

Strategic and Vision in Industry 4.0

CIMA-IAI, Jakarta, March 28, 2019

Reality Check!

UNITED STATES DEPARTMENT OF LABOR

65% of today's grade school kids will end up at jobs that haven't been invented yet



5 million jobs to be lost by 2020

United States Department of Labor: Futurework - Trends and Challenges for Work in the 21st Century

> "Where will you end up?"

Agenda

- Changes in the Business World
- Challenges and Role of CFOs
- Skill and Competencies
- Re-inventing Finance in Digital Worlds
- Discussions, Q&A

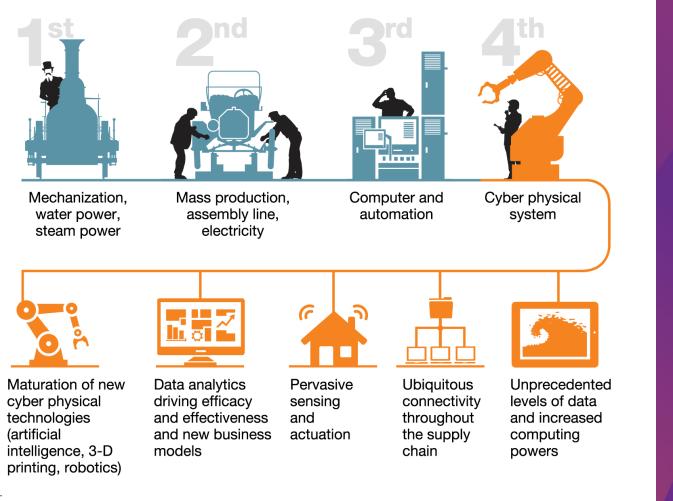
Facilitator: Arif Suseno, CA SVP – Business Finance RBWM PT Bank HSBC Indonesia



Changes in the Business World

Industrial Revolutions

In the fourth industrial revolution, digital analytics enables a new level of operational productivity.

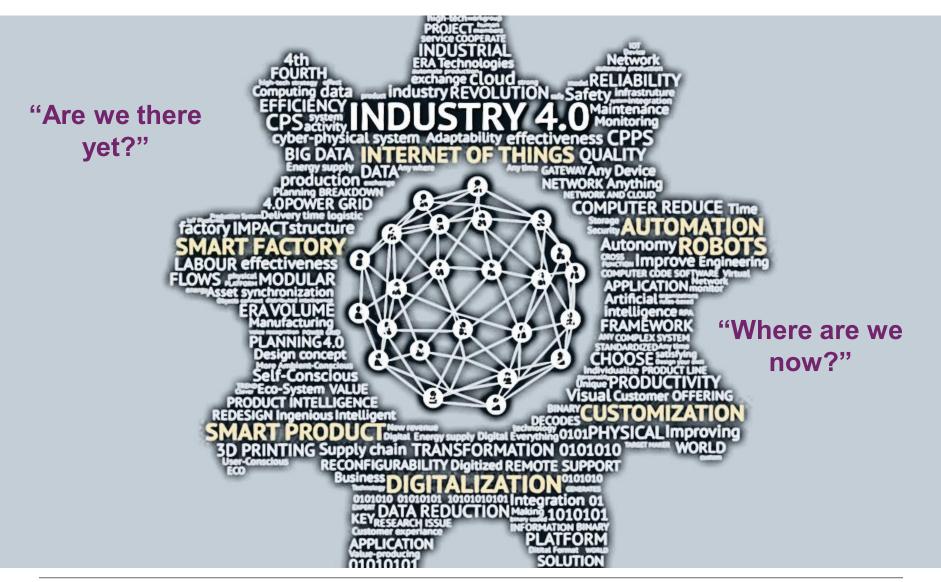


Key Indications:

- Geographic
- Time
- Quality

 Disruptions to business model

Industry 4.0



Industry Revolution

We are at the center of it!

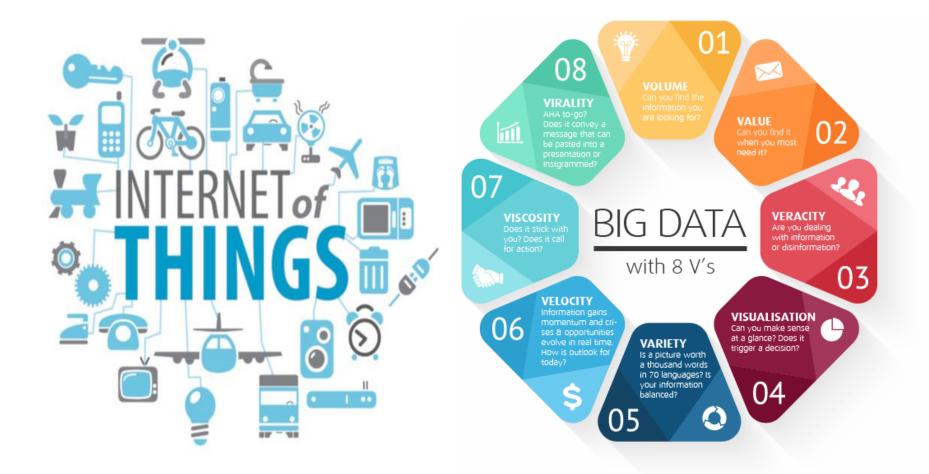
- Geographic Broadband Internet and Networking media, worldwide connectivity
- **Time** Computing powers, Straight through processes
- Quality Data Security and encryptions, Efficiency, Improved Analytics
- Disruptions Companies emerging and sunsets; Jobs creation and ceasing

Industry 4.0

- Autonomous Sensory through IOT (Internet Of Things)
- Big Data
- Artificial Intelligence, Machine Learning, Deep Learning
- Blockchains
- Robotic Automation
- Cyber Security
- Cloud Computing

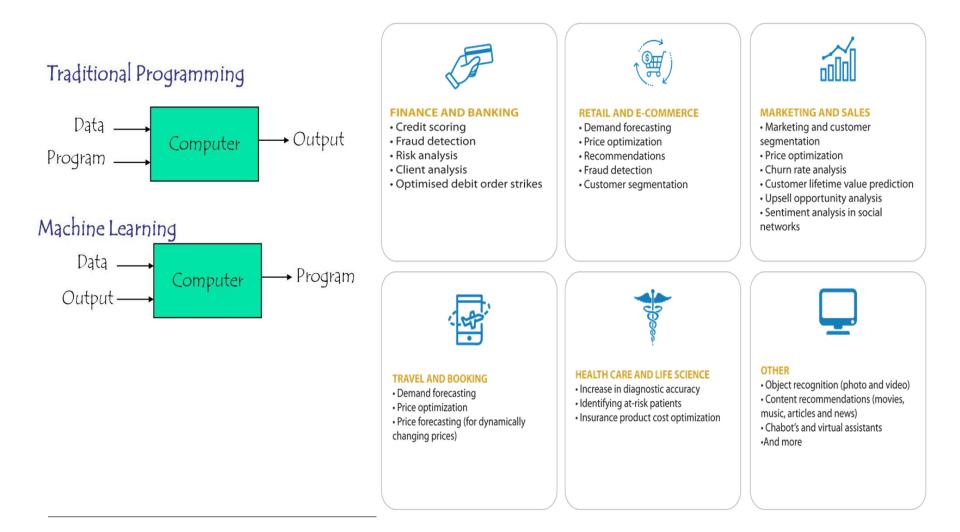


Internet of Things and Big Data



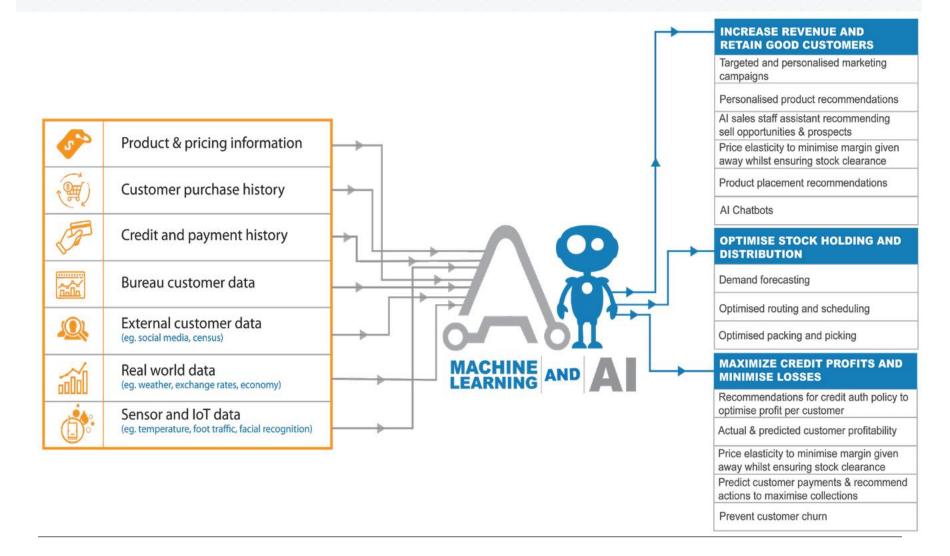
Machine Learning and Al

Common use-cases of Machine Learning by functional area

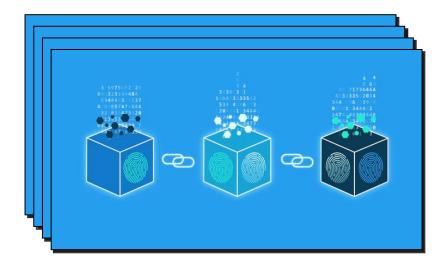


Machine Learning and Al

Any organisation which possesses large amounts of data can monetize this data to gain a competitive edge at scale.



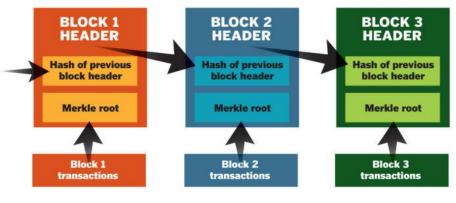
Blockchain



- Involving: Data blocks, Hashes, Chains, Decentralized (P2P networks)
- Improved data security and trust
- Remove intermediaries (i.e. validators, etc)

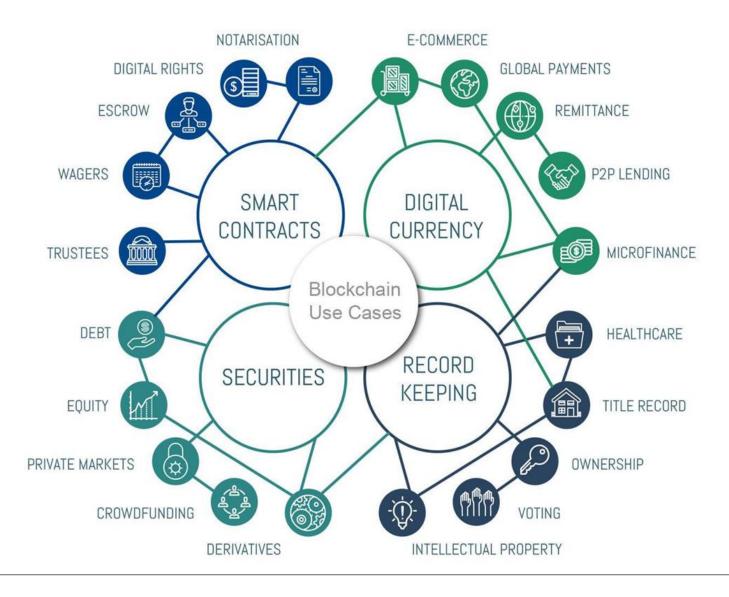


With blockchain technology, each page in a ledger of transactions forms a block. That block has an impact on the next block or page through cryptographic hashing. In other words, when a block is completed, it creates a unique secure code, which ties into the next page or block, creating a chain of blocks, or blockchain.

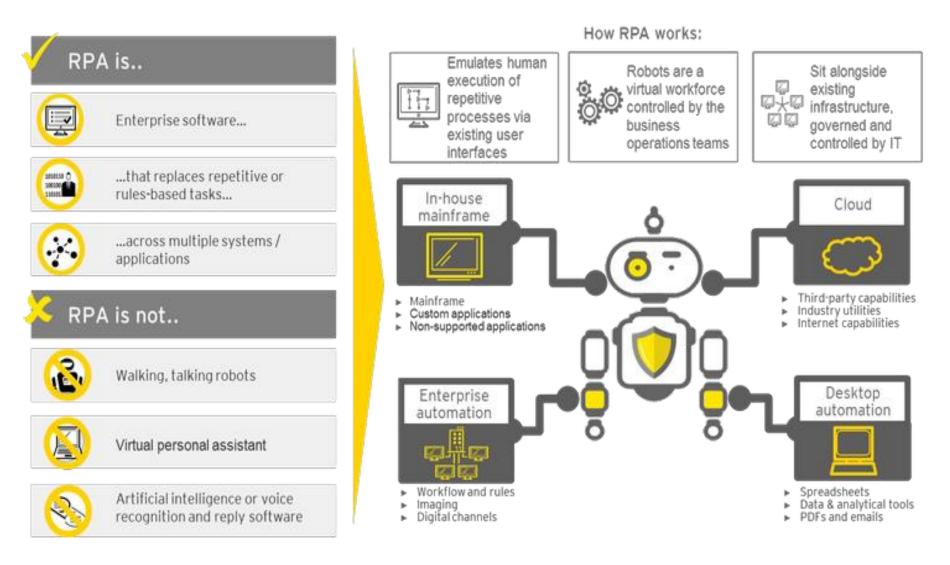




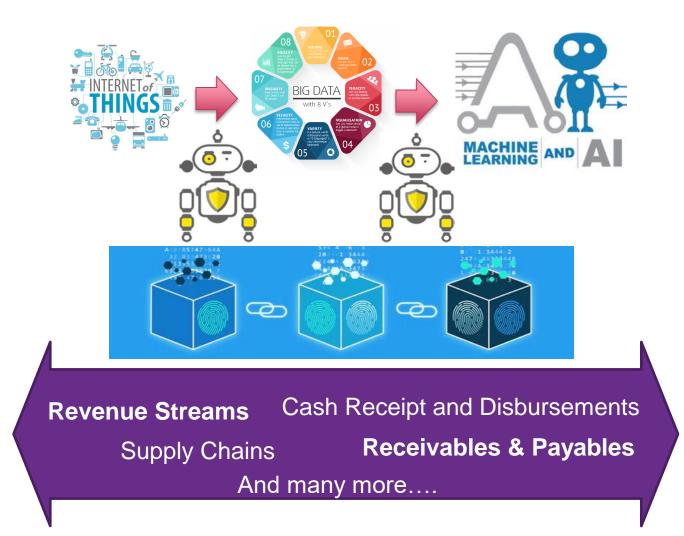
Blockchain Application Potential (not only crypto-currencies...)



Robotics Process Automation (RPA)



Industry 4.0 Changes in the Business World (Summary)



Data is Key! CyberSecurity Digital Literacy! Strategy Competitive advantage

Industry 4.0 Changes in the Business World (sample)

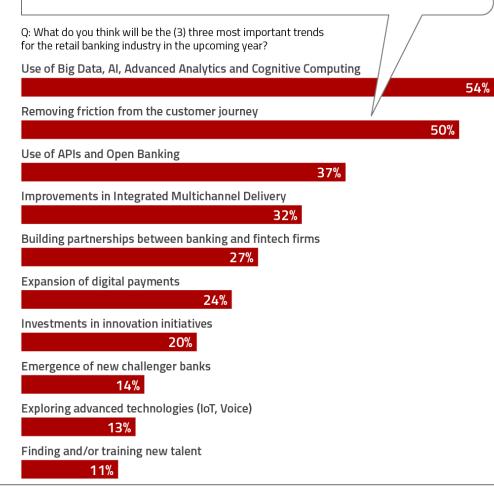


Retail Banking Trends 2018 | November 2017

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Industry 4.0 Changes in the Business World (sample)

Top ten trends for the retail banking industry in 2019



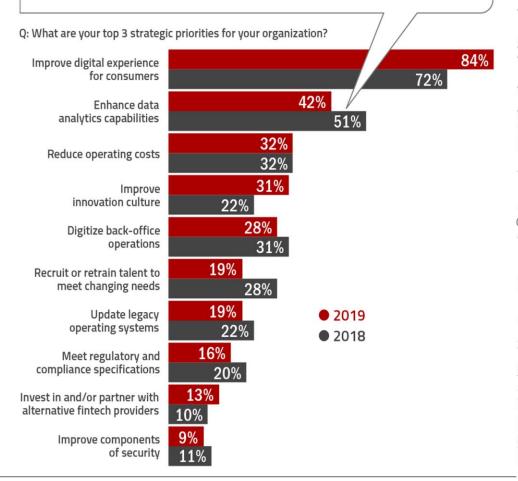
Digital Banking Report Research © December 2018 The Financial Brand SOURCE:

What are the challenges?

What should we do?

Industry 4.0 Changes in the Business World (sample)

Top strategic priorities for financial institutions comparing 2019 & 2018



SOURCE: Digital Banking Report Research © December 2018 The Financial Brand

What are the challenges?

What should we do?



Challenges in Industry 4.0

Challenges in Industry 4.0

- New business models—the definition of a new strategy
- Rethinking your organization and processes to maximize new outcomes
- Understanding your business case
- Conducting successful pilots
- Helping your organization to understand where action is needed
- Change management, something that is too often overlooked
- Examination of company culture
- The genuine interconnection of all departments
- Recruiting and developing new talent

Finance Professional Challenges

CFOs and their C-level peers agree that finance leaders should spend more time leading. But the results suggest a gap between finance chiefs' current leadership on the executive team and what others expect. "See what happens with Uber and the way it has disrupted [the taxi/transport] sector. What if someone does this [type of disruption] to the finance industry?"

Although some transformations include radical changes, most create significant improvements on the margin of existing operations. "It is no longer about the financial statements but the value. A CFO has to make decisions to help other areas of the business to create value. Certain people need support and business partnering on how to create value out of the numbers that they see."

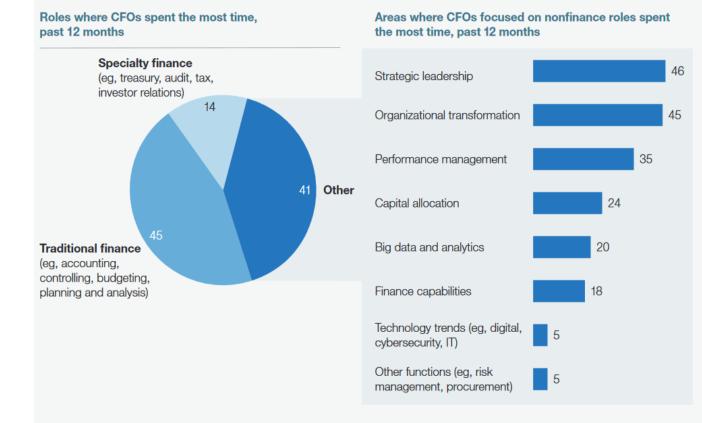
"We are being challenged to stay relevant."

Working together, CFOs and CSOs have the stature to challenge biases and influence how the top team makes decisions to improve a company's performance.

Role of CFO

Last year, four in ten CFOs spent most of their time on strategy, transformations, or another nonfinance area.

% of CFOs1



COLLABORATION

with non Finance professionals is key for CFOs and Finance professionals

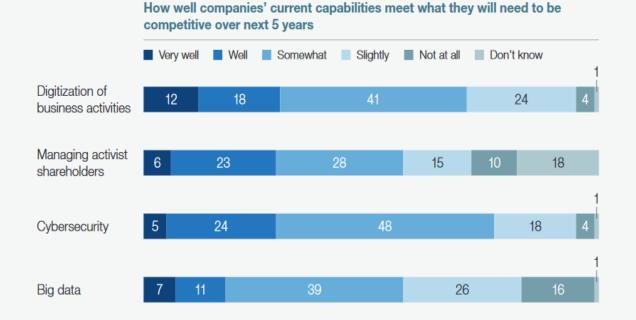
 1 In the first question, n = 193, and in the second question, n = 77. The second question was asked only of CFOs who say they spent the most time on other (nonfinance) roles in the past 12 months.

Strategy and Corporate Finance Practice - April 2017 - McKinsey & Company

Role of CFO

For newer activities and trends, such as digitization, few CFOs say their companies are prepared to be competitive.

% of CFOs, n = 193



How do we prepare better?

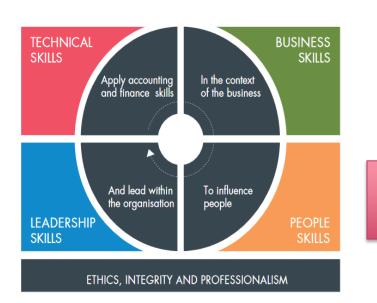
7 Key Questions a Strategic Thinking CFO Should Consider

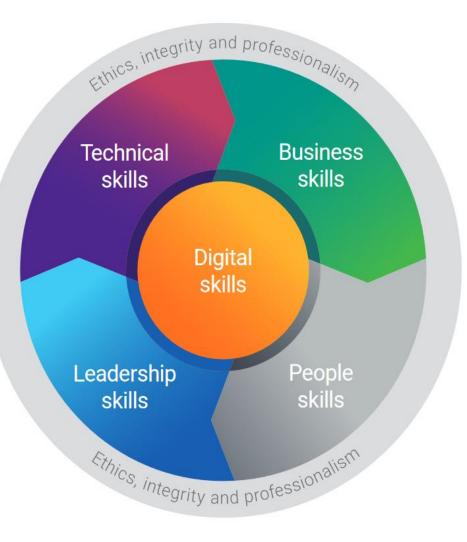
- 1. What's the company's plan for growth?
- 2. What are the challenges to your company's growth plan and how might you overcome them?
- 3. What uncertainty is your company facing and how can you help negotiate it?
- 4. Where does your company spend the most without proven ROI?
- 5. Are your company's growth goals big enough?
- 6. What could halt your company's goals and what could help nullify it?
- 7. What should your company consider stopping



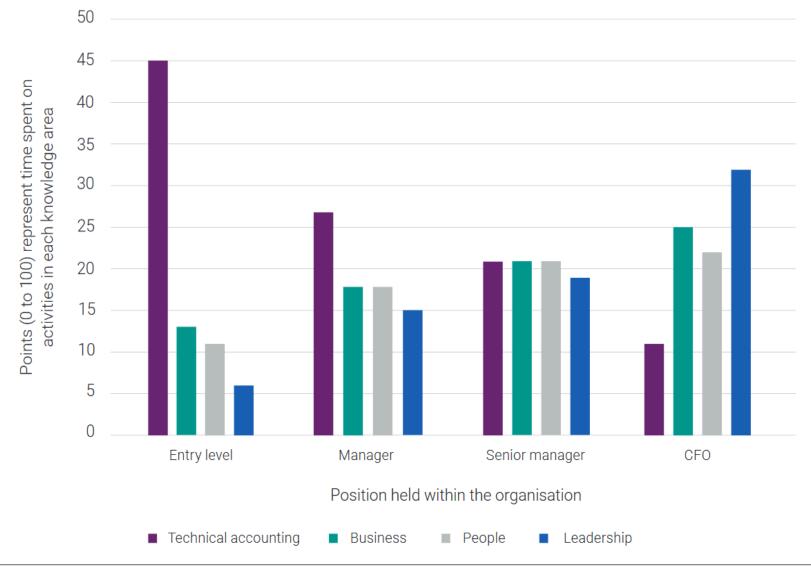
Competency and Skills

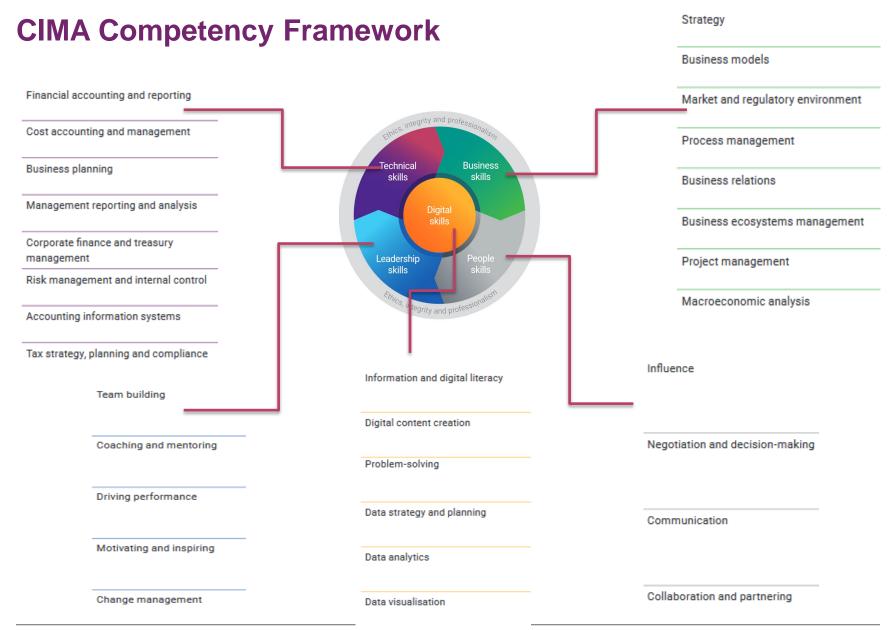
CIMA Competency Framework





CIMA Competency Framework





Source : CIMA competency frameworks

The Three Important Business Pillars

The three pillars represent specific areas of knowledge. The three pillars are interlinked to provide a coherent body of knowledge that will equip you with the competencies a financial leader require.

- The enterprise pillar deals with the formulation of strategy and its effective implementation.
- The performance pillar uses the tools and techniques of management accounting and risk management to ensure that strategy is realistic and to monitor its implementation.
- The financial pillar focuses on the financial accounting and reporting obligations of the organisation.

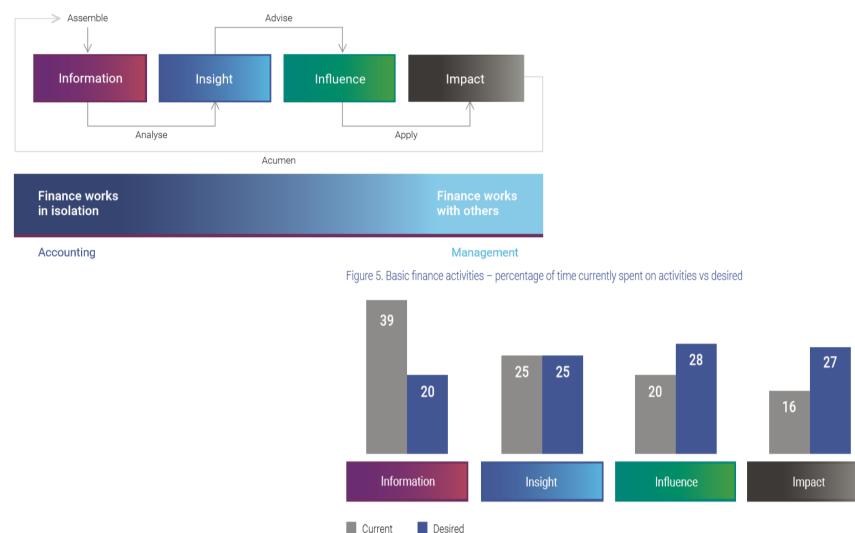




Future of Finance Re-inventing Finance for a Digital World

Finance Activities

Figure 4. Basic finance activities - from information to impact



Finance Activities and Modernization

Information
Insight
Influence
Impact

Entry Level
Impact
Impact
Impact

Accountants/Analysts
Impact
Impact
Impact

Business Partners
Impact
Impact
Impact

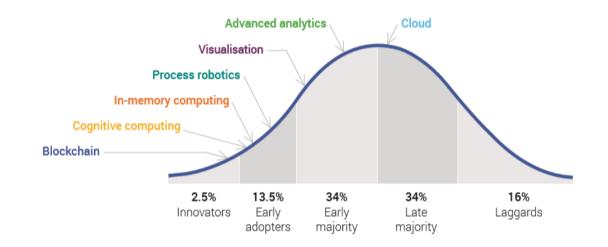
Managers
Impact
Impact
Impact

Finance Controllers
Impact
Impact
Impact

C-Suite
Impact
Impact
Impact

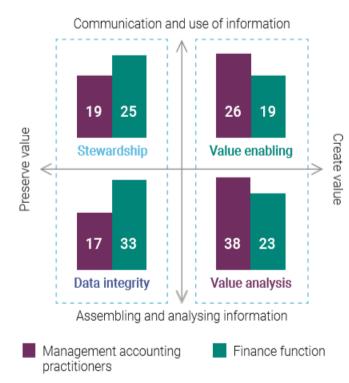
Figure 6. Basic finance activities – time currently spent on activities vs desired, by finance function role

Figure 9. Finance function adoption curve of core modernisation and exponential tools



Finance Value Matrix

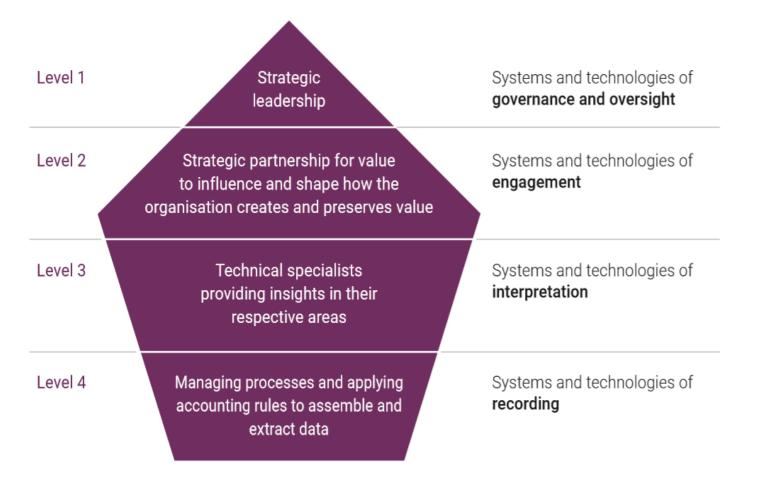
Figure 8. The finance function value matrix – by management accounting practitioner and finance team focus (percentage)



- as a trusted source of the management information, provides data integrity
- as a commercial **analyst**, providing insights into the drivers of organisational value
- as the subject matter expert and steward, contributes to strategic decision-making, including defining objectives with regard to developing the business model
- through partnering, uses insights to address performance issues and enables solutions to create value.

Re-inventing Finance for a Digital World

The shape of the finance function in the digital world



Re-inventing Finance for a Digital World

Attribute	Data extraction (Level 4)	Insight generation (Level 3)	Value partnering (Level 2)	Finance leadership (Level 1)
Type of system	Recording	Interpretation (or sense-making)	Engagement (or interaction)	Governance and oversight
Outcome	Hindsight	Insight	Foresight	Oversight
Gartner model	Descriptive	Diagnostic	Diagnostic; predictive; prescriptive	Predictive; prescriptive and cognitive
Technology	OCR; RPA; early stages of BI system	Al; NLP; middle stages of BI system	AI; visualisation; final stages of BI system	AI; prediction tools; all stages of BI system
Role of accounting	Gathering information for narrating; and narrating how organisation creates and preserves value	Narrating in greater detail; beginning to shape how organisations create and preserve value	Shaping how value is created (through interaction); enabling how value is created	Enabling value creation by ensuring oversight, governance, and by allocation and provision of resources
Focus	Quality and integrity of data; training machines to do a better job; efficiency	Compliance (interpreting rules); quality of analysis; telling machines what to do; effectiveness	Quality of decision- making; judgement; trade-offs and learning	Quality of strategic decision-making; risk management; capital and resource optimisation
Main competencies	Technical accounting	Technical accounting; business skills	Business skills; people skills	Business skills; people skills and leadership skills
CIMA Professional Qualification/CGMA	Operational level	Management level	Strategic Level CPD/CPE	CPD/CPE

Do you know where you are?

Where do you want to be?

OCR – Optical Character Recognition, RPA – Robotic Process Automation, NLP – Natural Language Processing, BI – Business Intelligence, AI – Artificial Intelligence, CPD – Continuing Professional Development, CPE – Continuing Professional Education

Discussions, Q & A

Three Important Business Pillars for a Finance Leader

Thank you