



# Emergence of disruptive technologies such as Al is driven by a number of forces....

## ...rapid changes in client behavior is perhaps the most prevalent

## Demographics

Millennials and Gen Z aging into market

60

million digital natives age 13-35 in Nigeria willing to try and adopt new market innovations

#### **Attitudes**

Young and discontent

70%+

- would rather go to the dentist than listen to what Banks are saying
- believe that in 5 years the way we pay for things will be totally



## Mobility

Increased proliferation of smart phones



81%

53%

mobile phone penetration in Nigeria

internet penetration

## **Technology**

Significant advances in next generation technologies, analytics, infrastructure

How can banks drive success in this changing environment?

### **Banking Spotlight**

<20%

of global banks can be classified as Digitally Mature Banks

65%

Of customers think having a digital presence is highly important

80%

4 of top 5 reasons why a customer will switch is customer experience

## Connectivity

Always on connectivity with increasing number of devices



#### Innovation

Available money flow for innovation

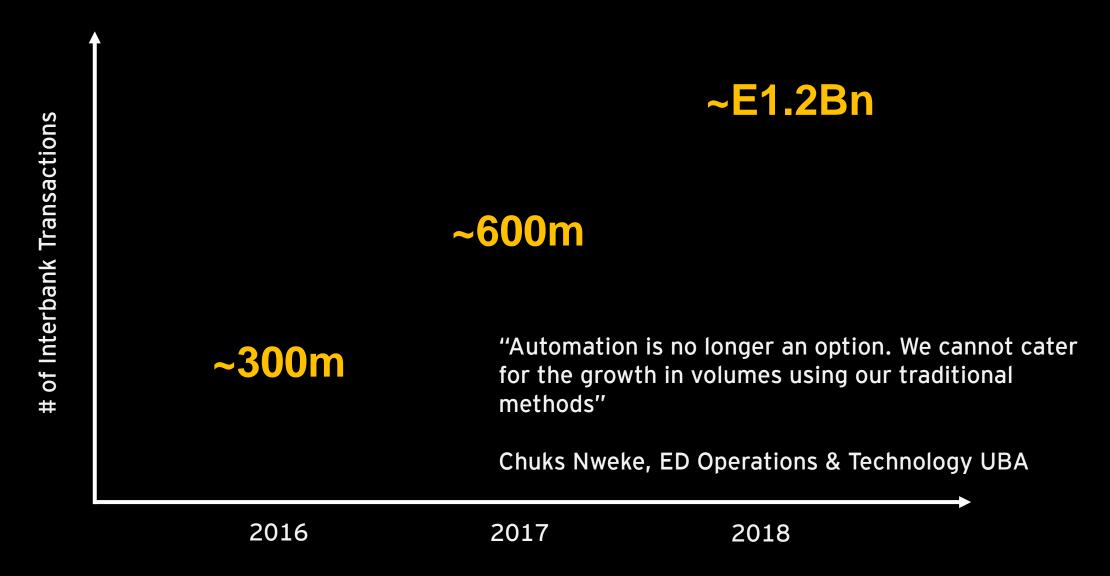


\$4 trillion addressable financial services market with flow of \$24b in 2015 to new FinTechs

Innovators are taking advantage of market trends and changing consumer expectations.



# ...followed by massive growth in transaction volumes





# ...leading to an explosion of data

2.5

Quintillion bytes of data generated daily



90% of the data in the world today was created in the last 2 years

 $35_{\text{days}}$ 

For a new technology to reach a critical mass of 50m users. 50 billion connected devices by 2020

Retailers who leverage the full power of big data could increase their operating margins by as much as

60%.



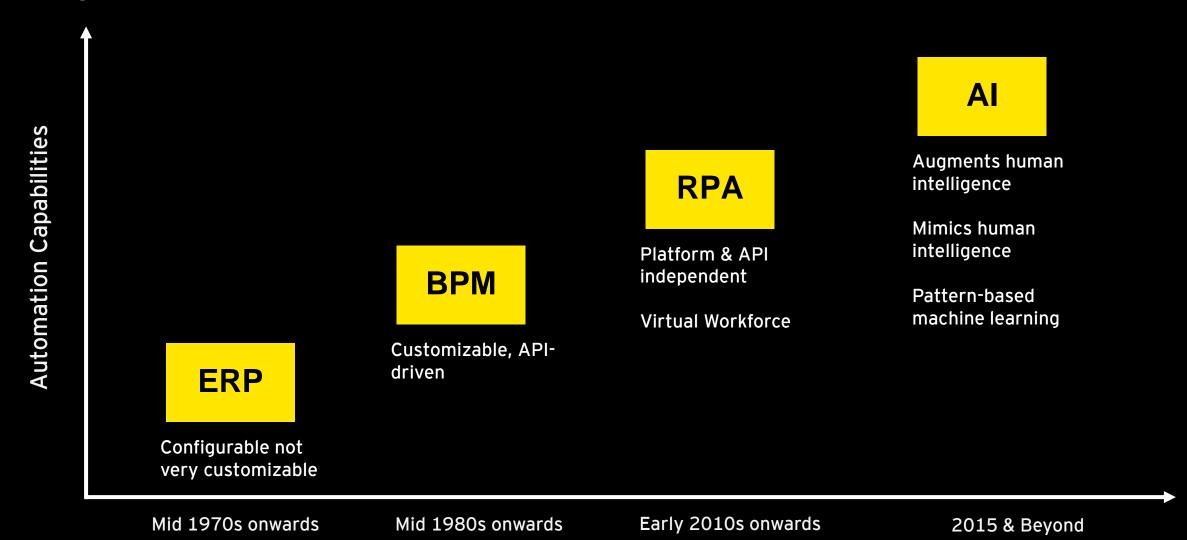
Only 3 %

Of the potentially useful data is tagged and even less is analysed

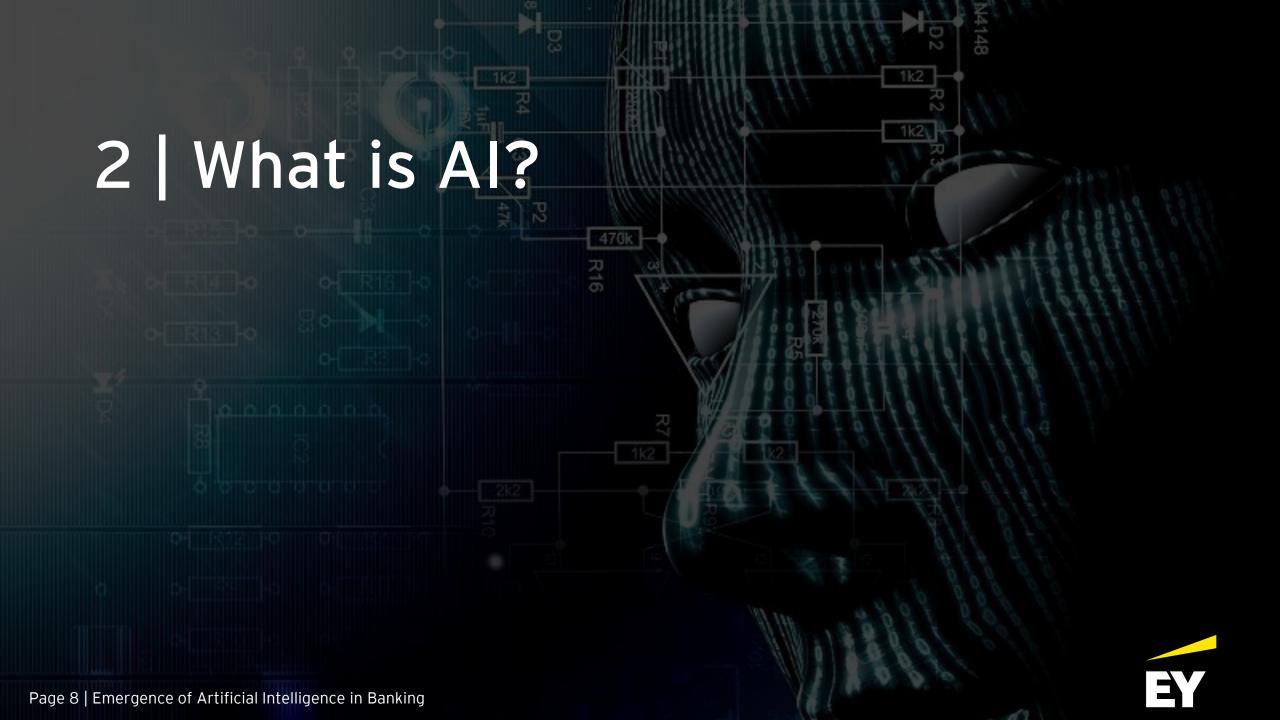
For a typical Fortune 1000 company, just a 10% increase in data accessibility will result in more than \$65 million additional net income.



# We have witnessed an evolution of process automation over the last 30+ years







"Al is everything – and everywhere" Sundar Pichai, Google CEO

It's hard to overstate how big of an impact AI is going to have on society over the next 20 years Jeff Bezos, Amazon CEO "The biggest thing that we're focused on with AI is building computer services that have better perception than people" Mark Zuckerberg, Facebook CEO

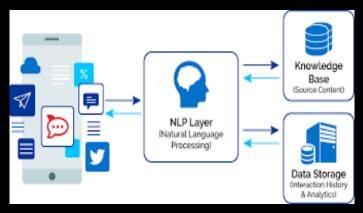
"One purpose of autonomous systems is selfdriving cars – there are others. And we sort of see it as the mother all AI projects" Tim Cook, Apple CEO

We are infusing AI into everything we deliver across our computing platforms and experiences

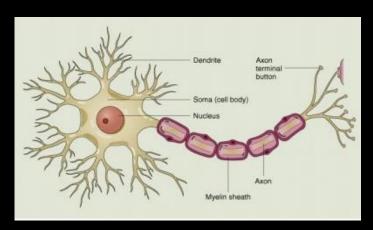
Satya Nadella, Microsoft CEO



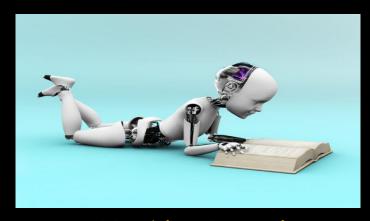
# Al is simulated intelligence in machines, making machines "think" like humans and mimic the way we act



**Natural Language Processing** 



**Neural Network** 



Machine Learning



**Deep Learning** 





# The application of AI globally can be grouped into 3 major buckets

#### Revenue

Predicting advanced dormancy

Utilising ML to improve customer interaction for Leading UK bank

► 67% accurate advanced dormancy prediction

Improved customer churn prediction

Using social network analytics to estimate Customer Churn at a Leading UK bank

► 16% improvement in estimation leading to proactive interventions

### Efficiency

Saving cost with RPA

Using Robotics for the end to end ATM reconciliation and refunds process

- ▶ 95% reduction is TAT
- ▶ 50% reduction in cost
- ► + Customer experience

#### 4 Reducing AHT

Improve automated call reason identification and reduces average handle time

► 70% Improved accuracy and consistency of trigger

#### Risk

7 Detecting CNP fraud

Using predictive analytics to determine 'card not present' fraud detection

► 40% of total CNP Fraud for following 3 months were captured.

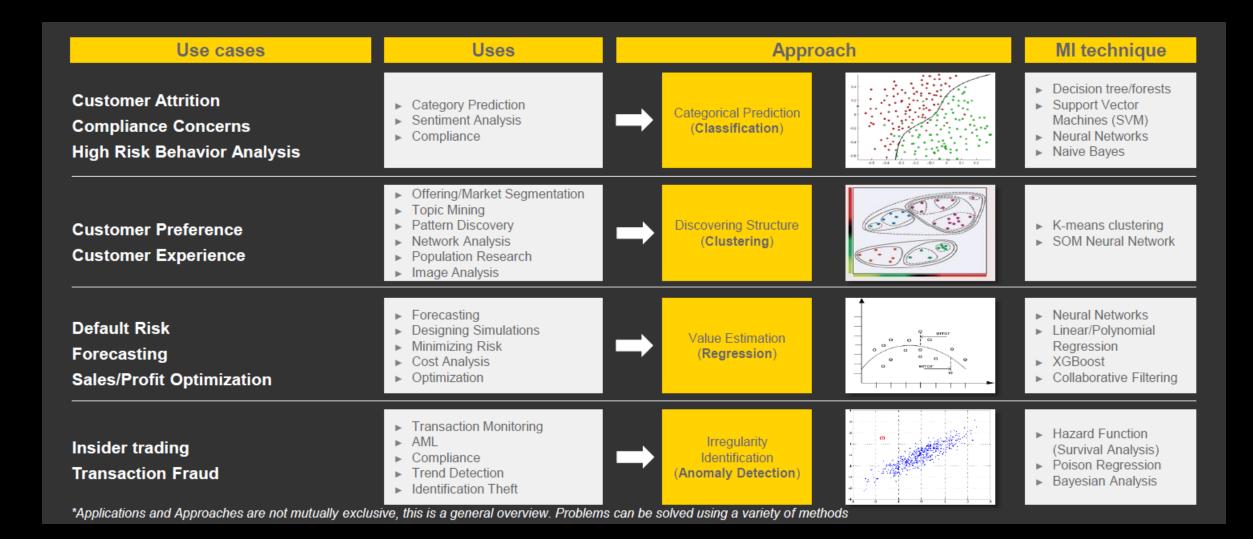
More accurate credit scoring

Mining large volumes of data to better assess the creditworthiness of loan applicants

► 50% improvement in decision making



## More Use Cases

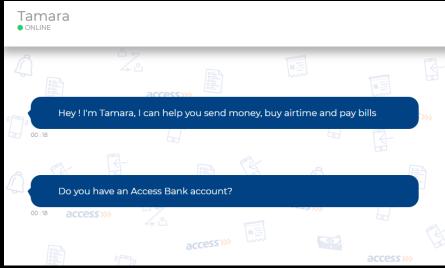


EY

# Locally the highest adoption in the customer engagement space

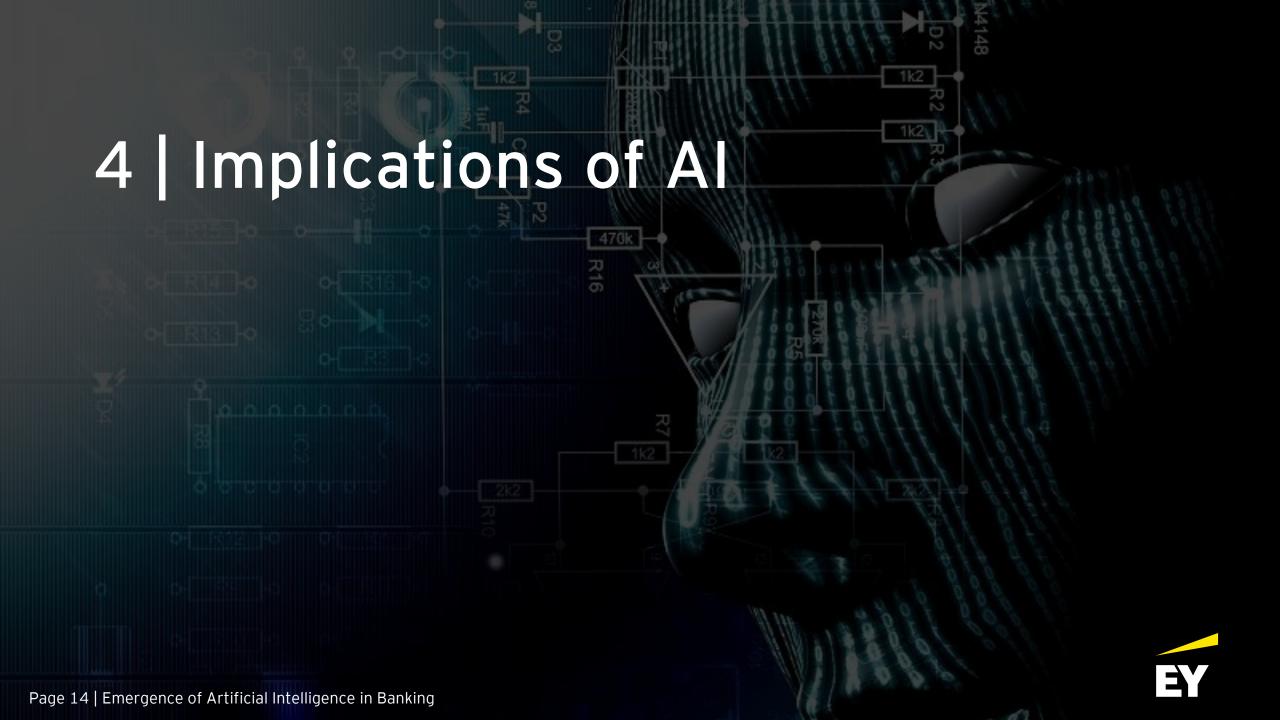












What does all this mean for the workforce, systems control and cyber security

**Skills** 

**Better Cyber Capabilities** 

**Data Quality** 

**Cyber Risks??** 

**Job Losses** 





Thank you!

