

The Digital Transformation Imperative Perspectives from an Entrepreneur

Jean Arnell
Managing Partner
Computech



Computech

Computech is specialized in Strategy Consulting, Technology Services and Outsourcing based on the latest Industry technologies.

Our service offering is modeled after the typical IT decision cycle: Plan & Design, Develop & Implement and Support.

STRATEGY CONSULTING

Computech brings deep functional, technical, architectural expertise to assess the current state and formulate a tailored technology roadmap to deliver on business objectives.

IT INFRASTRUCTURE

Cyber security

Datacenter Transformation

Unified Communication and Collaboration

BUSINESS APPLICATIONS

Citizen Relationship Management

Data and Analytics

Social Services and Outreach

Tax and Financial Management

OUTSOURCING

Datacenter Services

Desktop Support

IT Infrastructure Management




Technology partners

CompuTech brings the best in strategy and technology to unlock more value from your IT investments and maximize business results.



 We bring together industry leaders on Digital Transformation solutions.

 Microsoft Certified Partner for 20 straight years

 Our complementary talents and long-standing relationships with industry leaders create synergies that drive the exceptional results we realize together

Customer references

Public and private sector

Since our inception in 2000, Computech has been enabling Businesses and Governments in the Caribbean to align their business objectives with their technology investments by designing and developing scalable and secure information systems based on the latest industry technologies.



Computech Technology Center



Strategy Briefing

Strategy briefings are one-day technology briefings which start by examining customers' current IT environment and business objectives. Then it moves into expert presentations, demos and scenarios customized to meet customers' needs.



Architecture & Design session

Architecture design session focuses on business objectives, aligns them with specific products/technologies and provides architectural guidance.



Training

Our training sessions provide end users and IT professionals with the knowledge and skills needed to develop and administer their target environments.



Datacenter

Our datacenter services offering are a set of Hosted Private Cloud solutions - Infrastructure as a Service and Software as a Service based on Microsoft Hyper V and vmware vCenter.



Video: Intelligent agriculture

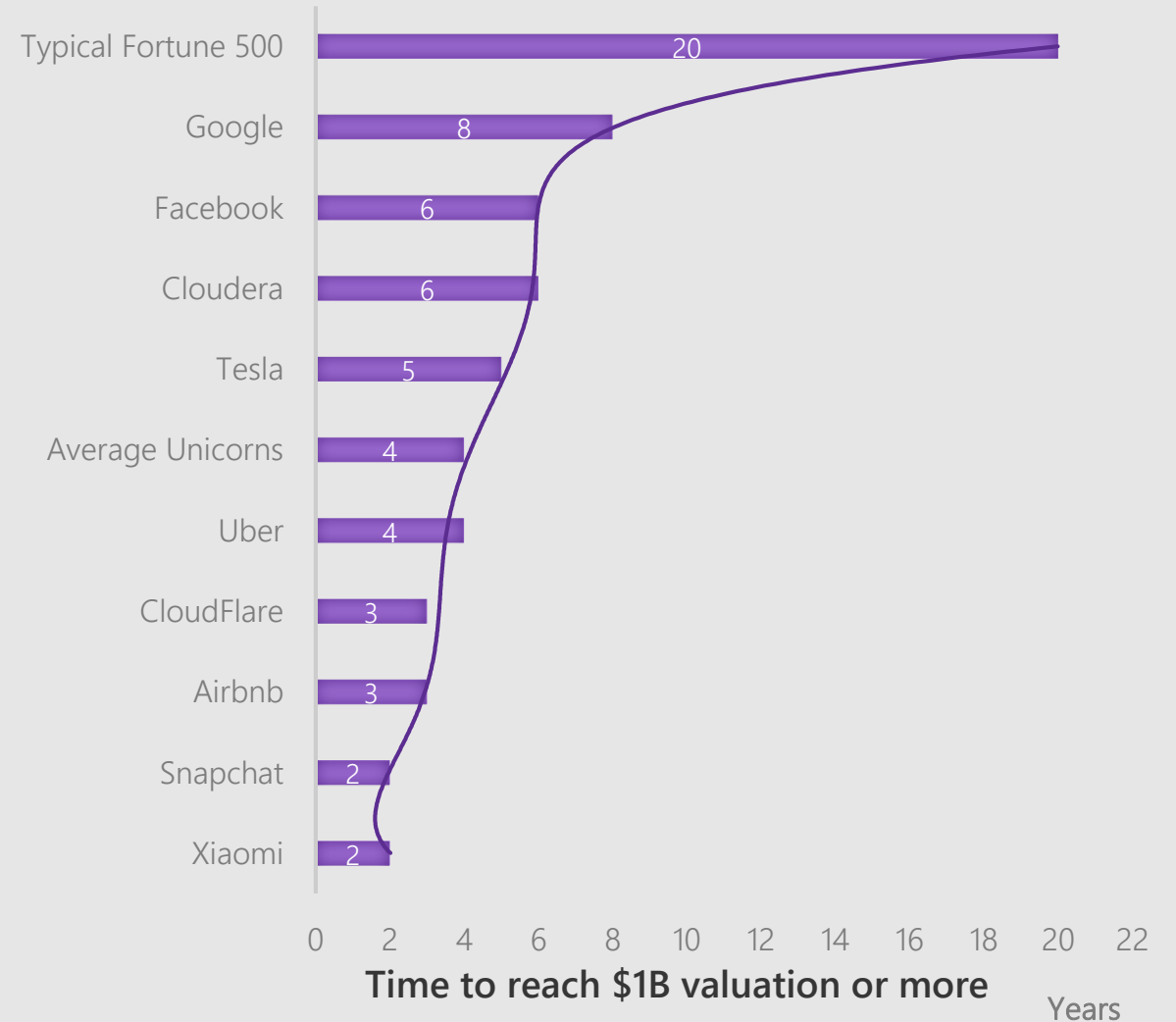
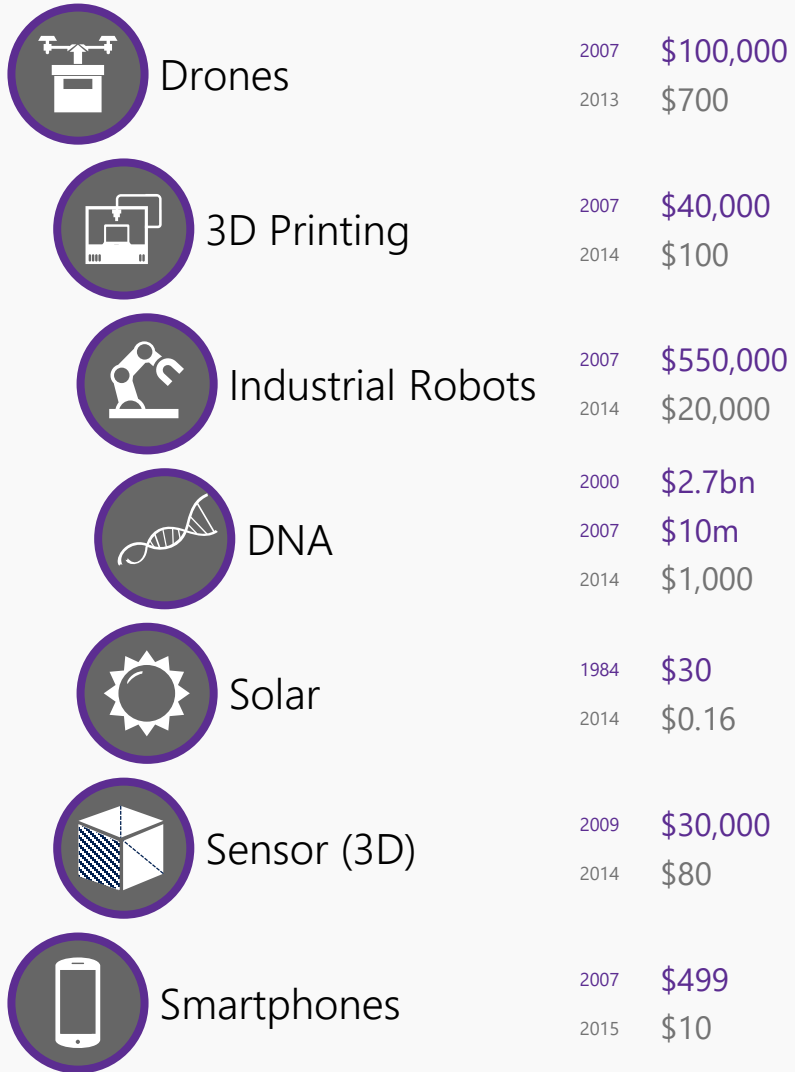


Bloomberg

THE WORLD
HAS CHANGED



Astonishing Pace of Change

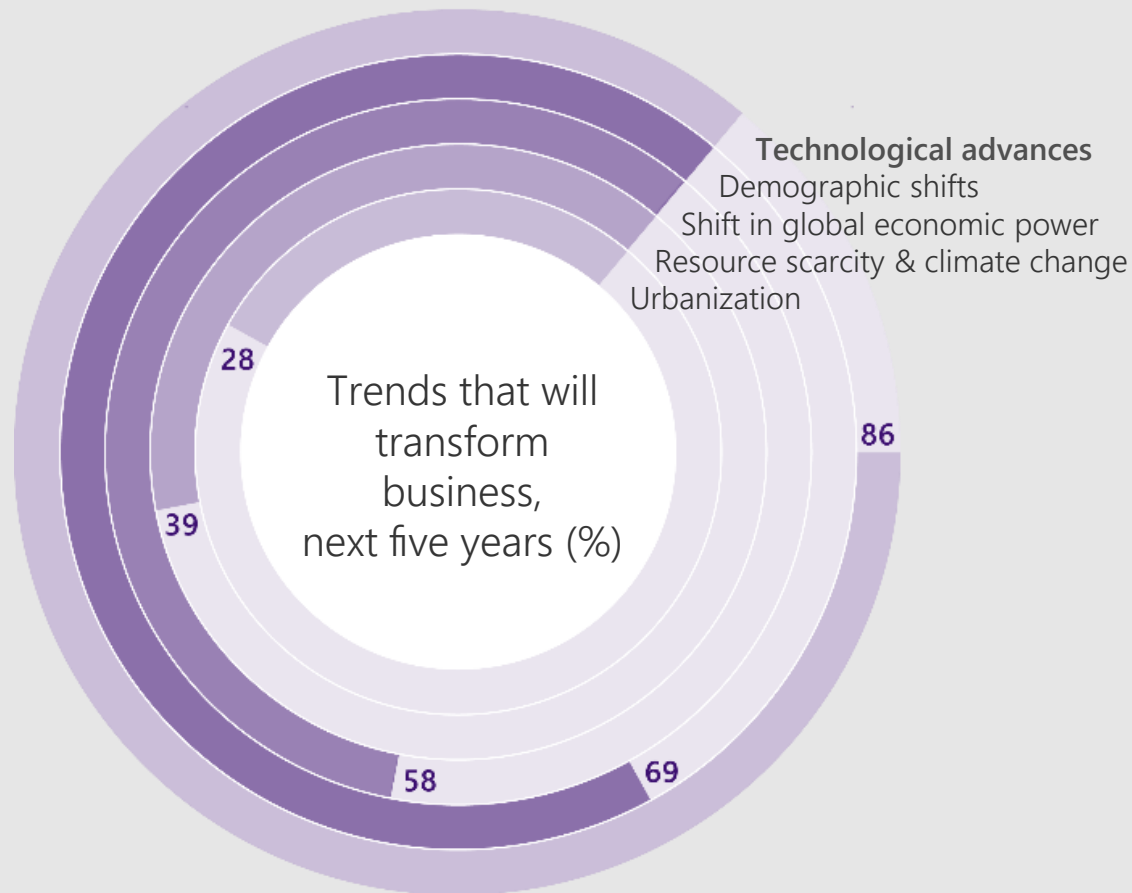


The cost of key technologies has fallen rapidly

Source: World Economic Forum

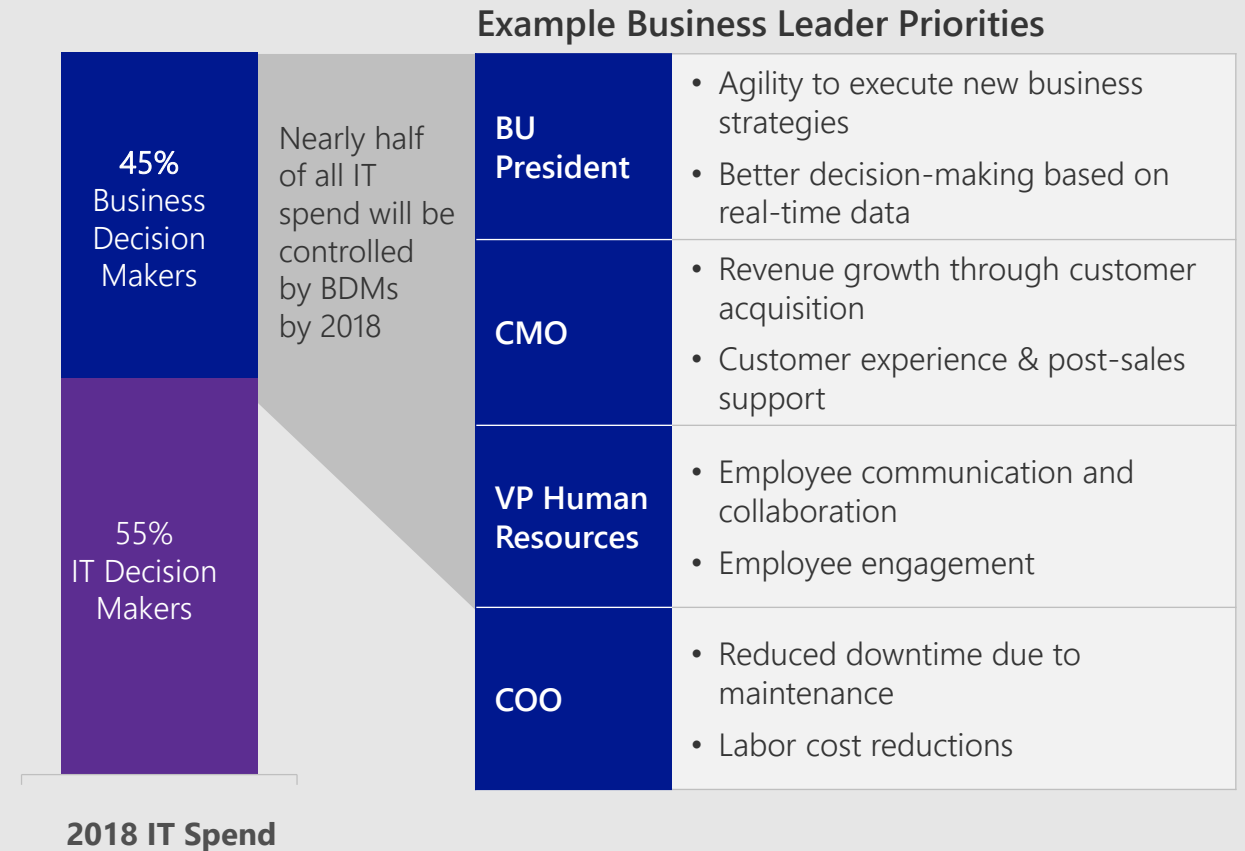
86% of CEOs consider Digital their #1 priority

CEOs believe **technology will transform their business** more than any other global trend



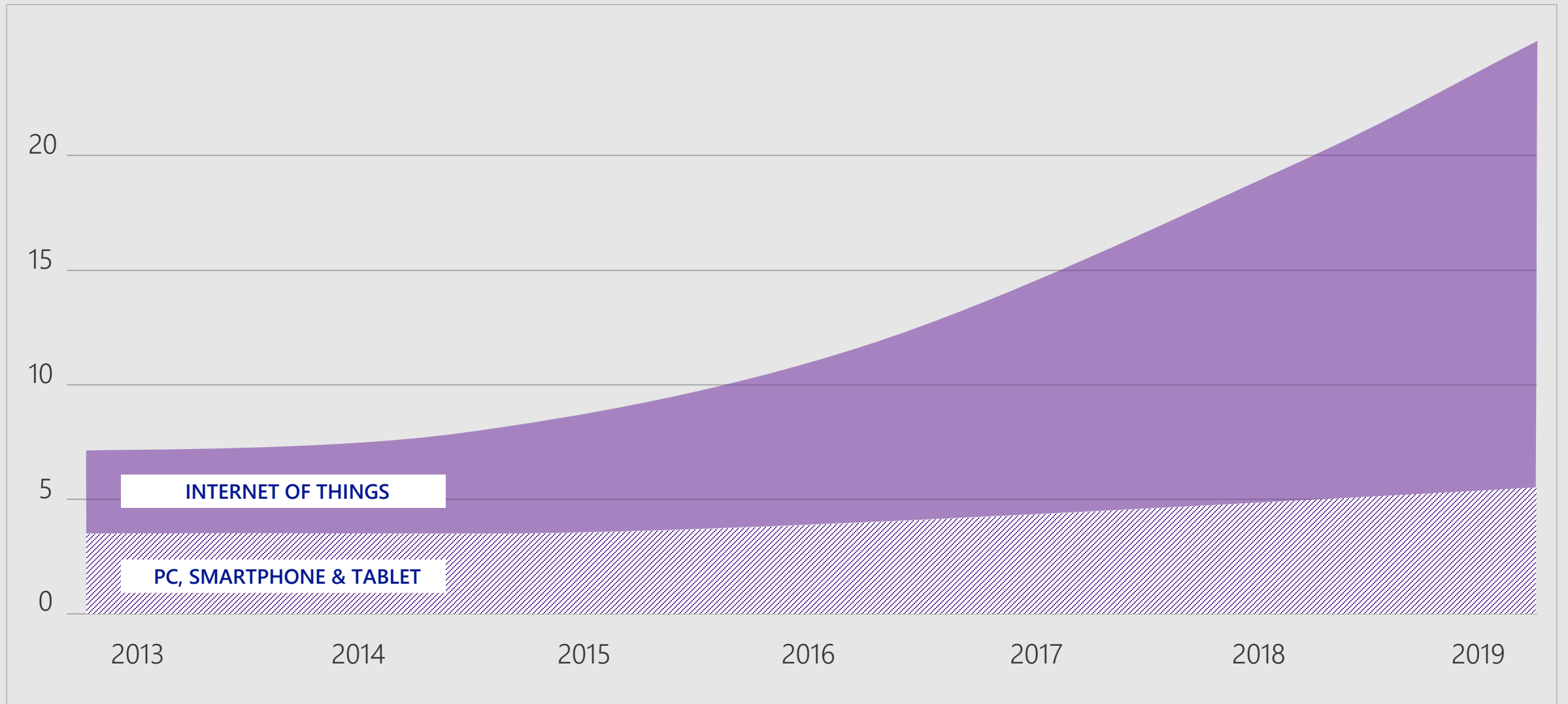
Source: PWC CEO Survey

BDMs are becoming the real buyers of Digital



Source: IDC Futurescape, "Worldwide IT Industry 2016 Predictions", November 4, 2015

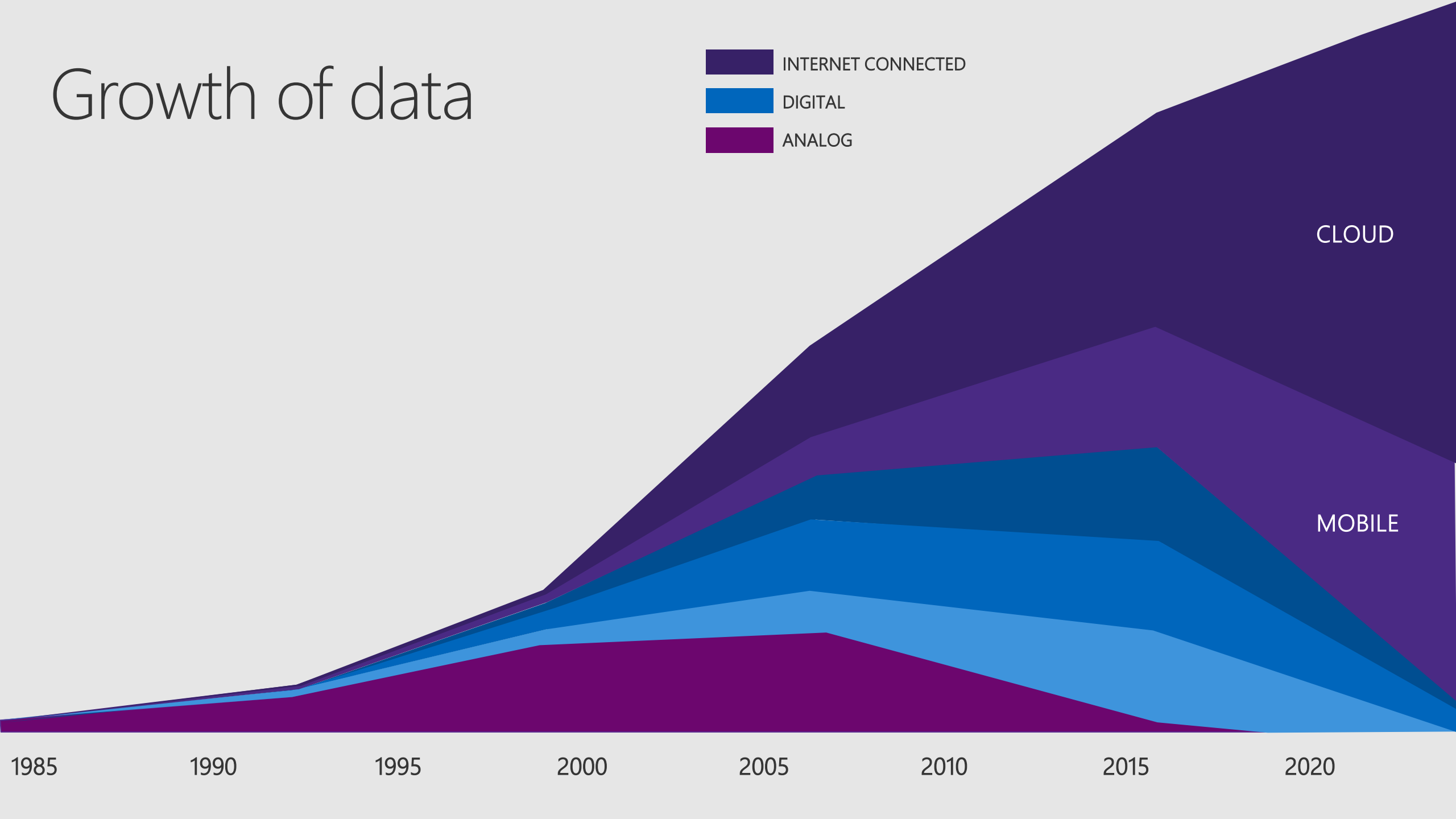
Growth of connected devices



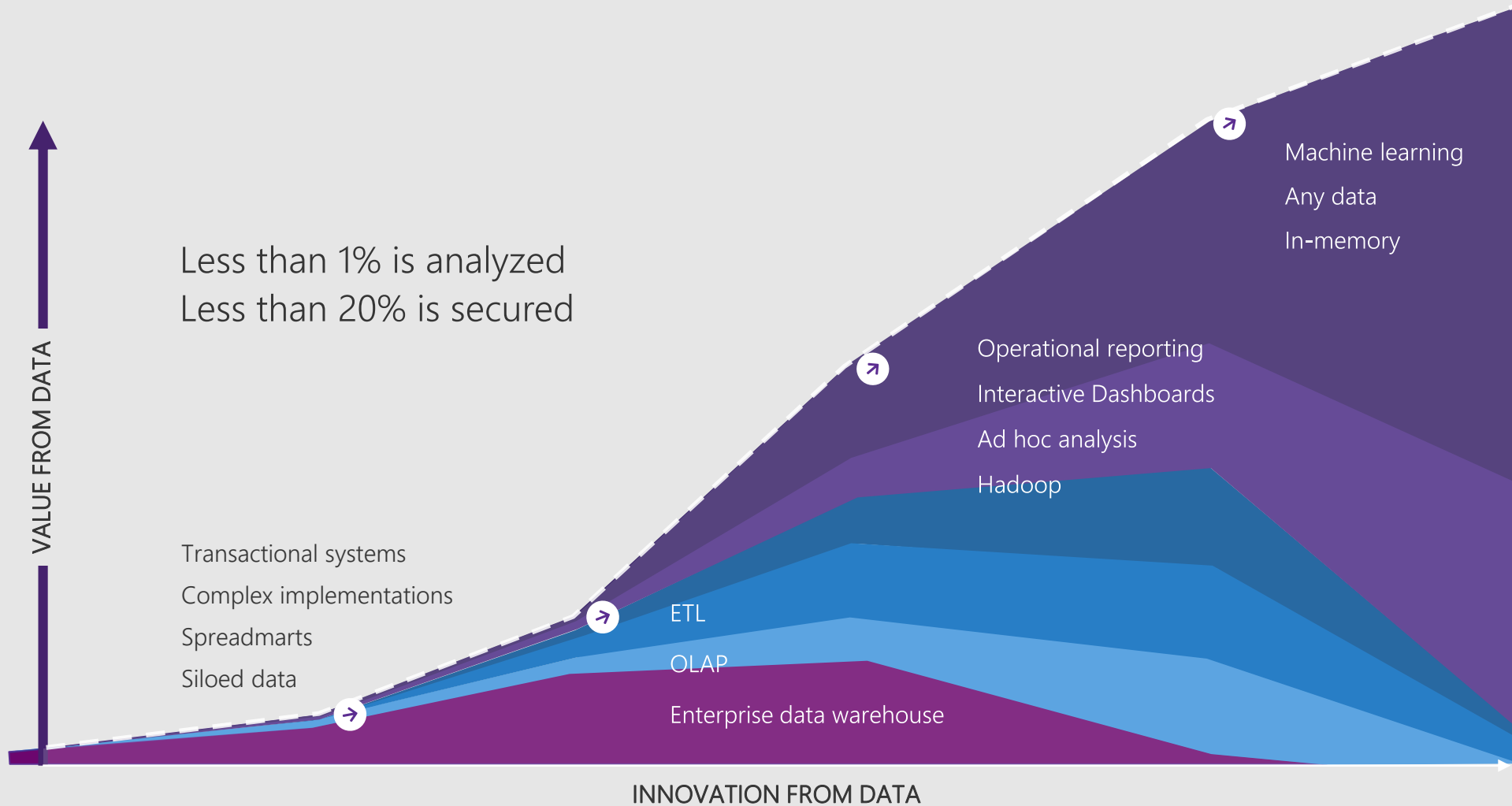
Scale 1:1 Billion Units

Growth of data

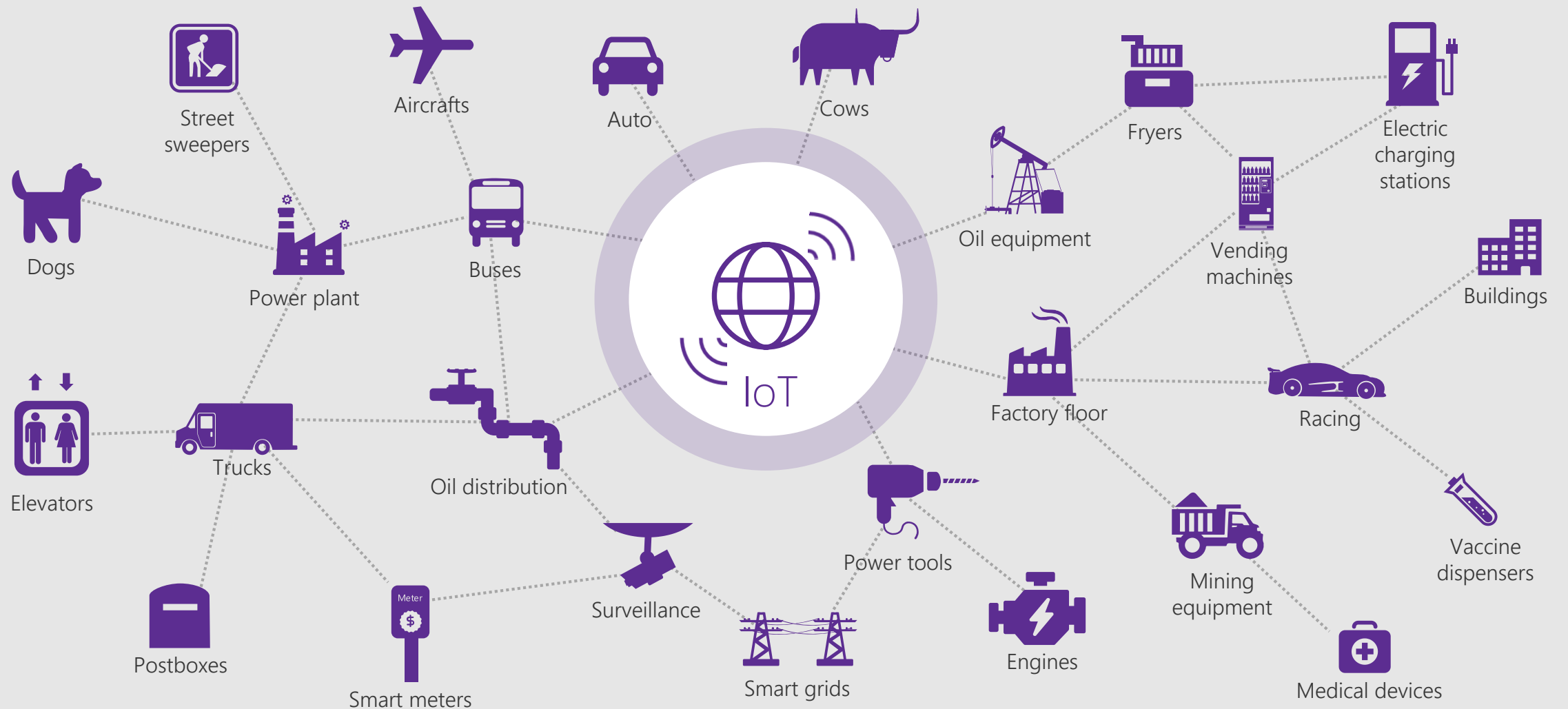
- INTERNET CONNECTED
- DIGITAL
- ANALOG



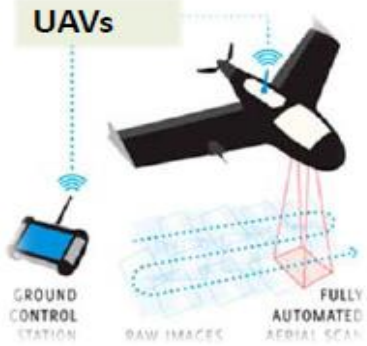
Technology disruptions



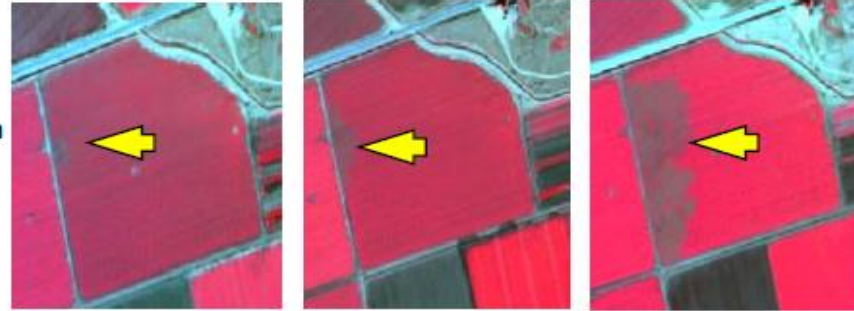
New workloads, new business models



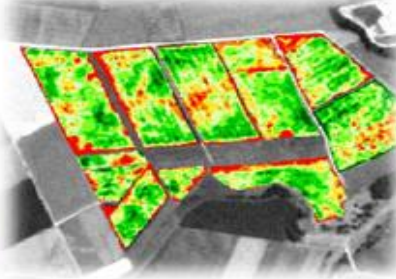
Intelligent agriculture = Precision agriculture



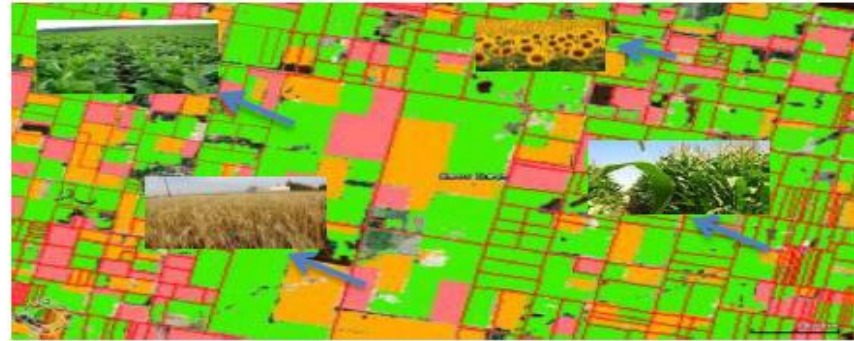
Damage Estimation System (DES)



Satellite



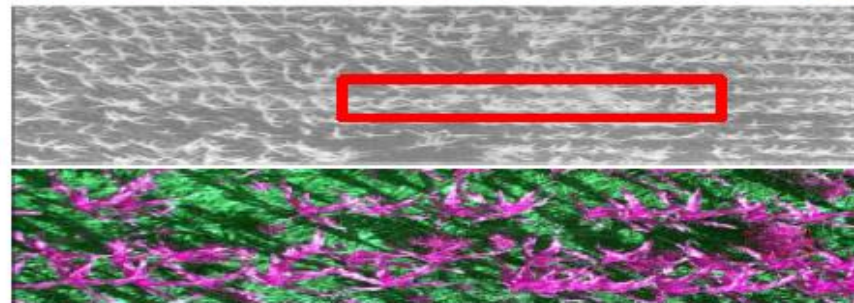
Crop information system (CIS)



Crop Sensor

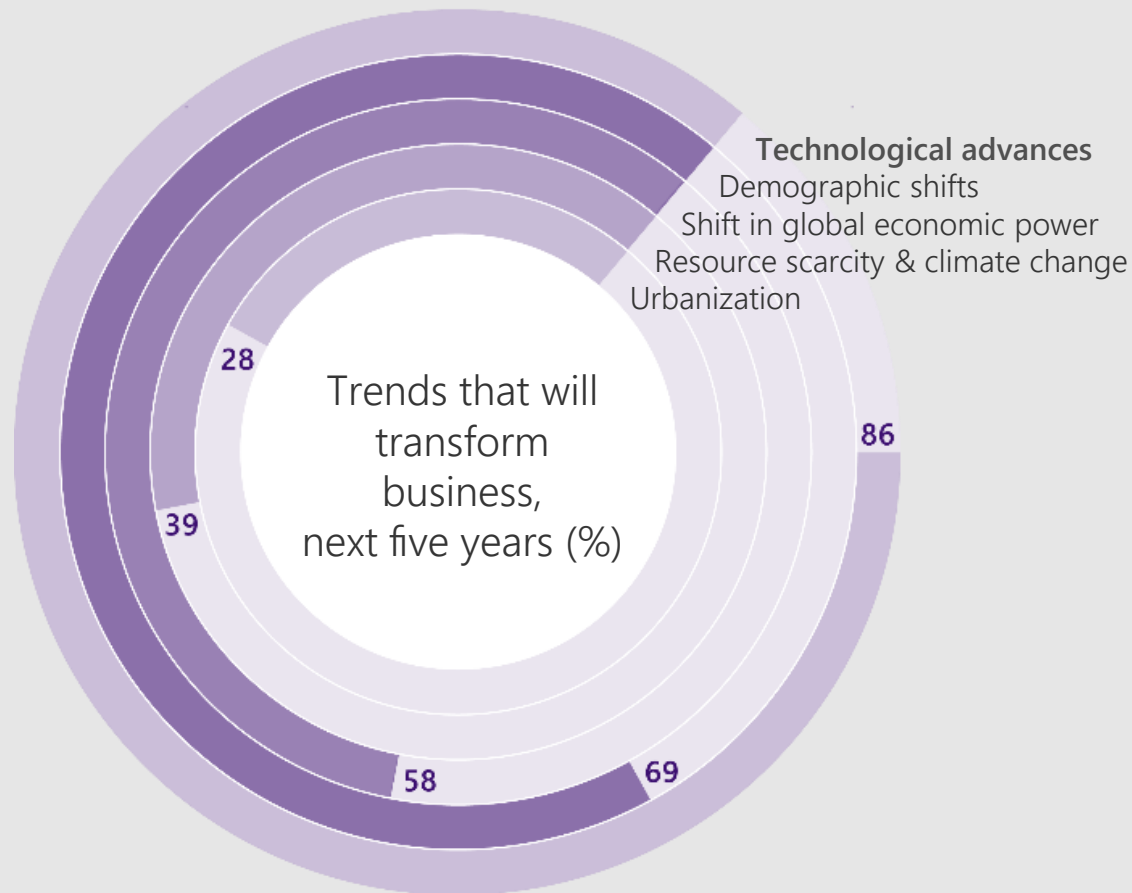


Weed monitoring system (WMS)



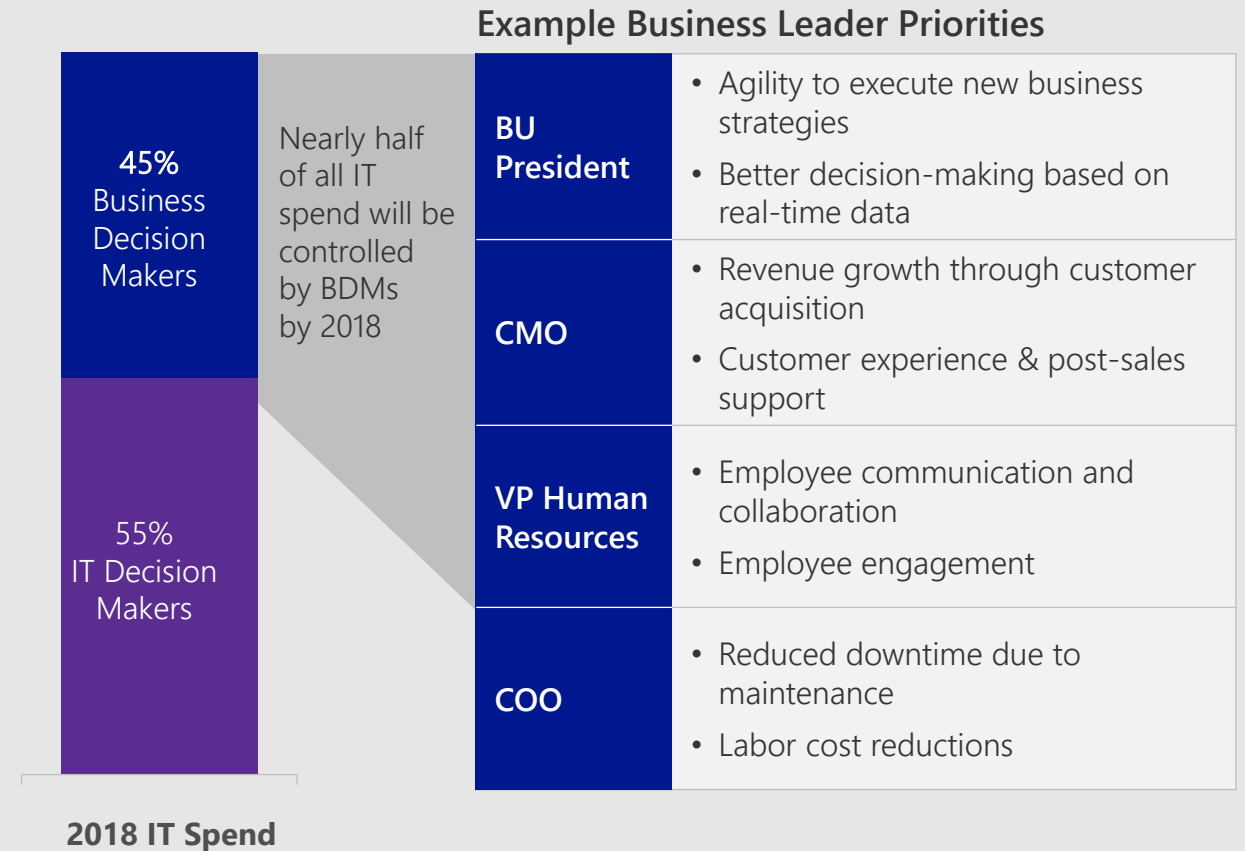
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Source: PWC CEO Survey





BDMs are becoming the real buyers of Digital



Source: IDC Futurescape, "Worldwide IT Industry 2016 Predictions", November 4, 2015

The Eve of the Fourth Industrial Revolution

Navigating the next industrial revolution

Revolution	Year	Information	
	1	1784	Steam, water, mechanical production equipment
	2	1870	Division of labour, electricity, mass production
	3	1969	Electronics, IT, automated production
	4	?	Cyber-physical systems

WE NEED TO
CHANGE !



United Nations Sustainable Development Goals Signed by 193 Countries



Global, societal
impact

Solutions to catalyzing SDG
achievement by 2030 in
order to create global
shared prosperity !

Worldbank Digital Readiness Assessment of Eastern Caribbean countries (September 2019)

Eastern Caribbean Countries are lagging on key elements of the digital economy

Country	Digital Infrastructure		Digital Platforms	
	Regulatory environment ³	Broadband penetration ⁴	Cybersecurity index ⁵	e-Gov index ⁶
Antigua and Barbuda	Red	Red	Red	Yellow
Dominica	Yellow	Red	Red	Yellow
St. Kitts and Nevis		Green	Red	Yellow
St. Lucia	Green	Yellow	Red	Red
St. Vincent and the Grenadines	Green	Yellow	Red	Red
Grenada	Yellow	Red	Red	Yellow

References: Green: performing; yellow: performing with gaps; red: lagging

"The Caribbean is on downward trajectory to being the poorest region in the world by 2050. Unless the region halts the current economic slide, it could become the poorest area in the world by 2050 as a consequence of the levels of Public debt, Poverty and Unemployment in this region."

Dr Justin Ram, Director of Economics
Caribbean Developing Bank

Drivers of change: Four specific technological advances—ubiquitous high-speed mobile internet; artificial intelligence; widespread adoption of big data analytics; and cloud technology—are set to dominate the 2018–2022 period as drivers positively affecting business growth. They are flanked by a range of socio-economic trends driving business opportunities in tandem with the spread of new technologies, such as national economic growth trajectories; expansion of education and the middle classes, in particular in developing economies; and the move towards a greener global economy through advances in new energy technologies.

World Economic Forum – Future of Jobs Report

WE NEED TO CHANGE

OLD

NEW

TRAINING

EXPERTS

INDIVIDUAL KNOW-HOW

SKILL DEVELOPMENT

TECHNICAL DEPTH AS A MOVING TARGET

COLLABORATION + COMMUNITY

Integrated Collaboration

Your Customer + People + Alliances

SELLING

TRAINING AS POST SALES

STATIC OPERATIONS

FOCUS ON REVENUE

DEFINED SERVICES / SLA'S

EFFICENCY AMBASADORS

ENVISIONING

CONSTANT ENABLEMENT

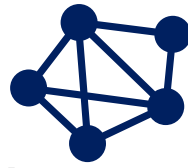
AUTOMATION AS A MEANS TO OPTIMIZE

FOCUS ON GROWTH AND INVESTMENTS

DESIRE & EMBRACE CHANGE

ENTREPRENEURS OF NEW BUSINESS MODELS

Your
Expertise



Digital Leadership

DRIVING TRANSFORMATION

Businesses, governments & public institutions



SOCIETAL IMPACT

Measurable global impact and digital inclusion for all citizens



ECONOMIC OPPORTUNITY

Digital Transformation pillars



ENGAGE CUSTOMERS

Give them an experience they love



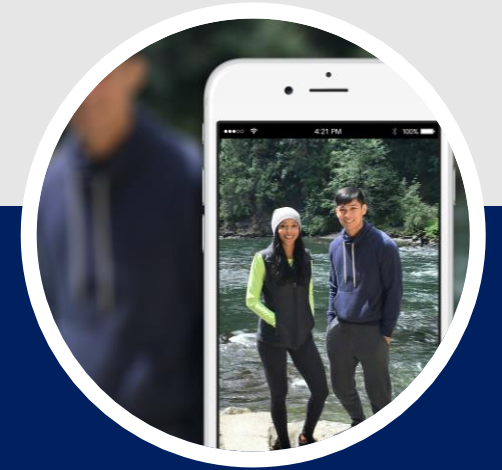
EMPOWER EMPLOYEES

Reinvent productivity; a data-driven culture



OPTIMIZE OPERATIONS

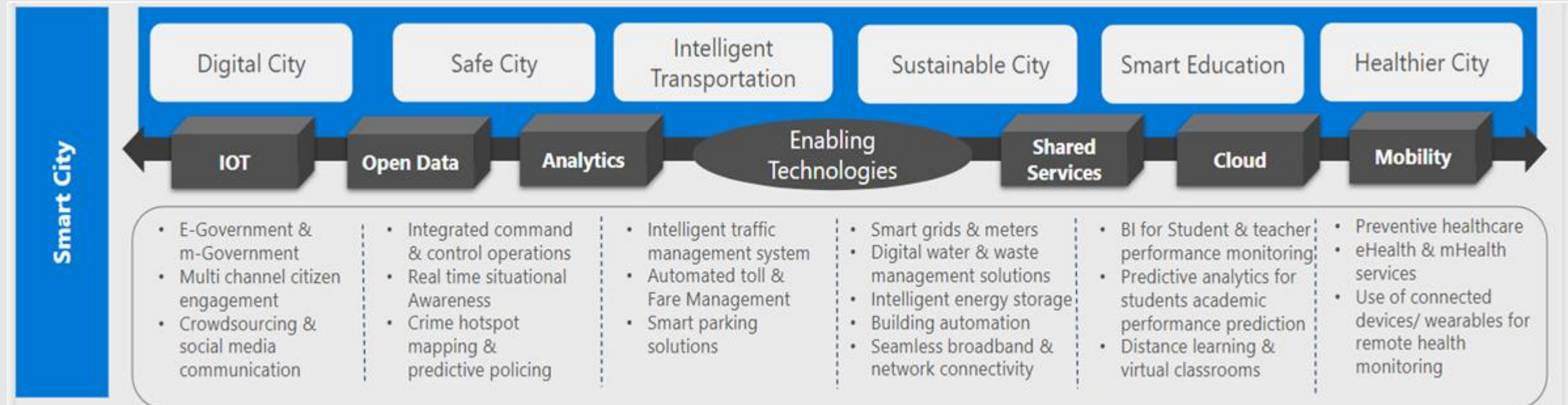
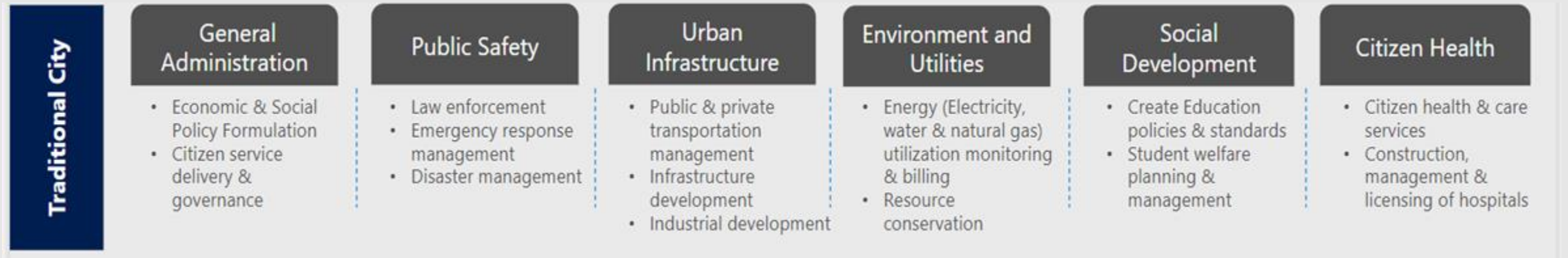
Modernize portfolio, transform processes and skills



TRANSFORM BUSINESS

utilize data to produce actionable analysis and enable better decision making

Digital Transformation in Government (Leadership)



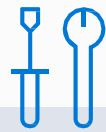
Digital Transformation in Government (Execution)

How to improve citizens services, enhance communication and collaboration, and foster open democracies



ENGAGE YOUR CITIZENS

Through connected mobile services to increase satisfaction and participation



EMPOWER CIVIL SERVANTS

to do their best work by leveraging the power of mobility



OPTIMIZE GOVERNMENT OPERATIONS

to ensure cost and operating efficiencies with trusted cloud services



TRANSFORM YOUR SERVICES

and better utilize data to produce actionable analysis and enable data driven public policies

Technologies transforming Government

101010
010101
101010

Big Data and
Open Data



Security



Internet
of Things



Artificial
Intelligence/
Machine
Learning



Blockchain

Cognitive Services



Vision



Speech



Knowledge



Language

HOW DO WE
CHANGE ?





ENGAGE YOUR CITIZENS

Improve

efficiency, delivery and
quality of in-person
services

Enhance

citizen engagement
with digital town hall
and social forums

Enable

rapid response and
transparency to citizen
service requests

Increase

online and mobile
citizen services
experiences

Mobile App with back end integration

HOUSING COMPANY is the largest low income habitat provider in the French West Indies.

With 14,000+ tenants across 4 territories, this property manager wanted to improve tenant services, contractor engagement while providing its staff and residents with real time visibility on their Accounts, Service Requests and Planning.



Service Requests



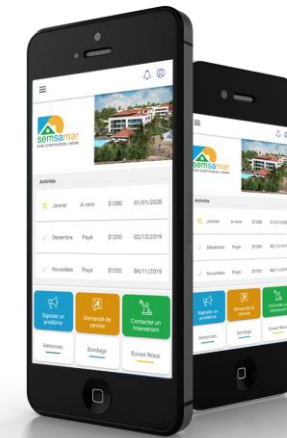
Accounts



Manage tenant
relationship



Manage
Suppliers

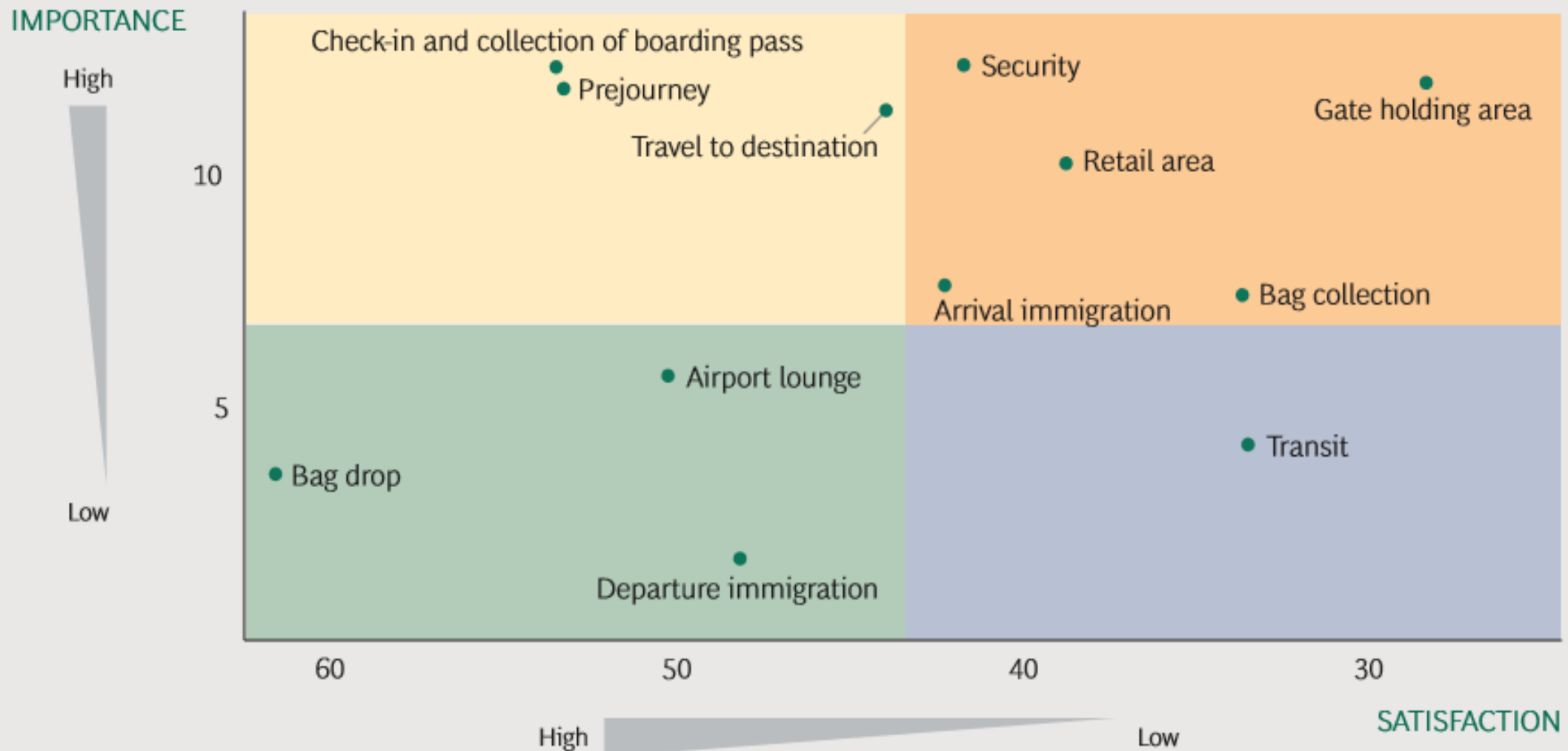


Reporting

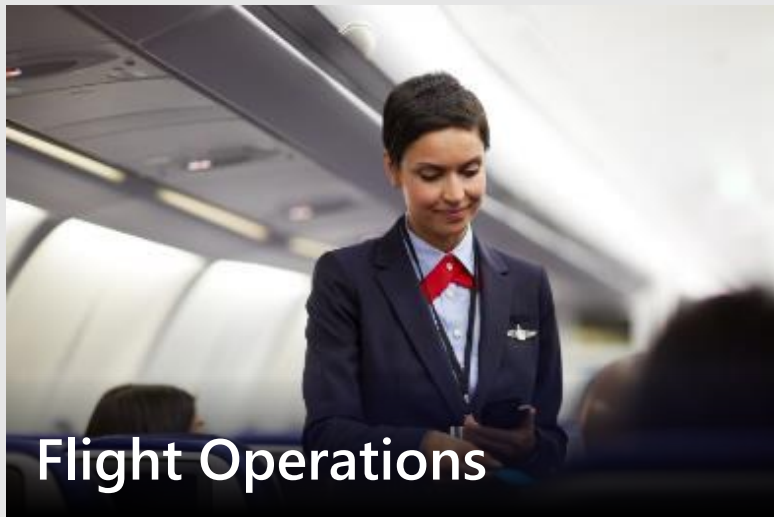


Search and
Follow up

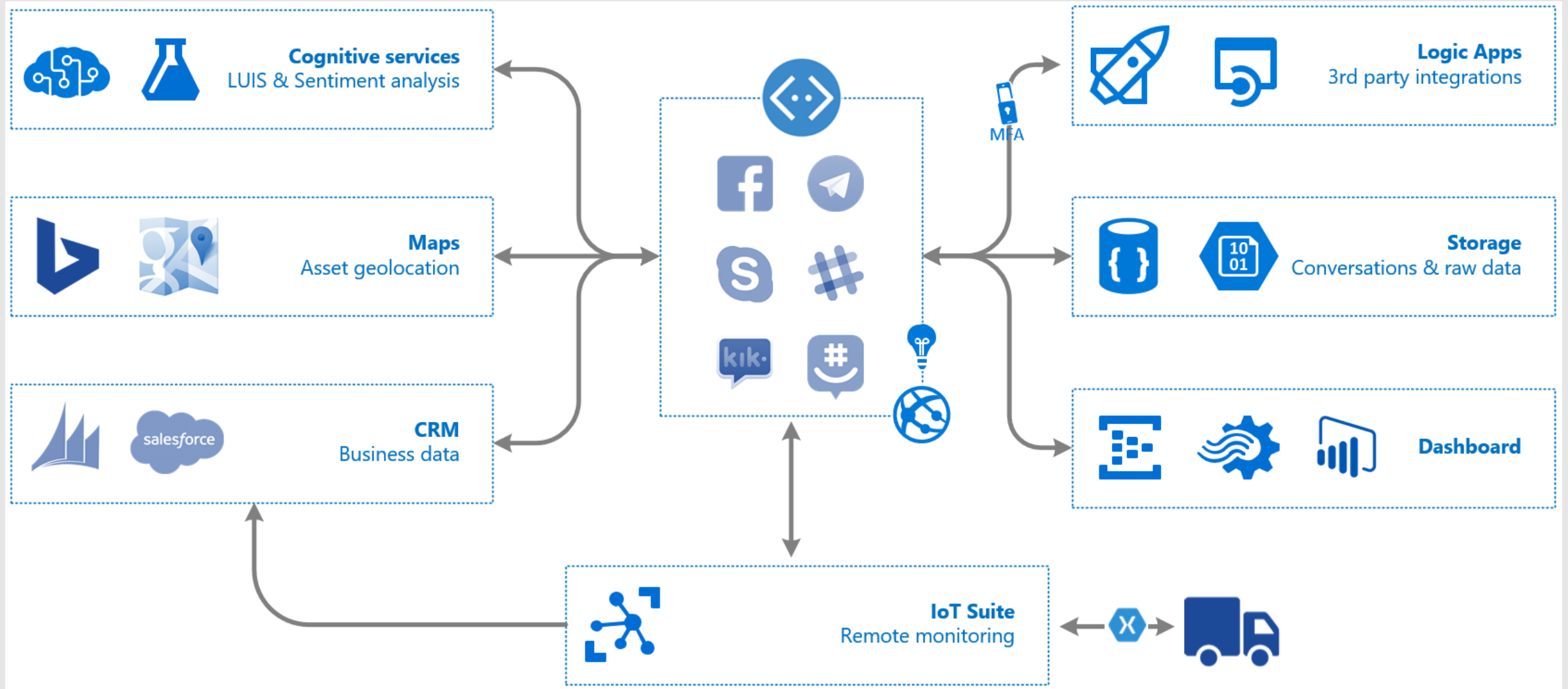
Five passenger experience areas of High importance and Low satisfaction



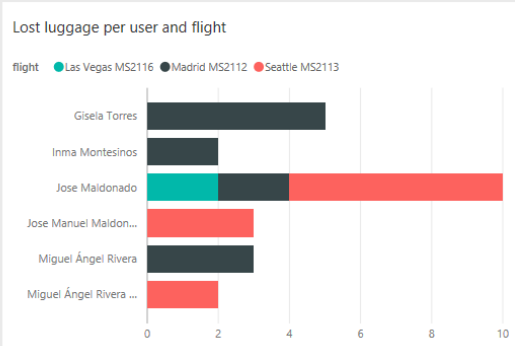
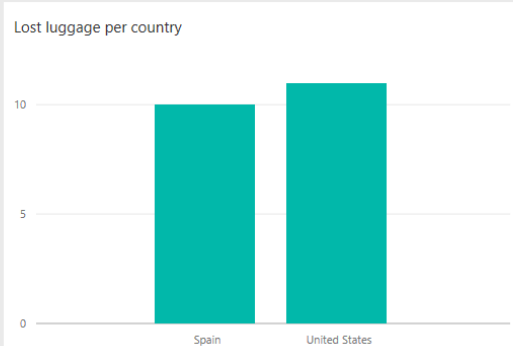
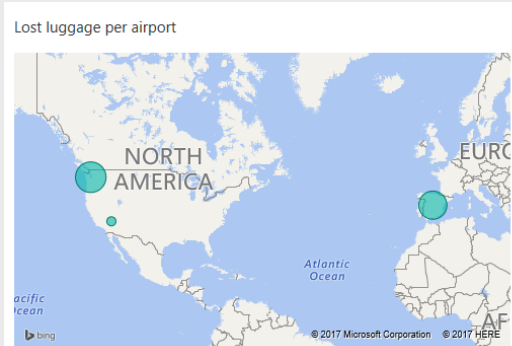
Reimagining the customer experience



Loss baggage solution architecture

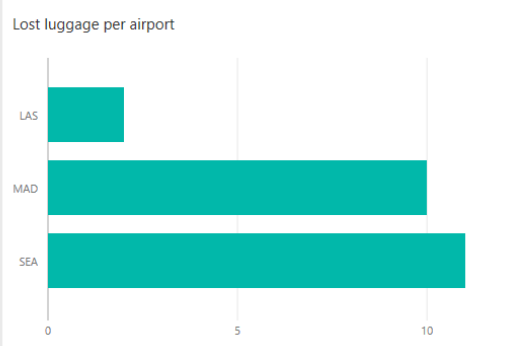
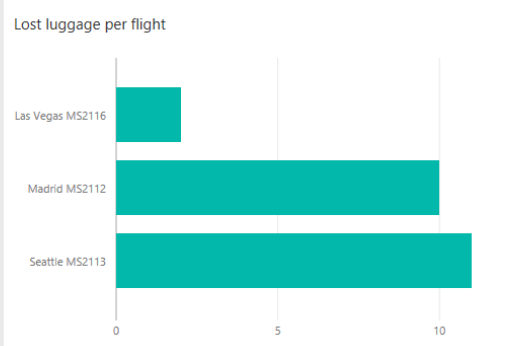
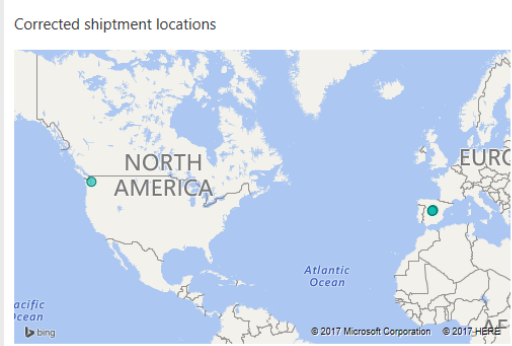


Operational dashboard

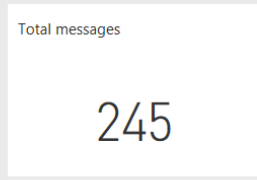
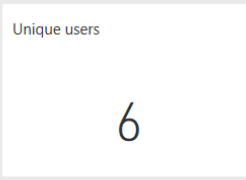
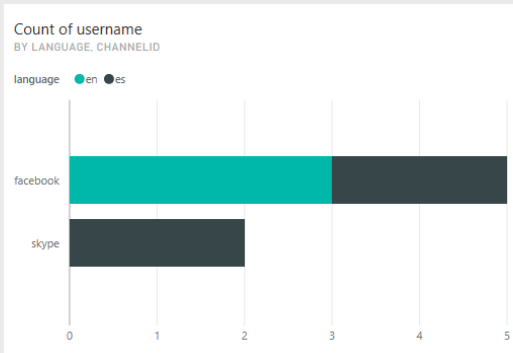
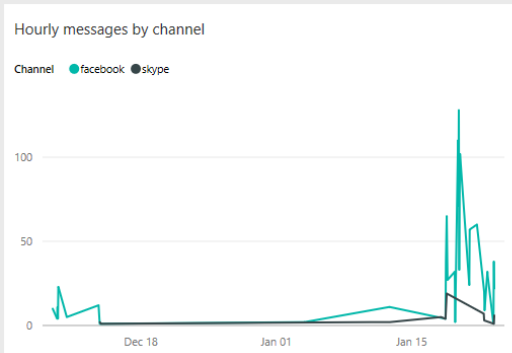


Real time dashboard

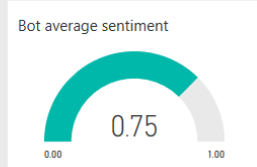
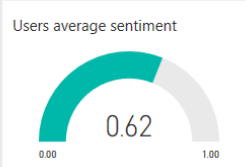
Airports losing most bags



Flights losing most bags



Top users affected



Track user sentiment



EMPOWER YOUR EMPLOYEES

Advance

government employee productivity with one complete collaboration solution

Collaborate

with integrated tools to build better citizen services

Increase

citizen services response rates with access to information and people

Enhance

services experience when employees have the best tools for the job



MODERN WORKPLACE



Call Center Analytics



Real-time analysis

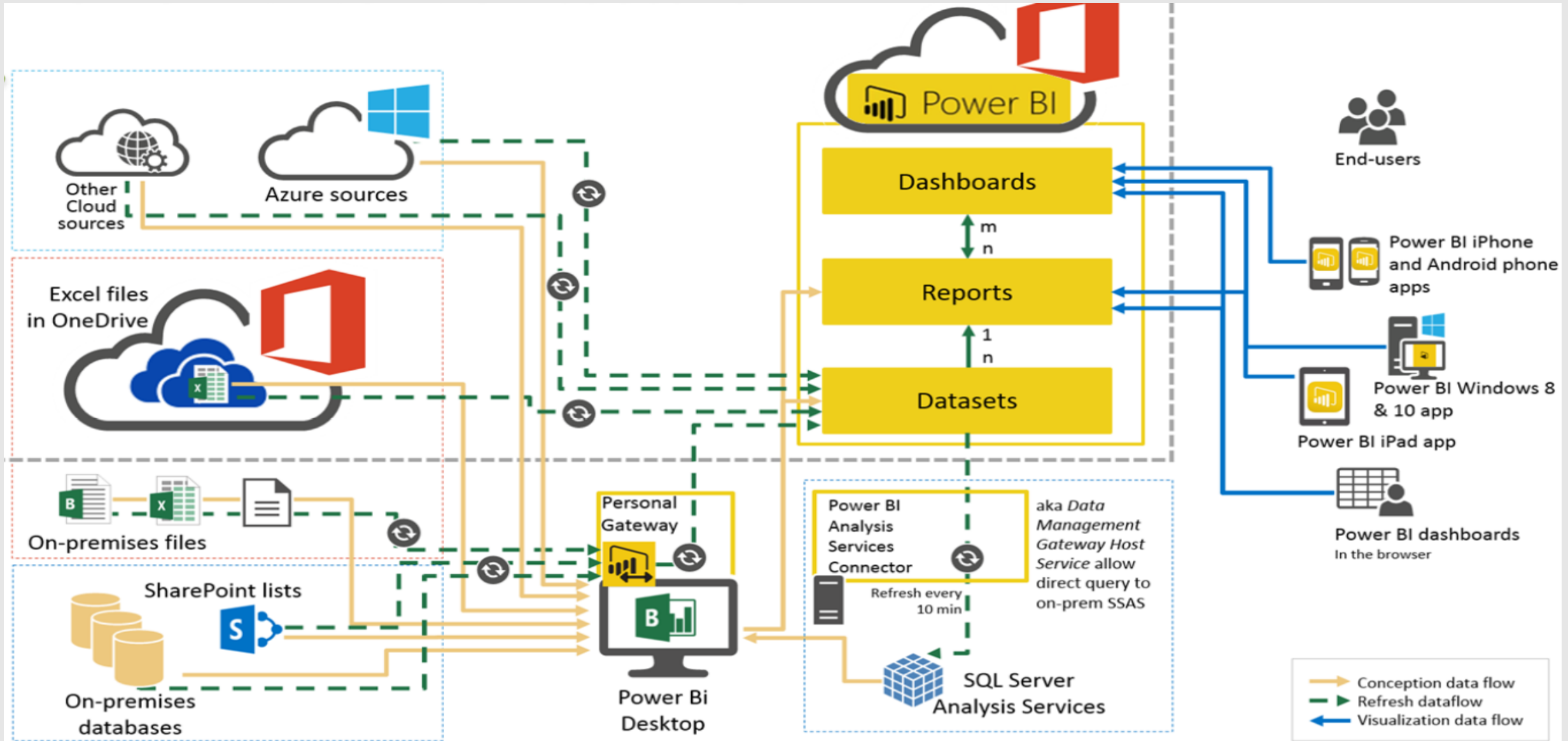
Understand caller intentions

Obtain caller sentiment

Business key concepts

Conversation history

Modern Data Analytics architecture





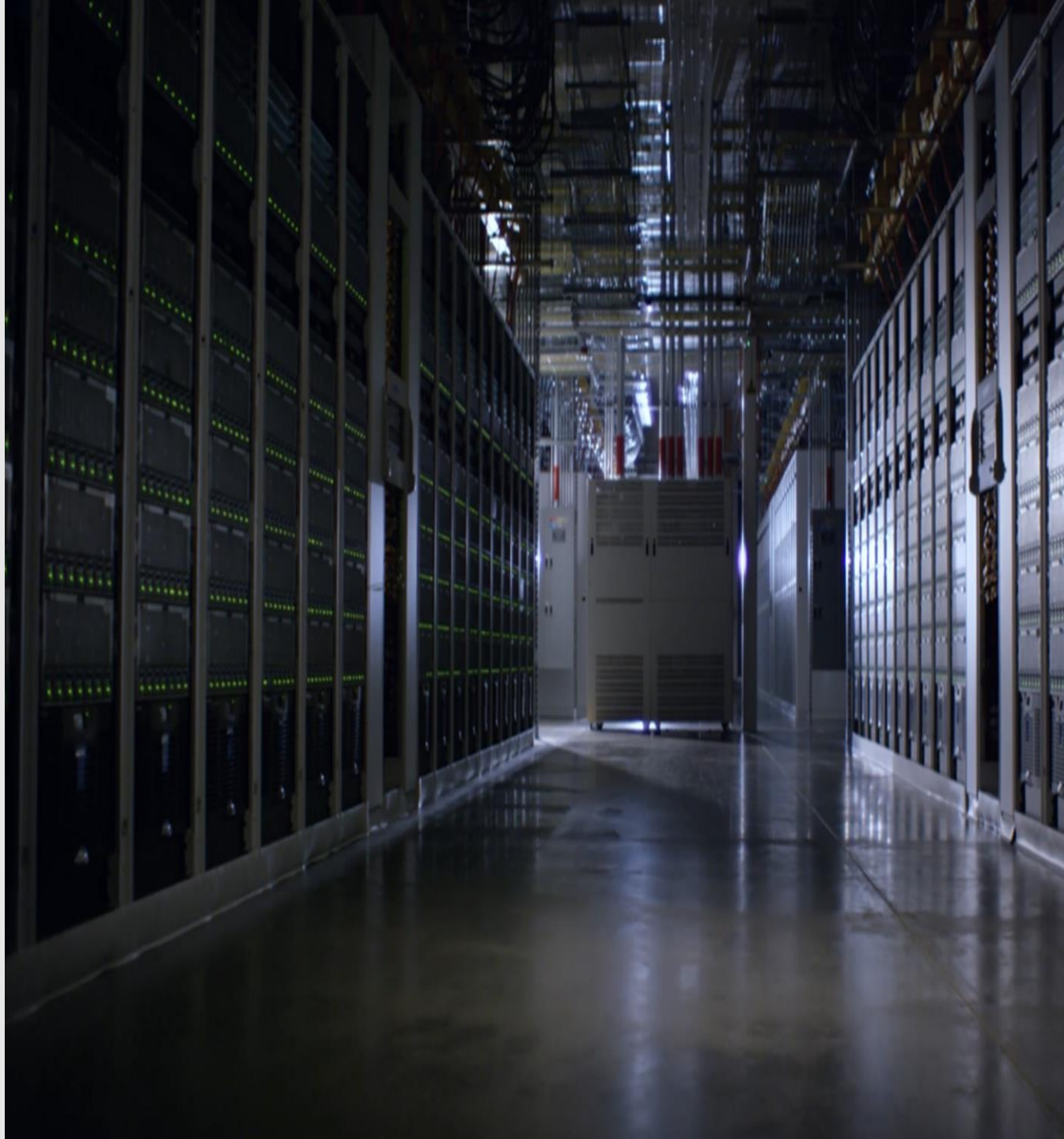
OPTIMIZE OPERATIONS

Reduce costly
maintenance and free up
resources

Enhance
capabilities for
managing
customer identity
and data
securely

Improve
agility through self-
provisioning services

Increase
resiliency with scalable,
on-demand
infrastructure

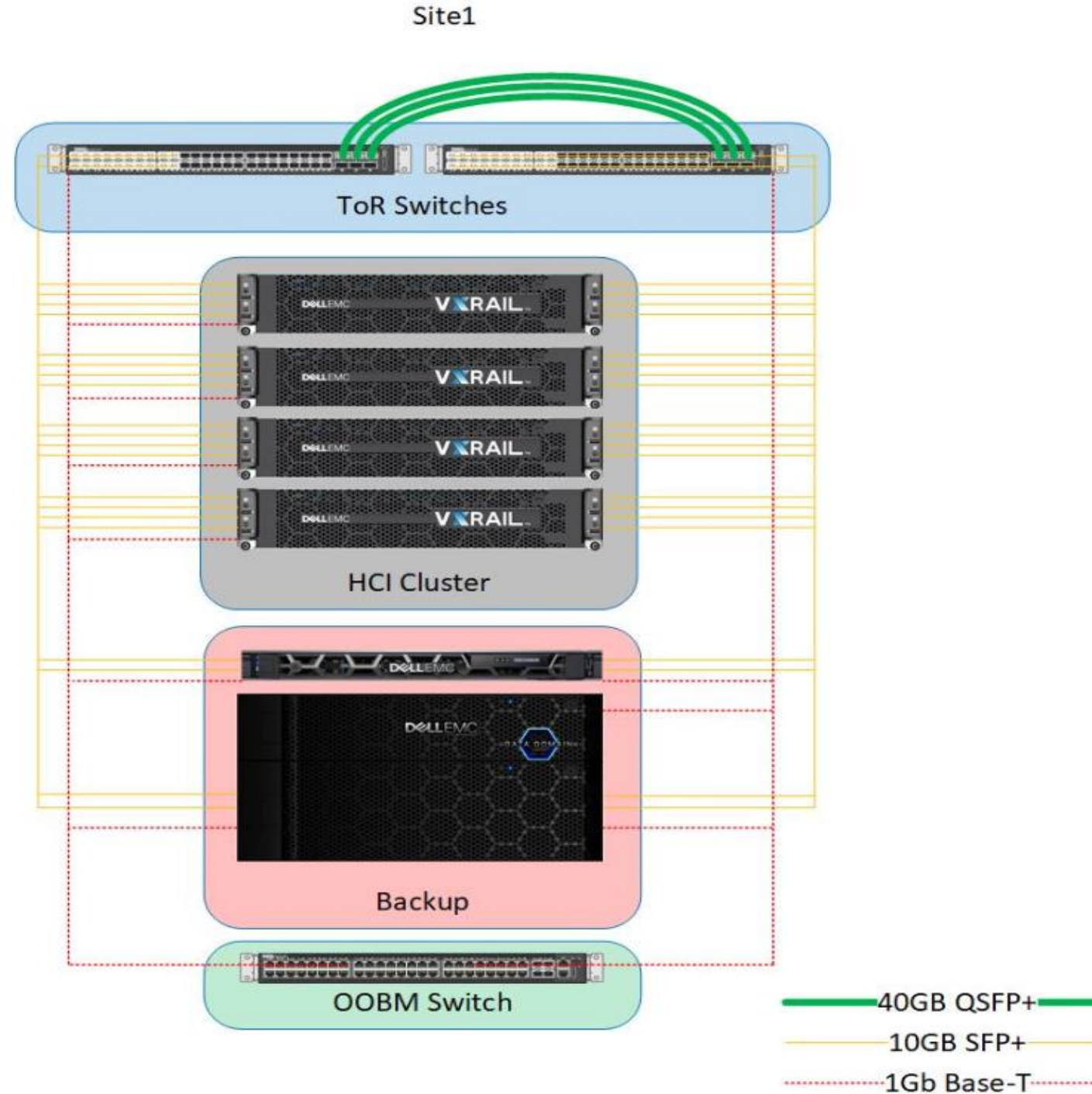


Datacenter Hyper Converged Infrastructure

This project aimed at consolidating and optimizing the Datacenter to meet the current and future demands of TELCO corporate users.

The target Datacenter infrastructure will be based on DELL EMC vxRAIL HyperConverged Infrastructure (HCI) with 4 nodes for processing and storage, EMC Data Domain 6800 for Disk based data retention, Avamar backup and Recovery suite – as well as vmWare vSphere hypervisor and vCenter cloud management tools.

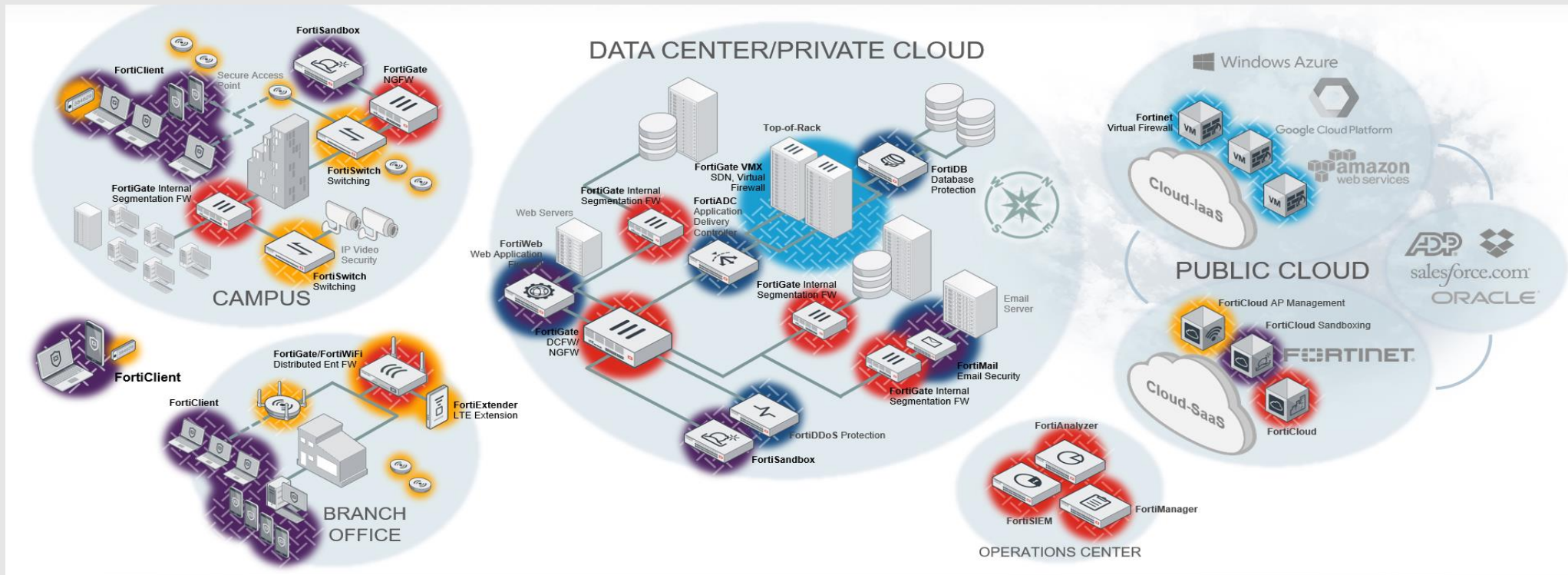
As a result of this project, TELCO has consolidated the current capacity of over 80+ servers located in 10 racks into half rack form factor.



Security

Deployed Edge to Cloud Security Fabric

INSURANCE company manages a large network of 500+ users in 21 locations across the Caribbean. Its hybrid information system is based on both on-premise and public cloud-based IT infrastructure, database services and application services.





TRANSFORM YOUR SERVICES

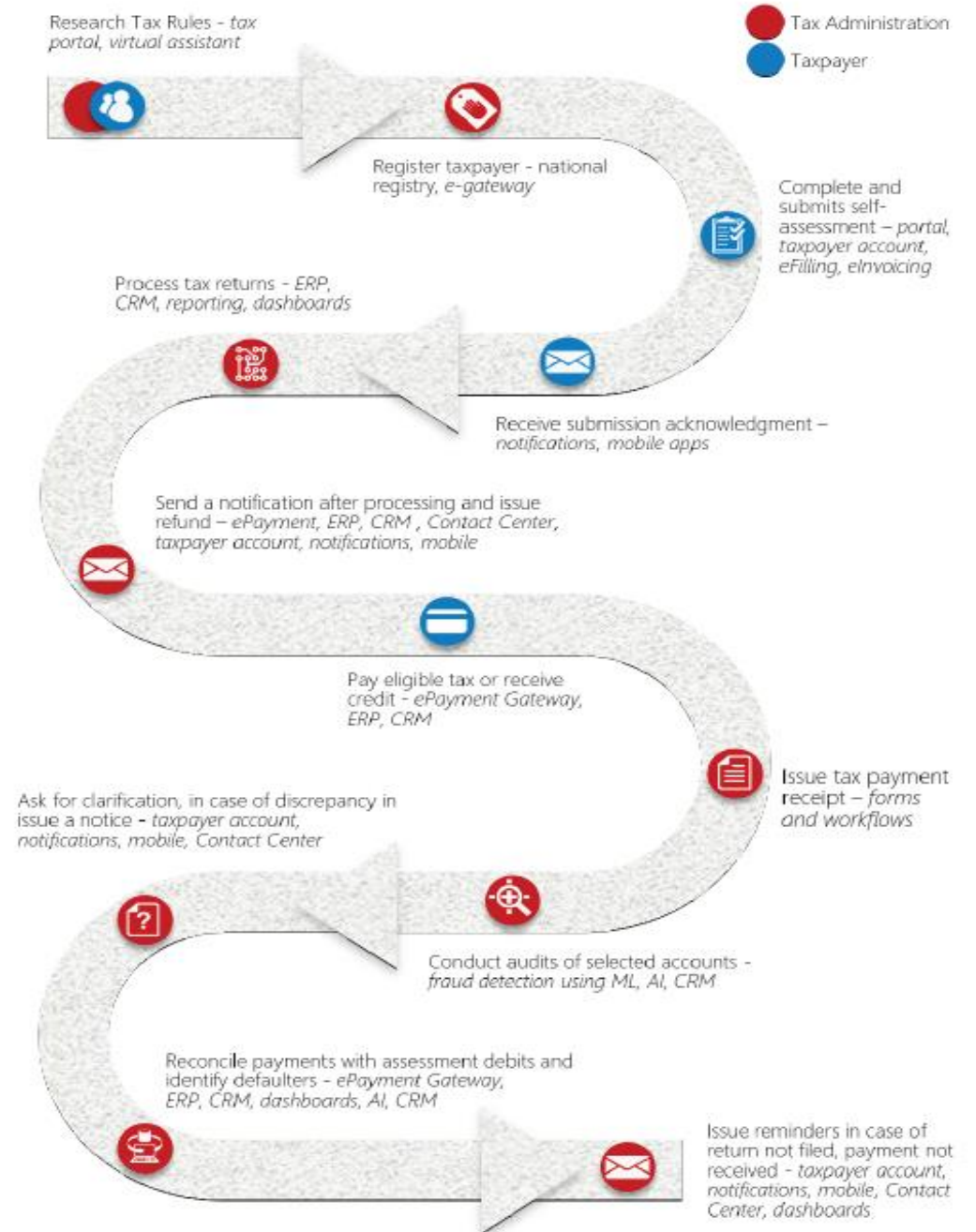
Accelerate
insight driven decisions on government agency operations and performance

Achieve
the potential of the internet of things

Control
government data storage and analysis costs

Combine
multiple data sources for enhanced insight and better decision making

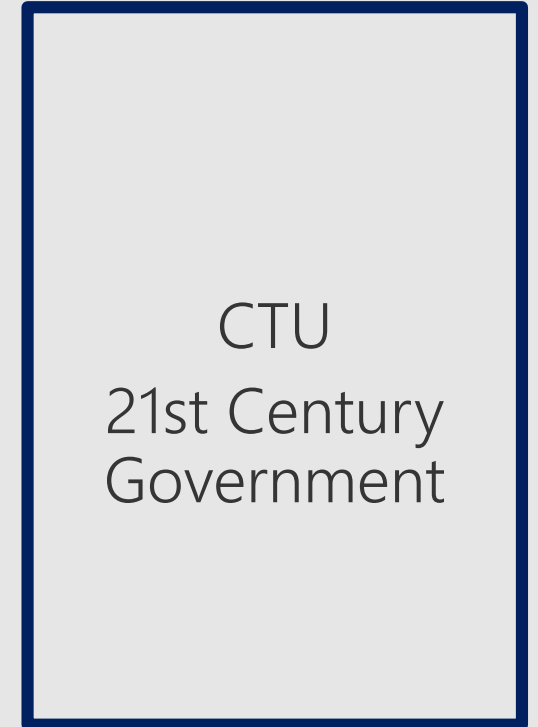
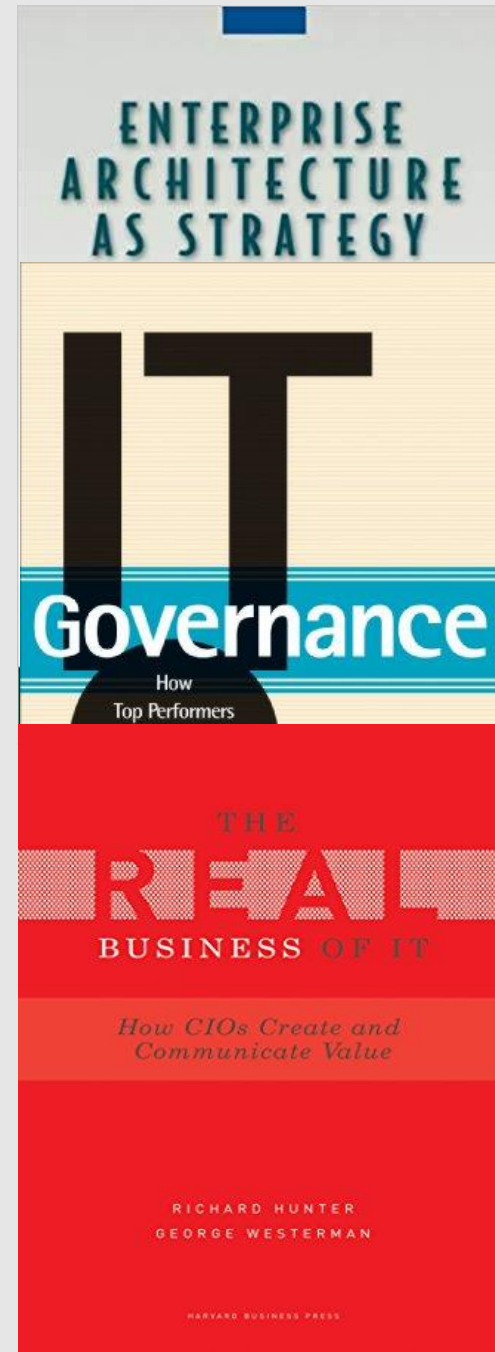
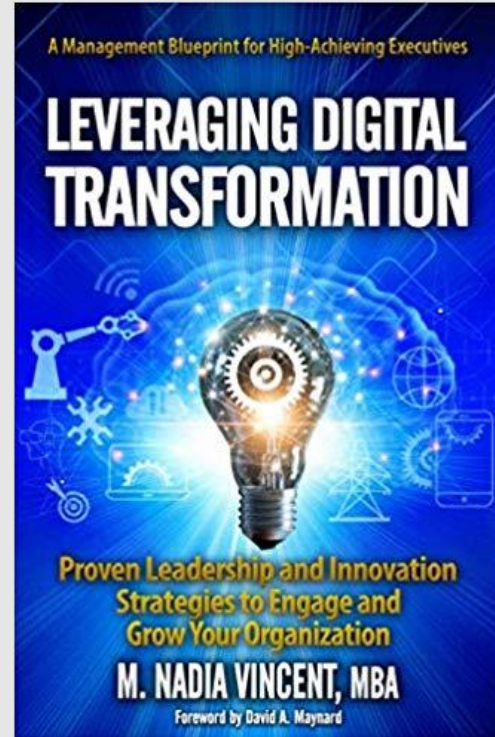
Tax Journey Map



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Thank you !

Bibliography

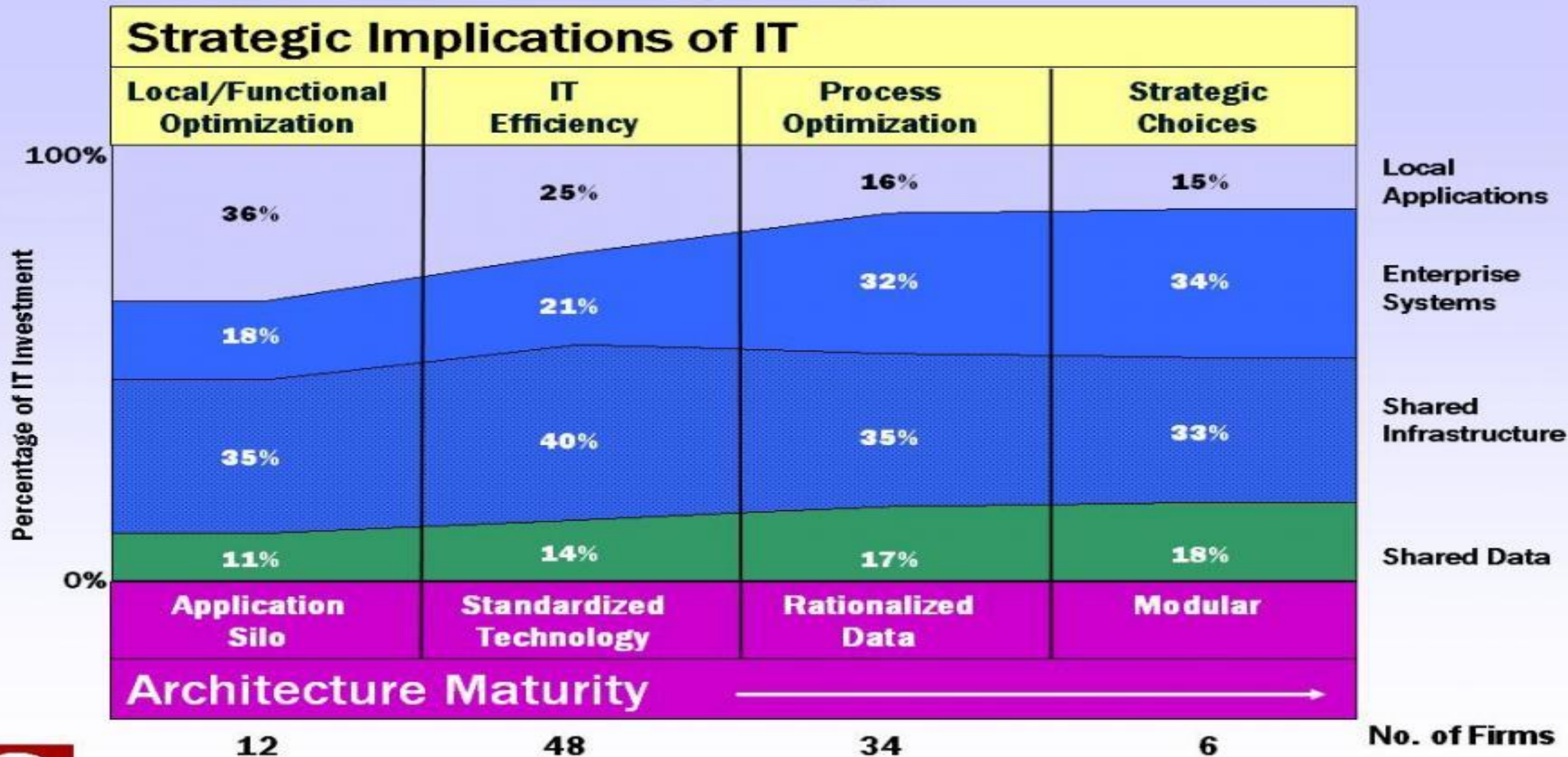


Four operating models

Business Process Integration	High	<p style="text-align: center;">Coordination</p> <ul style="list-style-type: none"> ■ Unique business units with a need to know each other's transactions ■ Examples: Commonwealth Bank of Australia, MetLife, Aetna ■ Key IT capability: access to shared data, through standard technology interfaces 	<p style="text-align: center;">Unification</p> <ul style="list-style-type: none"> ■ Single business with global process standards and global data access ■ Examples: Southwest Airlines, Dow Chemical, UPS Package Delivery ■ Key IT capability: enterprise systems reinforcing standard processes and providing global data access
	Low	<p style="text-align: center;">Diversification</p> <ul style="list-style-type: none"> ■ Independent business units with different customers and expertise ■ Examples: Johnson & Johnson, Pacific Life, ING ■ Key IT capability: provide economies of scale without limiting independence 	<p style="text-align: center;">Replication</p> <ul style="list-style-type: none"> ■ Independent but similar business units sharing best practice ■ Examples: Marriott, 7-Eleven Japan, ING DIRECT ■ Key IT capability: provide standard infrastructure and application components for global efficiencies
		Low	High
		Business Process Standardization	



Architecture Maturity Stages



Capability to solve problems & meet goals

How evolved is your capability to creatively problem solve?



In-person, one-episode at a time



Some analysis, high level trends



Deeper analysis, identify hidden problems, respond



Real-time data, predictive, proactive, transformative

Integrate data & technology

How are services delivered & content managed?



Paper / No Data



Some automation/ some data



Transactional Services / Rich data



Integrated data models

Work across disciplines & systems

How do teams work together?



Silos



Across disciplines or units



Across teams or departments



Across systems

Lead Collaboratively

What does leadership look like on your teams?



Hierarchical



Encourage team problem-solving



Shared accountability for outcomes



Transparent multi-partner governance

Engage people

How openly do you allow others to participate?



1-way/Broadcast Engagement



Receive input / 2-way engagement



Close the feedback loop



Inclusive Relationships / Partnerships

1

2

3

4