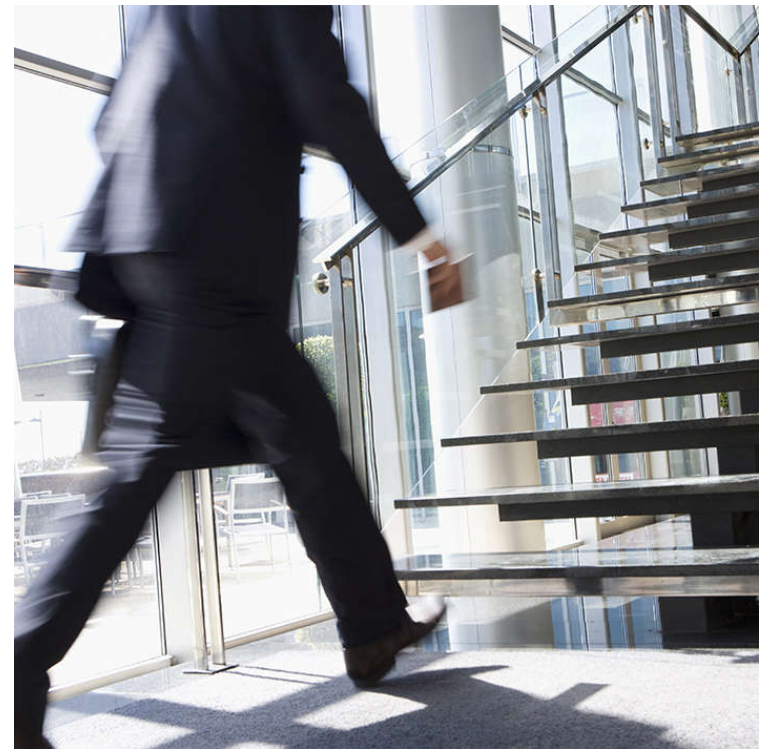


# Technology opportunities for Finance

*in a world of Industry 4.0*

## Presentation flow

- Overview of digital adoption in ASEAN
- Finance's Journey to the Future?
- Technologies in Play
- GenNext and the impact of technology





## Overview of digital adoption - Asean

- Digital economy currently US\$150 billion
  - Expected to grow to US\$200 billion by 2025, (6% of GDP)
- E-commerce – US\$88 billion
- ASEAN Smart Cities Network
- Young and connected peoples



Sources: Global-is-Asian, Lee Kuan Yew School of Public Policy's digital platform, asean.org, A.T. Kearney (40% below age of 30 and digital native)

## Technology adoption can change .. very quickly .. even among SMEs

### 2017

- **76%** have invested in innovative technology
  - 48% expect significant impact on their business over the next decade

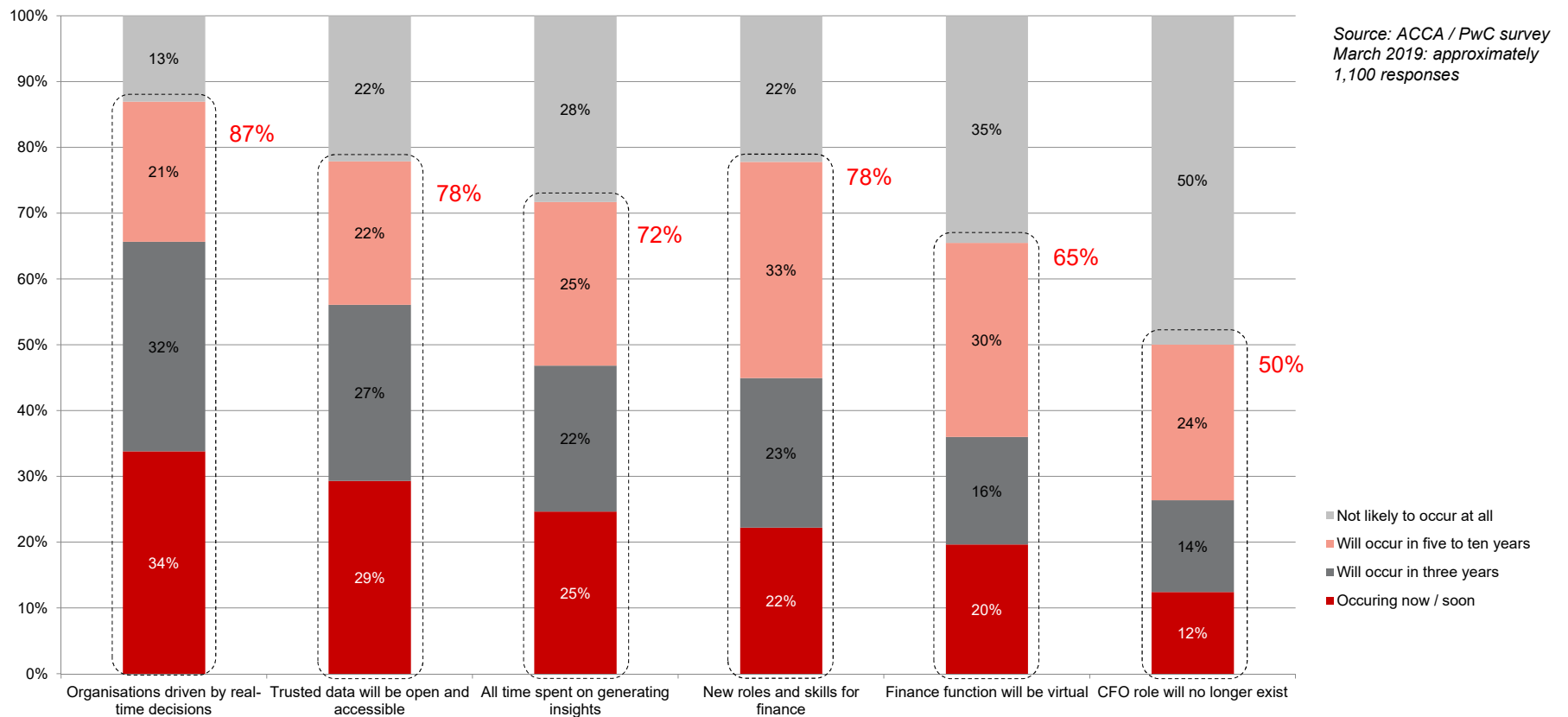
*(source: MYOB Business Monitor research)*

### 2016

- **80%** preferred to delay digital adoption offering long-term benefits
- 55% have access to customer data that feeds into digital technology



# Finance's Journey to the Future?

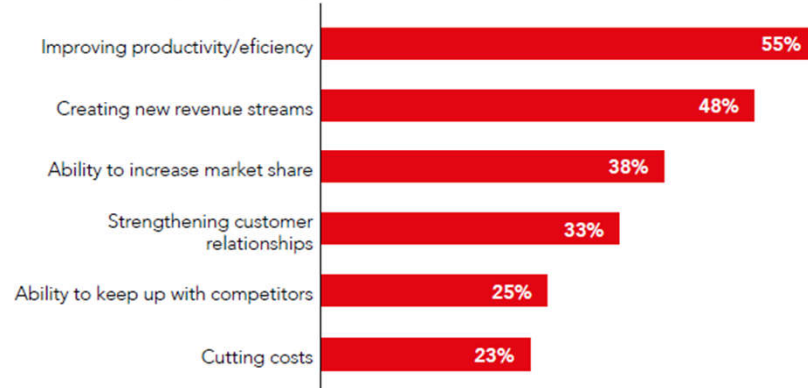


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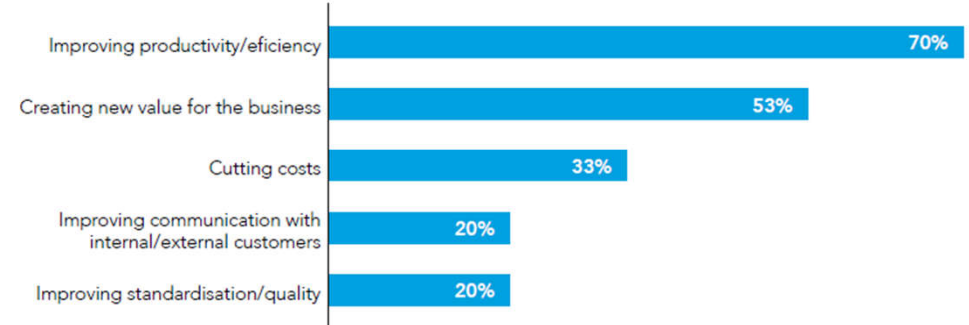
# But why should we invest in Technology?

Figure 2.1: The business case for technology investments

## ACROSS THE ENTERPRISE



## AND IN FINANCE ALONE



The ACCA logo is a red square with the letters 'ACCA' in white, bold, sans-serif font.

ACCA

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The background of the slide is a photograph of a server room. It features numerous blue network cables plugged into server racks. Some of the cables have yellow lights at their ends, creating a bokeh effect in the background. The overall lighting is a deep blue, giving the image a high-tech, digital feel.

## Technologies in play



## Cloud

high functionality, low price point  
private vs public  
services: software, platform,  
infrastructure  
storage – scalable  
business models vs standardized  
processes





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## Analytics

## Types of Analytics: evolve from 2Ds to 2Ps

### Descriptive

- What happened?
- Analytics of the past
- Allows us to learn from past behaviours and actions
- Uses statistics
- Examples: inventory levels, average \$\$ spent per customer, sales and profit trends

### Diagnostic

- Why something happened?
- In depth insights to a particular problem
- Uses BI type tools
- Examples: analyse what caused profit or revenue targets to be missed

### Predictive

- Predict what might happen
- Understanding the future
- Provides actionable insights based on data
- Provides estimates of the likelihood of a particular outcome
- Historical data and statistical models and algorithms
- Examples: forecasting consumer behaviour and purchasing patterns, credit scores

### Prescriptive

- Not only what will happen but also why it will happen
- Quantifies the effect of future decisions to advise possible outcomes
- Uses a combination of business rules, algorithms, machine learning and computational modelling procedures
- Examples: inventory management and production scheduling





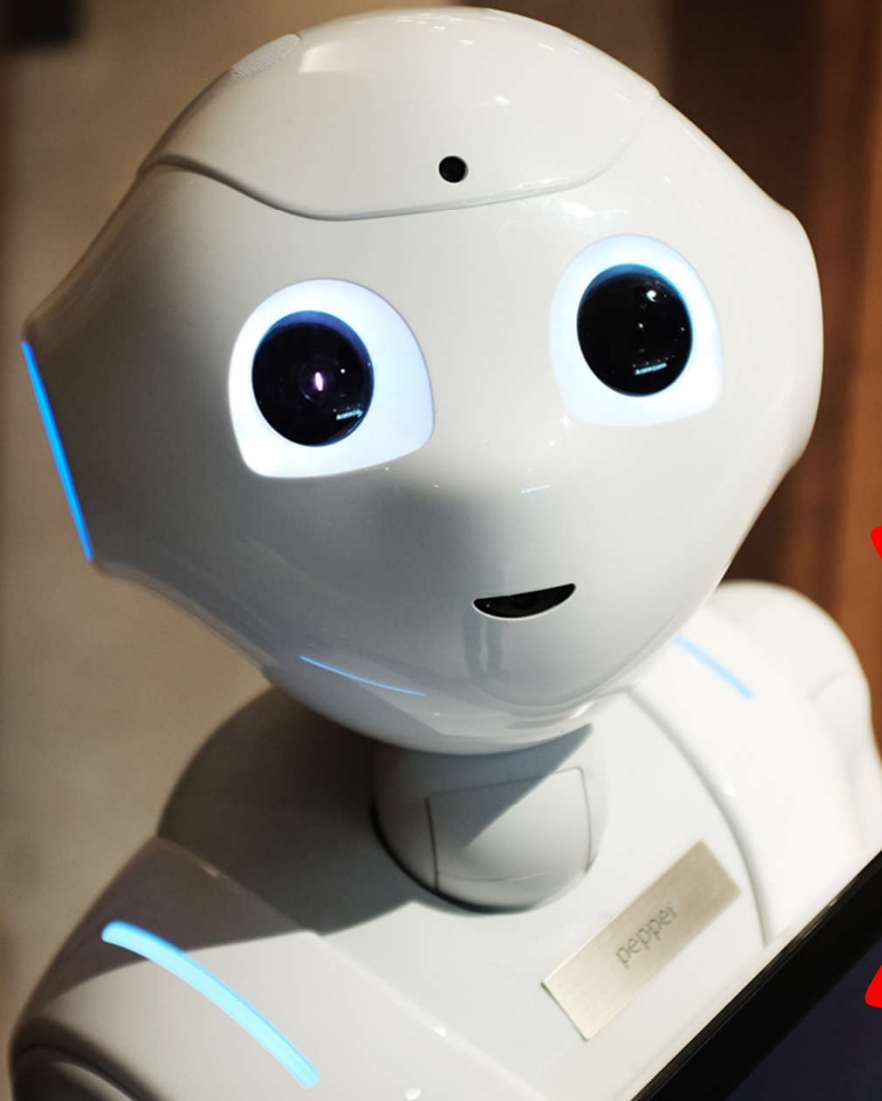
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# Robotic Process Automation





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Use of software to perform repetitive, rules-based knowledge work across an organization as a substitute for, or aide to, human workers

## RPA demo – what does it do

Click



## Benefits

- Automating time-consuming, repetitive tasks
- Greater accuracy and compliance of data
- Reduces human error
- Greater security of data and information
- More affordable for SMEs
- Simpler to implement

*Source: [theinformation-age.com](http://theinformation-age.com)*



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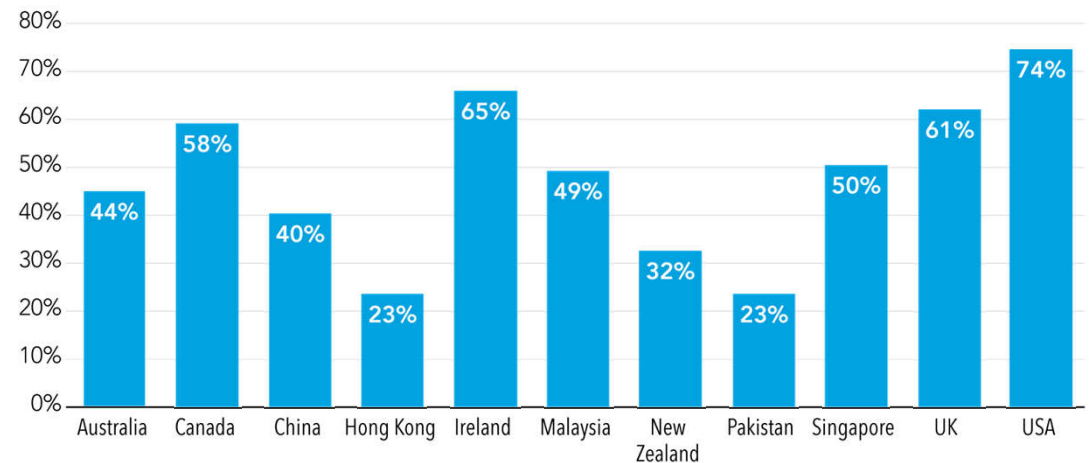


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## RPA state of adoption

- 75% of respondents in the largest organisations (>\$25billion turnover) were using it, versus only 1/3 in the smallest organisations (<\$50m)

To what extent is your organisation's finance function deploying RPA? (by country)



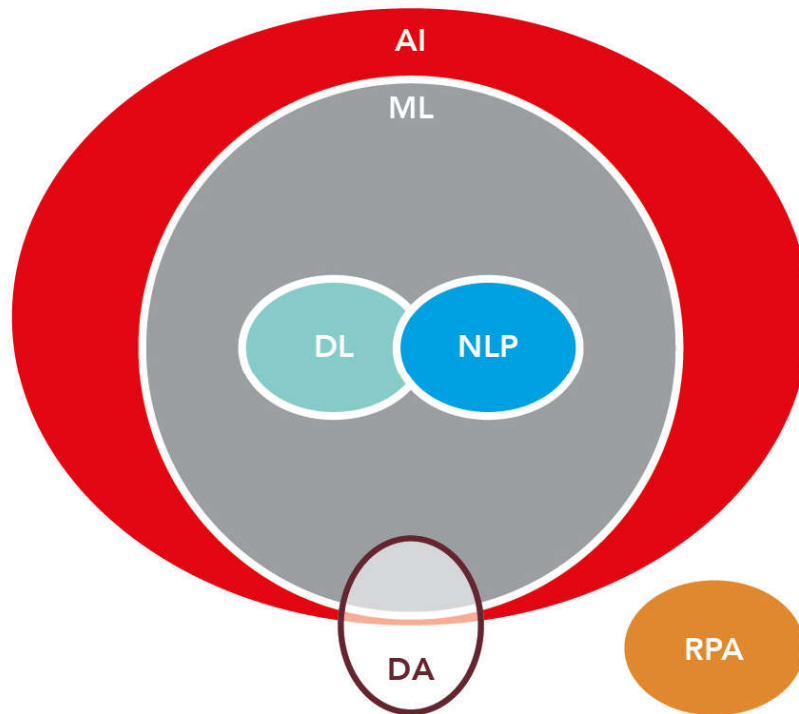


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# Artificial Intelligence



# Making sense of AI.. hype or reality?



ML: Machine learning

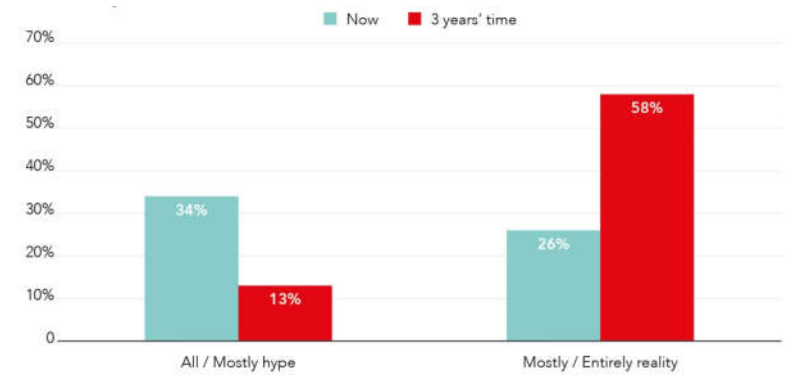
DL: Deep learning

NLP: Natural language processing

AI: Artificial intelligence

DA: Data analytics

RPA: Robotic process automation



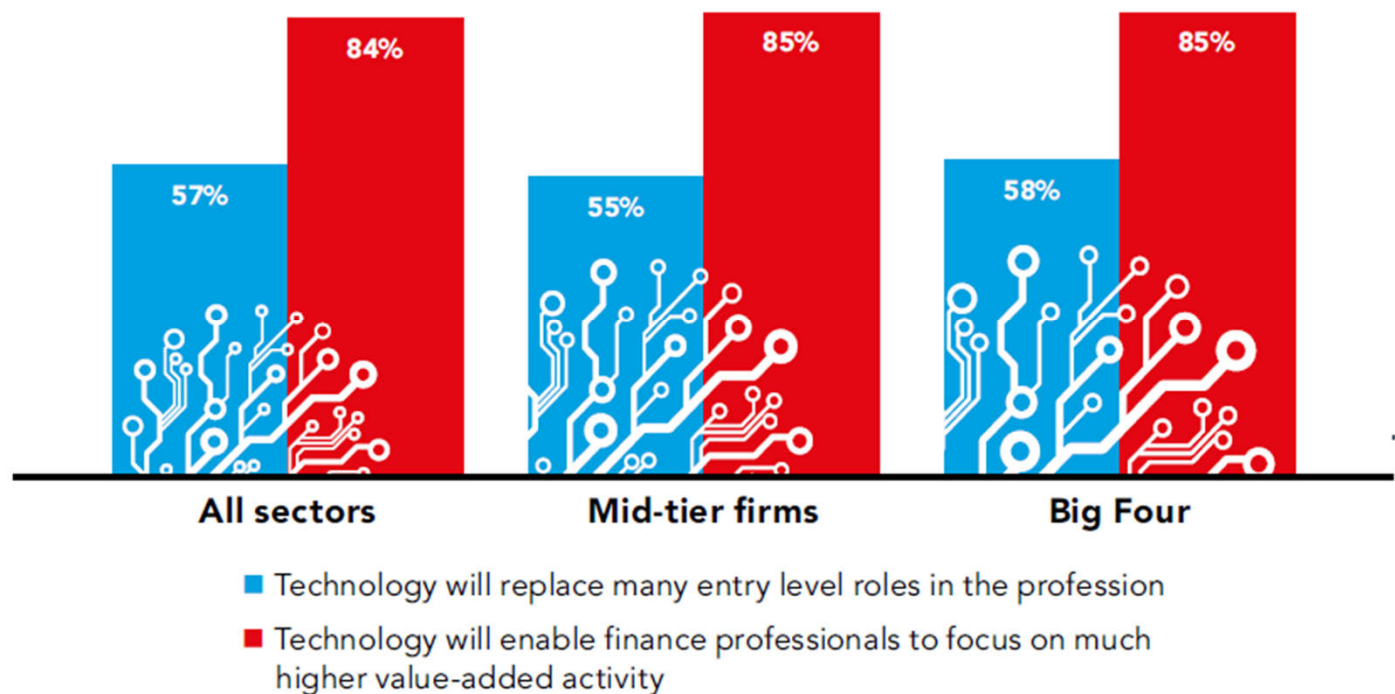
Note: remaining respondents said 'Equal hype and reality'

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# Are we at risk of technology displacing finance professionals?

How  
Generation Next  
views technology

FIGURE 2.1: The impact of technology

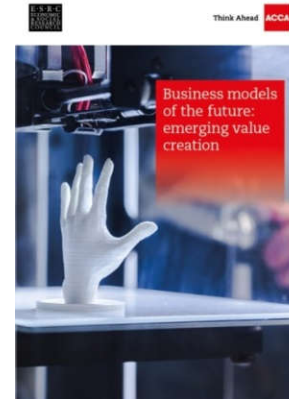


# ACCA Insights: impact of digital

Weblink:

<http://www.accaglobal.com/gb/en/professional-insights/app.html>

Download the ACCA Insights app



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Questions?

