Effective and Trustworthy Cloud
for ICT Statistics and Indicators Portal

John Cann
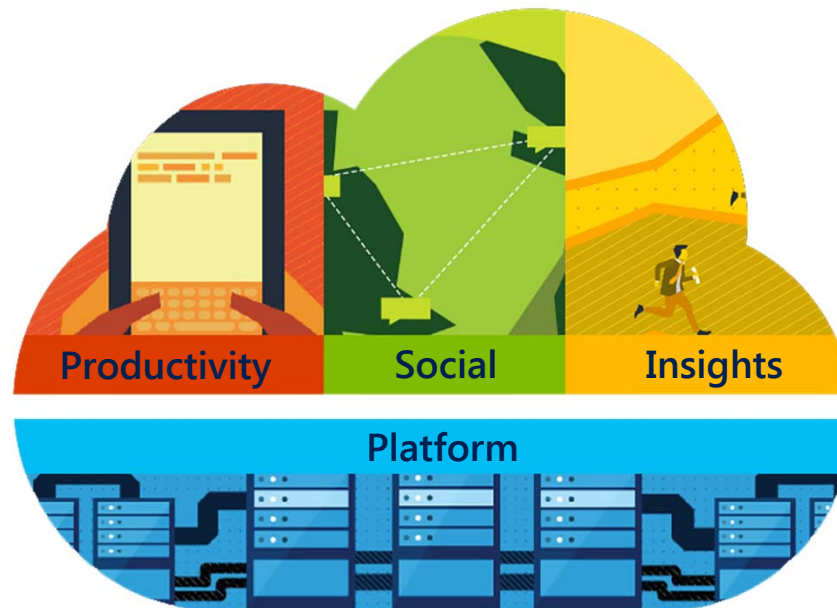Asia Director, International Organizations

Beginning with the End...

Why is Cloud a good option for an ICT Indicators and Statistics Portal?

More flexible and agile

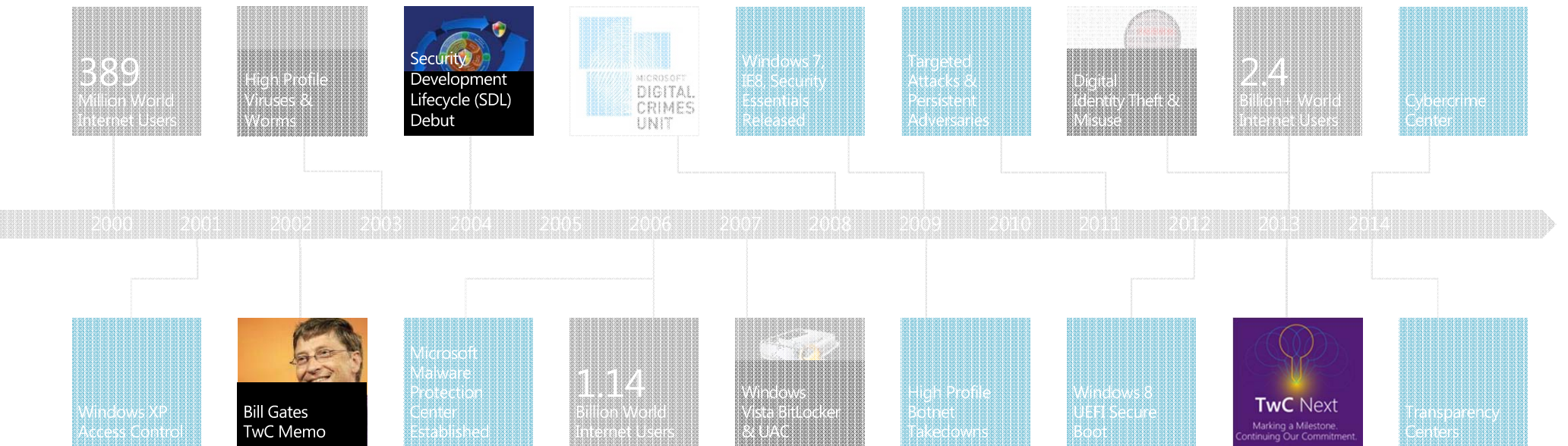More elastic and scalable

Technology agnostic

Productivity   Social   Insights

Platform

Supports heterogeneous data extraction

Pay for only what you use

Built in redundancy

But can Cloud be trusted?
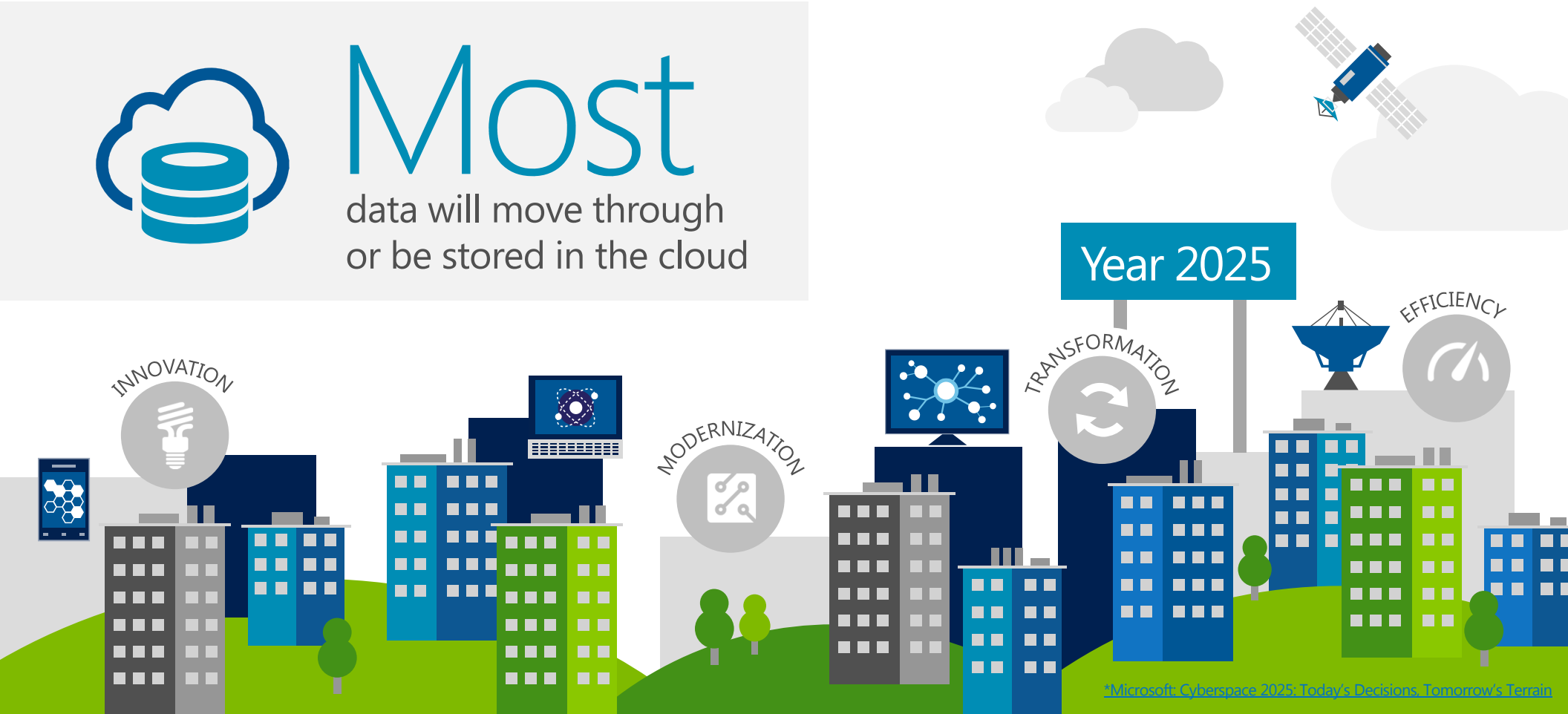
Security is a top corporate priority

389 Million World Internet Users

High Profile Viruses & Worms

Security Development Lifecycle (SDL) Debut

MICROSOFT DIGITAL CRIMES UNIT

Windows 7, IE8, Security Essentials Released

Targeted Attacks & Persistent Adversaries

Digital Identity Theft & Misuse

2.4 Billion+ World Internet Users

Cybercrime Center

2000　2001　2002　2003　2004　2005　2006　2007　2008　2009　2010　2011　2012　2013　2014

Windows XP Access Control

Bill Gates TwC Memo

Microsoft Malware Protection Center Established

1.14 Billion World Internet Users

Windows Vista BitLocker & UAC

High Profile Botnet Takedowns

Windows 8 UEFI Secure Boot

TwC Next
Marking a Milestone. Continuing Our Commitment.

Transparency Centers

New opportunities enabled by technology

Most
data will move through or be stored in the cloud
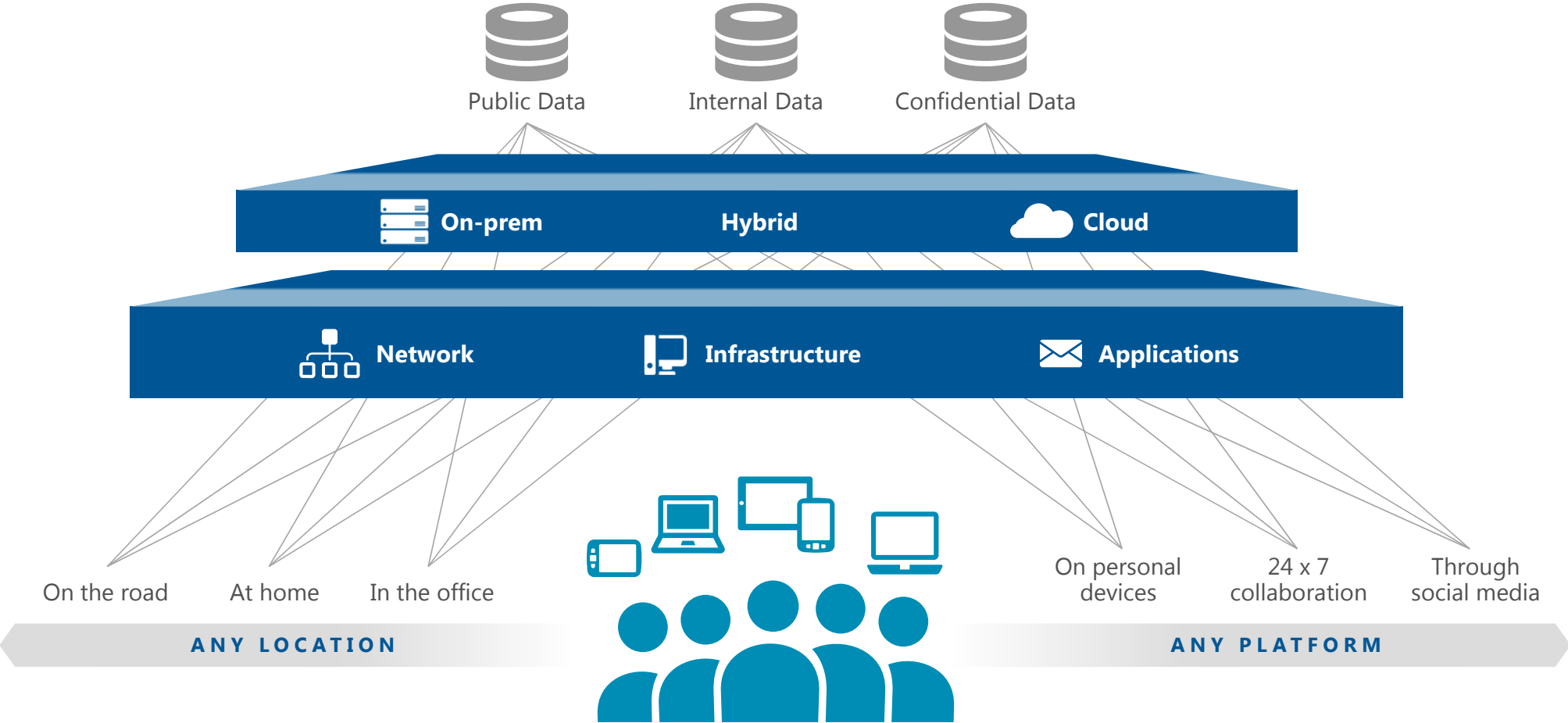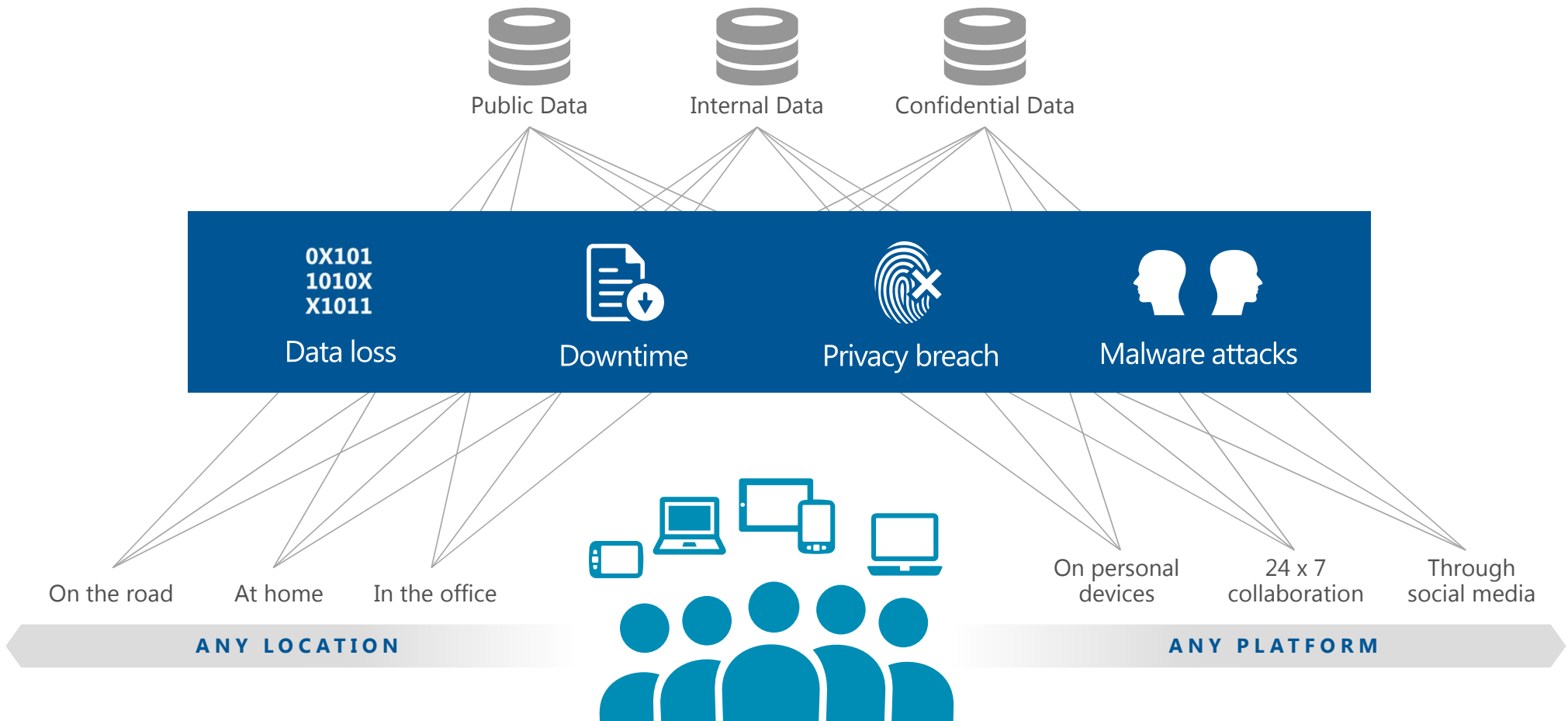
Year 2025

INNOVATION

MODERNIZATION

TRANSFORMATION

EFFICIENCY

*Microsoft: Cyberspace 2025: Today's Decisions, Tomorrow's Terrain

Creating a rich landscape for modern work

Public Data

Internal Data

Confidential Data

On-prem	Hybrid	Cloud

Network	Infrastructure	Applications

On the road   At home   In the office

On personal devices   24 x 7 collaboration   Through social media

ANY LOCATION

ANY PLATFORM

But evolving threats expand the attack surface

Public Data

Internal Data

Confidential Data

0X101
1010X
X1011

Data loss

Downtime

Privacy breach

Malware attacks

On the road

At home

In the office

On personal devices

24 x 7 collaboration

Through social media

ANY LOCATION

ANY PLATFORM

Balancing opportunities and risks

OPPORTUNITIES

Innovation

Modernization

Transformation

Efficiency

0X101
1010X
X1011

SECURITY

STRATEGY

Data loss

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ANY LOCATION
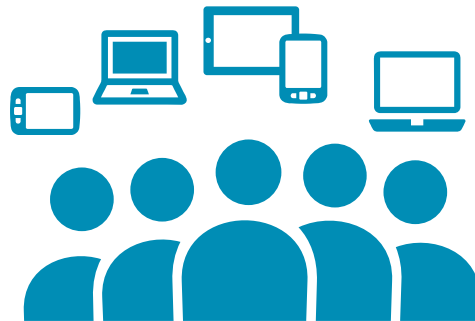
ANY PLATFORM

A Trustworthy Cloud

Cybersecurity 🔒

Best-in-class security with decades
of experience building enterprise software and online services

Privacy

Privacy by design with a commitment to use customers' information only to deliver services and not for ads

Compliance

Commitment to industry standards and organizational compliance

Transparency

Microsoft's publication of the Software Development Lifecycle (SDL)
sharing our own operational best practices with customers and partners,
publishing our Law Enforcement Transparency Reports, and investing in Transparency Centers.

Privacy by Design

Built-In Privacy

- Privacy needs assessed and addressed throughout the development cycle
- Privacy features and controls built in to services

No Advertising

- We don't advocate advertising products using your private customer data
- No scanning of email or documents for advertising purposes

Transparency

- Access to information about geographical location of data, who has access, and when
- Notification to customers about changes in security, privacy, and audit results available upon request

Compliance

Built-In Capabilities for Global Compliance

- Enable customers to meet global compliance standards in ISO 27001, EUMC, HIPAA, FISMA

- Contractually commit to privacy, security and handling of customer data through Data Processing Agreements

Customer Controls for Compliance with Internal Policies

- Admin Controls like Data Loss Prevention, Archiving, E-Discovery to enable organizational compliance

Transparency in Action

Where is data stored?

In some cases customers may specify
the region where data is stored
(Europe, US, Asia)

Clear data maps and geographic boundary information should be provided
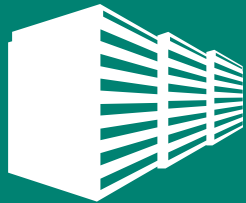
Who accesses and what is accessed?

Core customer data accessed only for troubleshooting and malware prevention

Core customer data access limited to key personnel on an exception basis

Transparent about subcontractors

Flow through of commercial terms to our subcontractors

How to get notified and what do we share?

Provider should notify you of changes
in data map information

Provider should notify you about new subcontractors

Make available a summary of audit reports upon request

How Service Providers Support Cloud

| Protect your infrastructure | Safeguard your data | Manage identity & access | Simplify management | Ensure privacy & compliance |

Cloud

Protect cloud infrastructure with layered security

Encrypt individual files, folders, and removable storage devices

Create persistent, secured connections & enable multi-factor authentication

Unify management with a single administrator console

Proactively meet your compliance needs and ensure data privacy
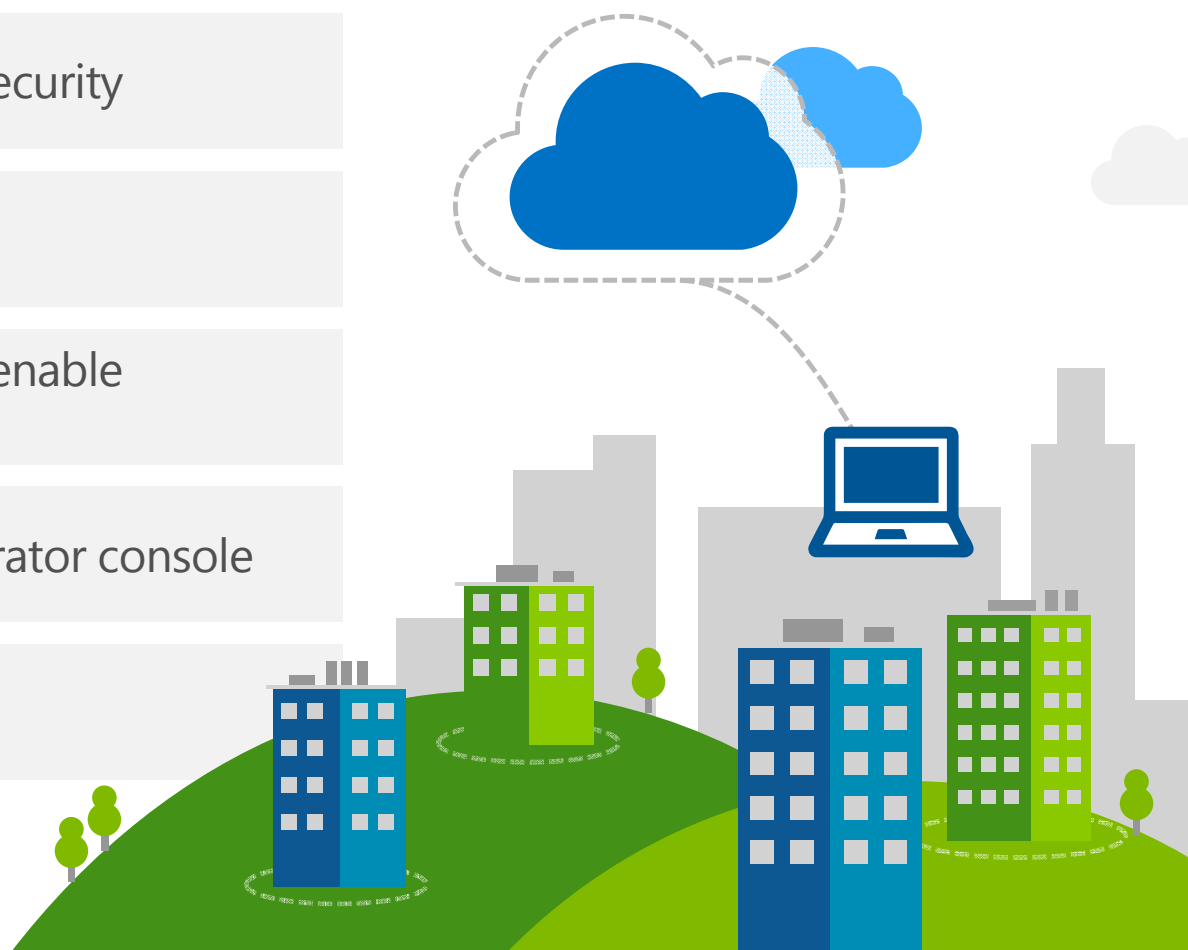
Devices

Use devices with secured start-up and full-featured anti-malware

Prevent unauthorized access to data and remotely wipe devices

Provide single sign-on with support for virtual smartcards and biometrics

Manage PCs, Windows devices, Apple iOS, and Android devices

Configure policies with granularity to lock down functionality as needed

Services

Respond to incidents and understand your risk for breaches in critical areas
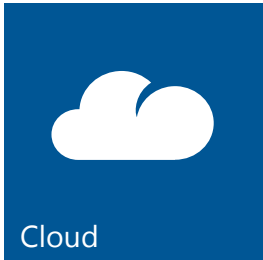
Help protect information wherever it is stored

Proactively identify threats and manage what resources each user can access

Define a strategic roadmap to plan appropriate mitigations

Investigate events and implement short and long-term mitigations

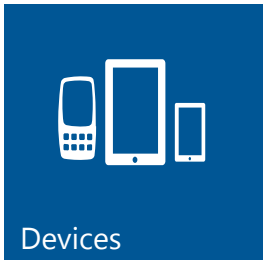# Security capabilities across Microsoft offerings

Cloud

Office 365   Microsoft System Center   Windows Server

Microsoft Dynamics CRM Online   Windows Azure

Devices

Windows   Surface   Windows Phone

Consulting Services

Microsoft | Consulting Services   Microsoft | Premier Support Services

Microsoft