

# TRANSPONDO BARREIRAS À ADOÇÃO DE IOT A PARTIR DE UMA VISÃO DO NEGÓCIO

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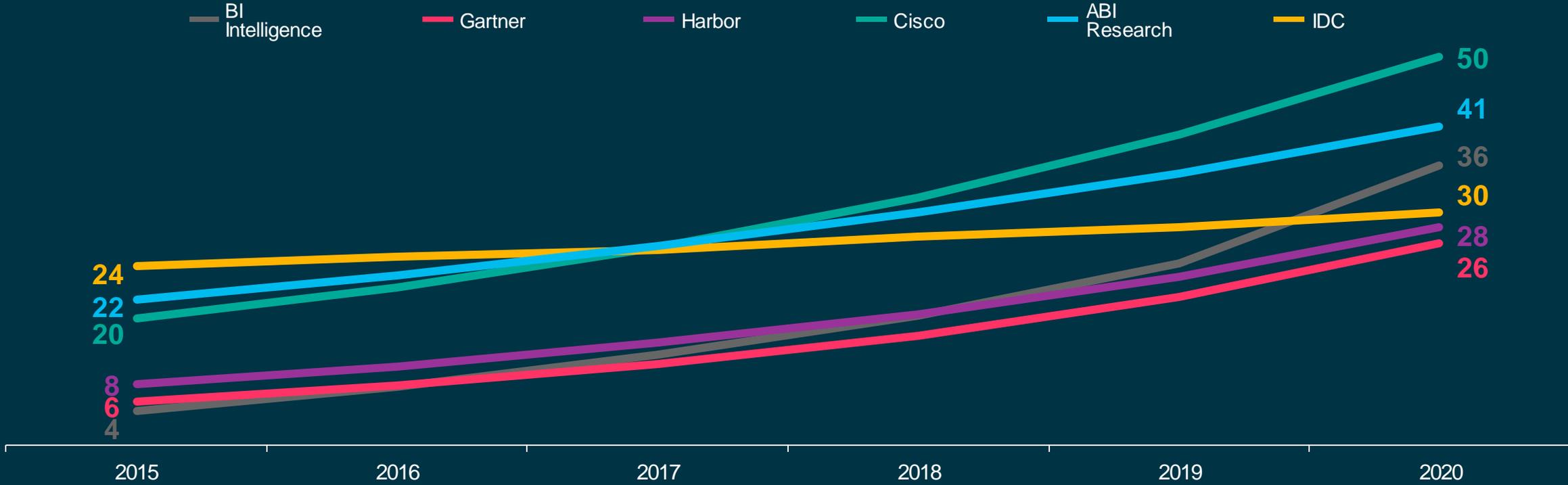
SEMINÁRIO - IOT - A REVOLUÇÃO DAS  
COISAS

# IOT MARKET AND TECHNOLOGY PERSPECTIVE



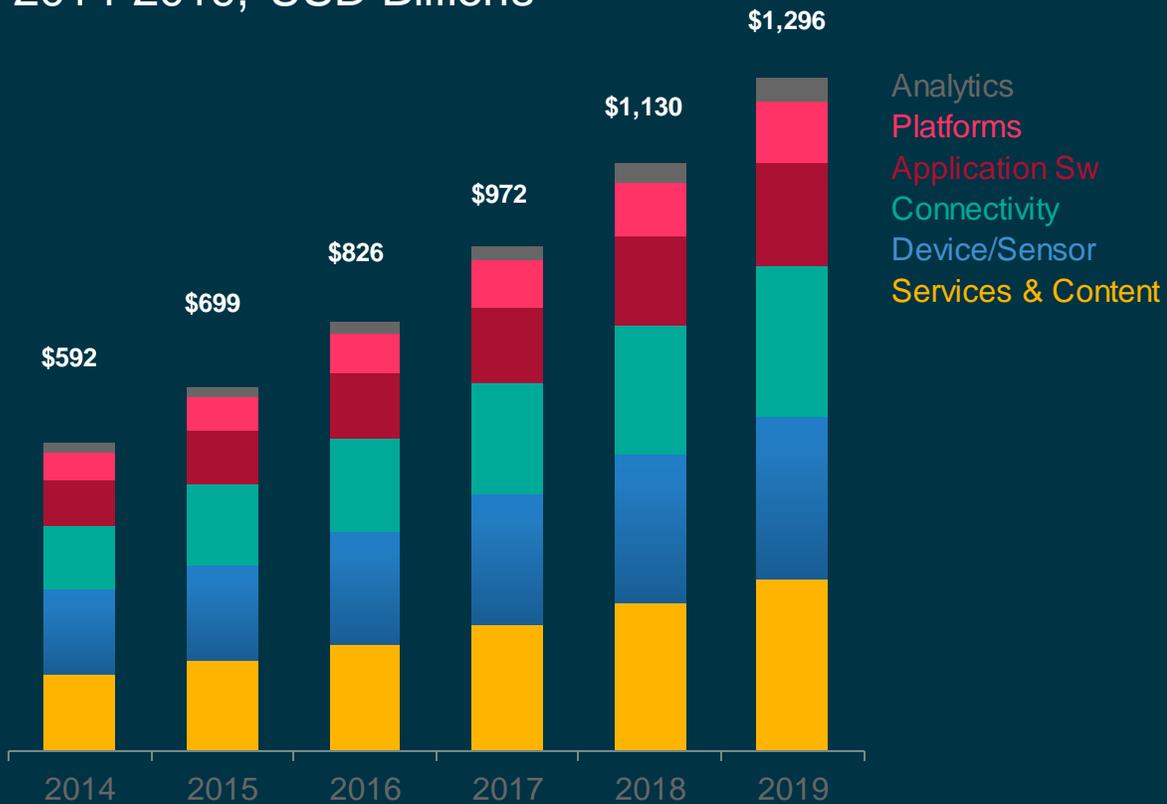
# DATA CONSULTING FIRMS BETS IN A STRONG IOT MARKET GROWTH

Estimates of Internet of Things Devices  
2015-2020, Billions of Devices

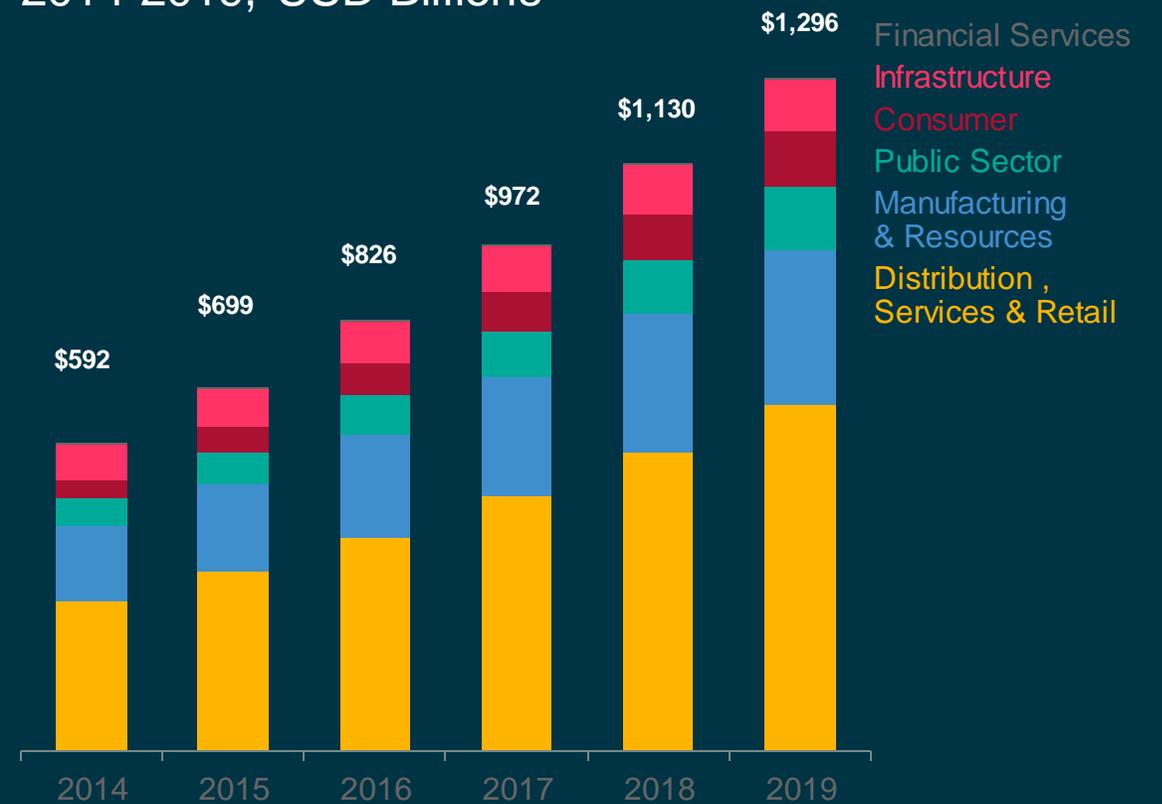


# A \$1.3T REVENUE OPPORTUNITY BY 2019

Worldwide IoT Revenue by Technology Split  
2014-2019, USD Billions



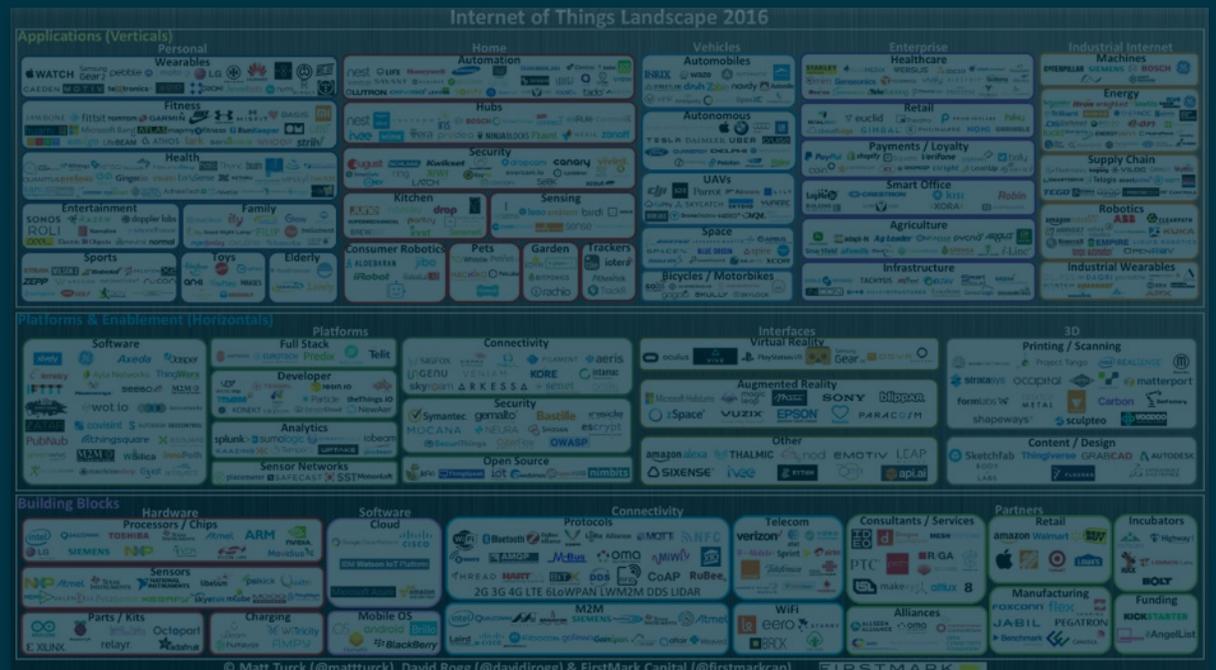
Worldwide IoT Revenue by Industry Sector  
2014-2019, USD Billions



# IOT PLAYERS LANDSCAPE HAS GROWN 6X IN LESS THAN 3 YEARS

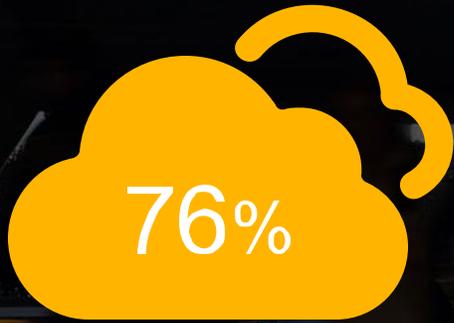


**MAY 2013**  
200 VENDORS



**MAR 2016**  
MORE THAN 1200 VENDORS

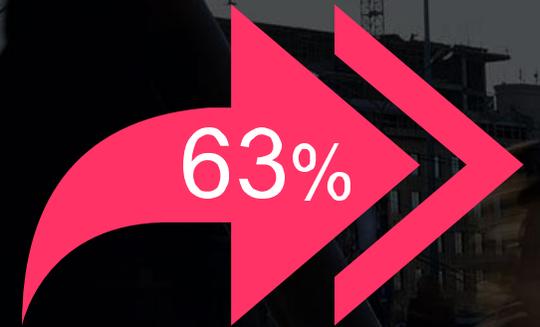
# IOT WILL TOUCH EVERY BUSINESS WITHIN THE NEXT THREE YEARS...



of executives worldwide are exploring IoT today



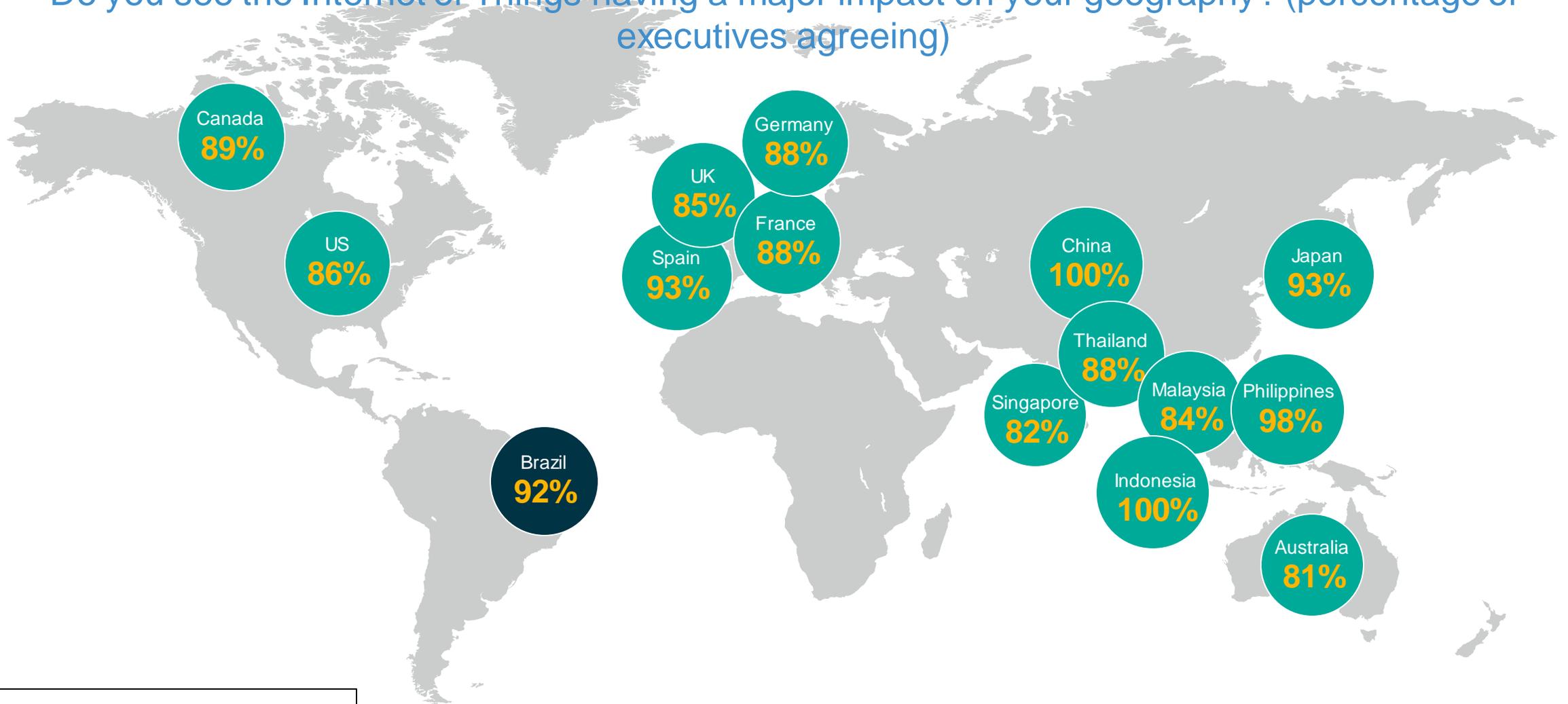
of them expect their company to use IoT within the next three years



of executives believes the IoT offers them a competitive advantage and if they don't implement IoT solutions they will fall behind competition

# ...IN EVERY GEOGRAPHY

Do you see the Internet of Things having a major impact on your geography? (percentage of executives agreeing)

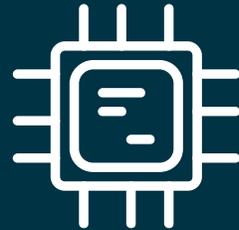


# ENABLING FACTORS FUELING IOT GROWTH POTENTIAL



**0.5X**

DECREASE IN COST OF  
SENSORS



**60X**

DECREASE IN COST OF  
PROCESSING



**40X**

DECREASE IN COST OF  
BANDWIDTH



**50X**

DECREASE IN COST OF  
STORAGE

A high-angle, top-down view of a crowd of people walking across a zebra crossing. The crossing is marked with white stripes on a dark pavement. The people are mostly seen from behind, and many are holding open umbrellas in various colors, including blue, green, white, and pink. The scene is dimly lit, suggesting an overcast day or early morning/late afternoon. The overall mood is one of a busy, everyday urban scene.

**IF THE MARKET AND  
TECHNOLOGY IS THERE,  
WHY IOT HAVEN'T  
BOOMED YET?**

# THERE ARE SEVERAL EXAMPLES OF PROMISING SOLUTIONS THAT HAVEN'T TAKEN OFF YET



USE-BASED  
INSURANCE



CONNECTED FRIDGES



REMOTE HEALTHCARE



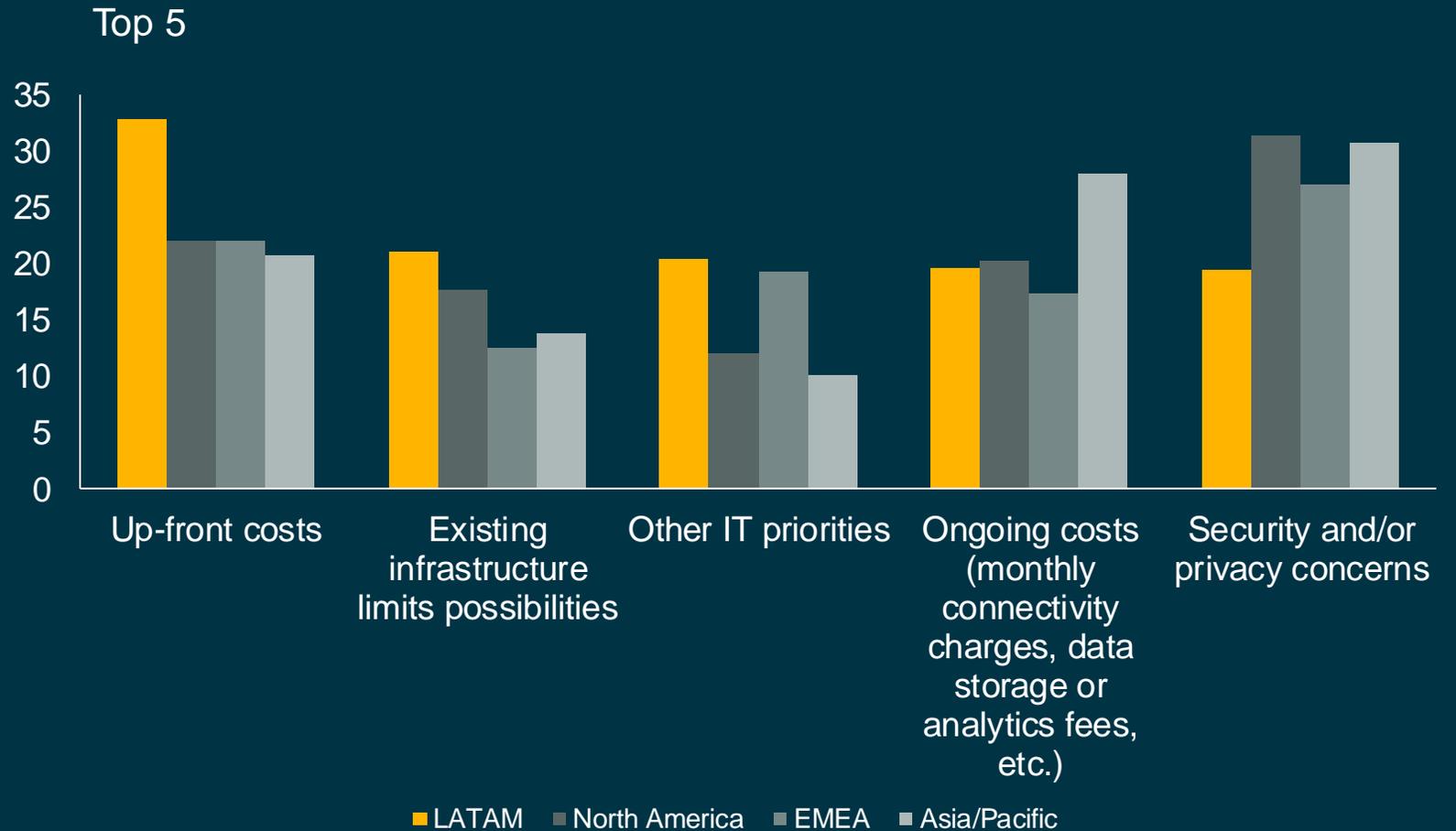
SMART HOME



SMART CITIES

# BUSINESS CASE IS HOLDING BACK THE COMPANIES

What do you think will hinder the deployment of an "Internet of Things" solution at your organization in the next two years?

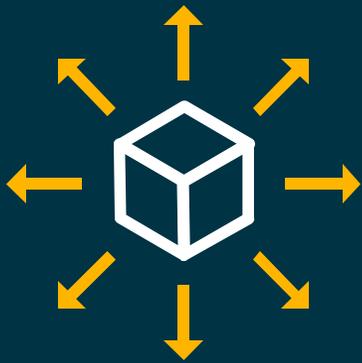


# IOT IS A MEAN, NOT AN END

In the next three years executives believe the IoT will

Top 5

87%



...enable us to enhance our products and services

87%



...increase levels of engagement with our solutions

86%



...improve our supply chain

85%



...allow us to develop new revenue streams

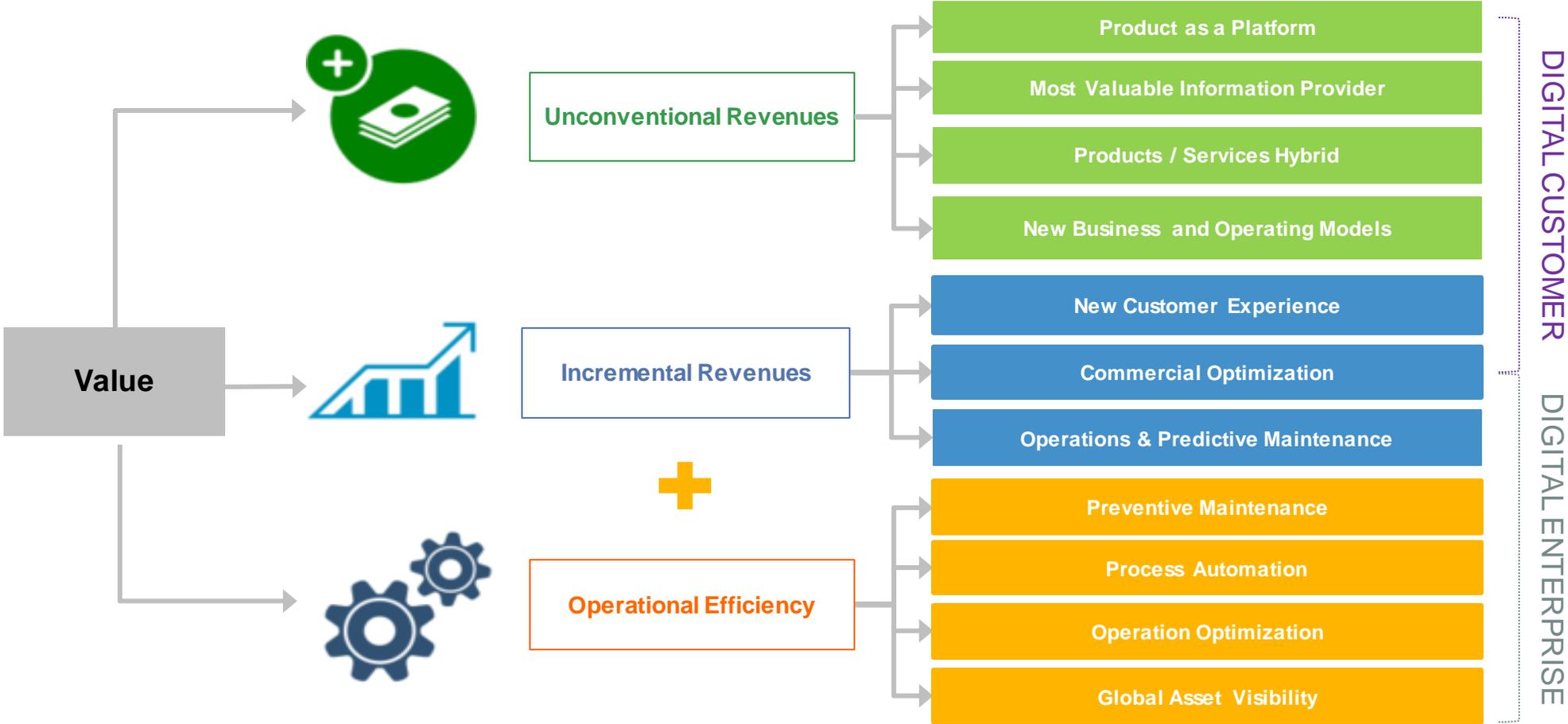
83%



...empower employees

Why IoT haven't boomed yet?

# WHAT COMPANIES ARE LOOKING FOR USING IOT?



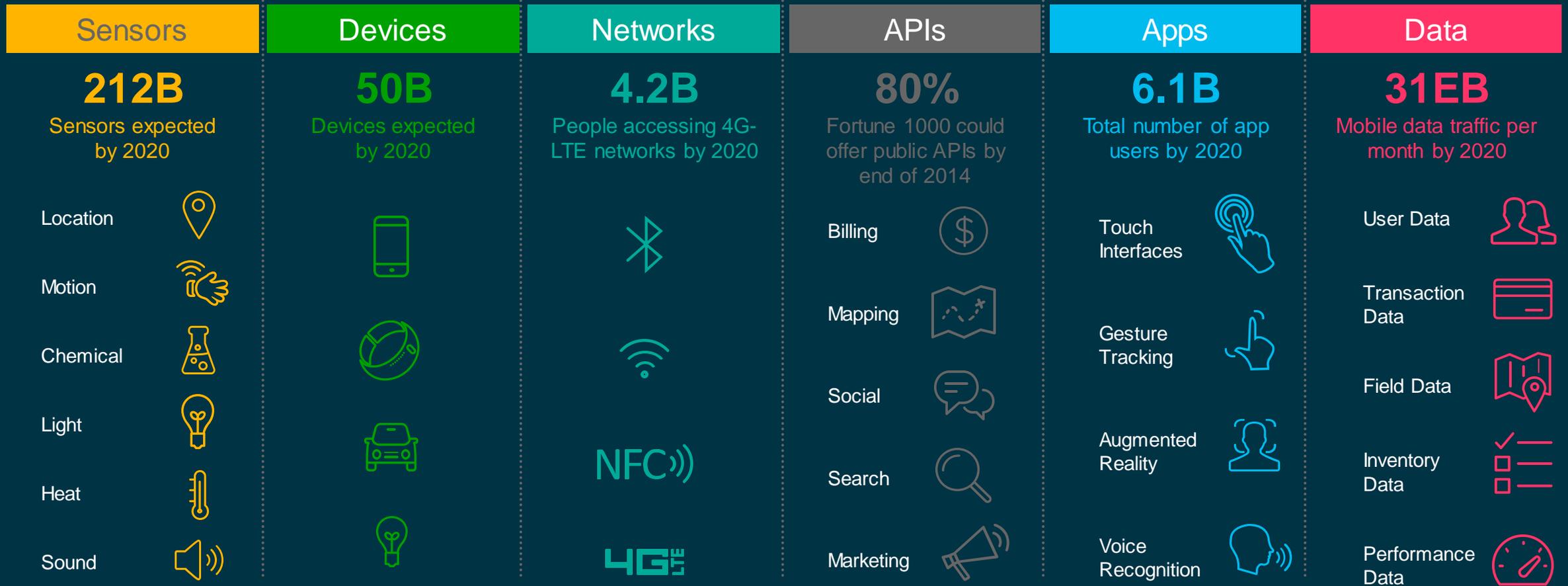
Why IoT haven't boomed yet?

A close-up photograph of a person's hand holding a white smartwatch over a black handheld device. The background is blurred, showing what appears to be a computer monitor and keyboard. The overall image has a dark, semi-transparent overlay.

# **SIMPLIFYING IOT IS KEY TO BECOMING A SUCCESSFUL IOT BUSINESS**

# WHEN THE BUSINESS ISSUE/OPPORTUNITY IS IDENTIFIED A SOLUTION MUST BE FOUND

Ecosystem complexity and lack of standards is the other issue to overcome



Simplifying IoT is key to becoming a successful IoT business



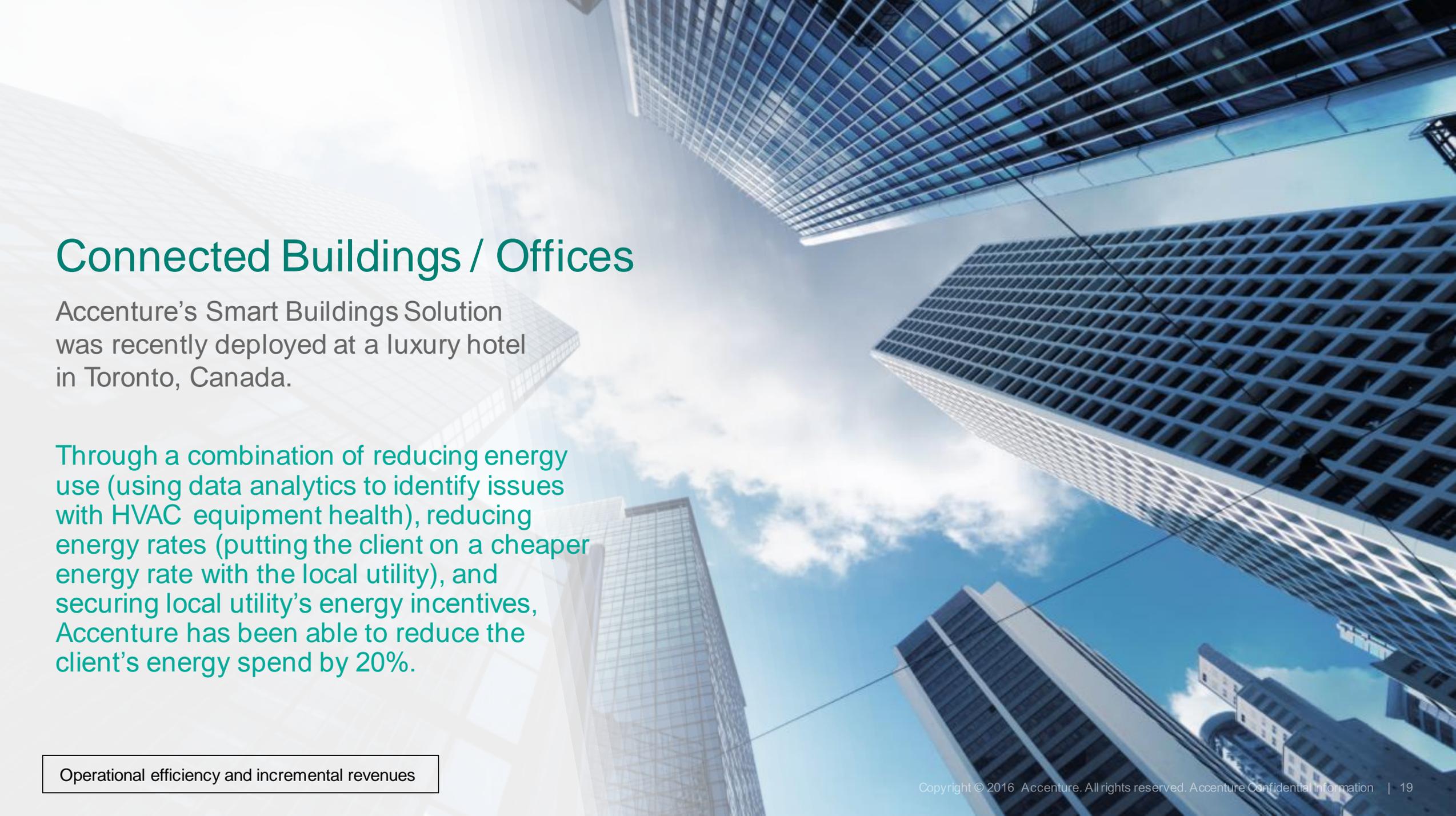


# **DIGITAL ENTERPRISE OPERATIONAL EFFICIENCY AND INCREMENTAL REVENUES**

# IOT CAN BOOST OPERATIONAL EFFICIENCY

	Sample IoT solutions	Estimated impact on business	Estimated Value Over 15 Years
 <b>Aviation</b>	Real-time jet engine monitoring and fuel consumption optimization	1% fuel savings	\$30B
 <b>Power Generation</b>	Gas turbine predictive maintenance	1% fuel savings	\$66B
 <b>Healthcare</b>	Shift to automated data collection, testing and diagnosis	1% increase in system efficiency	\$63B
 <b>Rail</b>	Smart routing and increased utilization rate	1% increase in system efficiency	\$27B
 <b>Oil &amp; Gas</b>	Drilling process automation, connected refineries	1% increase in capital expenditures	\$90B

Source: GE



## Connected Buildings / Offices

Accenture's Smart Buildings Solution was recently deployed at a luxury hotel in Toronto, Canada.

Through a combination of reducing energy use (using data analytics to identify issues with HVAC equipment health), reducing energy rates (putting the client on a cheaper energy rate with the local utility), and securing local utility's energy incentives, Accenture has been able to reduce the client's energy spend by 20%.

Operational efficiency and incremental revenues

# RIOgaleão

aeroporto  
internacional  
tom jobim

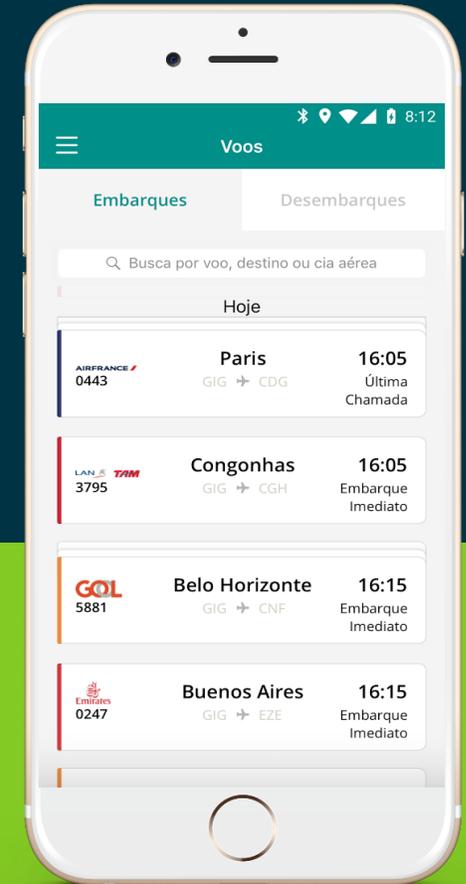


## Contexto e Desafios

- Disponibilizar uma solução de connected passenger em um dos aeroportos mais movimentados do Brasil.
- Integrar o aplicativo móvel a mais de 3.000 beacons de localização indoor

## Solução

- Solução desenvolvida para 2 plataformas:
  - Android
  - iOS
- Integração com plataformas de IoT para localização e roteirização indoor



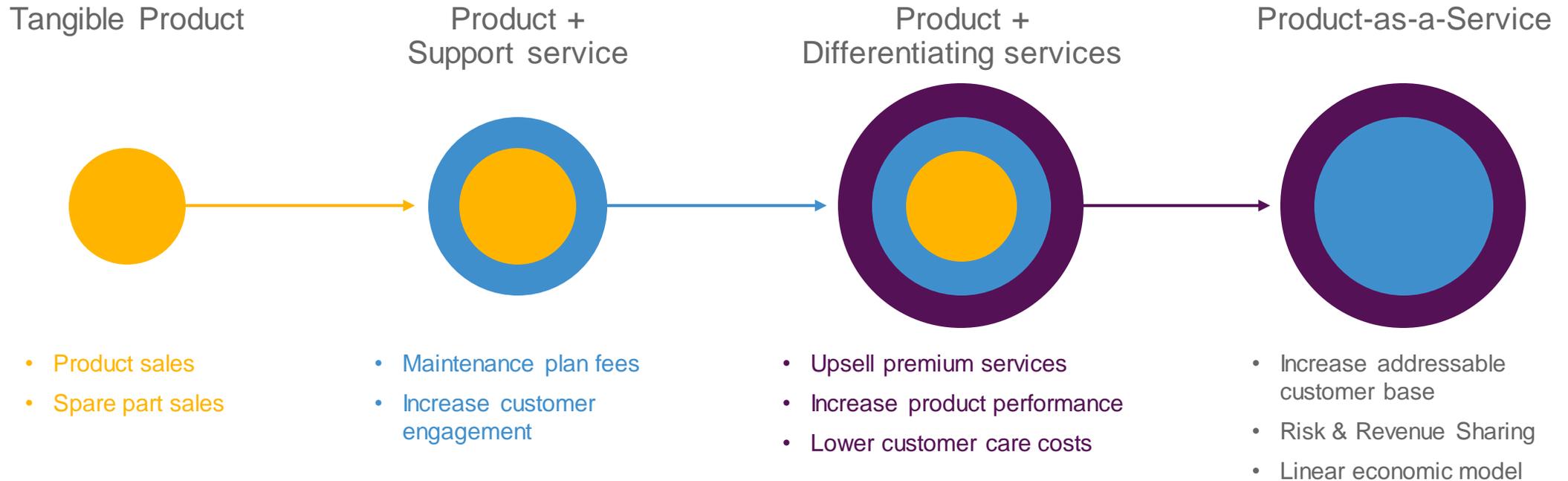
Operational efficiency and incremental revenues



# DIGITAL CUSTOMER UNCONVENTIONAL REVENUES



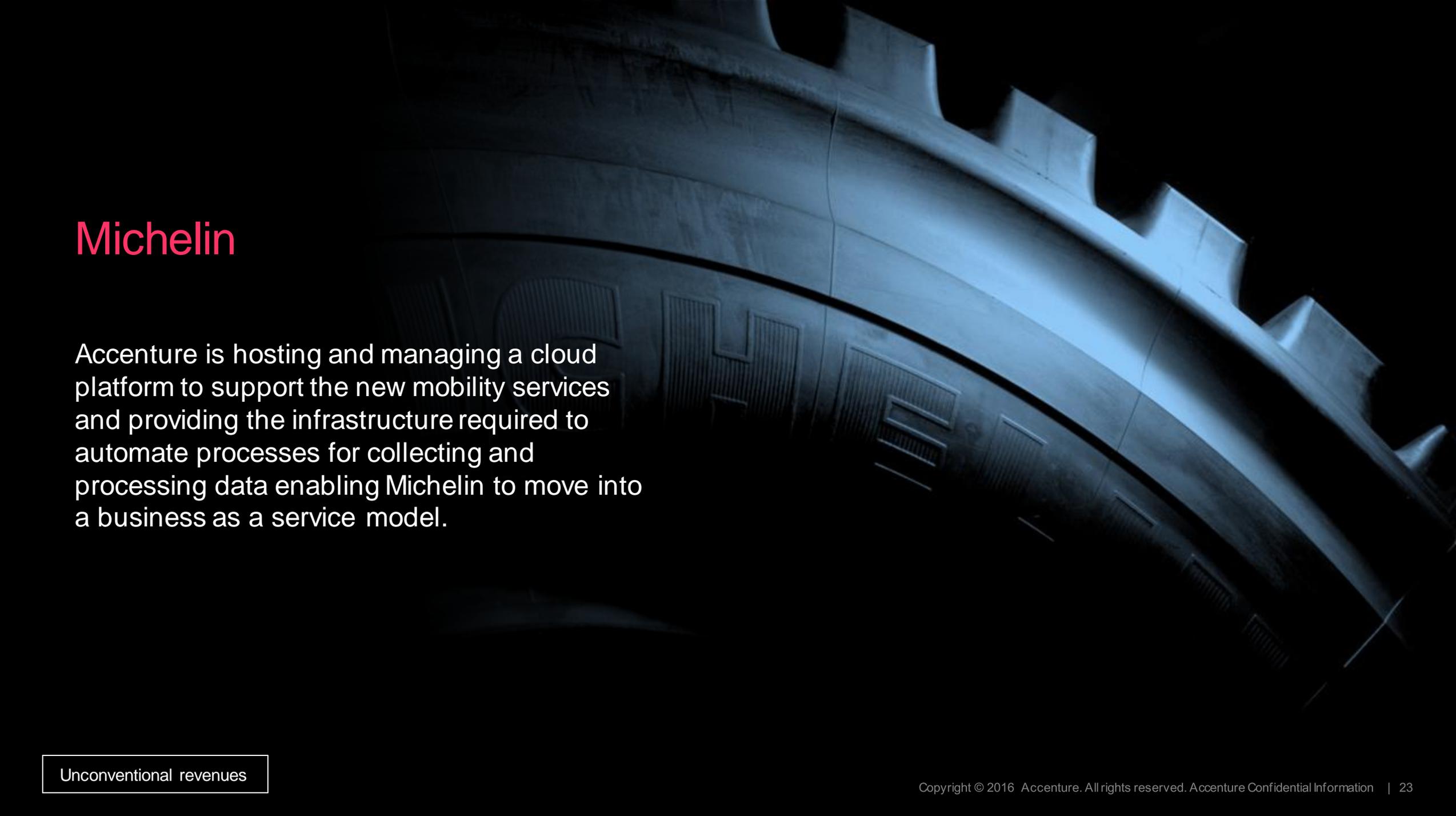
# IOT ALLOWS BUSINESSES TO SHIFT FROM PRODUCT TO SERVICE MODELS



## Tire manufacturing example



Unconventional revenues



## Michelin

Accenture is hosting and managing a cloud platform to support the new mobility services and providing the infrastructure required to automate processes for collecting and processing data enabling Michelin to move into a business as a service model.



# Smart Home

## A Global Utility Company

Accenture delivered a technology platform for a top ten global utility in a competitive energy retailing market.

The platform allows the utility to provide its residential customer with energy information, including tips on how to reduce consumption through behavioral change and equipment upgrades.

The platform can be extended to allow the client to offer new home automation and security services to its residential clients.

# City of Chicago

## Urban infrastructure innovation for Chicago

As a founding member of a consortium designed to solve urban infrastructure challenges, Accenture is embarking on a number of digital solutions for the City of Chicago which could lead to transformative improvements in cities around the world.

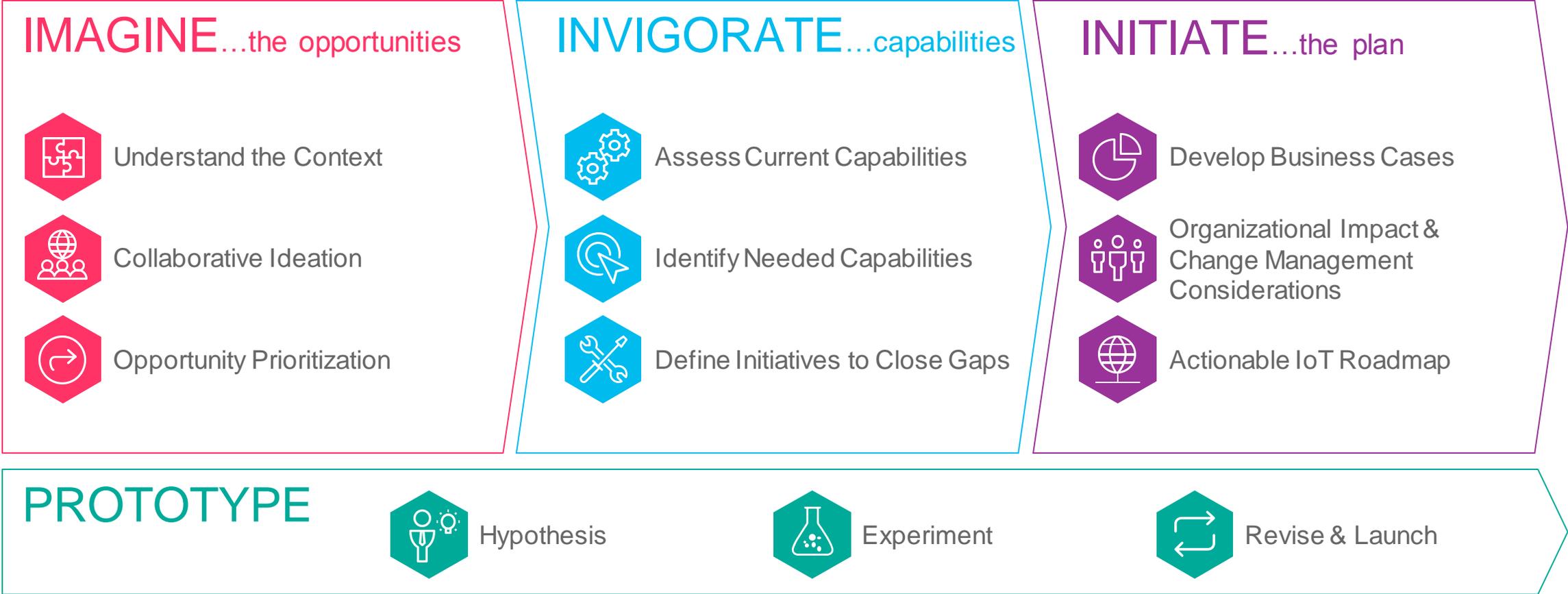
The consortium is seeking to produce commercial solutions in four key areas: energy management; physical infrastructure; water and sanitation systems; and transportation and logistics systems.



# HOW TO START TODAY?

# TRANSFORM THE BUSINESS

Focus on identifying and capturing transformative value from IoT, leveraging rapid prototyping to validate benefit realization, while developing a robust plan of action for sustained success



How to start today?

# FOR MORE INFORMATION, CONTACT

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