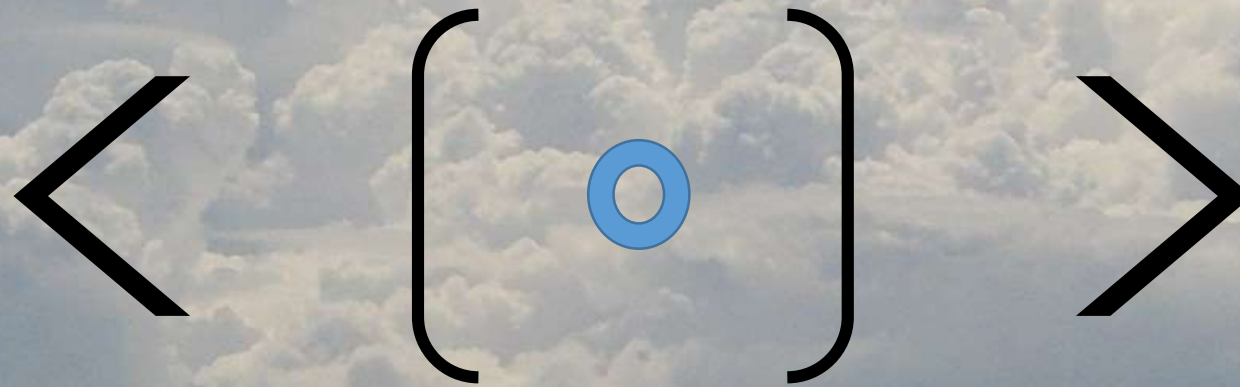
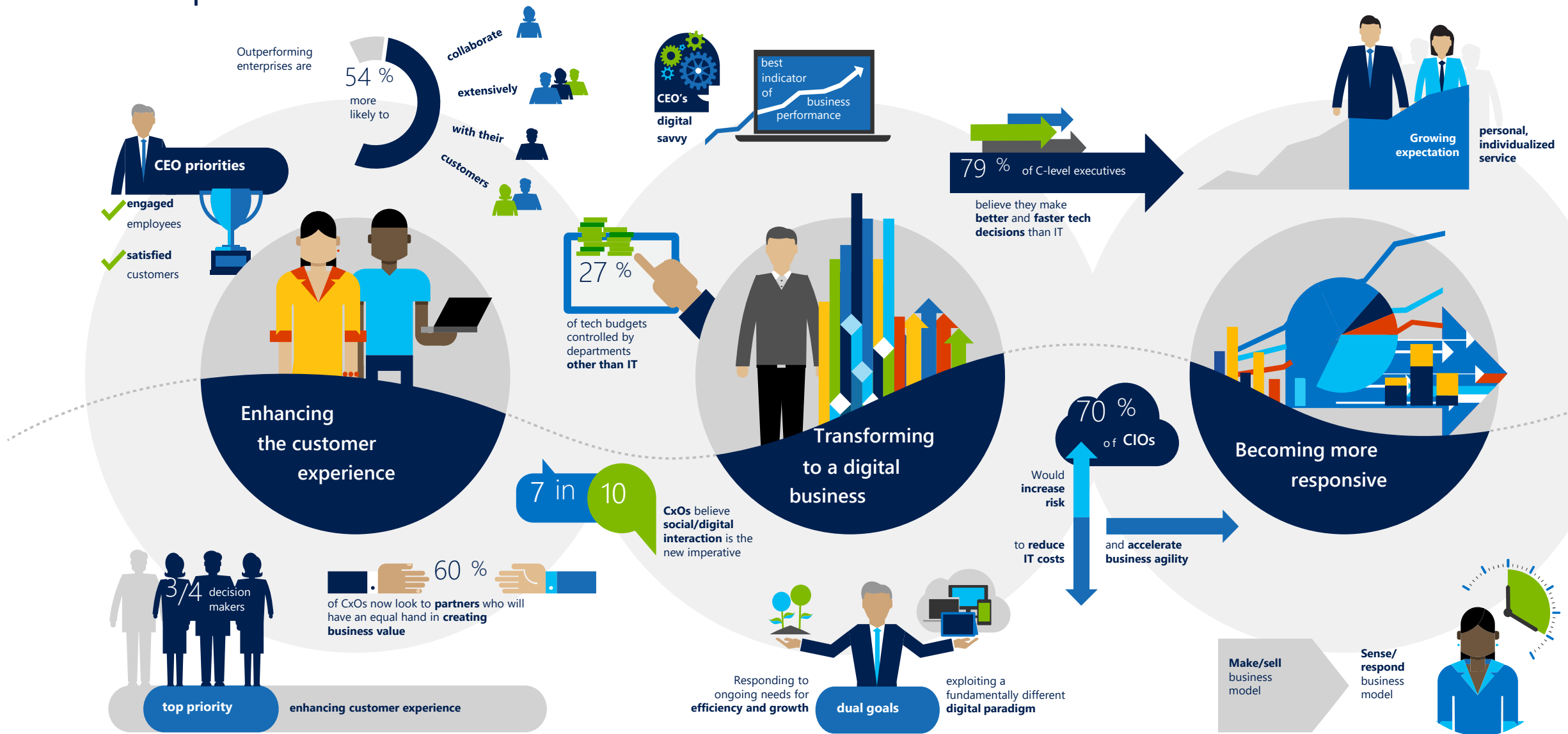


Adopting a Frame of Reference for Confidence in the Cloud



John Weigelt
Chief Technology Officer
Microsoft Canada
@Thumbtackhead

Enterprise Leaders in 2015

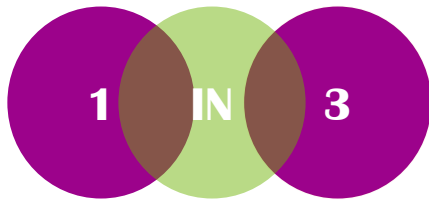
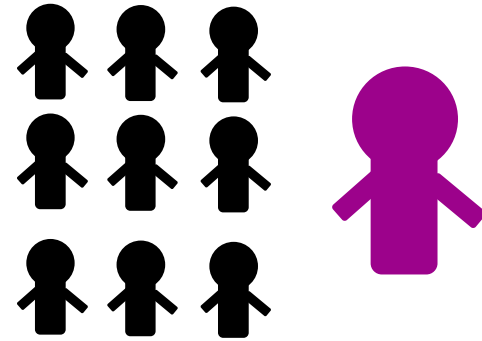


Canadian C-suite executives do not have a solid grasp on cloud computing

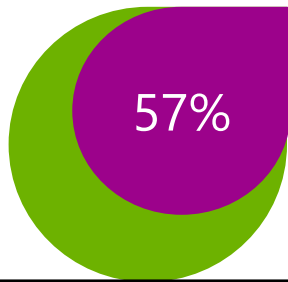
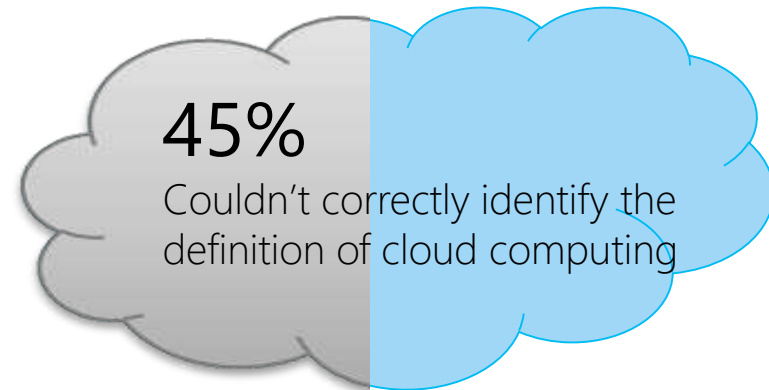
1 IN 10

C-SUITE EXECUTIVES

Are familiar with the cloud



Do not know what
cloud services are
used for

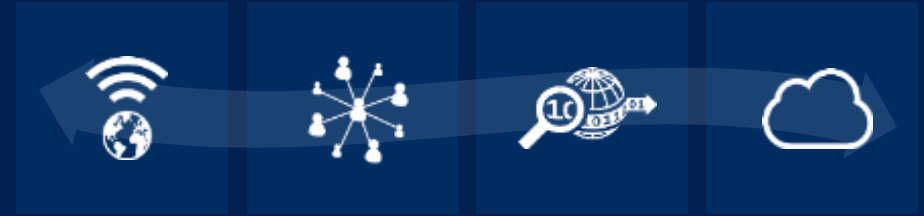


Of c-suite executives
Are not involved in
Or discussing
Cloud computing

Security and privacy should be a top leadership concern

Managing risk in an increasingly connected world

"This **Nexus of Forces** is impacting security in terms of **new vulnerabilities**."



—Ruggero Contu, Christian Canales and Lawrence Pingree. *Forecast Overview: Information Security, Worldwide, 2014 Update*. Gartner, Inc. June 25, 2014.



median # of days **attackers are present** on a victim network **before detection**



Average cost of a data breach to a company

15% increase YoY

Security



level issue

Job security Customer loyalty

Implications

Brand reputation Legal liability

Intellectual property

Impact of cyber attacks could be as much as **\$3 trillion** in **lost productivity and growth**





← 14 乗車口案内 Train Boarding Guide

1553 博 多 0801-268	のぞみ 25 1550 博 多 0801-268
www.jr-ode.no	www.jr-ode.no
0223 名古屋 0801-268	0223 名古屋 0801-268

Boarding times are published on station posters and on board train. Please notify staff

-230

Remember that server you used to have



Microsoft's Datacenter Evolution





Huge infrastructure scale is the enabler

24 Regions Worldwide, 19 ONLINE...huge capacity around the world...growing every year



Trusted Cloud Principles

Commitment to principles worthy of your organization's trust

Security



The confidentiality, integrity, and availability of your data is protected.

Privacy & Control



No one is able to use your data in a way that you do not approve.

Compliance



Your content is stored and managed in compliance with applicable laws, regulations and standards.

Transparency



You have visibility into how your data is being handled and used.



Data Handling

Operational



Transparency and control: running the service



Most operations are automated

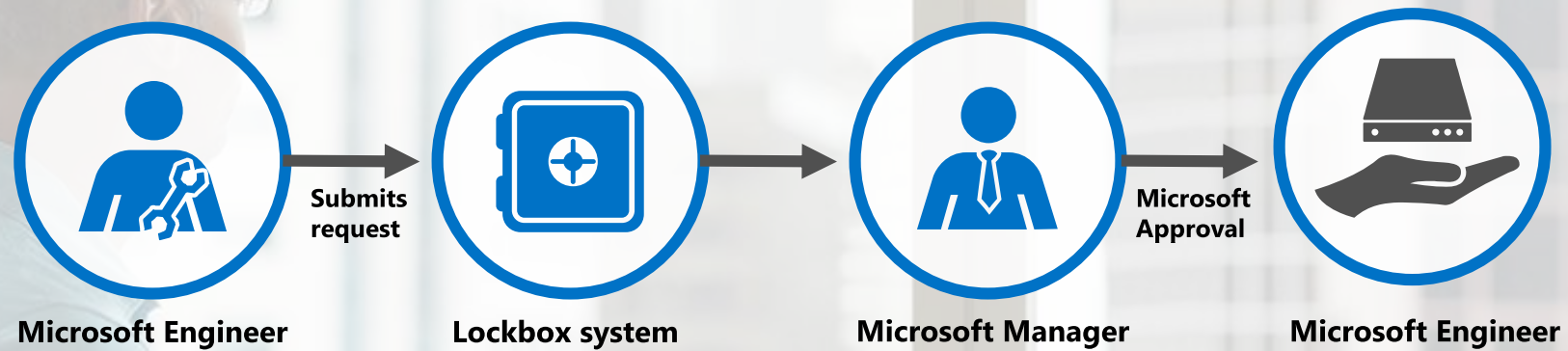
Data Center operations do not require access to customer content

Rare occasions where humans need access to run data center operations

Humans have to meet clearance requirements and require 2 factor auth to request access

Any access is highly controlled with multiple levels of approval using Lockbox

Lockbox



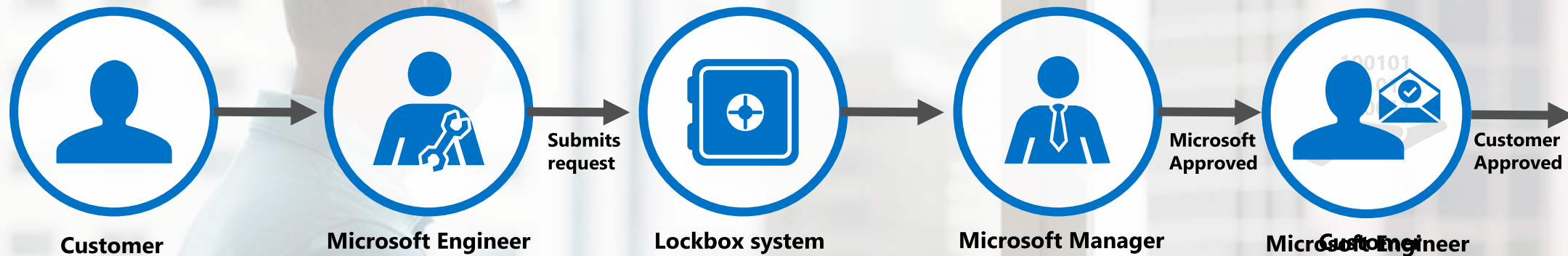
Scoped, least privileged access

Just-in-time access for limited duration

Audit logs for all access

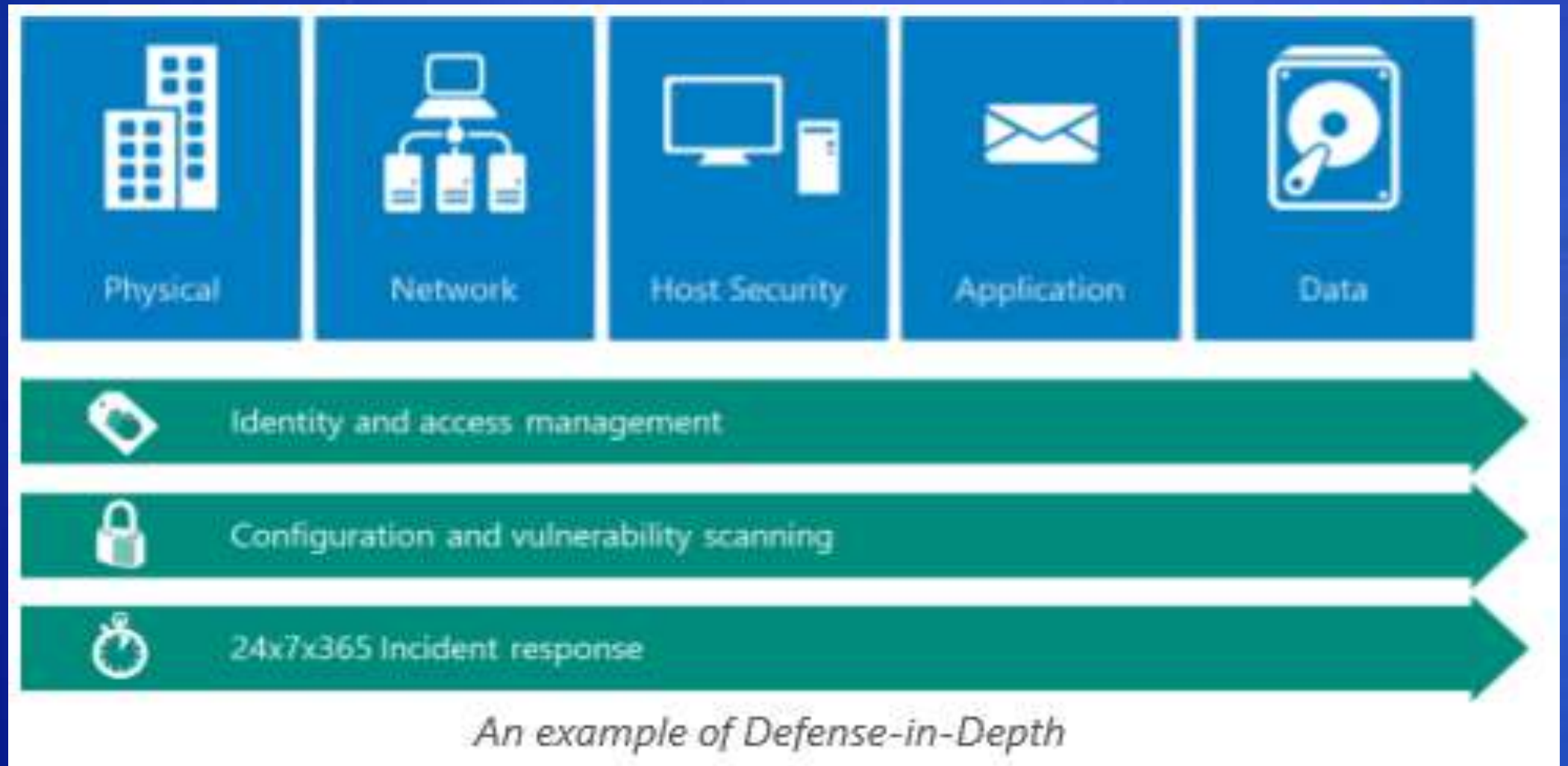
Customer Lockbox

Now we want to extend Lockbox approval to you for human access to customer content



Customer controls authorization of Office 365 personnel access

Security



Digital Crimes Unit & Cybercrime Center



Malware
disruption



IP Protection



Protection of
vulnerable
populations

Making an impact

Taking down botnets, in partnership with governmental and commercial organizations, to clean and protect tens of millions of devices

Improving products by embedding collected data and intelligence into our platform and services

Disrupting and dismantling cybercriminal operations that promote a range of illegal goods and services

Developed PhotoDNA to protect children from online exploitation

Protecting your data privacy



You have a right to expect:

- Your content should only be accessed as permitted by you, and should not be shared with third parties unless permitted by you.
- You should always have access to your content, and should be able to delete it or take it with you if you leave.

What we're doing about it:

- We allow you to keep the data you upload in the region you specify.
- We will not use your data for advertising or commercial purposes.
- We will not disclose your information outside of Microsoft except with your consent or when required by law.
- We provide a variety of tools to extract your data.
- Azure will fully delete your data within 180 days after expiration or termination.



ISO 27018

Key Principles – Cloud providers must:

Not use data for advertising or marketing unless express consent is obtained

Be transparent about data location and how data is handled

Provide customers with control over how their data is used

Be accountable to determine if customer data was impacted by a breach of information security

Communicate to customers and regulators in the event of a breach

Have services independently audited for compliance with this standard

Maintaining transparency



You have a right to expect:

- You should have a clear, plain-language explanation of how your cloud provider uses, manages and protects your organization's content.
- You should be told how your cloud provider will respond to law enforcement requests to access your organization's content.

What we're doing about it:

- We provide understandable and strict policy of what we will—and will NOT—use your content for.
- When responding to law enforcement requests, we strive to defend your rights and privacy, and ensure due process is followed.
- For each of our services, we provide you with information on where your content may be stored and processed.

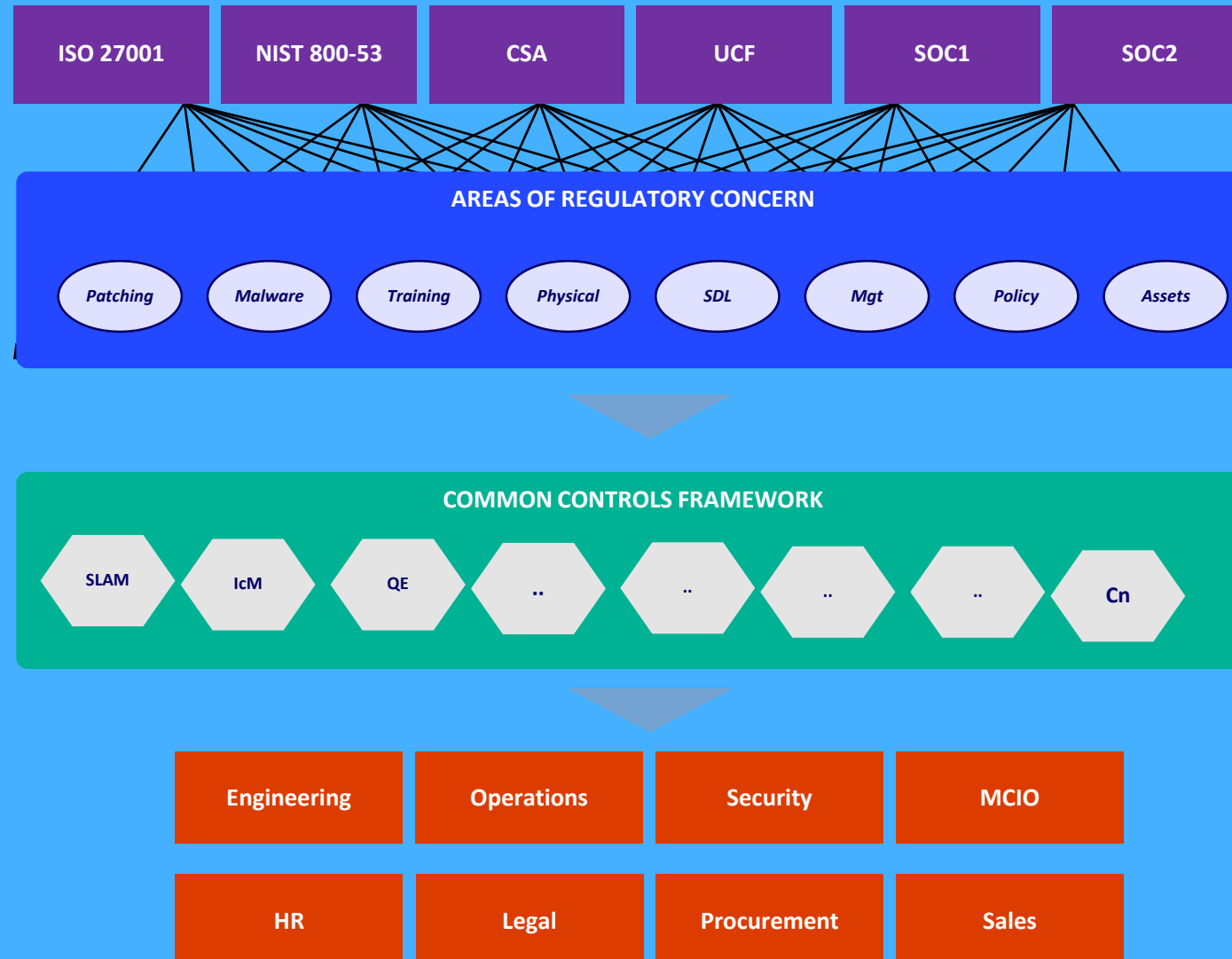
A photograph of a modern office interior. On the left, there are large windows with white frames, looking out onto a city building. The ceiling is white with exposed beams and recessed lighting. A blue wall on the right side of the frame contains the text "Transparency Center: Brussels".

Transparency Center: Brussels

Compliance



Master Controls Approach





Selection vs Specification



Getting Comfortable

Select a service to be provided

Assess the compliance environment

Review the current "as-is" environment

Conduct preliminary PIA & TRA

Pilot the service



Assess the risk delta

Review the SLA

Build out the business case

Decide and manage the risk

Consume the cloud service





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