Microsoft

Security

Hans Bos
National Technology Officer
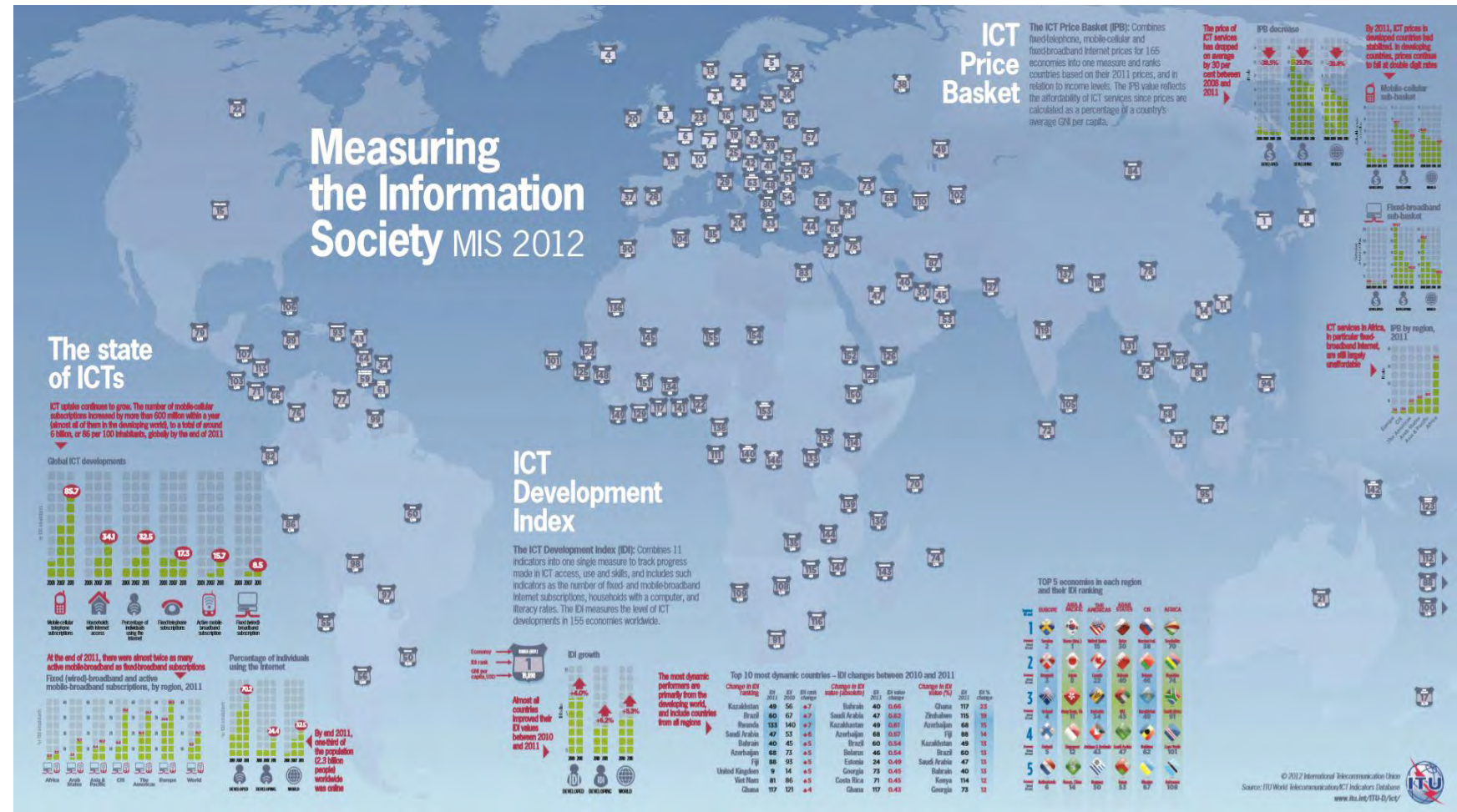Microsoft The Netherlands
hans.bos@microsoft.com

Measuring the Information Society 2012

The Netherlands

#6 ICT Development Index
ITU Information Society 2012

#11 Networked Readiness
Global IT Report 2010-2011
World Economic Forum

#5 Global Competitiveness
Global Competitiveness 2012-2013
World Economic Forum

Households in The Netherlands

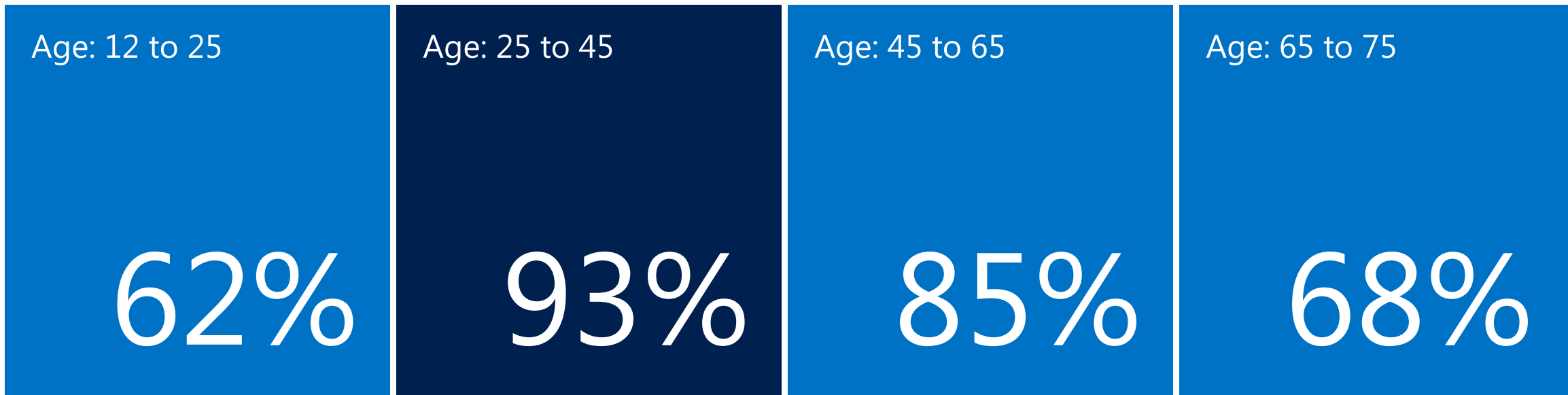**94%** own one or more PC's

94% with internet access

83% broadband internet

79% active e-commerce

Example: Telebanking

Use of internet for telebanking in 2011 as percentage of internet users.

Age: 12 to 25	Age: 25 to 45	Age: 45 to 65	Age: 65 to 75
62%	93%	85%	68%

Source: CBS, Central Bureau for Statistics in The Netherlands

It's not just that software runs the power grid, the global financial system, and the armed forces around the world, but that the fabric of society is connected through email, browsing, social networking, search, and web applications.

Scott Charney
CVP Trustworthy Computing
Microsoft

Hacking in the Netherlands Took Aim at Internet Giants

By THE ASSOCIATED PRESS
Published: September 5, 2011

AMSTERDAM (AP) — Attackers who hacked into a Dutch Web security firm have issued hundreds of fraudulent security certificates for intelligence agency Web sites, including the C.I.A., as well as for Internet giants like Google, Microsoft and Twitter, the Dutch government said on Monday.
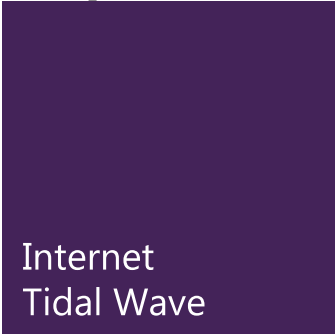
Experts say they suspect the hacker — or hackers — operated with the cooperation of the Iranian government, perhaps in attempts to spy on dissidents.

The latest versions of browsers including Microsoft's Internet Explorer, Google's Chrome and Mozilla's Firefox are now rejecting certificates issued by the firm that was hacked, DigiNotar.

But in a statement on Monday, the Dutch Justice Ministry published a list of the fraudulent certificates that greatly expands the scope of the July hacking attack that DigiNotar acknowledged only last week. The list also includes certificates that were sent to sites operated by Yahoo, Facebook, Microsoft, Skype, AOL, the Tor Project, WordPress, and by intelligence agencies like Israel's Mossad and Britain's MI6. (…)

Trustworthy Computing

Microsoft

Server Proliferation

Blaster / Slammer

SIRv1

SDL Agile

Devices Everywhere

| 1990 | 1994 | 1998 | 2002 | 2003 | 2004 | 2006 | 2008 | 2009 | 2010 | 2012 |

Internet Tidal Wave

Bill Gate's TwC Memo

XP SP2

CSA Founded

Coordinated Vulnerability Disclosure

TwC Next

Example: Microsoft IT

RISK MANAGEMENT

Intellectual property protection
Increased Data Leakage and Portability
Insider Threats
Risk Management vs Risk Elimination
Business Continuity

BUSINESS ENVIRONMENT

Support the rapidly changing business
Improved Business Intelligence
Robust continuity plans
Deliver fist and best

TECHNICAL EXCELLENCE

Cloud Computing
Data loss prevention
SIEM platforms and programs
IAM Governance and process
Emerging technologies

OPERATIONAL EXCELLENCE

Better integration with board/ERM
Vendor and 3rd party management
Asset and configuration management
Executive reporting and metrics
Awareness and training

Microsoft

41,000 Windows Phones

700,000 Sharepont Sites

102,000 Windows clients

49% of users on Lync

100+ countries

190,000 end users

1.3 million devices

1.7B hits/day microsoft.com

7M spam filtered per day

85M Ims per month

34K Lync sessions per month

Example: Security Intelligence Report

Worldwide Threat Assesment

Infiltration of Supply Chain

Vulnerability trends

Criminal focus on Java and HTML

Exploit trends

Malware / potentially unwanted software

SPAM, Phishing and drive-by attacks

Microsoft Security Intelligence Report

Volume 13
January through June, 2012

Regional Threat Assessment

105 regions

www.microsoft.com/sir

Example: Security Intelligence Report

Top Exploits

HTML/JavaScript

Java

Documents
Operating System
Shellcode
Adobe Flash (SWF)
Other
Heapspray

1Q11   2Q11   3Q11   4Q11   1Q12   2Q12
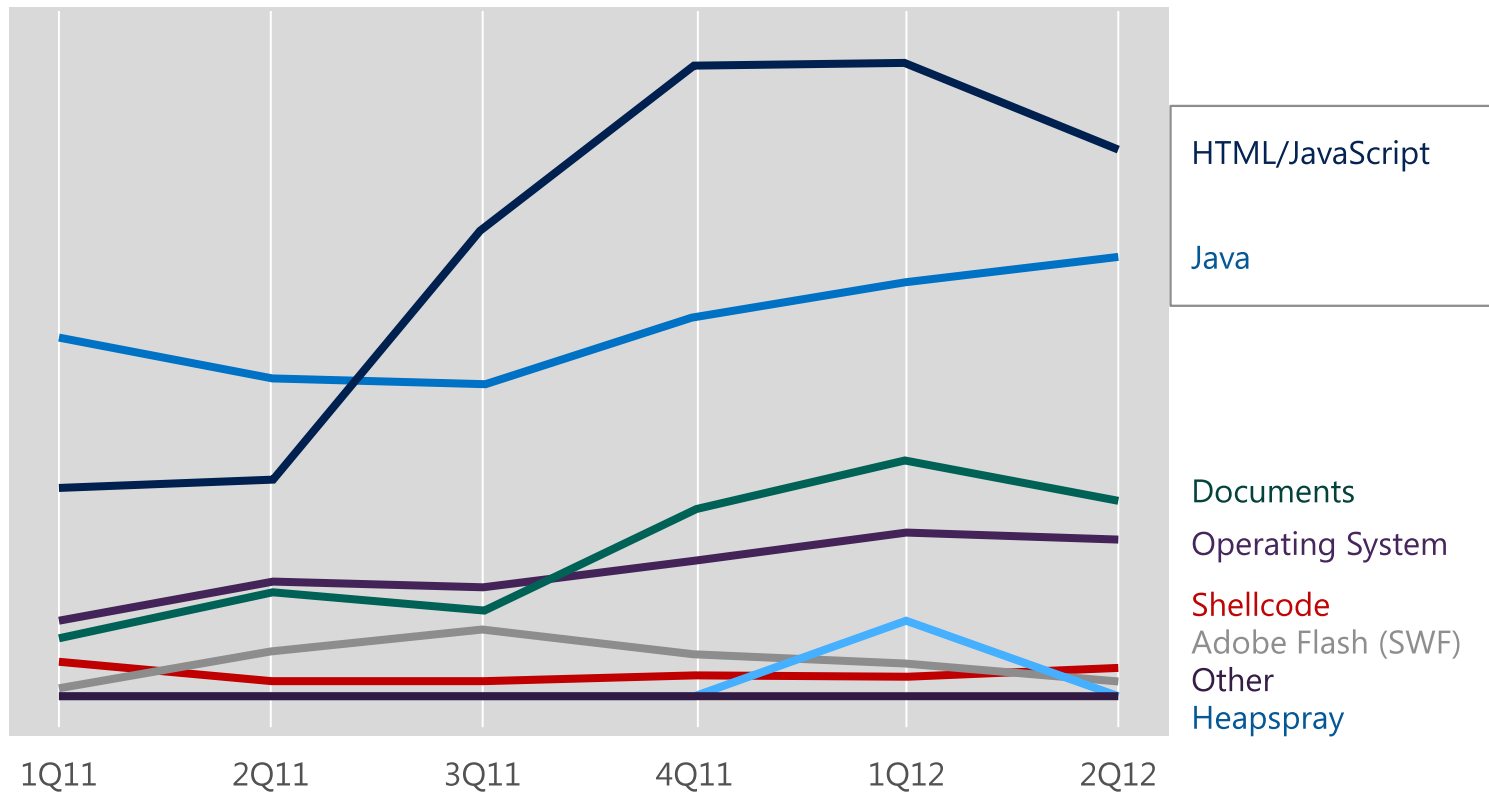
Microsoft Security Intelligence
Report

Volume 13
January through June, 2012

HTML/Java ➔ 70% of Top Exploit Families

Smart Energy Reference Architecture (SERA)

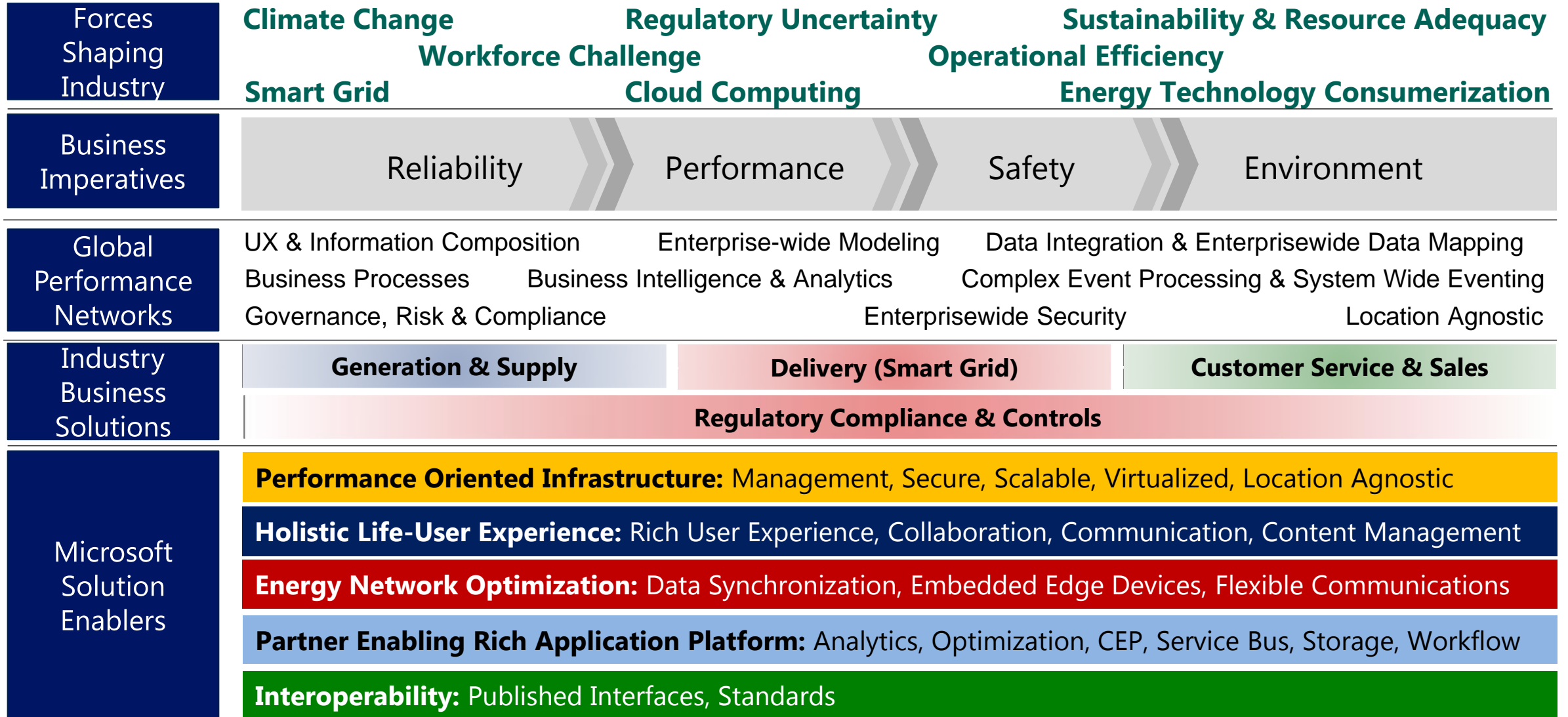| Forces Shaping Industry	Climate Change Regulatory Uncertainty Sustainability & Resource Adequacy Workforce Challenge Operational Efficiency Smart Grid Cloud Computing Energy Technology Consumerization
Business Imperatives	Reliability › Performance › Safety › Environment
Global Performance Networks	UX & Information Composition Enterprise-wide Modeling Data Integration & Enterprisewide Data Mapping Business Processes Business Intelligence & Analytics Complex Event Processing & System Wide Eventing Governance, Risk & Compliance Enterprisewide Security Location Agnostic

Industry Business Solutions

Generation & Supply	Delivery (Smart Grid)	Customer Service & Sales

Regulatory Compliance & Controls

Microsoft Solution Enablers

Performance Oriented Infrastructure: Management, Secure, Scalable, Virtualized, Location Agnostic

Holistic Life-User Experience: Rich User Experience, Collaboration, Communication, Content Management

Energy Network Optimization: Data Synchronization, Embedded Edge Devices, Flexible Communications

Partner Enabling Rich Application Platform: Analytics, Optimization, CEP, Service Bus, Storage, Workflow

Interoperability: Published Interfaces, Standards

Cybersecurity Policy & Partnership Evolutionary Curve

International	Public-Private Partnership models for international level collaboration need stronger support from both government and industry	

Year	Milestone
2020	Harmonization
2015	Norms
2010	Internet Governance

National	Public-Private Partnership models maturing at the National Level for more than 10 years around the world	

Year	Milestone
2005	Resiliency
2000	Risk

New challenges need new models

Inclusivity is key to understanding full dimension of cybersecurity challenges

International system not set up for enabling PPP to assist

"My dear fellow," said Sherlock Holmes as we sat on either side of the fire in his lodgings at Baker Street, "life is infinitely stranger than anything which the mind of man could invent."

A Case of Identity

The Adventures of Sherlock Holmes
Arthur C. Doyle