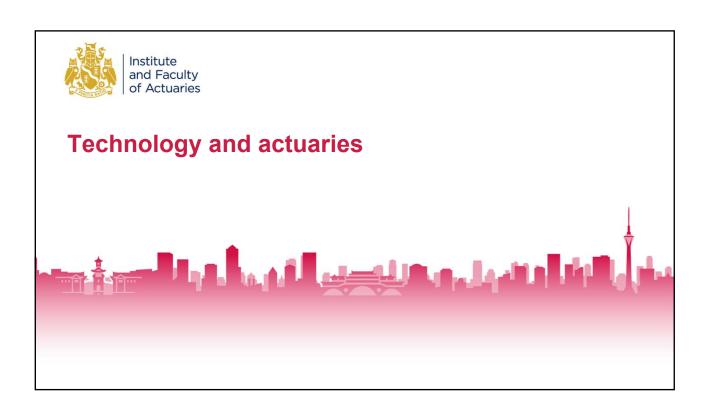




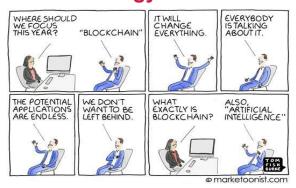
Agenda

- Technology and actuaries
- Robotic Process Automation Introduction
- · RPA in the actuarial world
- Q&A





"ActTech" = Technology useful for Actuaries



"Don't be a know-it-all – be a learn-it-all"

The culture Microsoft CEO Satya Nadella tries to foster

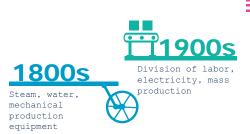


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Technology is at another major inflection point

The 2016 World Economic Forum in Davos referred to this as the Fourth Industrial Revolution, but the rapid adoption of digital technologies and digital business models are enabling a period of a rapid technological change that is transforming every aspect of our lives with a huge impact on the future of work and employment.





The Information
Age - Electronics,
IT, Mass
Communication,

Intelligent
Automation, AI,
nanotech, biotech,
cyber-physical
systems, digital
labor

The "4th industrial revolution" (cyber-physical systems) is beginning and its impact is profound
- World Economic Forum founder, Klaus Schwab





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Technology allows actuaries to focus on adding value

- · Automation frees up time and resources, especially during key periods (e.g. reporting deadlines)
- · Allows actuaries to focus on insight generation and value adding analysis



Four defining roles of a high performing Chief Actuary...



ActTech helps actuarial teams become high performing









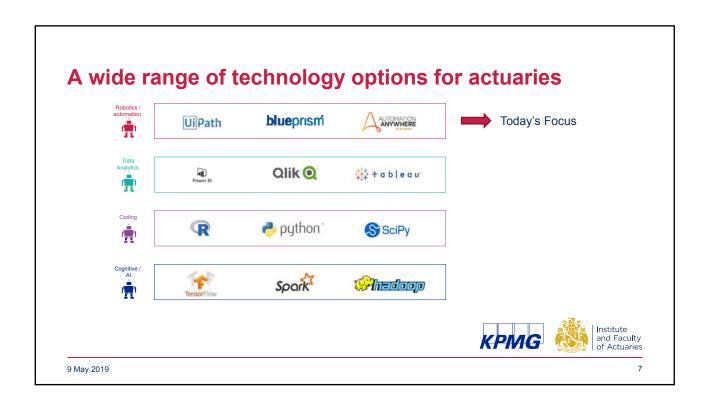
The Operationalist

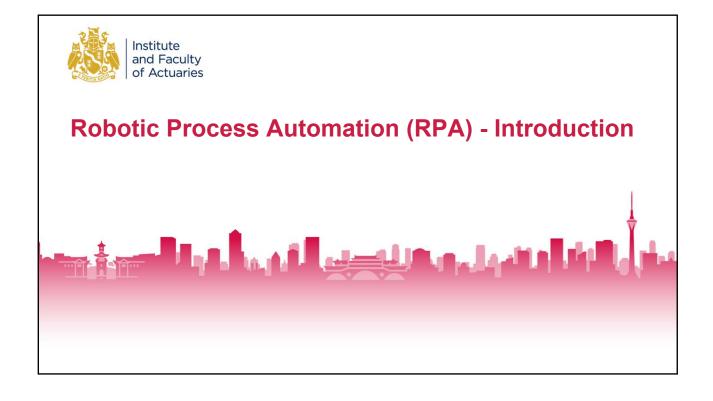


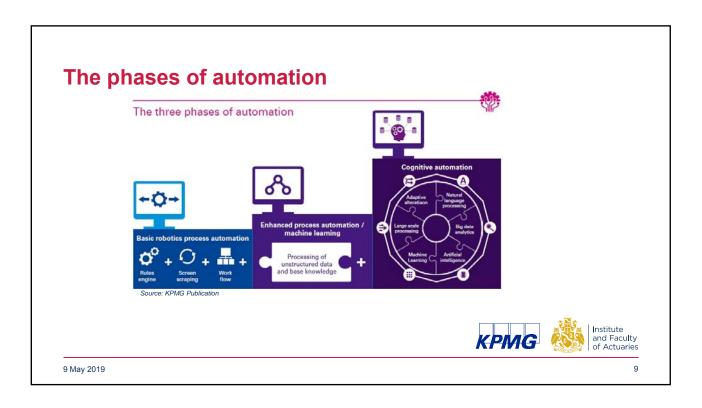




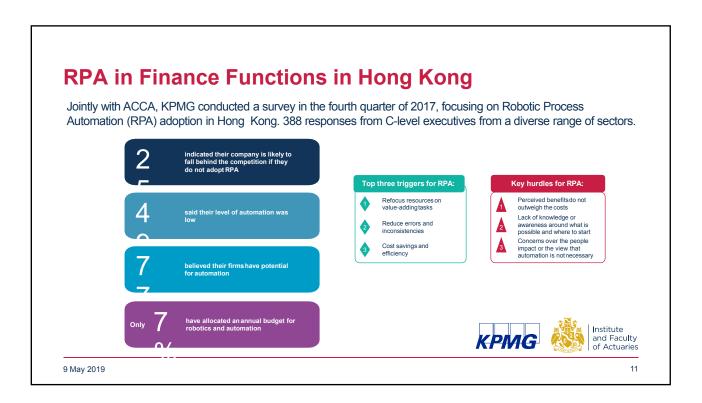
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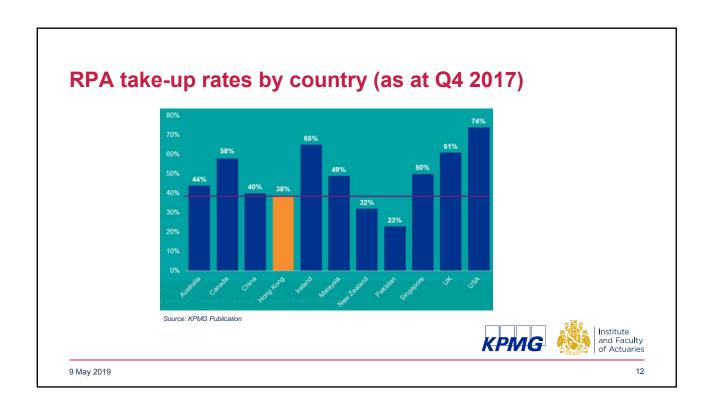












The 1-2-3 of intelligent automation



"Size the Prize" – Evaluate processes and prioritize based on their feasibility for automation. Estimate the benefit potential and arrive at the business case.



Execute a Proof-of-Concept – Evaluate the capability of the technology and validate performance based on pre defined success criteria.



Define a roadmap – Outline steps to stand up the intelligent automation capability and operationalize to scale across the enterprise

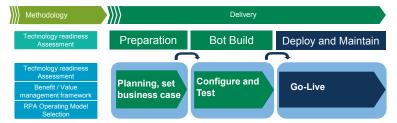




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Approach to implementation of RPA









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Applicability of RPA

RPA can be applied to many facets of an actuaries' work.

RPA results in major savings on time and effort

- · Any process where significant time is spent on data extraction and preparation can benefit heavily.
- · Reserving, solvency calculations, regulatory submissions

RPA allows actuaries to do more analysis

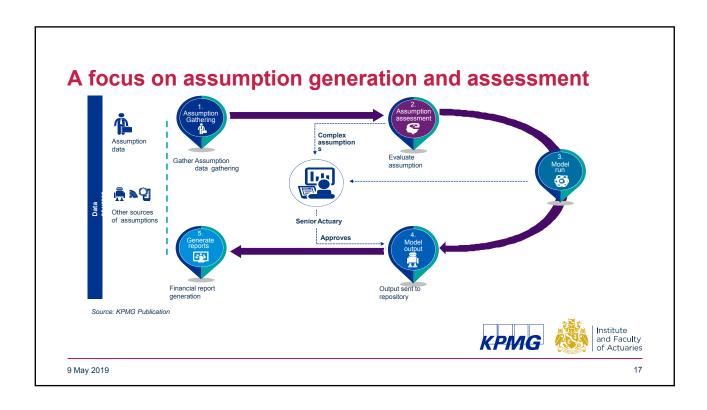
- Repeating processes such as model runs can be automated to allow more iterations
- · Stress and scenario testing, reserving, risk monitoring

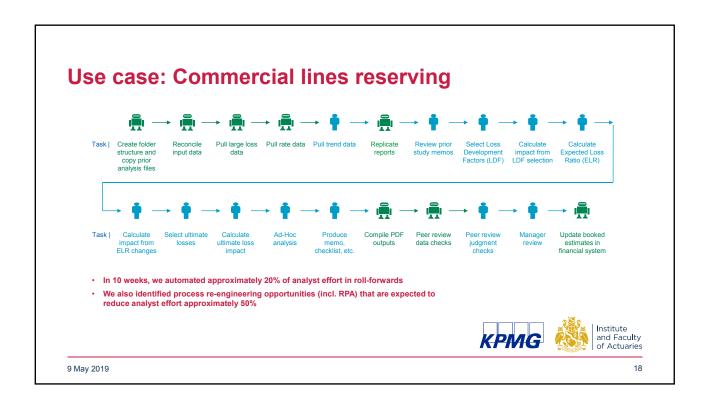
Where RPA is best applied depends on your own needs, pain points, and processes.



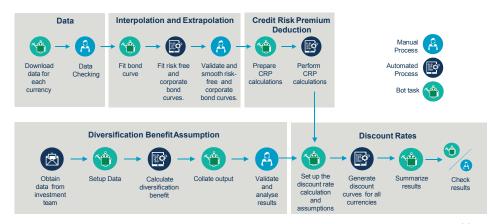
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Use case: discount rate curve generation





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Use case: regional reporting consolidation

Existing State

- Monthly P&L statements are prepared by individual business units and sent to regional for consolidation
- Certain processes (e.g. extracting exchange rate from central system) are performed in the same way by each BU
- Regional must wait for all BU to submit before consolidating

Target State

- Monthly P&L statements are prepared centrally by RPA, and managed by regional office.
- Repeat processes are performed only once, eliminating the risk of inconsistencies

Benefits

- Reporting process is sped up and would not be held up due to delays from an individual BU
- All data extraction is centralized which eliminates the risk of inconsistencies between separate BUs
- Frees up time both in regional team and local BU during reporting period





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