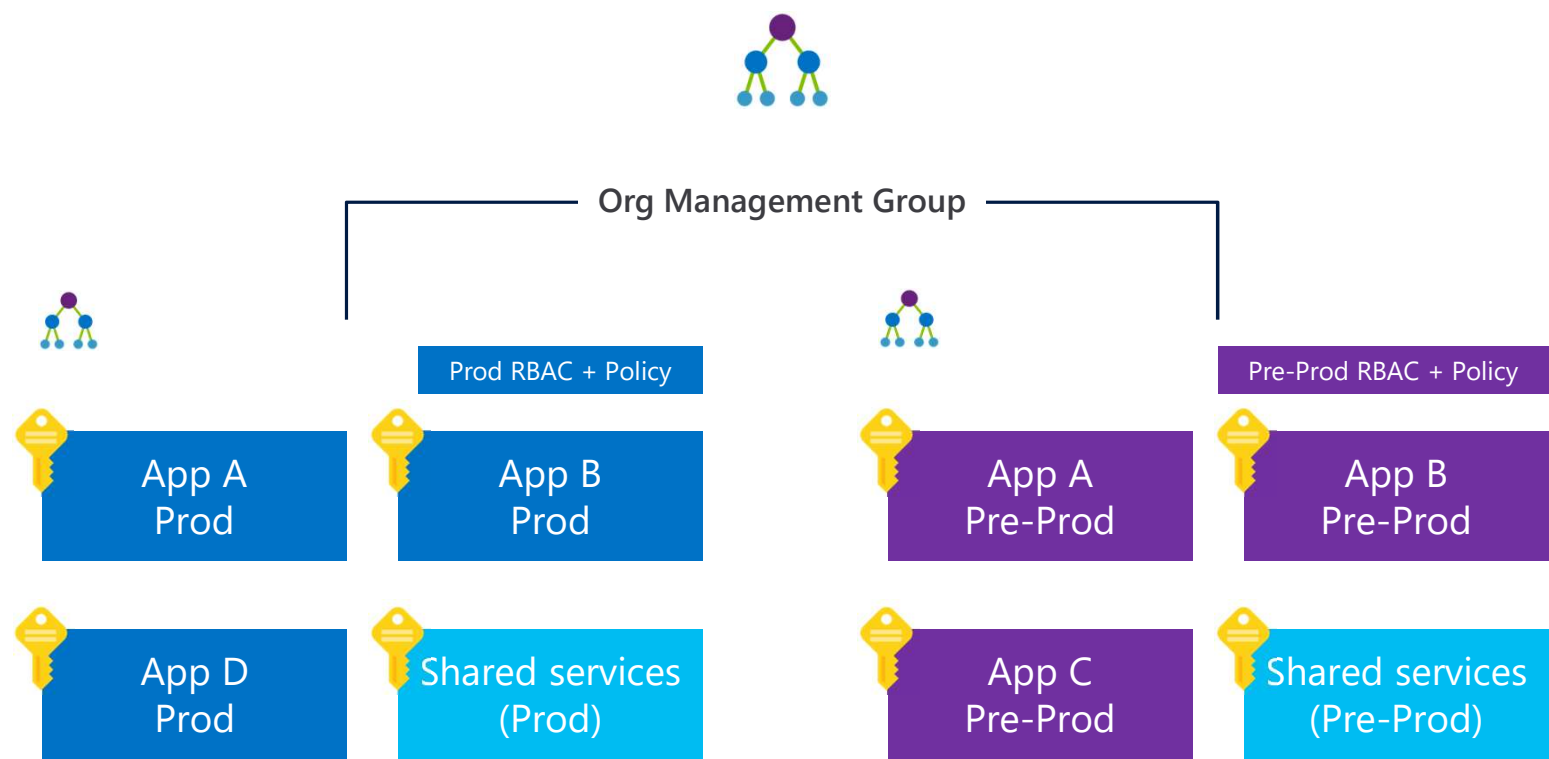


Cost Management

Monitor cloud spend and optimize resources

Consumption

Organization / subscription modelling strategy



Migrate!

Lessons Learned

Culture

- Experiment
- Learn Fast, Fail Fast
- Learn by doing
- Belong to a community
- Build a strong architectural practice

Manage costs

- Accountability to cost drives the right behaviors
- When not in use, turn it off
- Manage Frozen/Cold assets

Simplify

- Rationalize your application portfolio, then evaluate the remainder – there is no one approach for all
- Maintain a continuous assessment process for applications
- Transform Ops to DevOps
- Right-size and continue to monitor



Thank You!

Building Your Cloud Strategy

Henk van de Crommert

Geef jouw feedback!

- Gebruik je mobiel
Ga naar bit.ly/ct19cloudstrat
- Of start dit op met de QR code;

