

# Towards Transformation Into Smart Society

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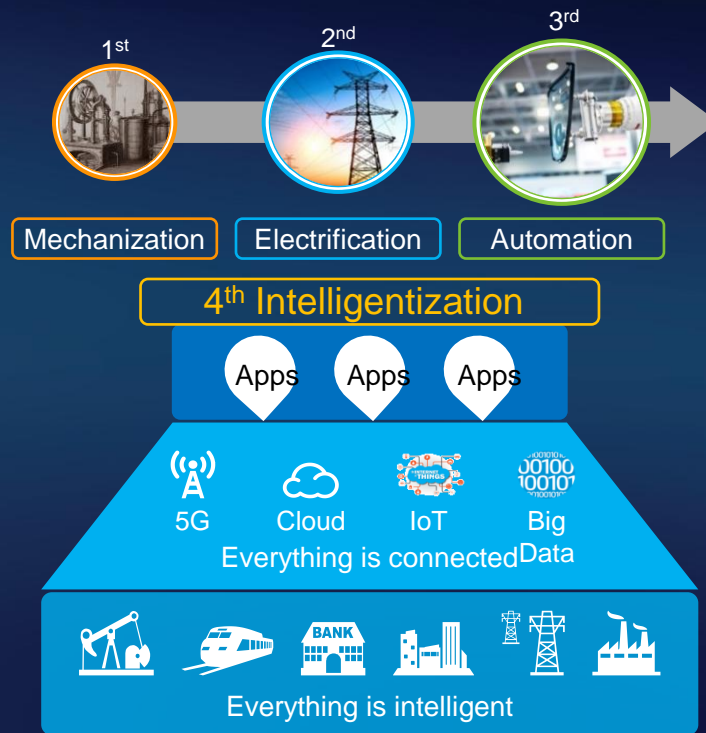
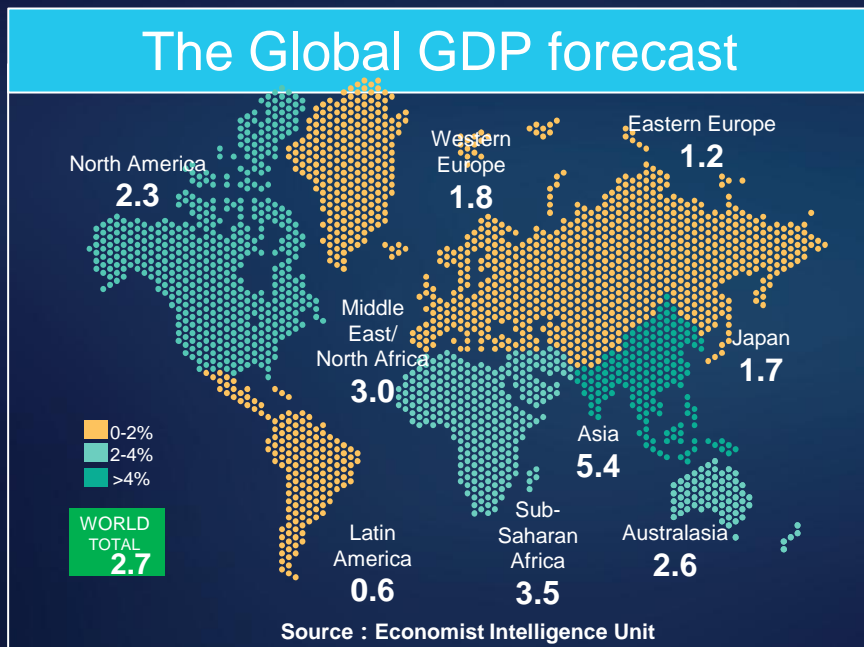


# Content

**1 Smart Society**

**2 Journey Towards Transformation**

# A Revolutionary Shift is Happening...



# Digital Era is here and it is Driving Rapid Development of Users, Applications, Traffic, Data and Services

## A digital era is here



Pope enthronement



Tesla



Wearable devices



Digital manufacturing

2016

## More connections

× 4  More broadband connections

× 2  More Internet users

× 3.2  Longer online hours

× 5  More smart devices

## More data and services

× 20  More data

× 7.7  More traffic

× 10  More cloud services

× 4  More ICT applications

2022

Source: Informa, IDC, Gartner, SA, OVUM, and Huawei MI



# ICT Transformation is a Most for Smart Society



Government

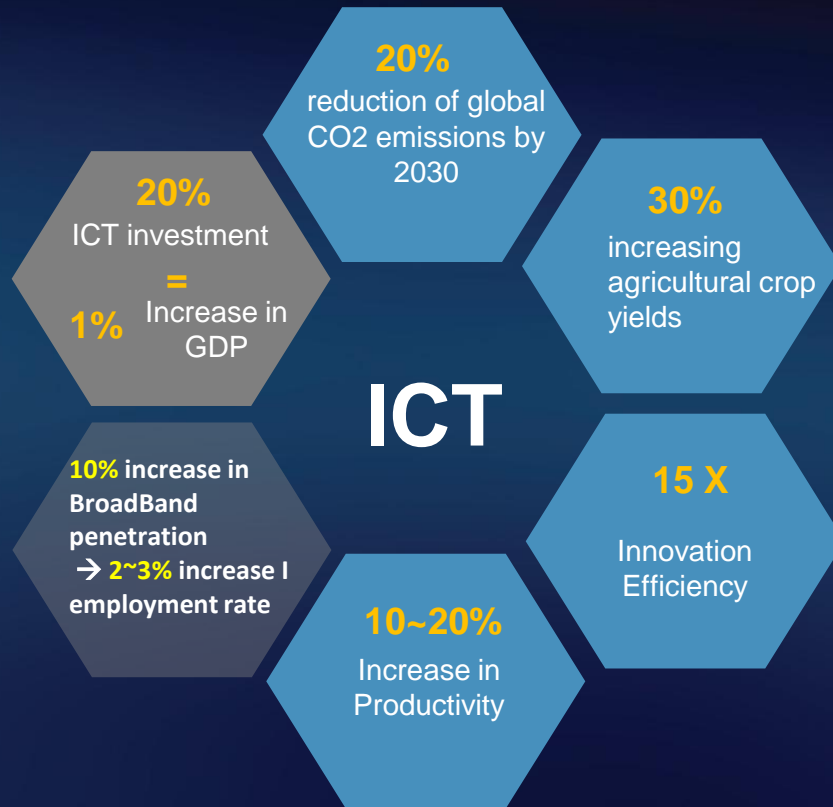
ICT Investment ↓ Regulations & Policies

## Digital Transformation

- 1** Activate Economic to **increase GDP**  
(Vertical Industry competitiveness, Digital Hub in Africa, etc)
- 2** Increase Employment to **Creating job**  
(SME/SMME business, e-Commerce, Manufacturing, Agriculture, etc...)
- 3** Better Public Services to **Better Quality of life**  
(Safe Community, e-Education, e-Med, e-Gov Services, etc)



People



Source: Boston, Huawei GCI

# ICT is a Key Enabler for Economy Development



- Change **150,000** post-office to free Internet Access Point & public service center
- E-Kranti: Integrate all public services such as **e-edu, e-medical, e-Safe** etc on Internet

- Creating **270,000 rural jobs** only by Alibaba
- All be founders & All for Innovations
- New added **240,000 ICT Related SME**



- Invest **\$4B in ICT** which is the most in all industries
- e-Commerce Trade Volume grows to **\$20B**
- Indonesia Sehat (**Healthy Indonesia**), **45 million** people have health card.



- Digital Malaysia developed the **tourism business** in eastern Malaysia
- Growth jumping by over **40%** in the past three years – over double of Asia Pacific's average of 16%.

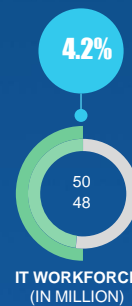
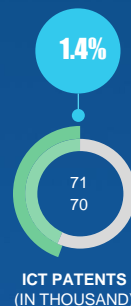
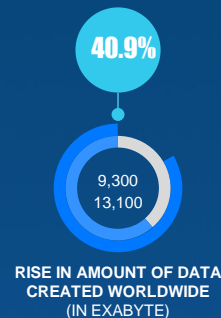
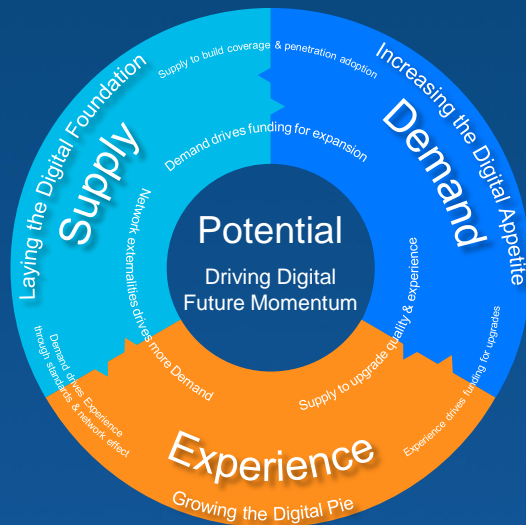
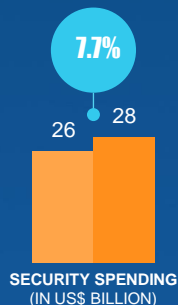
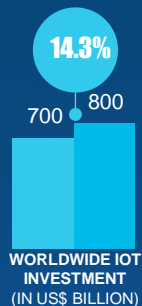
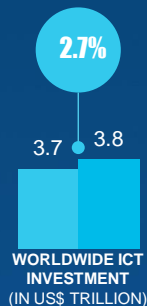


140 countries have developed national broadband plan, strategy or policy - ITU

# Many Countries Have embarked in National ICT Planning

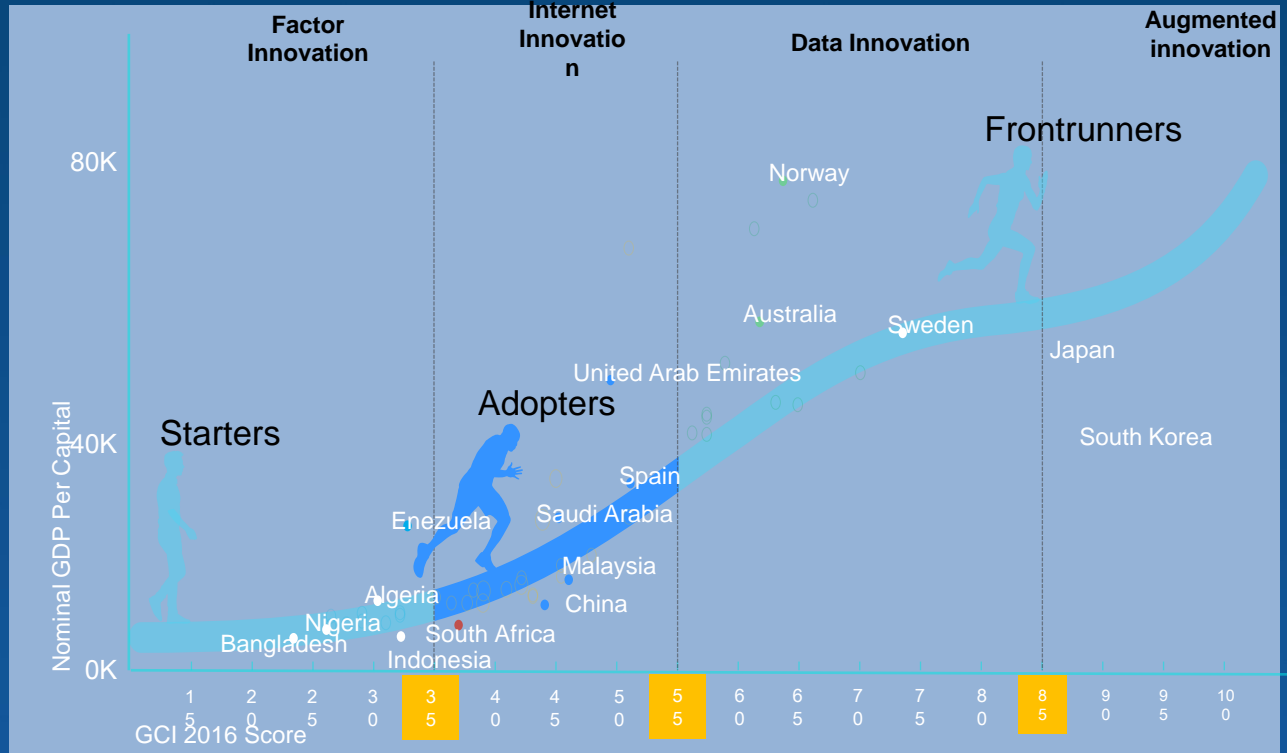
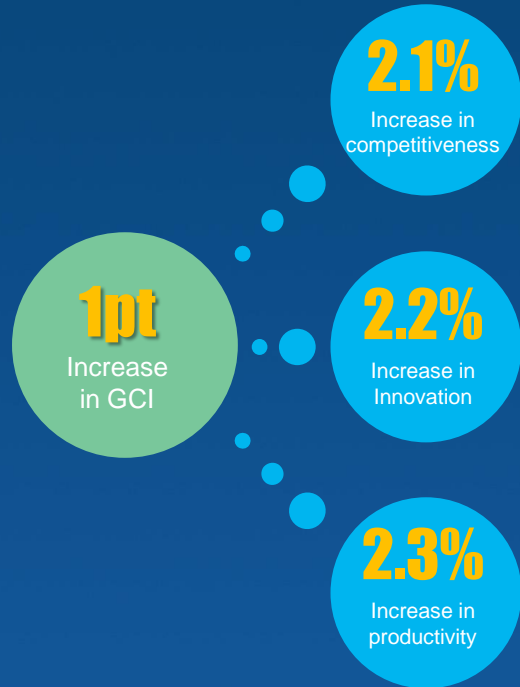


# Four components encompass the entire chain of ICT development for the digital economy

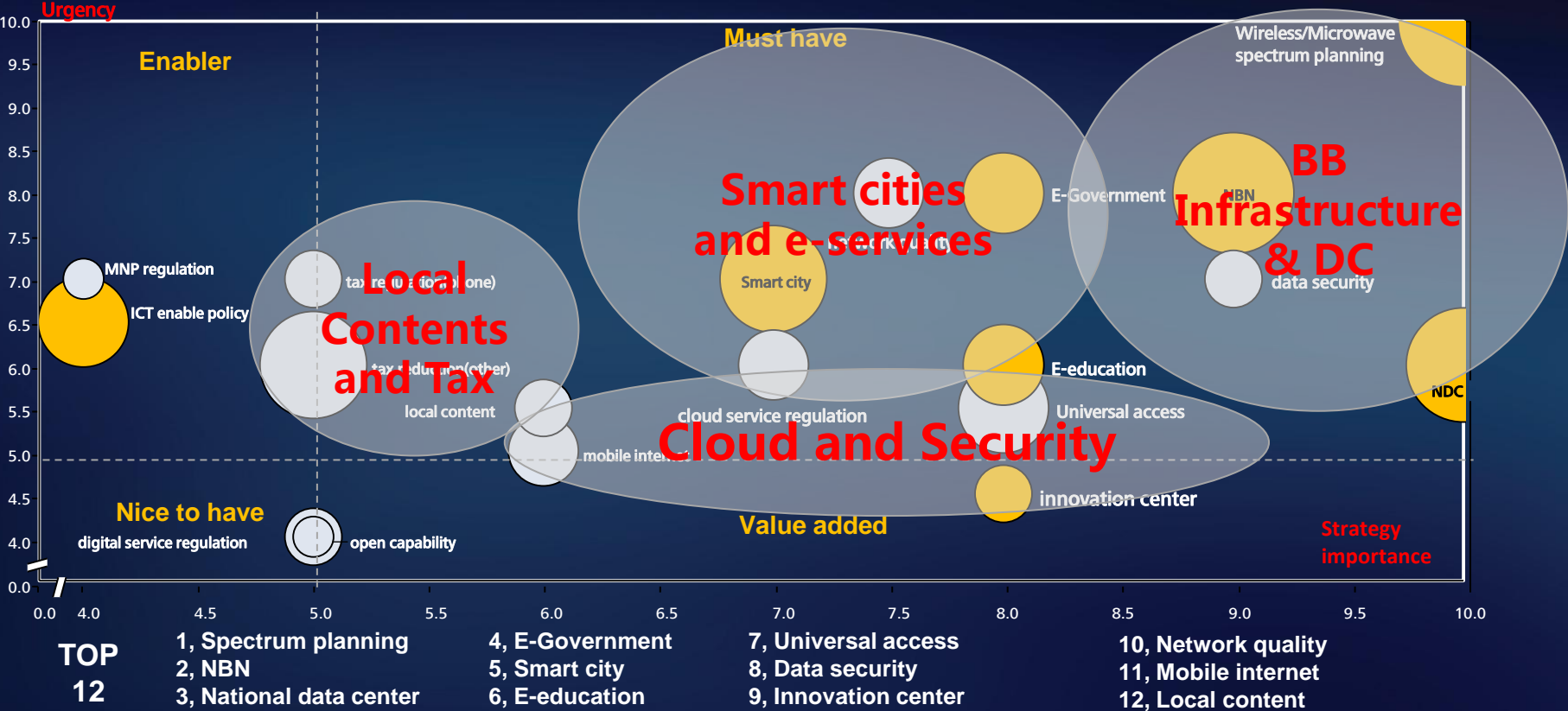




# The GCI Metric reliably Indicates where a Nation is Located on the Road to a Digital Economy

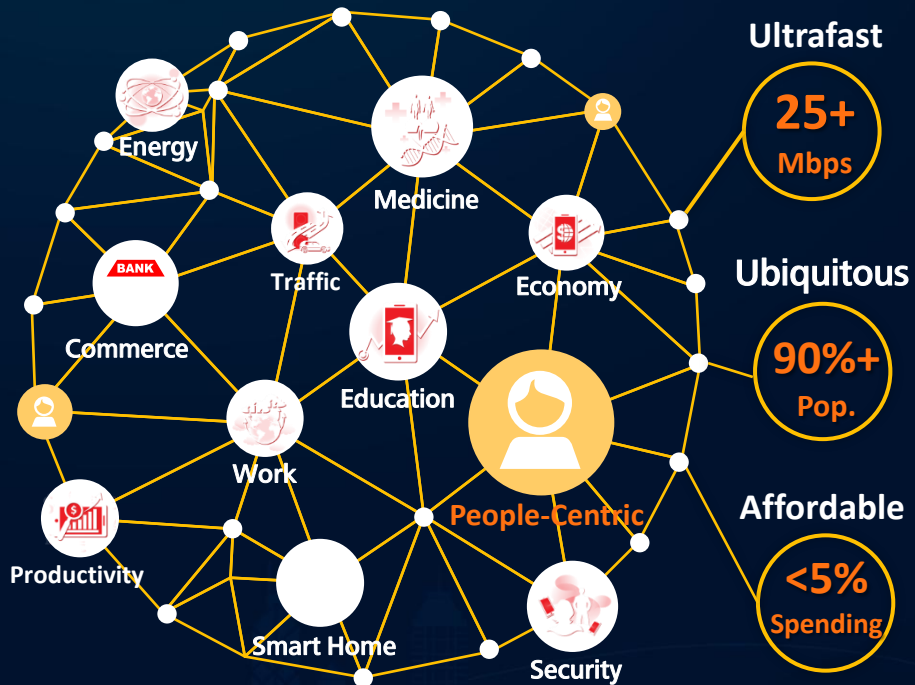


# Strategic Priorities Classification in Smart Society Transformation



# Connectivity is the Foundation of Smart Society

- Overwhelming evidence to support benefit of broadband investment in the creation of jobs and GDP growth



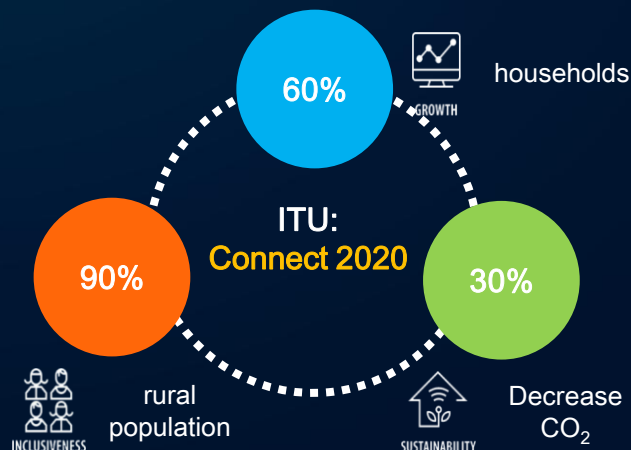
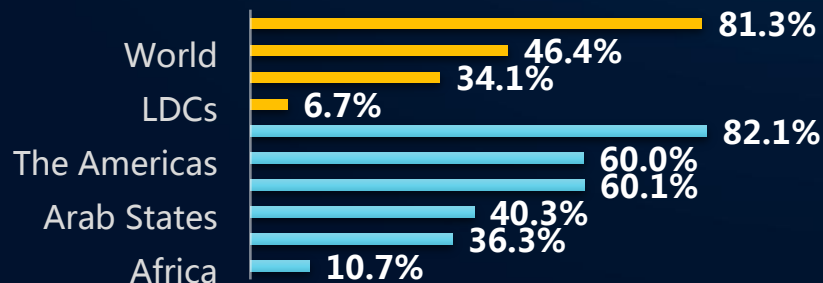
Source: Analysys Mason research

# But about 1B Households are still Unconnected

Households: **779M** connected, **992M** unconnected

Connect 2020: Drive households BB fast-growing

Percentage of households with Internet access



**148** Countries with National Broadband Plans



More than 300M households will be connected by 2020

# Make Society Safer Then Smatter by Leveraging on ICT Technologies

Efficient Collaboration for Major Events and VIP Visits

**300,000+**

People in 0.12 km<sup>2</sup>

**10,000+**

Police Officers

Vastly Improved Public Safety

Kenya Crime Rate

**↓ 46 %**

For covered areas 2014~2015

Rapid and Effective Crime Investigation

Hit-and-Run Case  
Solved in

**1 Day**



Source: Kenya Police Dept's 2015 Annual Report

# Applications for Government, Industry and People

## Passive Network Fiber, Optical Distribution Networks and People

### Datacenter for Cloud, Big Data Analysis



# Modeling a Smart Society

## Smart Society Ecosystem



## Business Enablement

Big Data

Cloud

## ICT Infrastructure

Data Center

MBB

FBB

# This **is** the future...





# Summary

- **Digital Transformation** Is Pivotal to National Competitiveness on the road to **Smart Society**.
- Africa has a solid foundation of Economy Infrastructure, ICT development can help Africa to keep the leading position in the world.
- Big Potential for Africa, **Supply/Demands** need to be stimulated and **Broadband** need to be Accelerated.

JOIN US IN  
BUILDING A BETTER CONNECTED WORLD

THANK YOU

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# Continuous Innovation as a Global Leading ICT Supplier

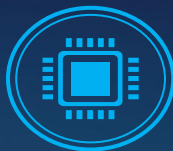
Building a Better Connected World



Structure & Design



Communication &  
Multimedia



Chips



Big Data



Cloud services



Security

## Hardware Innovation

## Software & Cloud Innovation



**170+**

Countries, Ranking 228 in  
Fortune Global 500

**\$60.8B**

Revenue in 2015, CAGR 17%



**176,000**

Employees, 72% localization

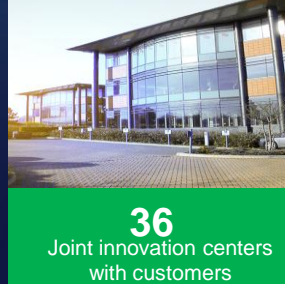
**\$38B**

R&D Invest in past 10 years,  
10% of Revenue



**16**

R&D centers, 79,000  
R&D Employees



**36**

Joint innovation centers  
with customers

