TOMORROW starts here.

Rob Lloyd President, Development and Sales

November 4, 2014

ıılıılı cısco. Chris White Senior Vice President, IoT/IoE Global Sales



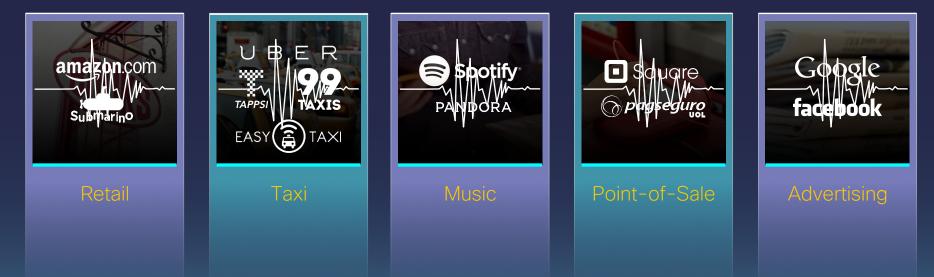
Forward-looking Statements

This presentation contains projections and other forward-looking statements regarding future events or the future financial performance of Cisco, including future operating results. These projections and statements are only predictions. Actual events or results may differ materially from those in the projections or other forward-looking statements. Please see Cisco's filings with the SEC, including its most recent filings on Form 10-K and 10-Q, for a discussion of important risk factors that could cause actual events or results to differ materially from those in the projections or other forward-looking statements.



CHANGE IS THE NEW STATUS QUO

Pace of Change is Accelerating



Technology Is Enabling Innovation and Disruption—

CIOs Top of Mind... Digital Company

BUSINESS PRIORITIES

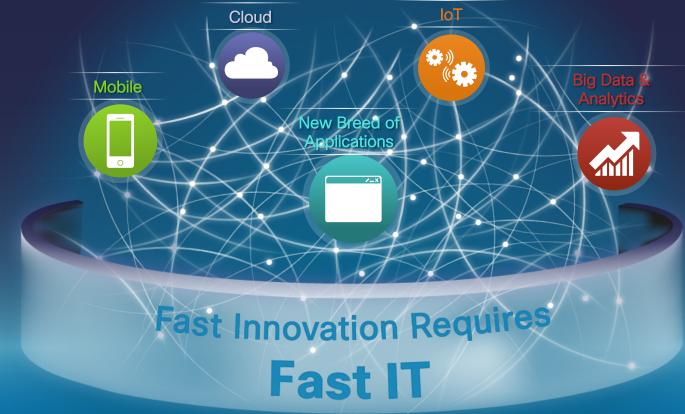
- Growth
- Cost Reduction
- Innovation
- Efficiency / Speed
- Security
- Customer Experience
- Productivity

TECHNOLOGY PRIORITIES

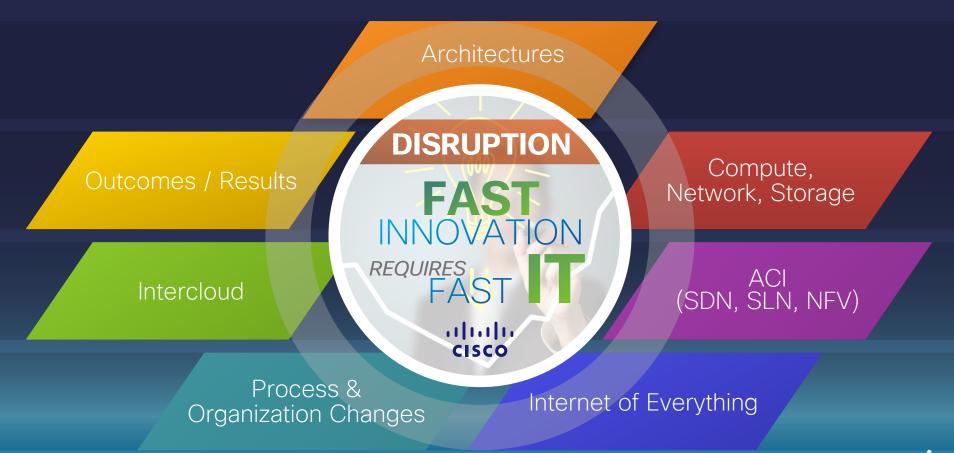
Cloud
Security
Mobility
IoE
Big Data / Analytics
Collaboration



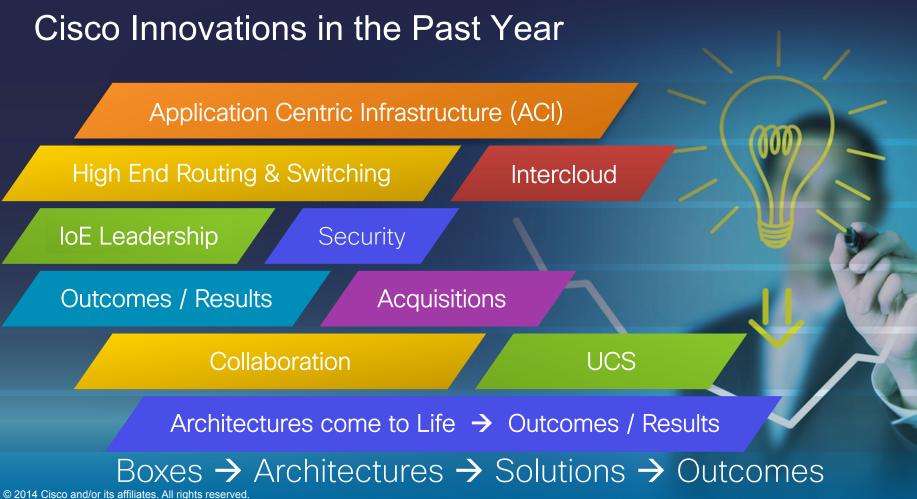
New Mandate for IT

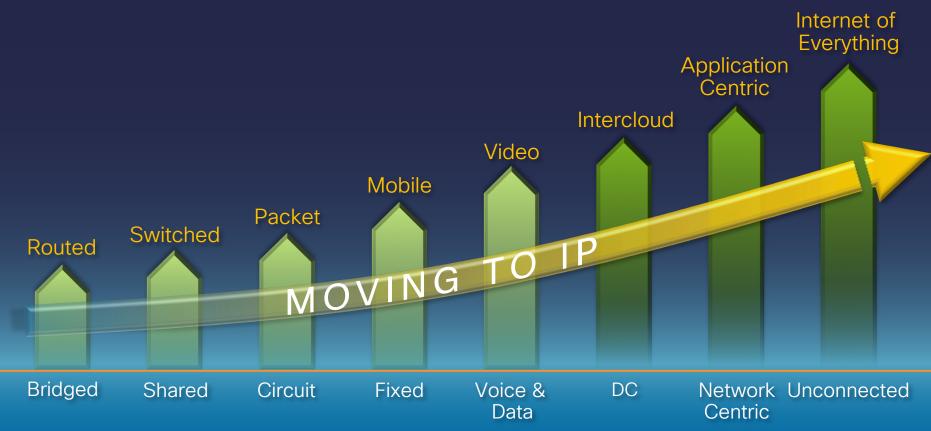


Ciscolive;











Internet of Everything

Digitizing / Connecting the World

1

Internet of Everything



THINGS

PROCESS



DATA

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PEOPLE

Internet of Everything Increasing Demands on IT



What is the Value at Stake?

\$19 TRILLION*



Private **\$14.4T**

- Asset Utilization
- Employee Productivity
- Supply Chain Logistics
- Customer Experience
- Source: Cisco Intern<u>et Business Solutions Group</u>, 2013

*2013-2022 - 10-year NPV



Public **\$4.6T**

- Increased Revenue
- Reduced Costs
- Employee Productivity
- Connected Public Safety
- Citizen Experience

The Internet of Everything Fast Innovation



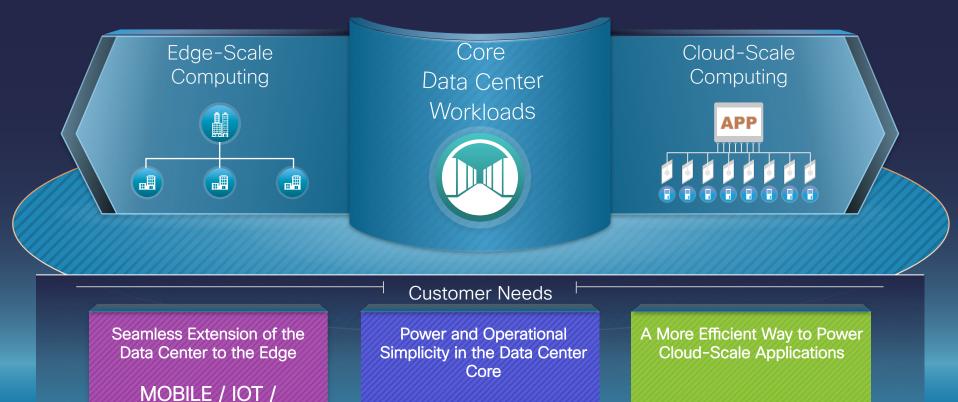
Source: Cisco Consulting Services, loE Economics 2013 © 2014 Cisco and/or its affiliates. All rights reserved.



Application Centric Infrastructure

Powering Applications at Scale

Powering Applications at Every Scale



MSFT / SAP / ORACLE

DEVOPS/WEBSCALE

© 2014 Cisco a

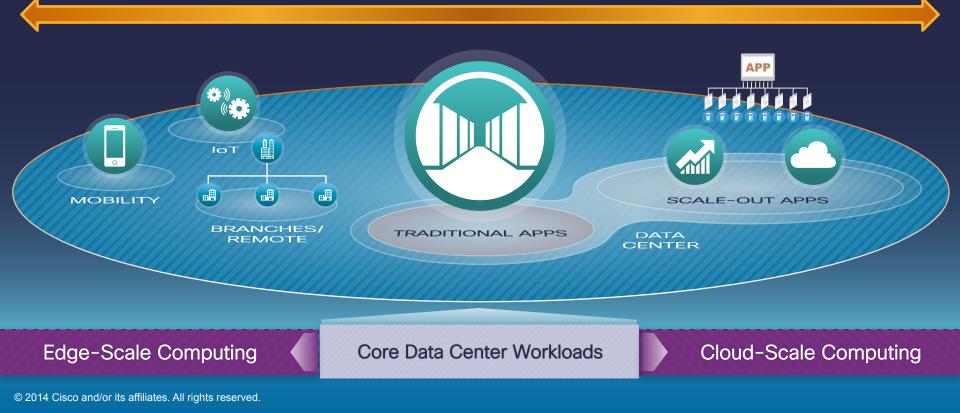
ANALYTICS

Applications Have Unique Requirements at Every Scale

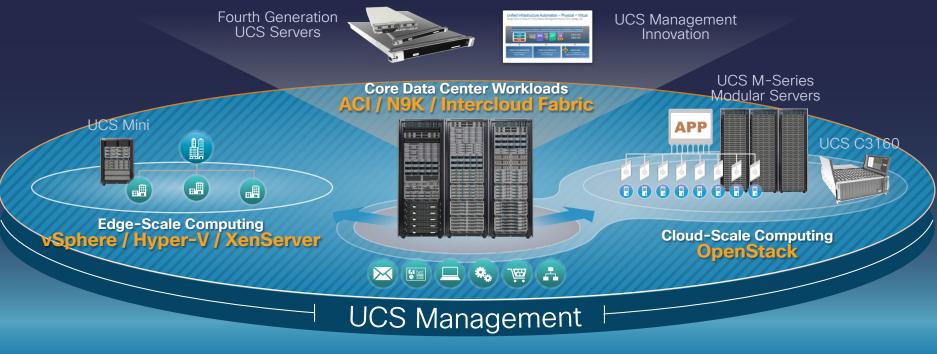
Connecting to Opportunity

Faster Decisions

Deeper Insight



Next Wave of Unified Computing Powering Applications at Every Scale

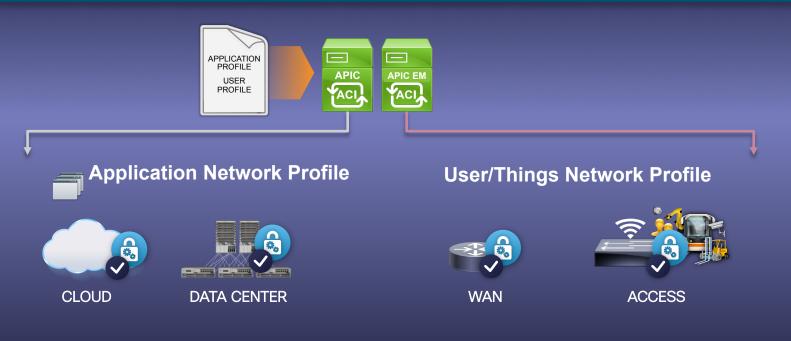


Compute • Network • Storage • Virtualization • Management and Automation



Cisco ACI Common Policy Model

Consistent Policy Across Cloud, DC, WAN and Access





Application Policy Infrastructure Controller (APIC)

Network Automation



Cisco

Cisco Application Centric Infrastructure

580+ Customers

Nexus 9000/ACI

60+ Customers 30 Days!



APIC



Open ACI Ecosystem

Building Blocks for Intercloud





Nexus 9k

Intercloud Fabric









Intercloud

Delivering Hybrid Clouds

Cloud Growth Through 2018

78% of all workloads will be in Cloud

70% of Cloud workloads still Private Cloud-related

incr in Clou

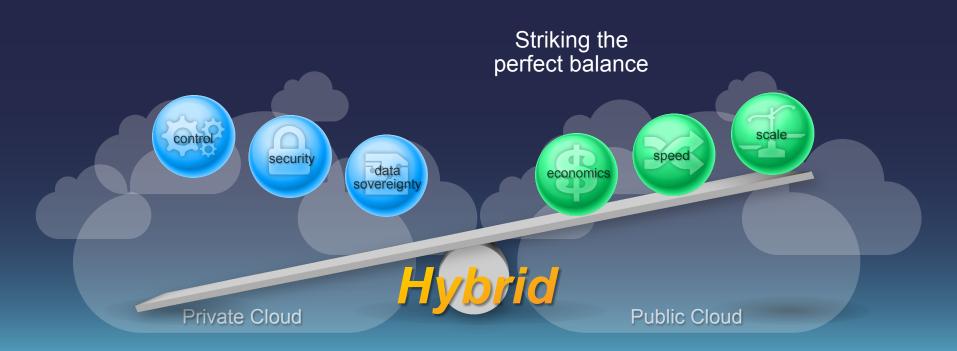
4X increase in Cloud Traffic

SaaS Dominates as most popular Cloud Service Model



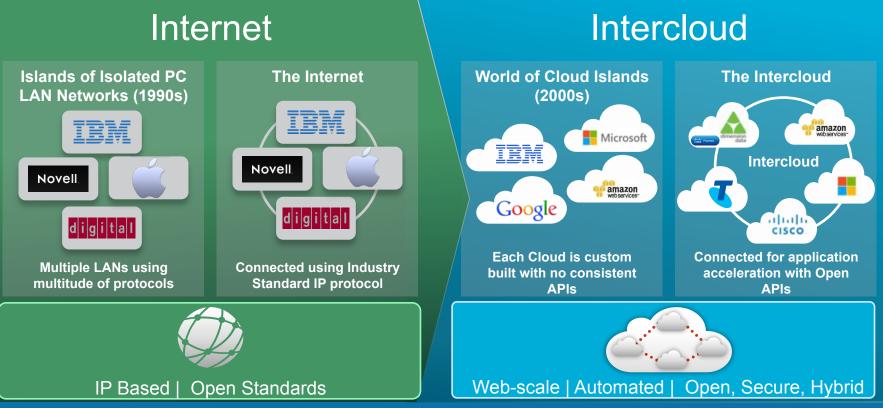
Source: Cisco Global Cloud Index, 2013–2018 © 2014 Cisco and/or its affiliates. All rights reserved.

Why Hybrid Cloud?





We Have Been Here Before



Intercloud Is...

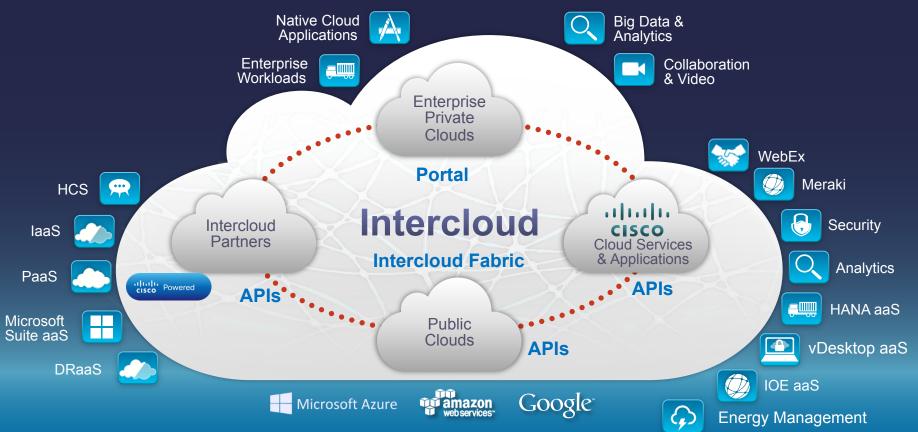
"...a globally distributed, highly secure cloud platform capable of meeting the robust demands of the Internet of Everything. Designed for high-value application workloads, with real-time analytics and "near infinite" scalability, Cisco's open approach to the Intercloud allows local hosting and local provider options that enable data sovereignty."

Enterprise Private Clouds





Intercloud Strategy



Intercloud Differentiated Principles

Hybrid Cloud requires the ability to place workloads on any cloud and move them back CIOs need application centric policy control across all IT components and all clouds at scale A network-centric partner ecosystem will provide the most choice and data sovereignty over a vendor direct model

The IoE explosion will require data virtualization in a highly distributed environment, not data replication



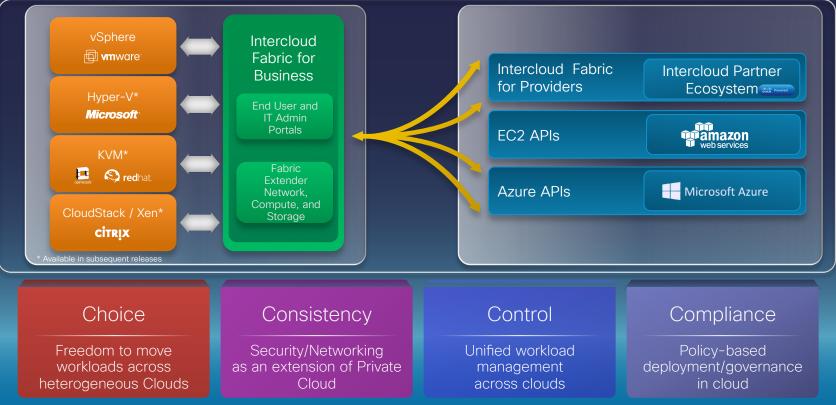
Cisco Unified Computing System (UCS): Building Block of Private Cloud Infrastructure



Cisco Intercloud Fabric Workload Portability in Hybrid Clouds

DC/Private Cloud

Provider Clouds



Common Policy and Workload Mobility Across All Deployment Models



Intercloud enables workload mobility with choice, consistency, control and compliance



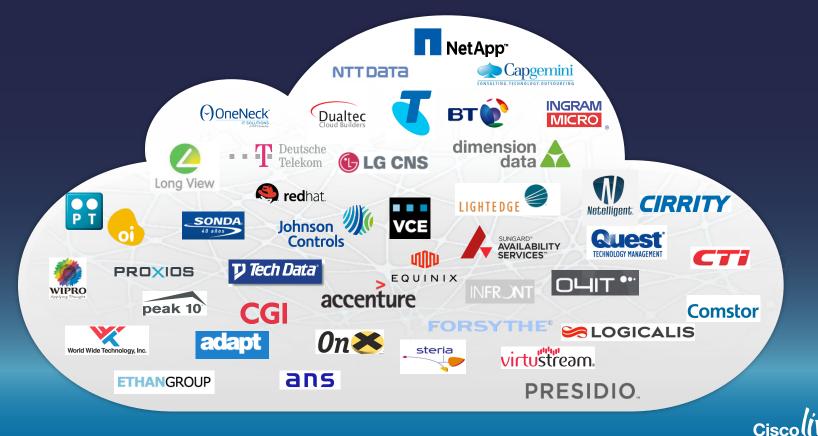




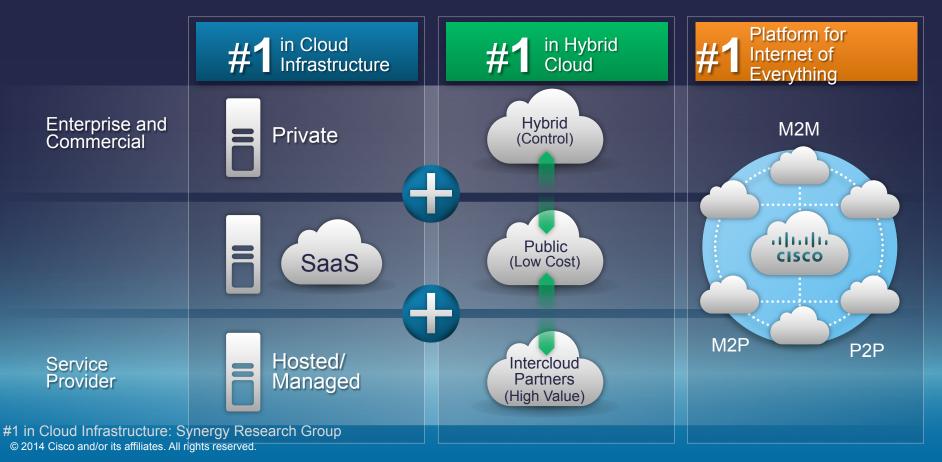
New LATAM Intercloud Partners



More Than 45 Partners in the Global Intercloud Ecosystem



Powering the Internet of Everything



Amazing Things Happen When You Connect the Unconnected

99%

of the world is still not connected



Ciscolive!

Unleash IoT Value with IoE

Networked Connection of People, Process, Data, and Things

People

Connecting People in More Relevant, Valuable Ways

Internet of Things

Connecting Physical Devices and Objects to the Internet and Each Other for Intelligent Decision Making



Process

Delivering the Right Information to the Right Person (or Machine) at the Right Time

Data

Using Data for Decision Making



IoE: Connecting Data with Business Outcomes



iscolive;

IoE Acceleration







What Is the Value at Stake?



What Fuels Internet of Everything Value At Stake?



The Internet of Everything has the potential to grow global corporate profits by 21% in 2022

*2013-2022 Source: Cisco IBSG, 2013 © 2014 Cisco and/or its affiliates. All rights reserved.

Total LATAM IoE Market Value is \$870B A Closer Look at Top LATAM IoE Verticals



Great IoE Opportunity Among Top LATAM Brands







Barcelona: Smart City...\$3.6B Value Creation



Digital Cities and Countries

CITIES

Barcelona Nice Hamburg Songdo Chicago Bangalore

COUNTRIES

Israel... 1st Digital State Germany... Industry 4.0 United Kingdom France South Korea Mexico India

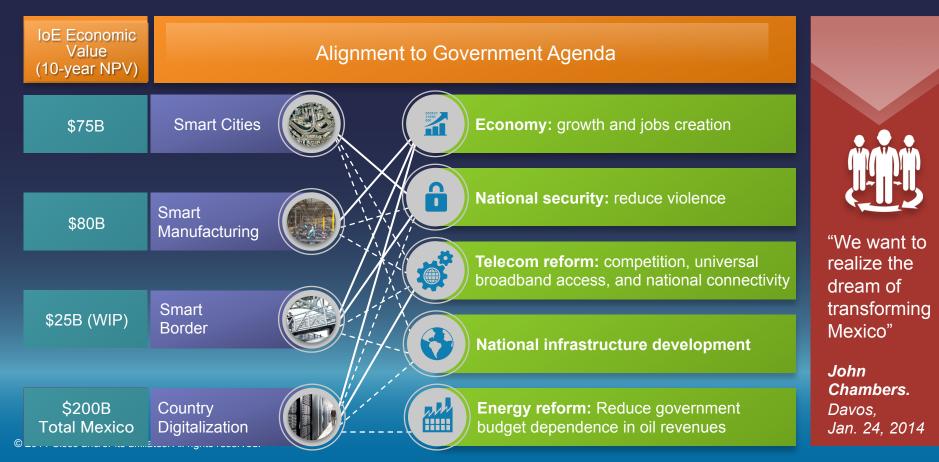
LATAM

Quito Guayaquil Yachay Medellin Rio Guadalajara Puebla

Jobs • Growth • Inclusion • Education • Healthcare • Innovation • Urbanization...S+CC • Security



Accelerating Mexico's IoE Journey



Railway Systems

Fear of Derailment

Underutilized Equipment

Poor Passenger Amenities and Services

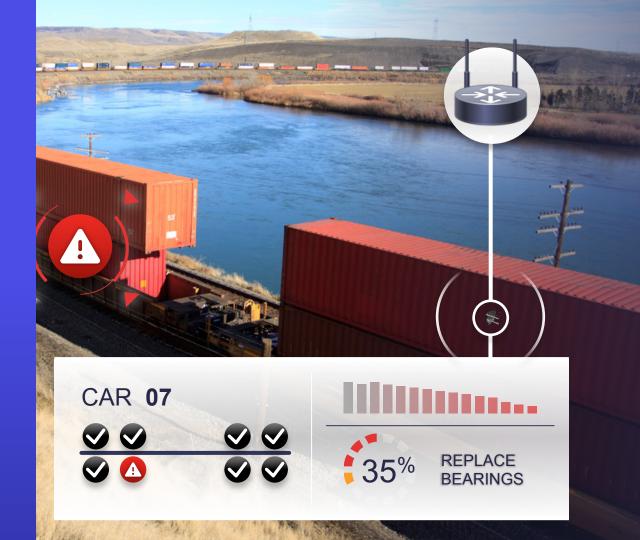


Railway Systems

Immediate Response to Equipment Failure

Real-time Health Status of Trains

New Passenger Amenities and Services



Davra RuBANTM and lox Enabling IOT for Transportation



 300 school buses in a rural district

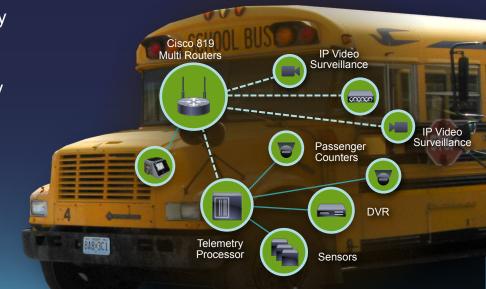
 10,000 students, 4+ hours daily on buses Student Safety

Vehicle Maintenance and Efficiency

> Insurance Liability and Traffic

Compliance

Student Productivity



Automated Management of Network Systems Vehicle Physical Security Management (Video Tagging and and Telematics Remote Control)

Vehicle to Vehicle d Communications (V2V)

Vehicle to Infrastructure Communications (V2I)

Passenger Wi-Fi

People Tracking and Counting

IoE Delivers Robust Infrastructure and Platform for all City Services in Cuiaba, Brazil



- Very Light Train (VLT) system utilization improved by 15%
- Reduced ticket fraud by 40% for US\$4M annual savings
- Location-based services projected to generate US\$3M yearly advertising revenue





Utility Substation

Load Imbalances

Poor Use of Brownfield Assets

Increasing Demand



Utility Substation

Local Load Balancing

Operational Efficiencies

New Business Models



Manufacturing

Poor Overall Equipment Effectiveness (OEE)

Increasing Energy Costs

Cyber Security Threats



Manufacturing

Predictive Maintenance

Optimize Energy Usage

Security Before, During, and After Attack

85% 35% 592547/ 1000000 POWER QUALITY **STAMPS**





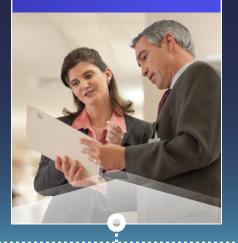


Convergence of Operational Technology and Information Technology

From basic connectivity...



From proprietary standards...



From disparate IT and OT networks...



...to converged, secure, managed, and collaborative operations

...to open standards

...to a critical part of the enterprise infrastructure

IoE Journey to Value

	Fast IT	Data and Analytics		
Connectivity and Compute		Connecting Data with Decisions		
Standardization on Ethernet and IP Sensors Gateways Infrastructure	 IT/OT Convergence Streamlined operations Remote control Visibility and security 	 Edgeware Data in motion Business insights 	•	
Level of Adoption				

Internet of Everything

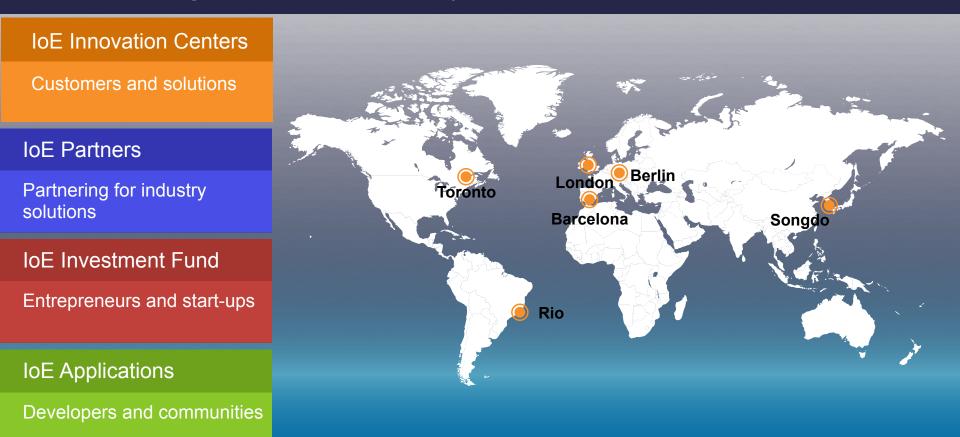
Business Transformation

- Platform for innovation
- Business process agility
- Connected and integrated interactions
- ROI of \$19T



Business Impact

Partnering for New Industry Solutions





Accelerating the IoE Opportunity



Internet of Things World Forum Reference Model

Collaboration and Processes (Involving People and Business Processes) Application (Reporting, Analytics, Control)

(Aggregation and Access)

Data Abstraction

Data Accumulation (Storage)

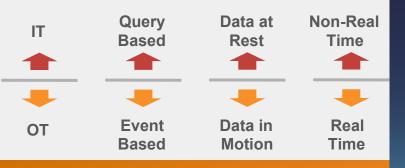
Edge Computing (Data Element Analysis and Transformation)

Connectivity (Communication and Processing Units)

Physical Devices and Controllers (The "Things" in IoT)

Technology Drivers

- Asset modernization
- Cloud-based technology
- Pervasive multi-service networks



Business Drivers

- Business automation
- Customer experience
- Accelerating innovation



7

6

5

4

3

2

1

IoE Enables... All IT Market Transitions









How Companies are Capturing Their Portion of the \$19T



Cisco live,

BIG \$19T

DIFFERENT

Business solutions and outcomes

NOW

Markets already accelerating



TOMORROW starts here.

cisco.com/go/tomorrowstartshere

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