



Each customer faces a fundamental decision: will technology simply enable, potentially differentiate, or fundamentally define their business strategy? This decision is at the heart of the digital transition that every country, city and company is undergoing, and we intend to be the most strategic partner for our customers during each stage of this transition."

Chuck Robbins

2

Cisco CEO

Digitization is Transforming Businesses



Digital disruption will displace 40% of incumbent companies in the next 5 years

Organizations are at different stages in their Journey Using technology to

Differentiate

Enable



Define



IT Agility and Increased **Productivity**

New User Experiences, Products, Services

Business Model Innovation / Industry Transformation

Cisco's Role in Digital Transformation



85% of Worlds Data Touches
Cisco Infrastructure

The IT Digital Readiness Index

measures IT organizations' readiness to support digital business transformation by assessing critical capabilities in 10 categories



SURVEY OVERVIEW

2040 Enterprise ္မင္မ **IT Leaders**



Industries **TRANSPORT**





















- Foundational Infrastructure
- Virtualization Technology 2
- **Automation & Orchestration** 3
- Self-Service IT Capabilities 4
- 5 IT Service Standardization
 - IT Financial Practices 6
- Cloud Capabilities and Strategy
- **Application and Data Environment** 8
- Security Policy and Practices 9
- IT Operations and Skillsets 10

Questions



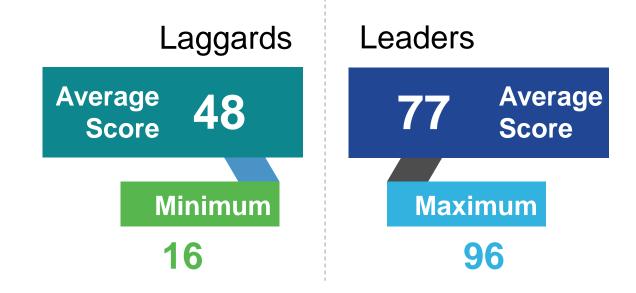
IT Focus Areas

Score per Respondent (0-100)

DIGITAL READINESS INDEX: GLOBAL RESULTS

We divided the groups into thirds and compared the top third "Leaders" and the bottom third "Laggards" to understand how they differ.

Digital Readiness Index Overall



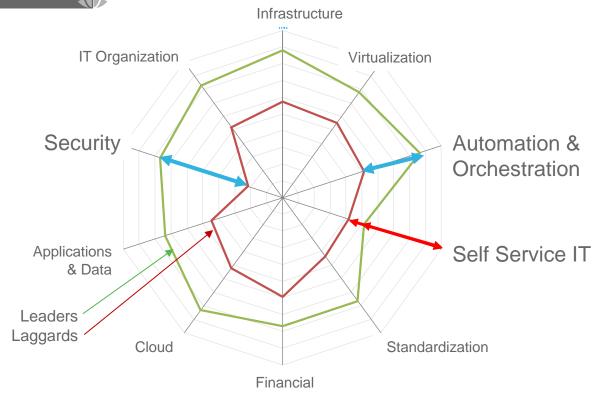


DIGITAL READINESS INDEX BY FOCUS AREA



Security and
Automation showed
the biggest gaps
between leaders
and laggards

Self Service IT was problematic across all groups



KEY TAKEAWAYS: SECURITY



SECURITY IS IT'S BIGGEST CHALLENGE

When asked their most difficult challenges to overcome, IT leaders cited "Security" as #1 (43% responded Security was their biggest challenge).

Security is mentioned by more than half (52%) of US IT Leaders.

SECURITY POLICY AND PROCESS ARE OUTDATED

Less than half of companies maintain a security policy that is reviewed and updated on a regular basis.

MANY STRUGGLE WITH COMPLIANCE TO SECUITY POLICY

Companies have sufficient technology and processes in place to maintain just 65% compliance, on average, to the security policies that exist.

The US is ahead of the curve on compliance. Australia is far behind.

KEY TAKEAWAYS: AUTOMATION



HELP DESK DEPENDENCE

One in four IT service requests still goes through a help desk.

For government agencies, this number climbs to nearly 1 in 3.

AUTOMATION GAP

Automation is critical to digital enablement, yet more than 60% of IT service request fulfillment is peopledependent.

This number climbs to 70% within government.

TOO SLOW

Only 44% are able to deliver on new requests for existing IT services within a 48 hour time frame.

1 in 3 require a month or longer to provision infrastructure to support a new business application.

KEY TAKEAWAYS: IT SKILL SETS



IT SKILLS ARE A KEY CONCERN

Evolving the IT skill set is considered the second-most difficult challenge for IT.

Concern is especially high in the US and India with 41% and 46% of respondents citing this, respectively (vs. 33% on average).

IT ROLE EVOLVING

IT leaders predict the need to re-train and redeploy staff as job becomes less hands-on and more managerial. Leaders predicted the need for more multitechnology expertise, contract negotiation, and vendor management skills.

ROLES IMPACTED

IT leaders anticipate traditional data center and network management roles will become more generalist roles.

IT Leaders anticipate rise in number of information security professionals.

KEY TAKEAWAYS: CLOUD INSIGHTS



US PUBLIC CLOUD ADOPTION LAGS

Only 65% of US companies are using Public Cloud application deployments (vs. 72% globally). 15% have no plans to use public cloud (vs. 6% globally).

1 in 6 have no plans to enable data access to/from the public cloud.

HYBRID CLOUD IS STILL NASCENT

only 10% of US respondents claim to be able to burst into the Public Cloud.

US application migration to cloud platforms also lags behind other countries.

NO CHANGE IN THE NEAR FUTURE

US IT professionals are behind the rest of the world on ability to move workloads into the cloud, but they don't anticipate improving faster than their peers over the next two years.

KEY TAKEAWAYS: ENABLING TECHNOLOGIES



DATA STRATEGY IS LIMITING AGILITY

Fewer than 1 in 5 companies today can make data accessible to Public Cloud based applications

CRITICAL APPS ARE NOT CLOUD READY

Only 15% of companies can automatically burst loads to public cloud services to meet demand

1 in 4 companies maintain ALL mission critical applications on dedicated physical servers.

LONG LEAD TIMES TO PROVISION INFRASTRUCTURE

1 in 3, in fact, require a month or longer to provision infrastructure to support a new business application.

KEY TAKEAWAYS: MANUFACTURING LEADING



IN SECURITY

- 3 in 5 have security policy framework that is documented, reviewed and updated on a regular basis
- 1 in 3 boast 90%+ compliance with security policies, and 3 in 4 have 70%+ compliance
- More than 4 in 5 are regularly tracking and reporting service delivery effectiveness metrics

IN AUTOMATION

- 1/3 are able to move virtualized workloads automatically across interconnected data centers, public cloud services (vs. 1/4 on average)
- Half as likely still to rely on informal scripts to manage resources
- More than 9 in 10 automate nonvirtualized workloads (vs. 85% on average)

IN ADAPTABILITY

- More than half proactively manage technology lifecycles with planned upgrades and replacements (as compared to just 43% on the whole)
- 45% are able to meet 60% or more of IT service requests with current catalog (as compared to just 1 in 3 on average)

KEY TAKEAWAYS: BELIEF VS. REALITY

INDIVIDUAL BELIEFS NOT ALIGNED TO CAPABILITIES

Some groups believe themselves to be well ahead of reality, while others do not give themselves enough credit for being ahead of the game. Beliefs in general did not map to capabilities.

COUNTRIES & INDUSTRIES

China rates itself lower than it should, India rates itself higher, Australia rates itself far higher, and the US rates itself higher on some dimensions and lower on others vs. the objective Index. No vertical stood out with better subjective insights about itself.

ALL BELIEVE THEY ARE BETTER PREPARED THAN PEERS

When asked to rate abilities subjectively vs peers, all countries and industries believe themselves to be more capable than their peers.



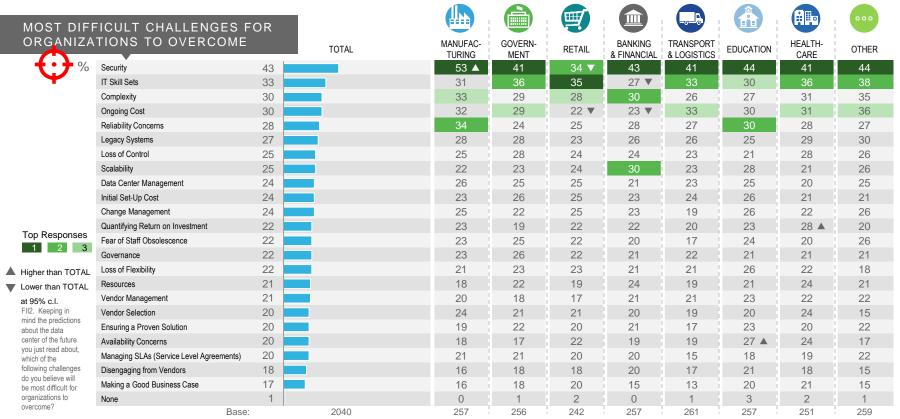








GLOBAL





METHODOLOGY



Online Survey

TARGET COUNTRIES N=



Fielded June 11 - July 31, 2015



Average Completion Time: 30 minutes



8 Countries 8 Verticals





US



MEXICO



BRAZIL



UK



GERMANY







INDIA



























MANUFAC- TURING	GOVERN- MENT	RETAIL	BANKING & FINANCIAL SERVICES	TRANSPOR- TATION & LOGISTICS	EDUCATION	HEALTH- CARE	OTHER	
257	256	242	257	261	258	251	259	
29	32	32	33	31	32	33	31	
33	33	14	31	33	33	22	32	
33	32	33	29	33	31	33	33	
32	30	31	33	32	31	32	32	
33	30	33	32	33	33	32	33	
32	33	33	33	33	33	33	32	
32	33	33	33	33	32	33	33	
33	33	33	33	33	33	33	33	

Note: Retail and Healthcare in Mexico (cells in red above) fell short of target levels and are included in roll-ups but not reported out separately.



QUALIFICATION CRITERIA

Screening for sensitive employment

Represents one of the targeted industry verticals

3 Organization has 1,000+ employees (US) OR 500+ employees (rest of world)



Employed full-time directly by the company

WORKS IN:

- 11
- ✓ DEV/OPS
- ✓ IT SECURITY

AS:

- ✓ EXECUTIVE
- or
- ✓ DIRECTOR
- ✓ MANAGER



Has influence/ responsibility in data center management

Company has at least 2 physical data centers 7

MUST:

- ✓ be financial decision-maker
- ✓ be part of committee that makes decisions
- ✓ make recommendations

FOR AT LEAST 3:

- ✓ data center networking
- ✓ data center computing/services
- ✓ server virtualization
- ✓ data center storage

- ✓ data center security
- ✓ private cloud development, implementation and/or maintenance



SAMPLING FRAME

Artificially Manipulated

not representative of industry mix within country

We forced equal representation of the 8 verticals...

... and focused on large organizations:

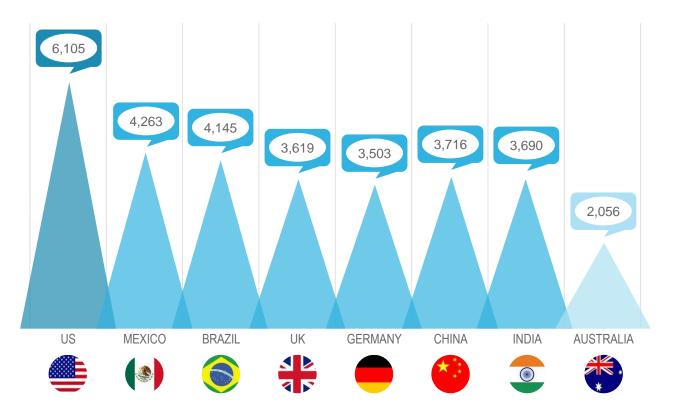
1,000+ employees in US

500+ employees in all other countries

Multinational Corporations



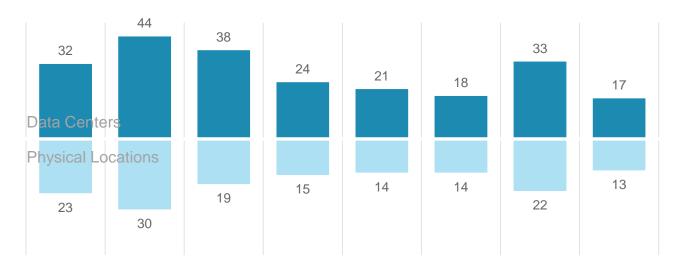
AVERAGE NUMBER OF EMPLOYEES



Companies in the United States have the greatest number of employees, by far (a result of its more rigorous requirement of 1,000+), while Australian companies are the smallest by a wide margin.

The other 6 countries average approximately 4,000 employees, with Mexico and Brazil pulling slightly ahead of the others.

SIZE OF ORGANIZATION AVERAGE NUMBER OF PHYSICAL LOCATIONS AND DATA CENTERS



US

MEXICO

BRAZIL

UK

GERMANY

CHINA

INDIA

AUSTRALIA















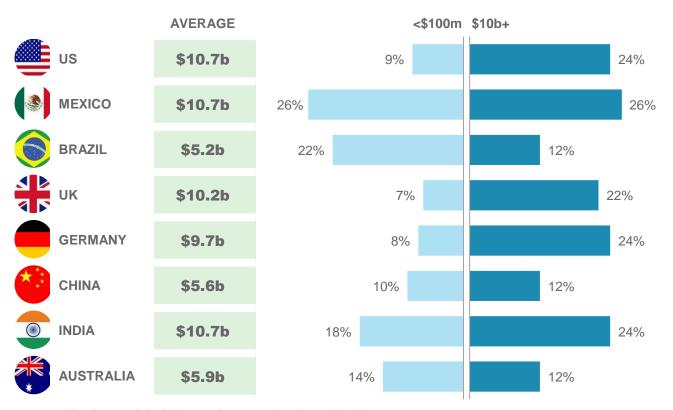




Mexico leads the rest of the world on both number of physical locations and number of data centers.

The US and India also have more data centers and physical locations than average, and while Brazil boasts the second-greatest number of data centers, its number of physical locations is at the global average.

REVENUE

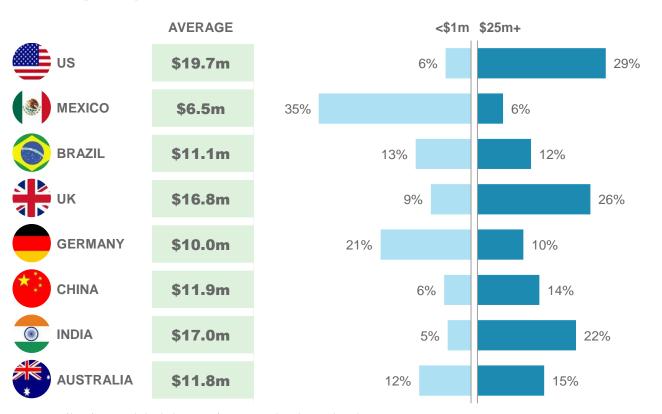


Companies in the US, Mexico and India have the highest revenue, on average, but note that Mexico - and to a somewhat lesser degree, India - have a balance of very large and very small players.

 In fact, it is their higher percentage of \$50b+ companies that drives their averages up to parity with the US.

Companies in Brazil represent the lowest revenues, while companies in China are also lower revenue, due to their concentration in the mid-sized range.

IT BUDGET



Companies in the United States have the greatest IT budgets by a wide margin, followed by India and the UK.

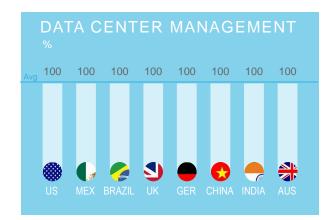
Even though Mexico boasts very high revenues, on average, its IT budgets do not keep pace, as they average about half that of other countries.

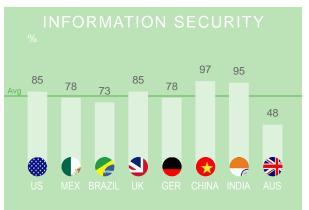


Respondents in India are more likely to be in IT Security, while Brazil – and especially China – skew Dev/Ops. The Executive/Director split should also be noted, as those in the UK, Germany, and Australia are more likely to be Executives, while those in Mexico, Brazil, China, and India are more likely to be Directors.

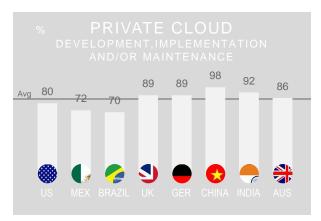
Note: Only significantly higher differences from Total at 95% c.l. are called out

AREAS OF INVOLVEMENT/RESPONSIBILITY







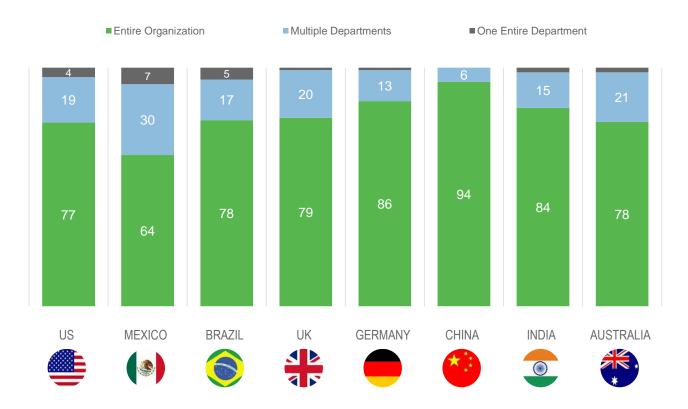


All study participants are involved in Data Center Management, required for participation.

Those in both China and India are very likely also to be involved in Information Security, Applications and Private Cloud, while Mexicans, and especially Brazilians, have lesser involvement in all three.

Fewer than half of Australians deal with Information Security, a huge gap vs. the other players, and they are also light on Applications.

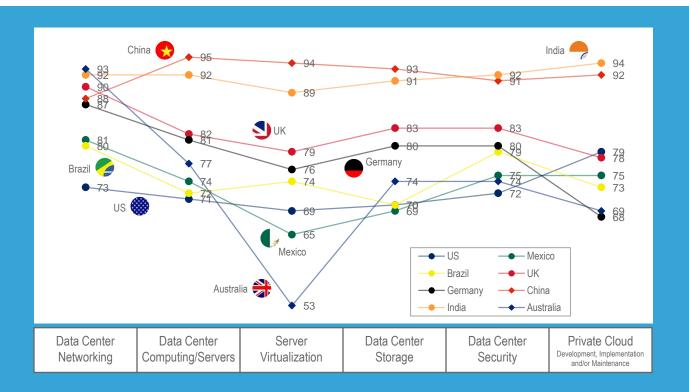
SCOPE OF DECISION-MAKING



Participants in China are the most likely to have decision-making responsibility for the entire organization, followed by Germany and India.

Those representing Mexico are the most likely to have their influence limited to departmental levels.

% FINAL DECISION-MAKER



All participants play a role in decision-making for all components of the data center, and the majority are, in fact, final decision-makers.

Even though participants in China and India are largely Directors, nearly all are final decision makers in all areas.

Server Virtualization decisions are the most likely to be made by committee, especially true in Australia and Mexico.