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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\*\*

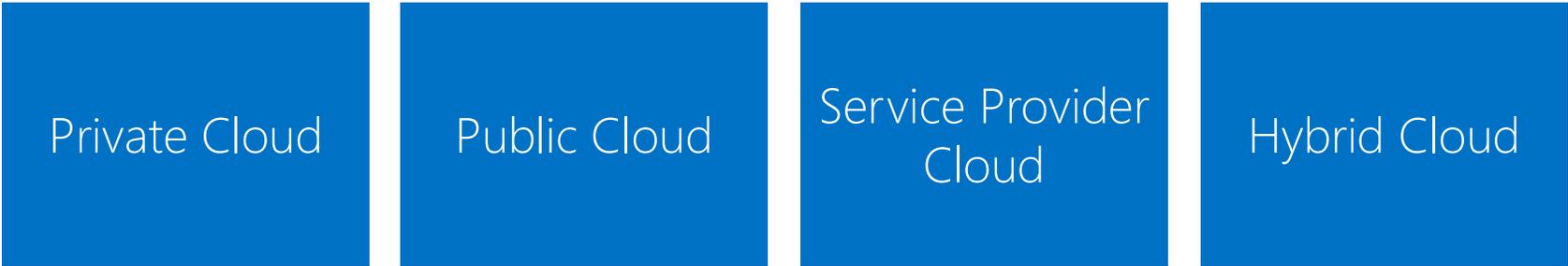
80%

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

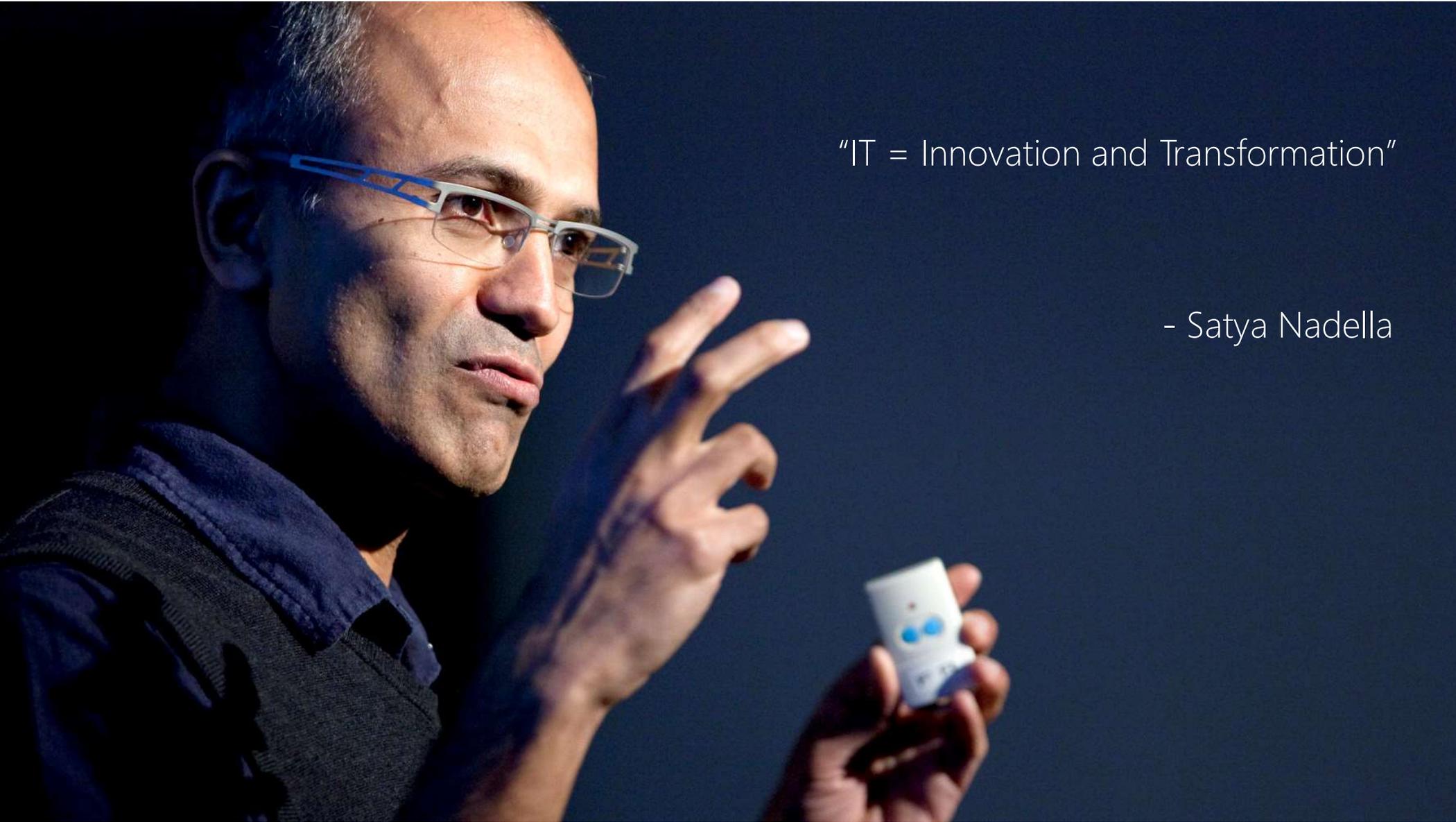
\* Forrester: "Prepare For 2020: Transform Your IT Infrastructure & Operations Practice, Oct. 24, 2012

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

# Cloud Types



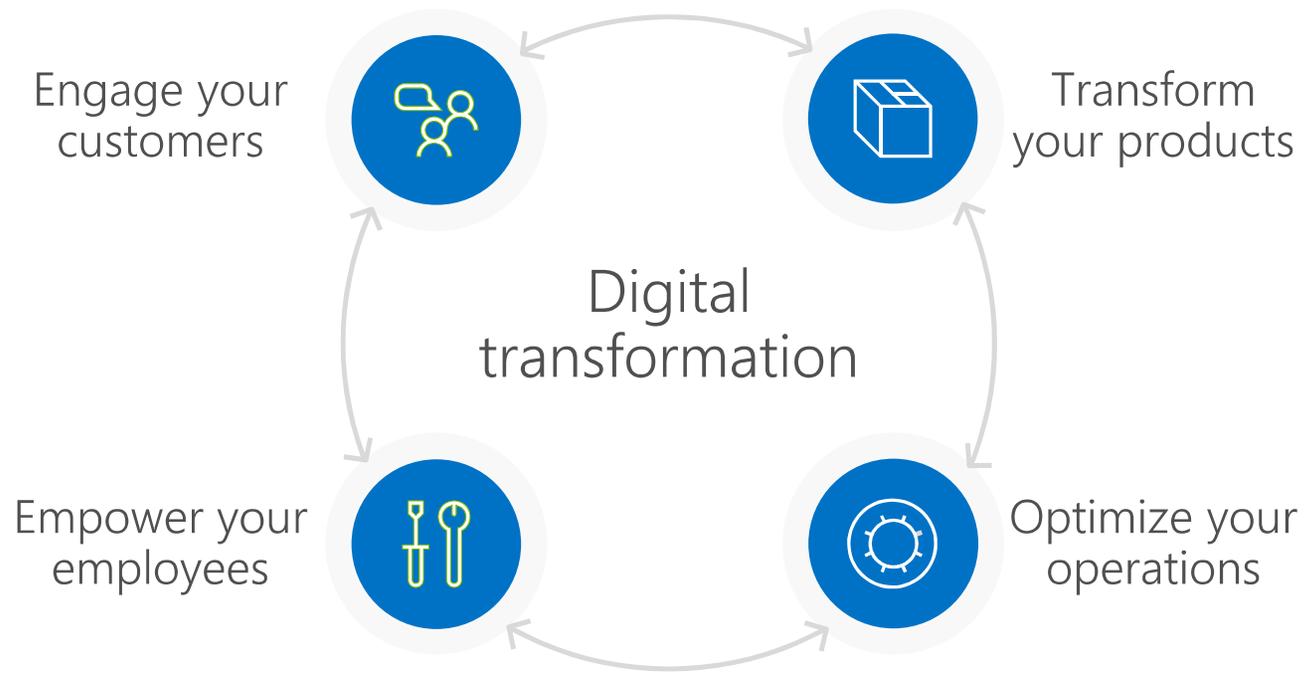
The world today



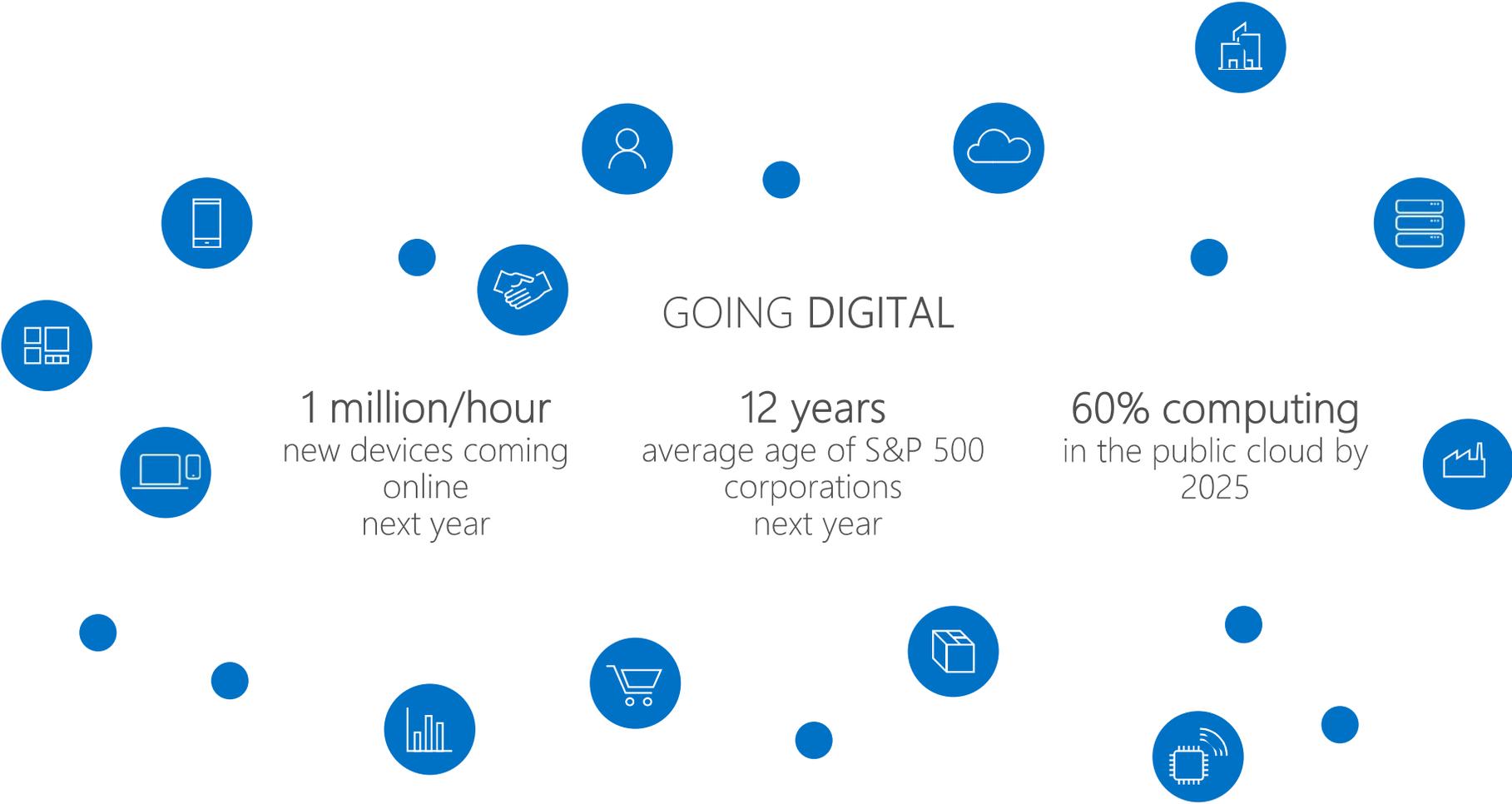
"IT = Innovation and Transformation"

- Satya Nadella

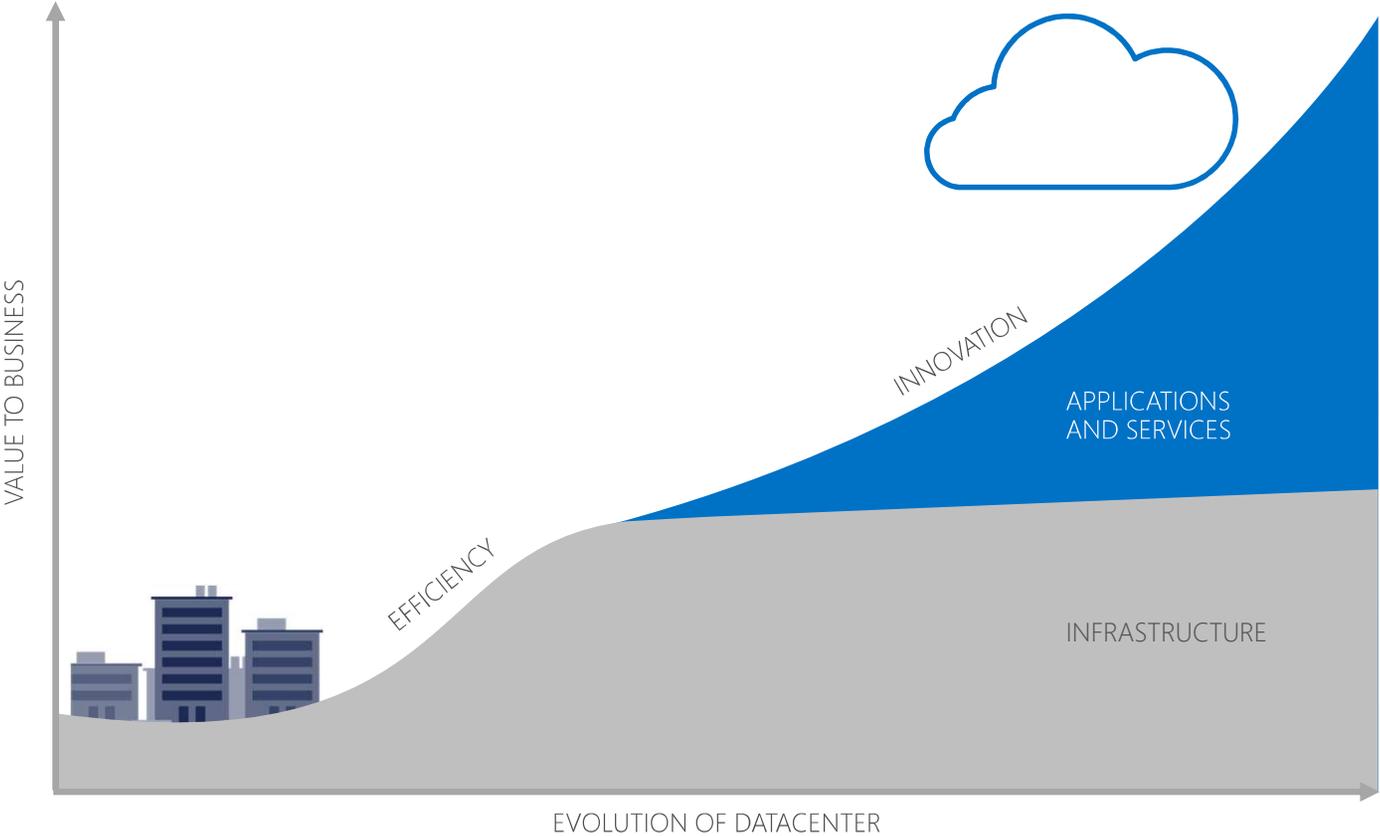
# Digital Transformation



# Going Digital

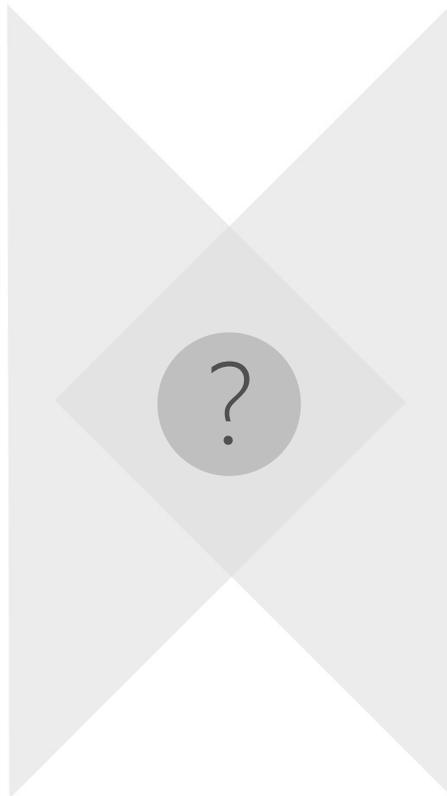


# Cloud is at the center of Application Innovation



# How do you participate?

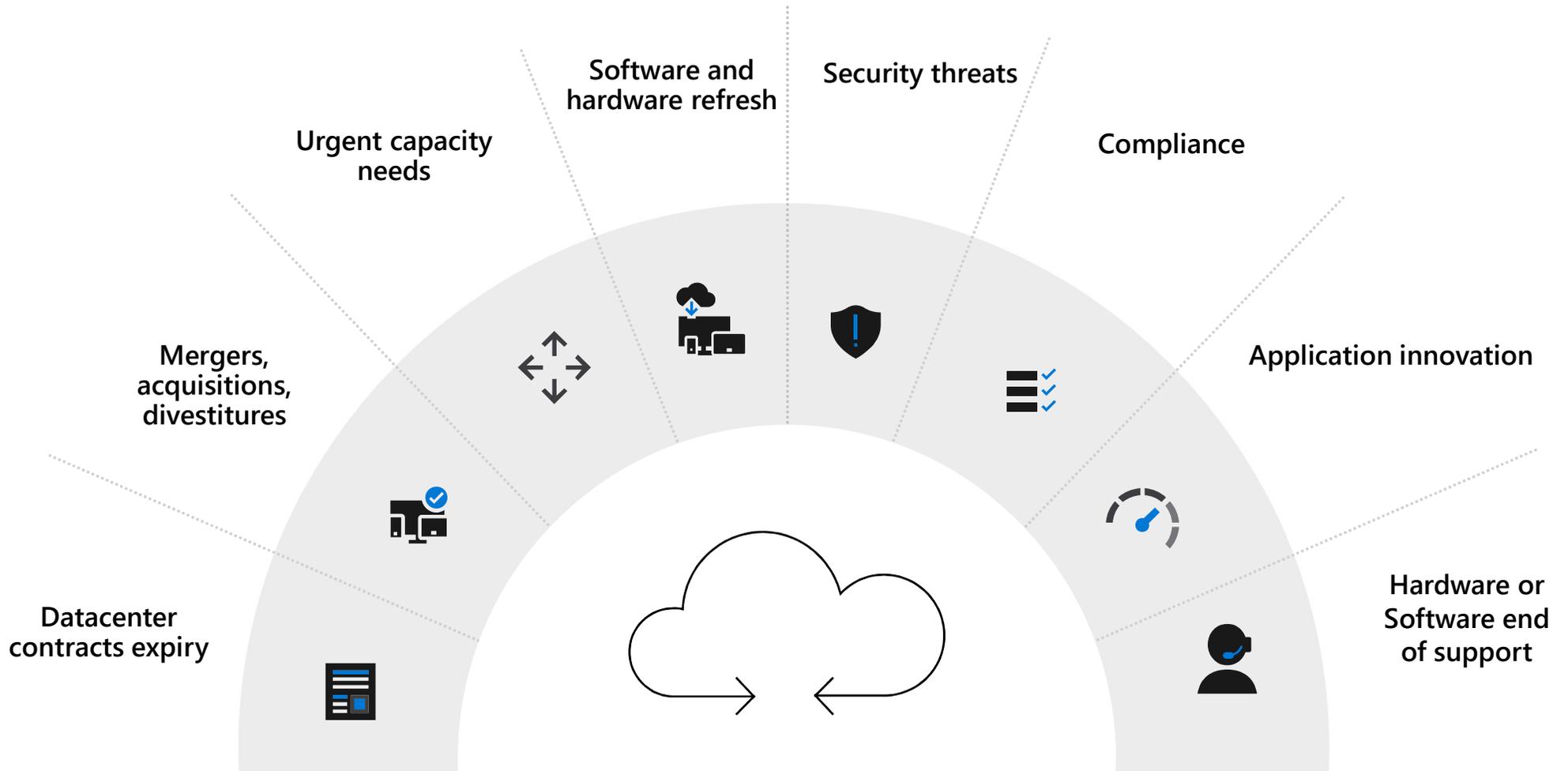
Cloud	Mobile	Social	Big data
IT			
How do you use technology innovation...			



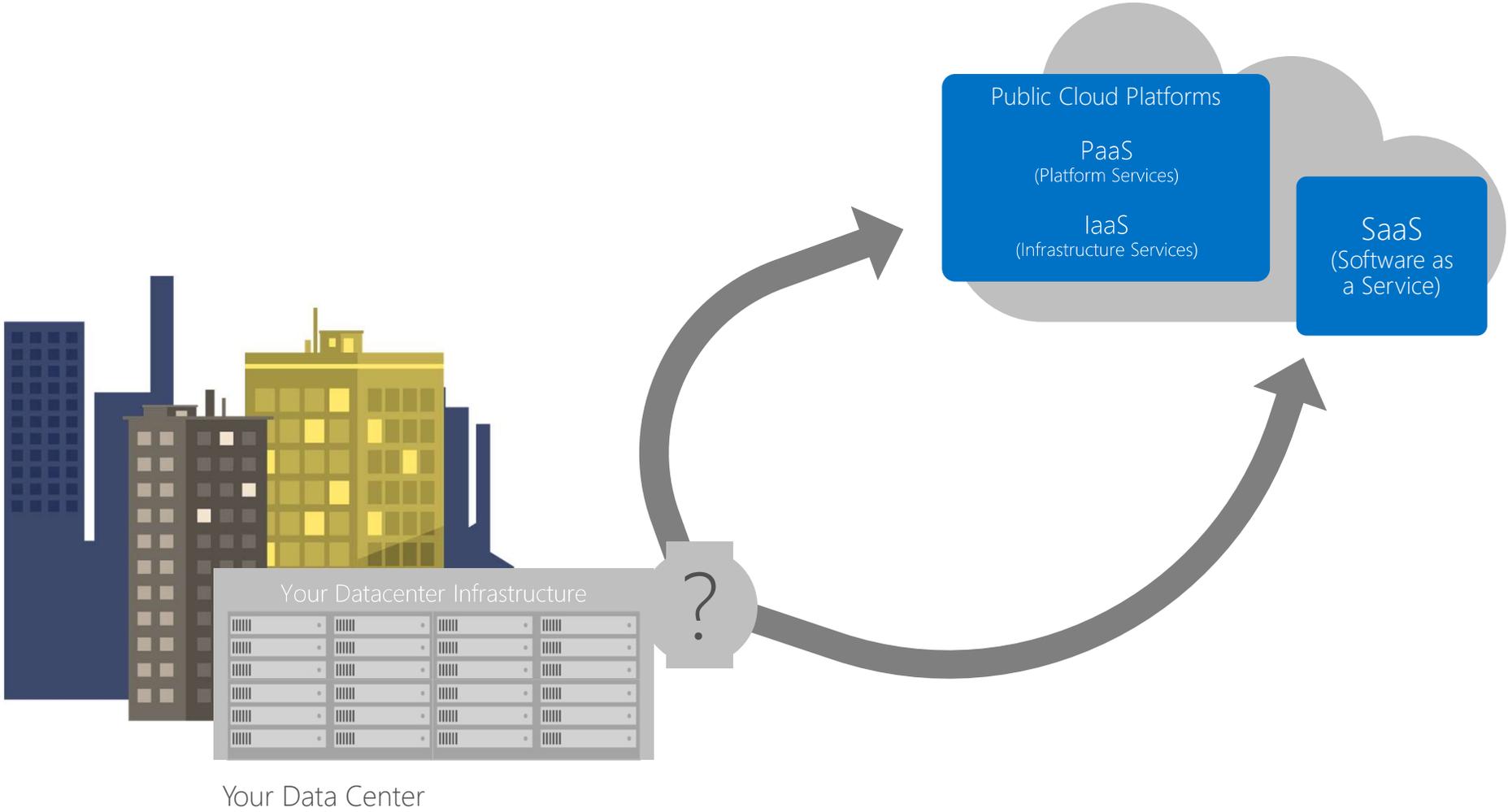
to architect business innovation?			
Business			
Engage your customers	Empower your employees	Transform your products	Optimize your operations

Define your vision

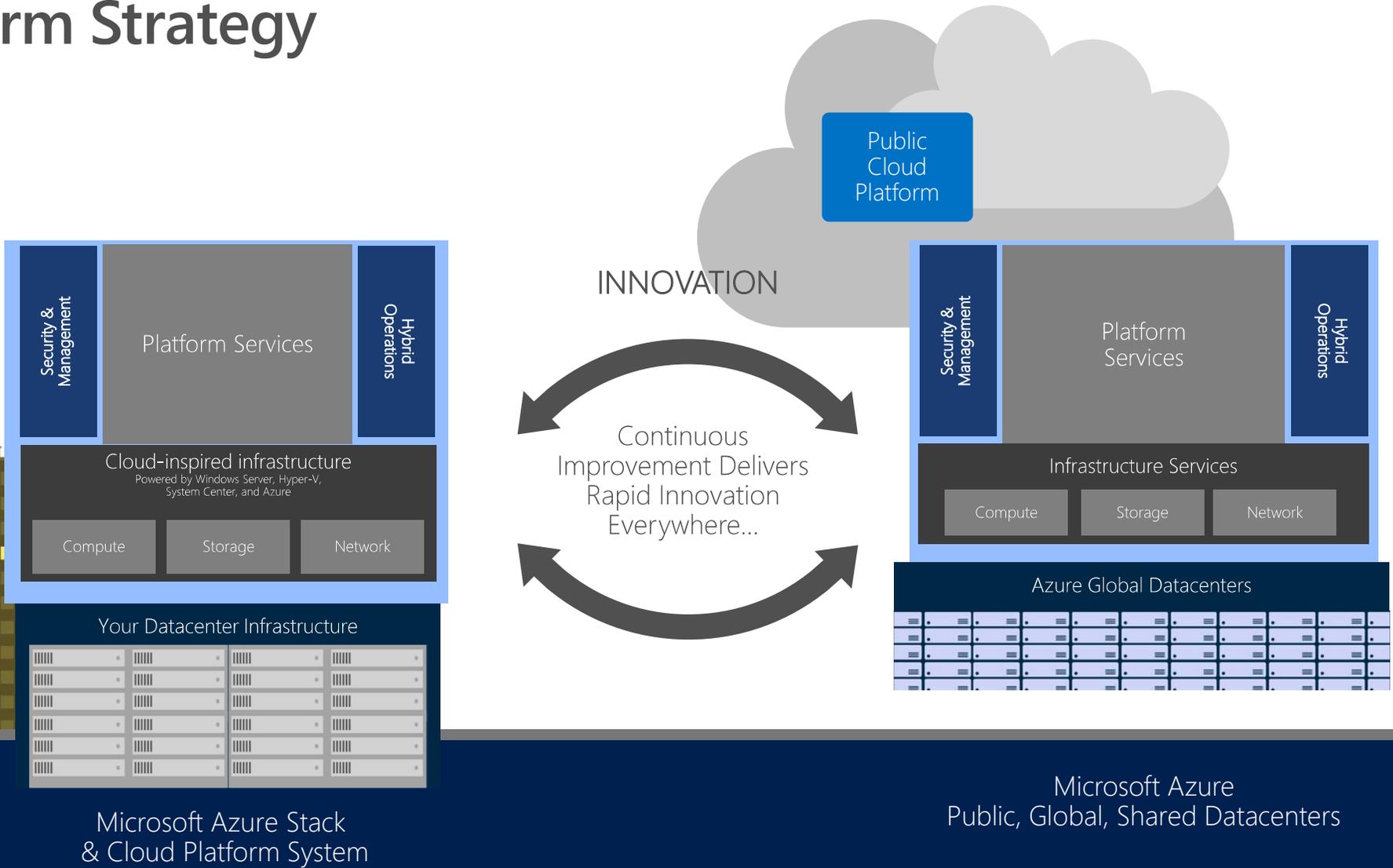
# What are your cloud drivers?



# 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 3



DoD DISA SRG Level 4



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”



Migrate + Innovate

← Security • Connectivity • Monitoring • Governance →

# Start with an identity foundation from the cloud



Seamless access to apps

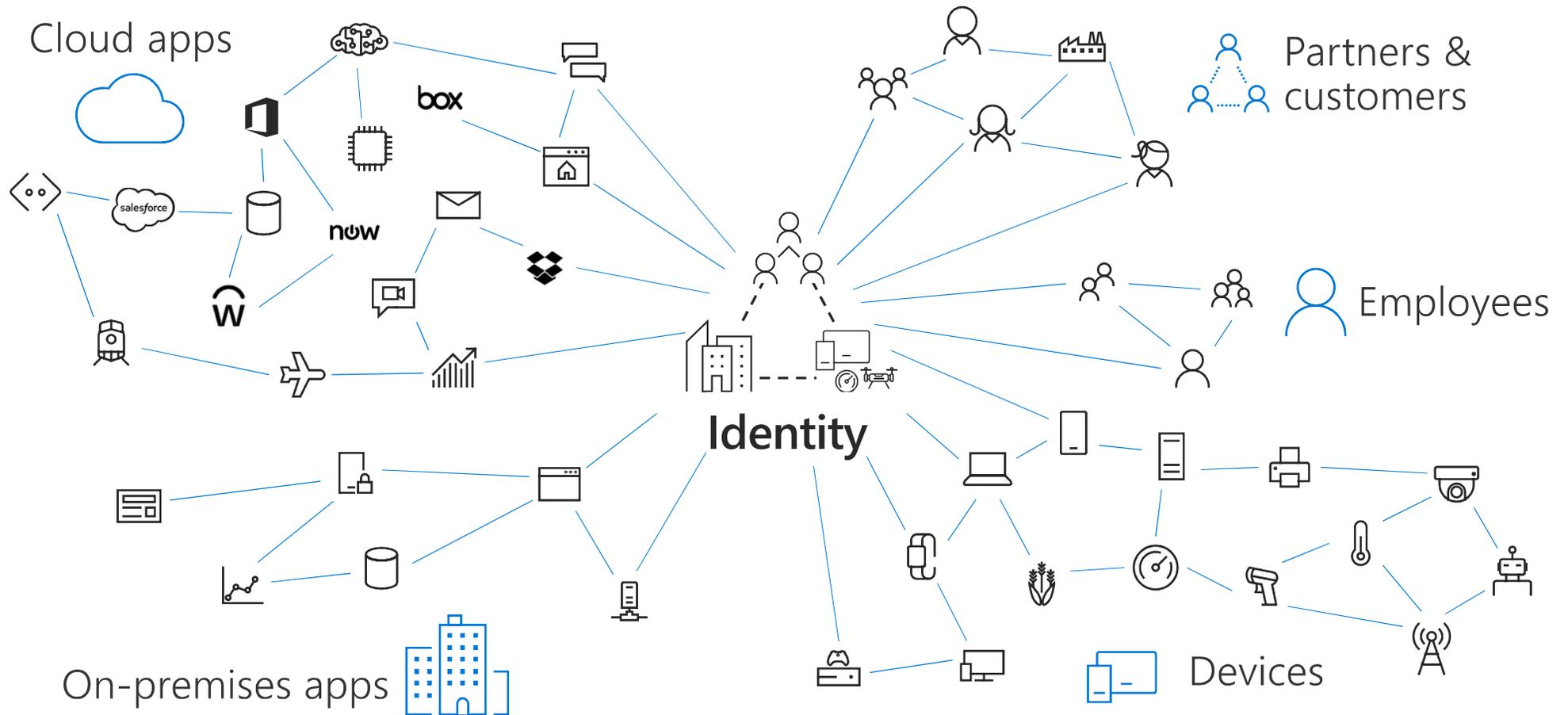


Automated provisioning



Empower self-service

# Identity is the new control plane



# Extend On-Premises Data & Apps to the cloud

## Hybrid Use Cases

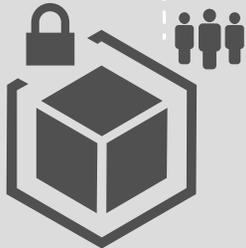
Application Availability



Bottomless Storage



Identity Management

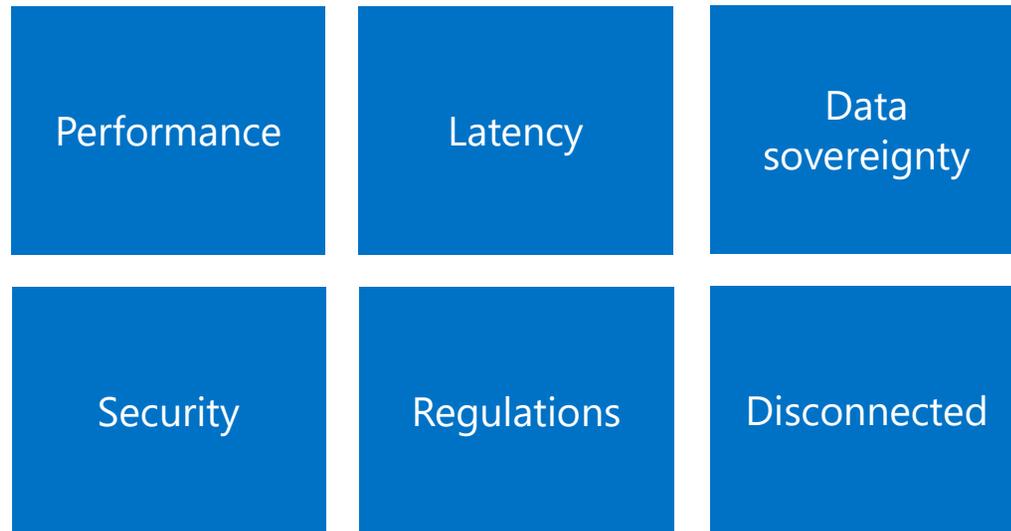


Full hybrid applications

## 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





# 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

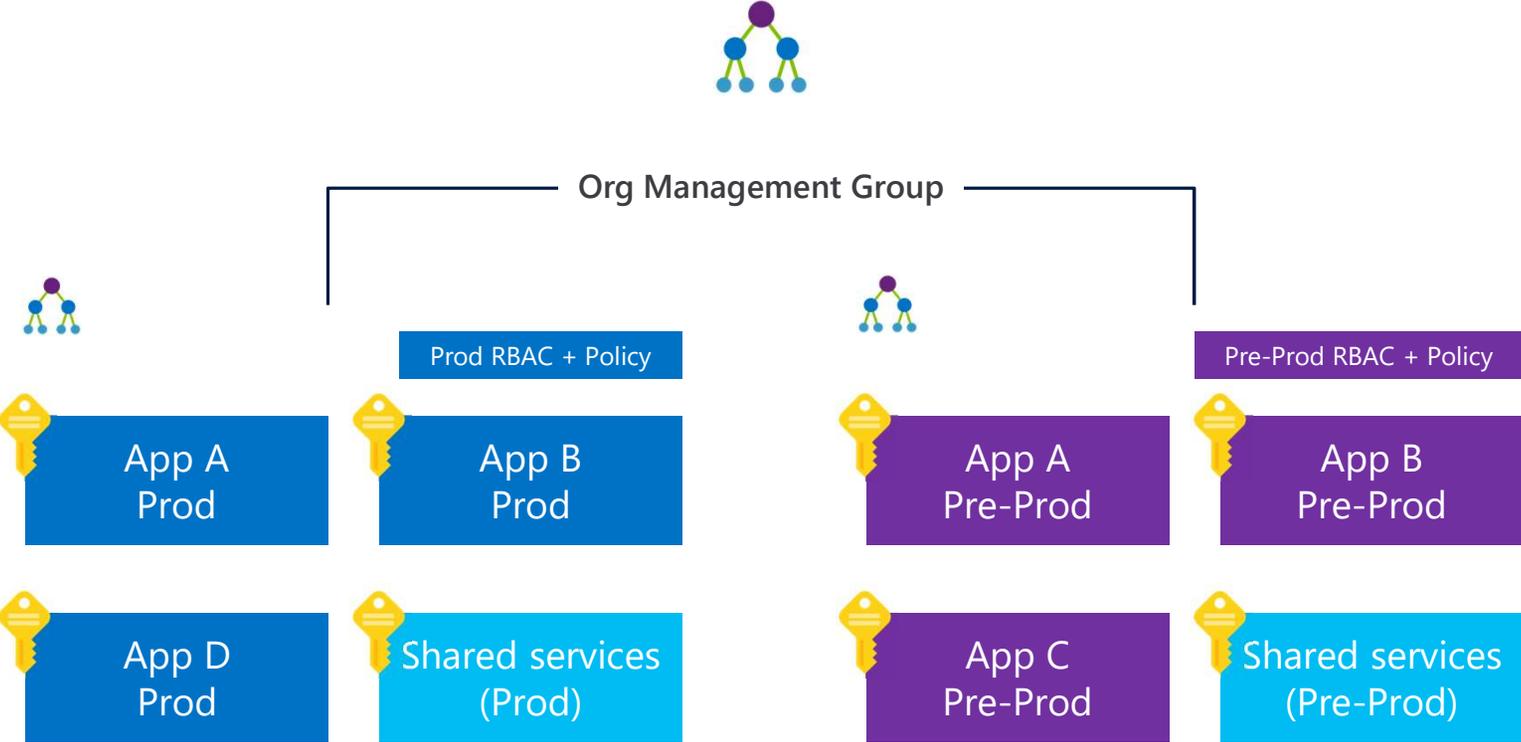


## Cost Management

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](https://bit.ly/ct19cloudstrat)
- Of start dit op met de QR code;

