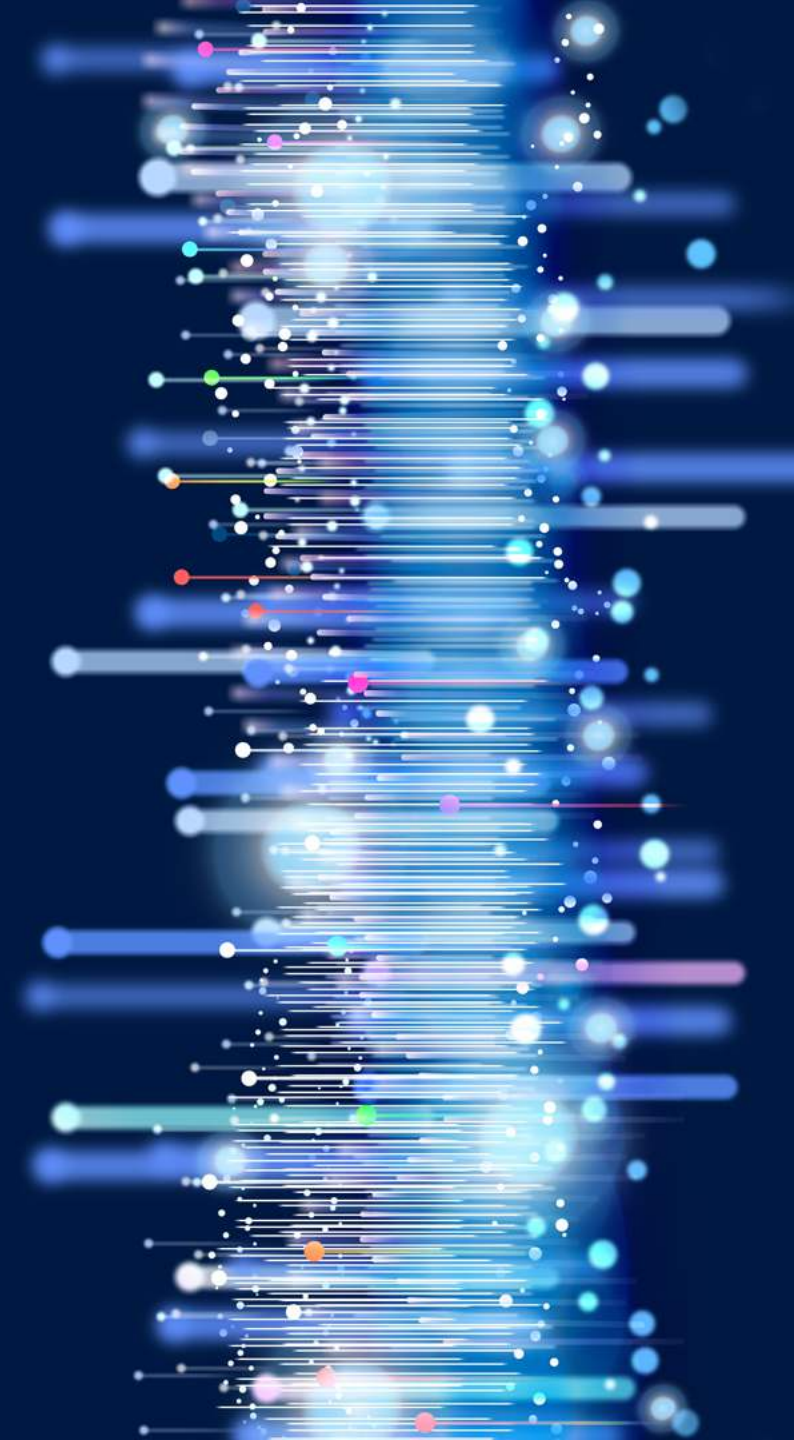


Do we finally experience the breakthrough of Continuous Auditing and Continuous Monitoring?

ISACA SQUARE TABLE
16 DECEMBER 2020



With you



Elinesofie Dolhain
Manager KPMG



Koen Klein Tank
Director KPMG

Contents

- 01 History and future of auditing**
The shift to a more digitized Audit
- 02 Continuous Auditing / Continuous Monitoring**
The what and why
- 03 Applicability and practical implications**
The how including a brief demo
- 04 Moving to Continuous Auditing**
In practice: CA at the largest food company in the world
- 05 Why now?!**
Why we will experience a breakthrough

01

History and future of auditing

The shift to a more digitized Audit

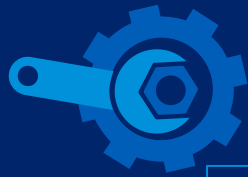
History





1600s

VOC first formally listed public company. Need for Auditors



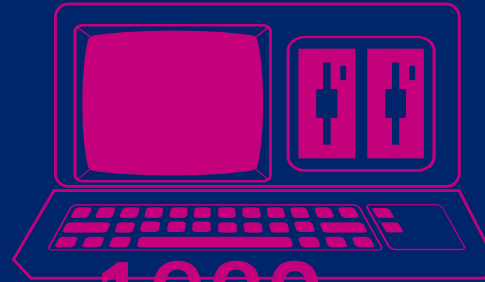
1800s

Mechanization: Steam, water, mechanical production equipment

1900s



Mass production: Division of labor, electricity,



1960s

The Information Age: Electronics, IT, Mass Communication, Internet



Today

Artificial Intelligence, Intelligent Automation, nanotech, biotech, cyber-physical systems, digital labor



ISACA founded in 1969



Biggest change in Audit profession

The audit profession at risk?

[Accounting is at the top of a list of professions expected to fall victim to digital disruption, along with insurance, personal assistants, real estate agents and sales assistants](#)

AUSTRALIAN FINANCIAL REVIEW (AU) | MAY 4, 2015

ACCA Think Ahead

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BIG DATA AUDITING DYNAMITE

Big data is transforming the way audits are conducted, but also posing a major challenge to existing standards and training as well as systems and processes



Nieuws — 03 juli 2015

'Data-analyse gaat accountancy veranderen'

Accountants and auditors

What doesn't kill auditors makes them stronger

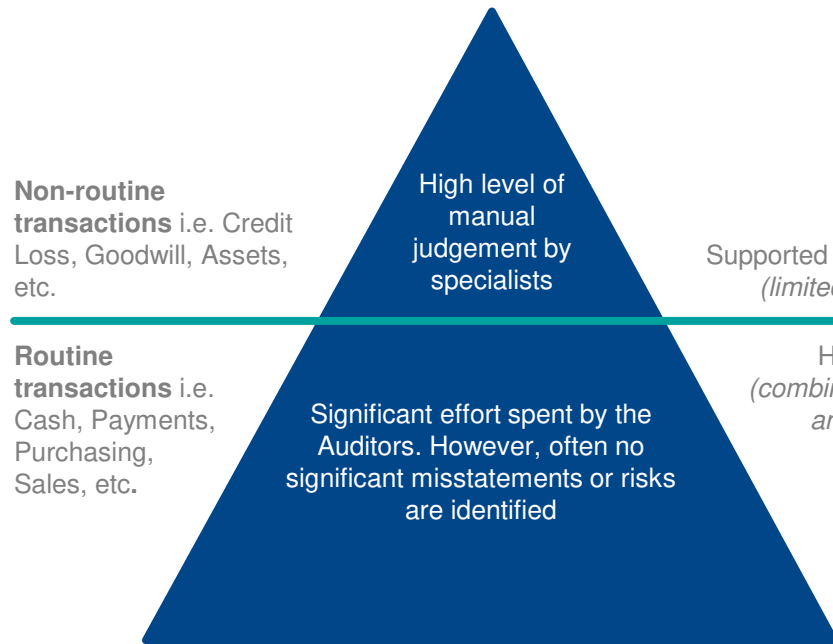
Bring on the personal trainers

Probability that computerisation will lead to job losses within the next two decades, 2013 (1=certain)

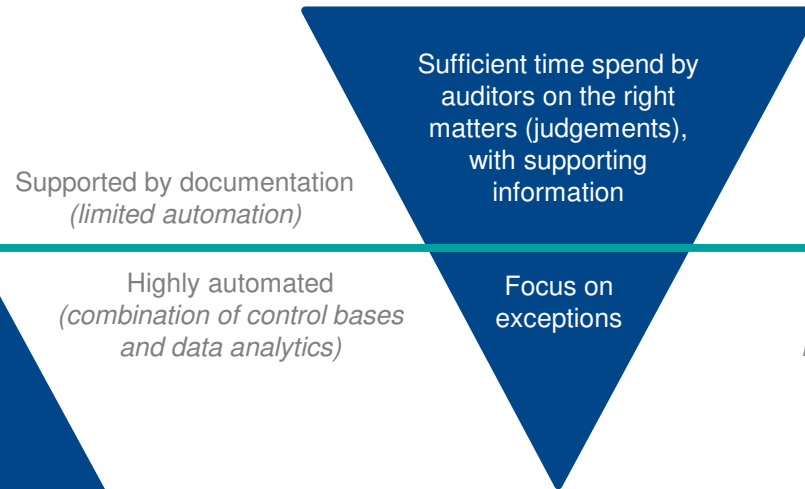
Job	Probability
Recreational therapists	0.003
Dentists	0.004
Athletic trainers	0.007
Clergy	0.008
Chemical engineers	0.02
Editors	0.06
Firefighters	0.17
Actors	0.37
Health technologists	0.40
Economists	0.43
Commercial pilots	0.55
Machinists	0.65
Word processors and typists	0.81
Real estate sales agents	0.86
Technical writers	0.89
Marketing research	0.92
Accountants and auditors	0.94
Real estate agents	0.94
Personal trainers	0.99

Source: "The Future of Employment: How Susceptible are Jobs to Computerisation?" by C.Frey and M.Osborne (2013)

TRADITIONAL AUDIT

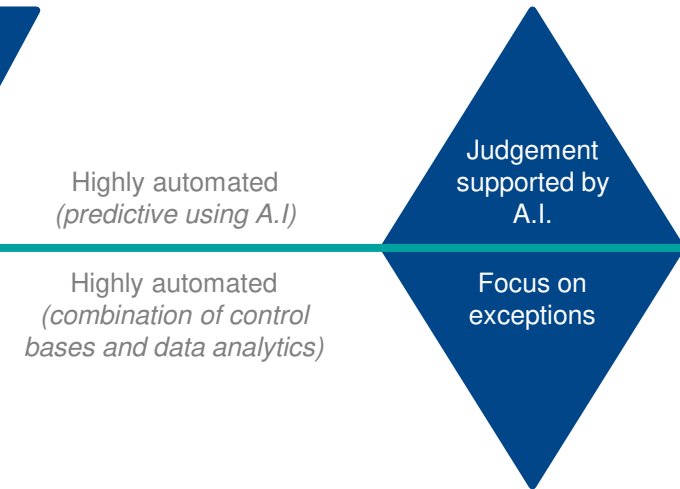


ROUTINE-ENABLED DIGITALIZED

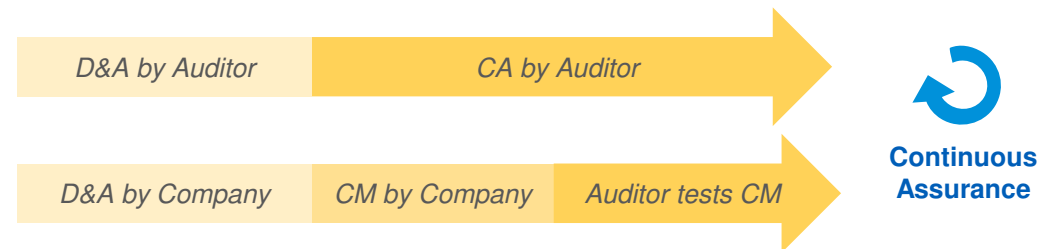


FULLY DIGITALIZED

(can be continuous and on more than financial statement audits)



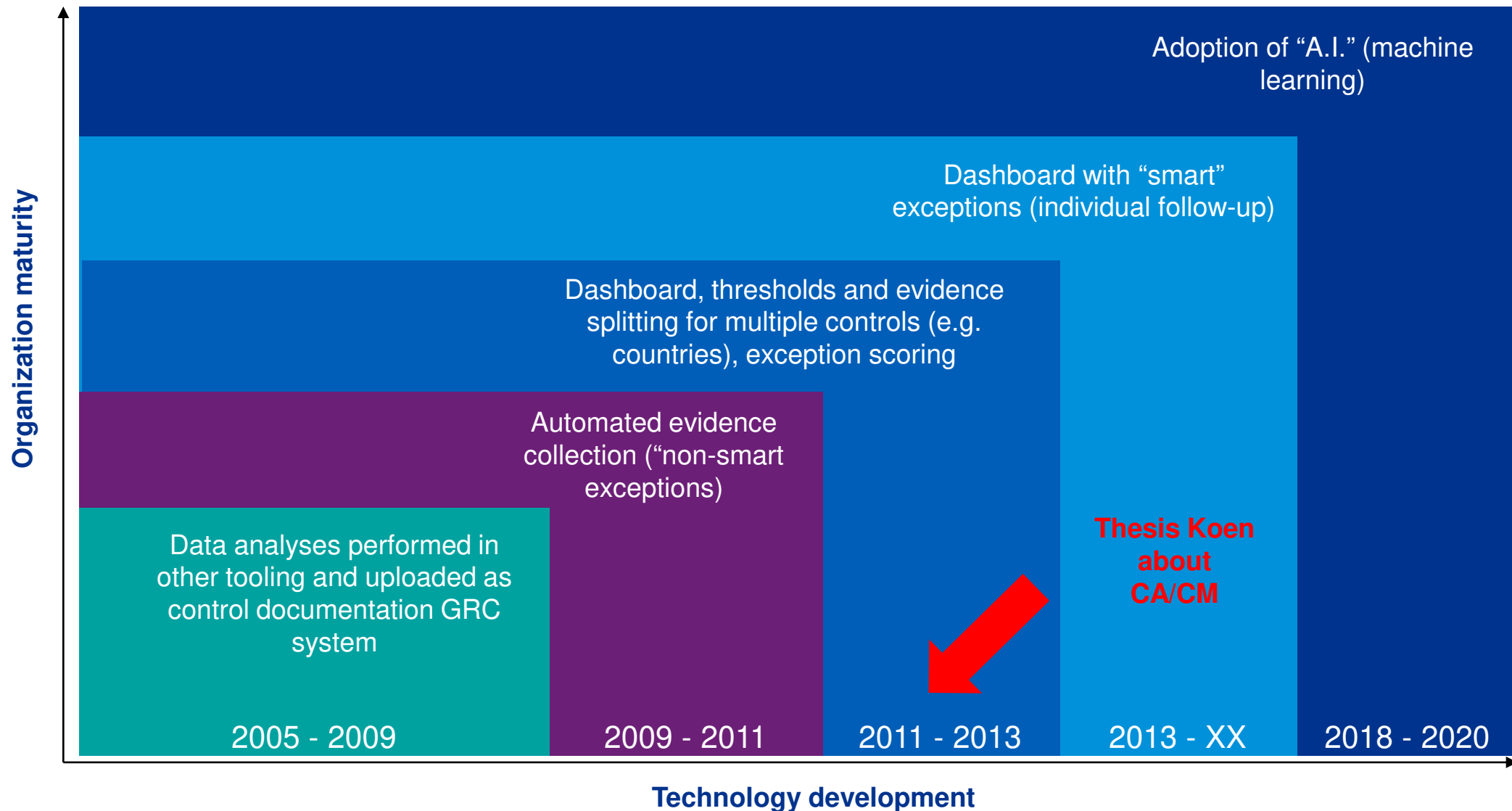
Two options for Growth Path to Continuous Assurance:



02

Continuous Auditing and Continuous Monitoring

The What and Why



Continuous Assurance

Continuous assurance is a combination of continuous auditing and testing of first and second lines of defense continuous monitoring.

Continuous Monitoring

An automated feedback mechanism used by management to help ensure that systems and controls operate as designed and transactions are processed as prescribed

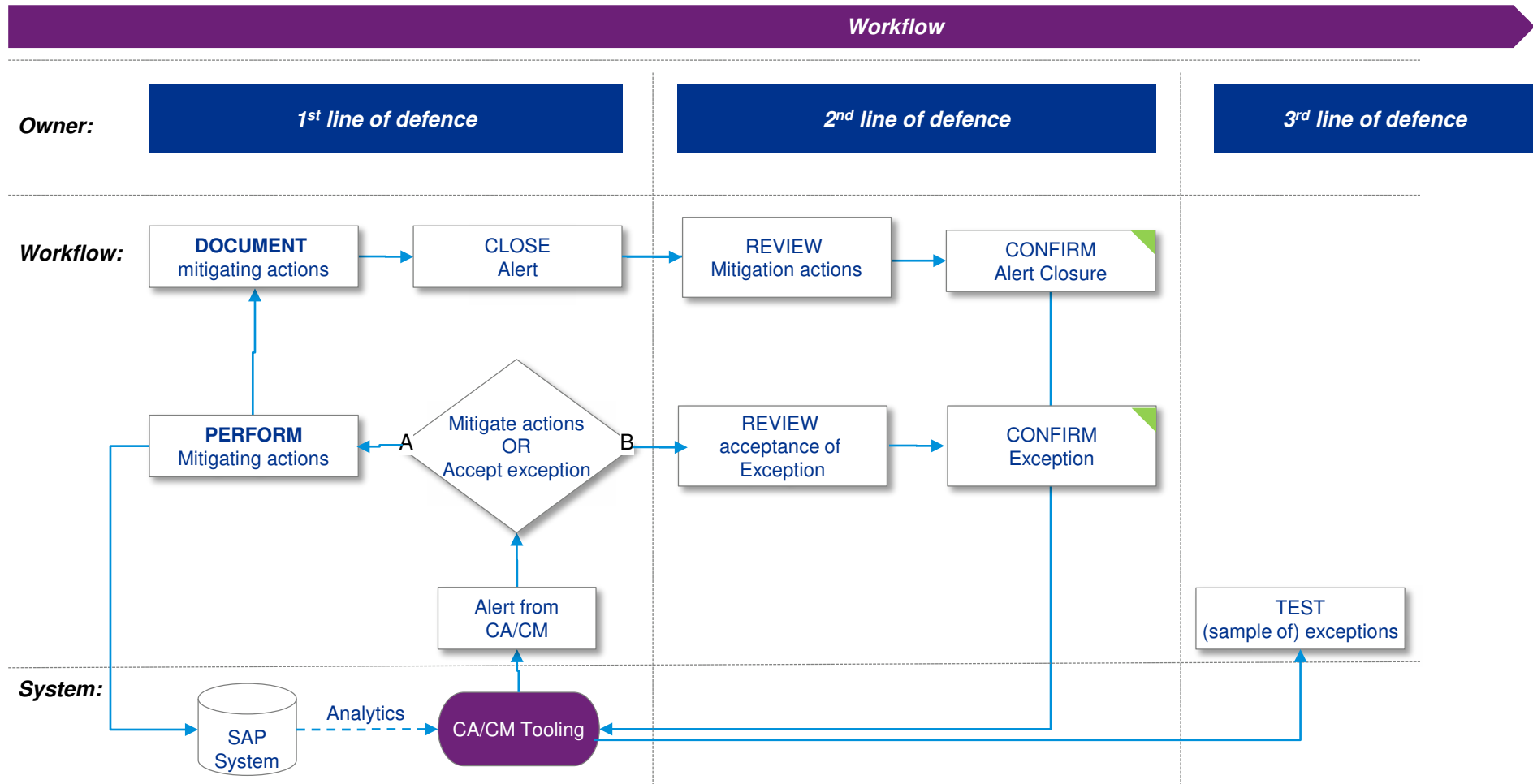
Continuous Auditing

consists of the automated collection of audit evidence and indicators by an internal or external auditor from an entity's IT systems, processes, transactions, and controls on a frequent or continuous basis.

1st line of
defence

2nd line of
defence

3rd line of defence





KPMG Vote

What do you see as the barriers of Continuous Auditing / Continuous Monitoring?

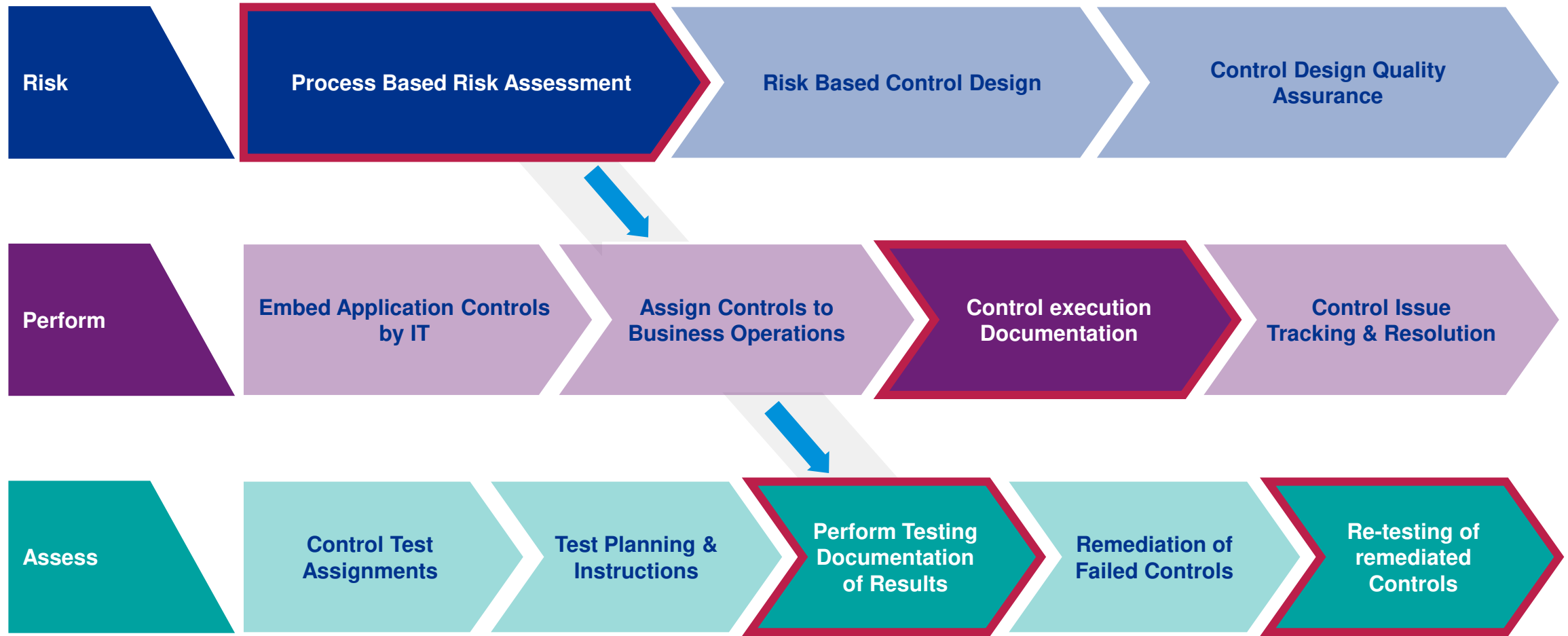


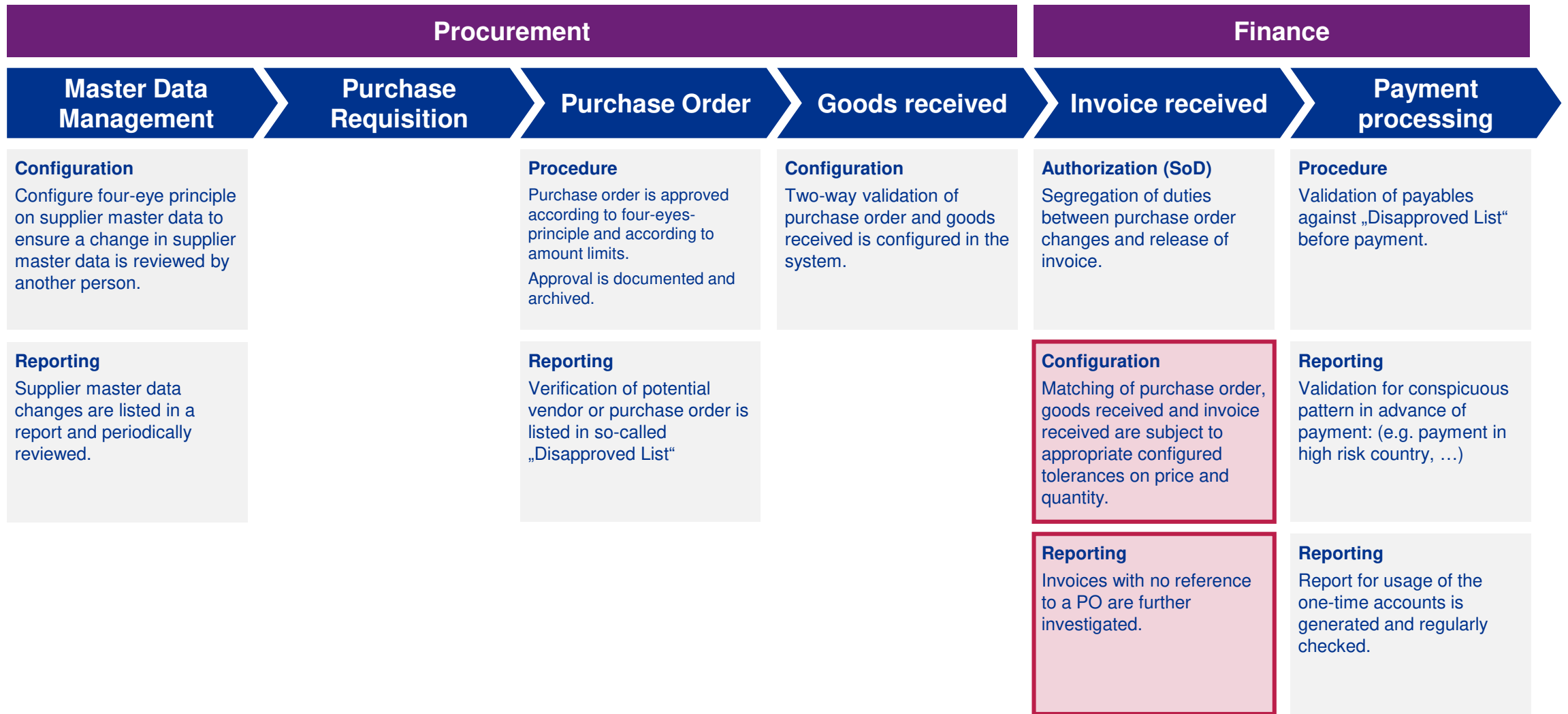
03

Applicability and practical implications

The How

Where can CA/CM be applied?





Good Evening Elinesofie Dolhain

Reporting



Execution



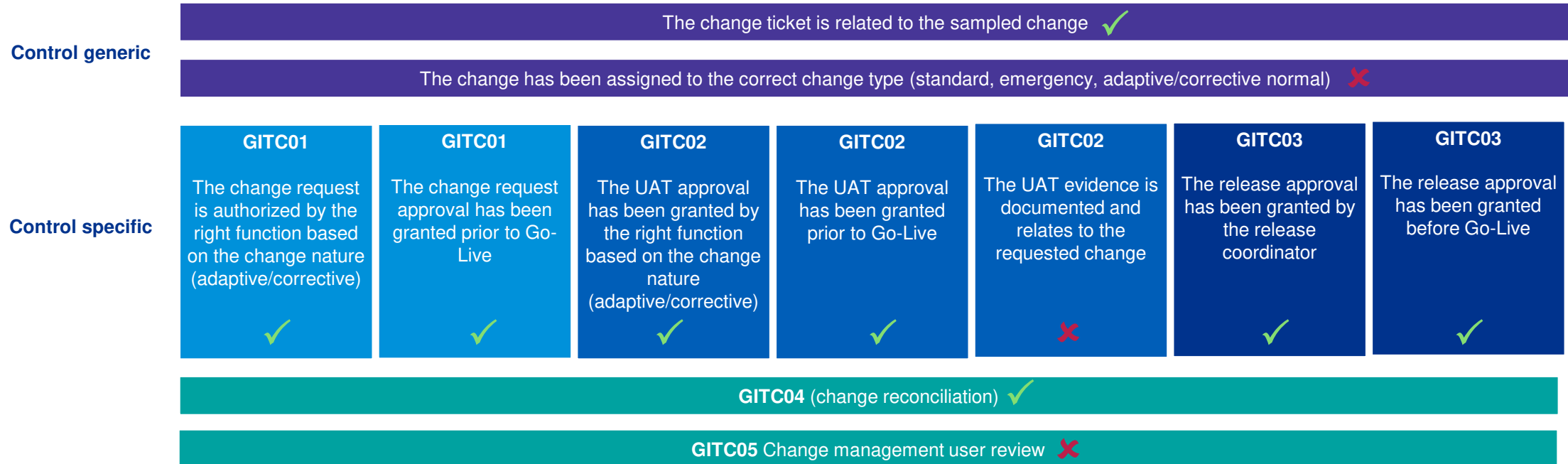
Libraries



PLATFORM NOTIFICATIONS

	Terms & conditions	02/12/2020 11:35:52
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Automation of Change Management Controls



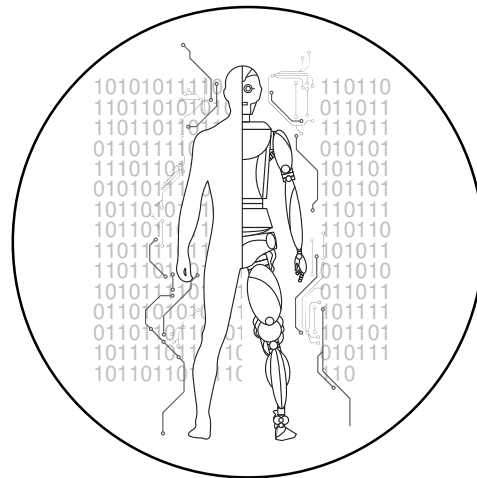
✓ Automation is possible. Disclaimer: the level of automation is highly dependent on (appropriate) usage of the ticket system (e.g. approvals are giving as part of approval workflows and not uploaded as evidence such as approval e-mails)

Other IT / Cyber Examples

Continuous Vulnerability Management



Administrator Privileges



Controlled Access Based on the Need to Know



Secure Configuration for Network Devices, such as Firewalls, Routers, and Switches



4 EXAMPLES FROM THE 20 CIS CONTROLS - [HTTPS://WWW.CISECURITY.ORG/CONTROLS/CIS-CONTROLS-LIST/](https://www.cisecurity.org/controls/cis-controls-list/)

Artificial Intelligence creates new possibilities



04

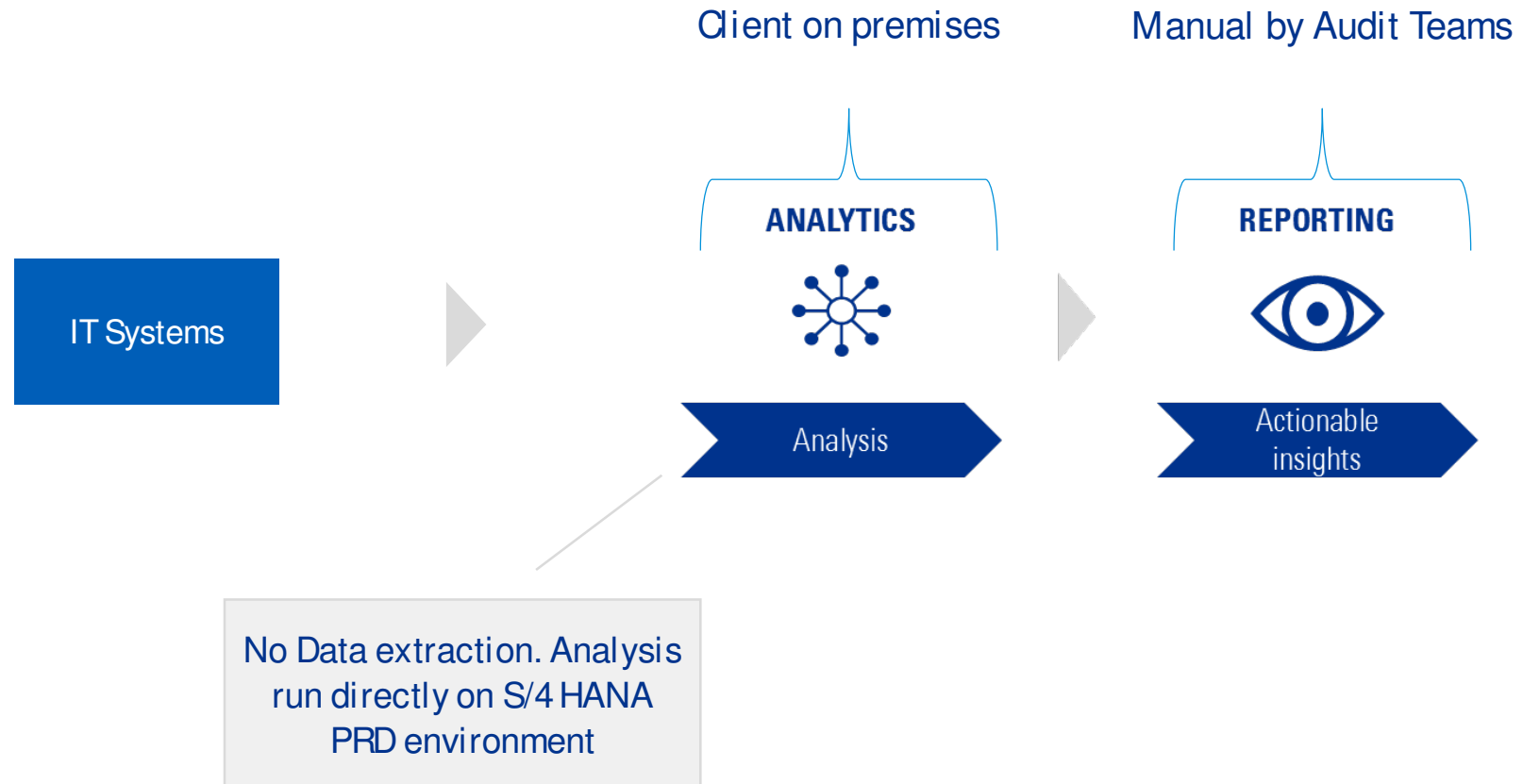
Moving to CA

In practice: CA at the largest food company in the world

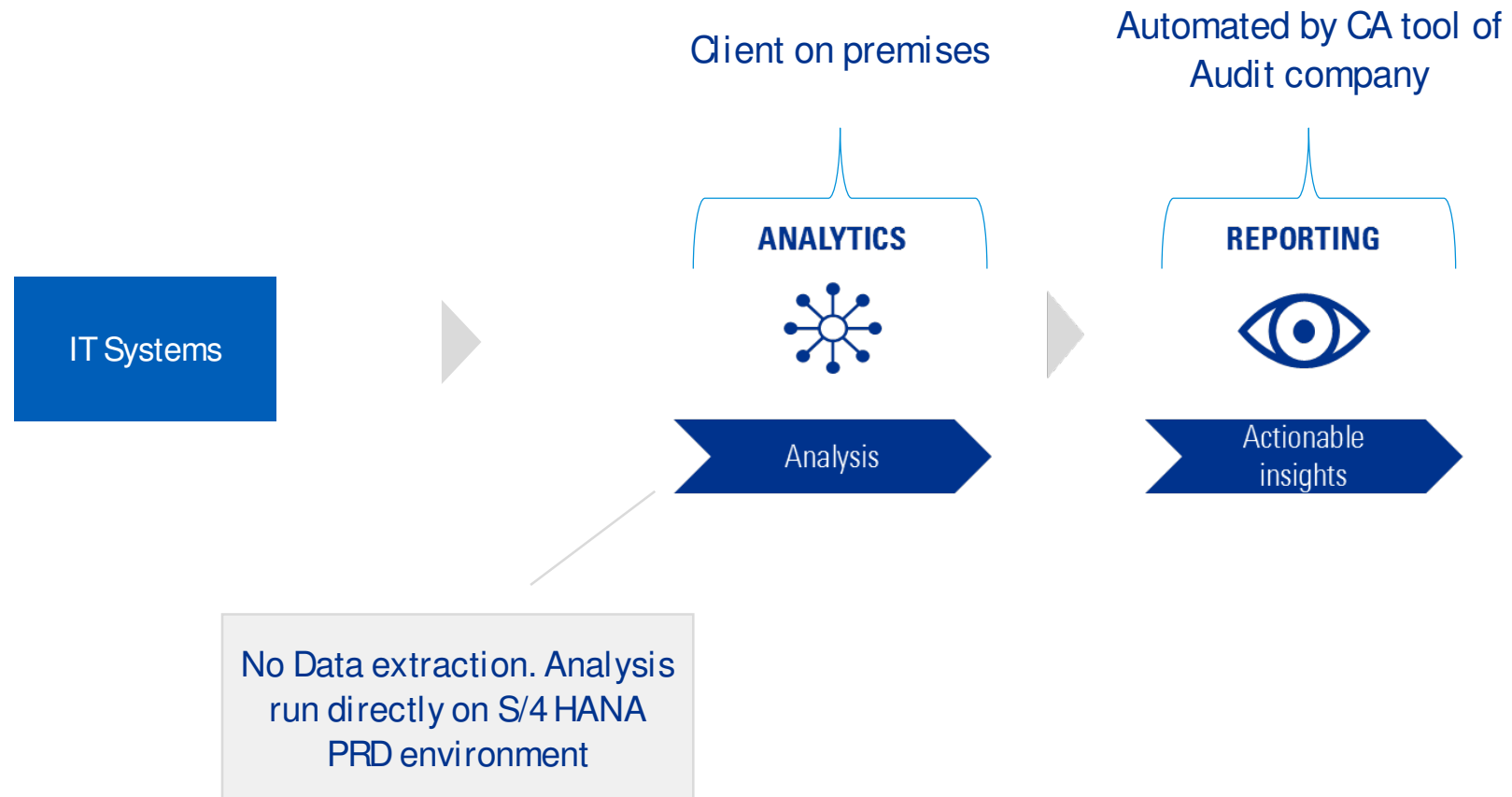
Moving to CA - D&A by the Auditor



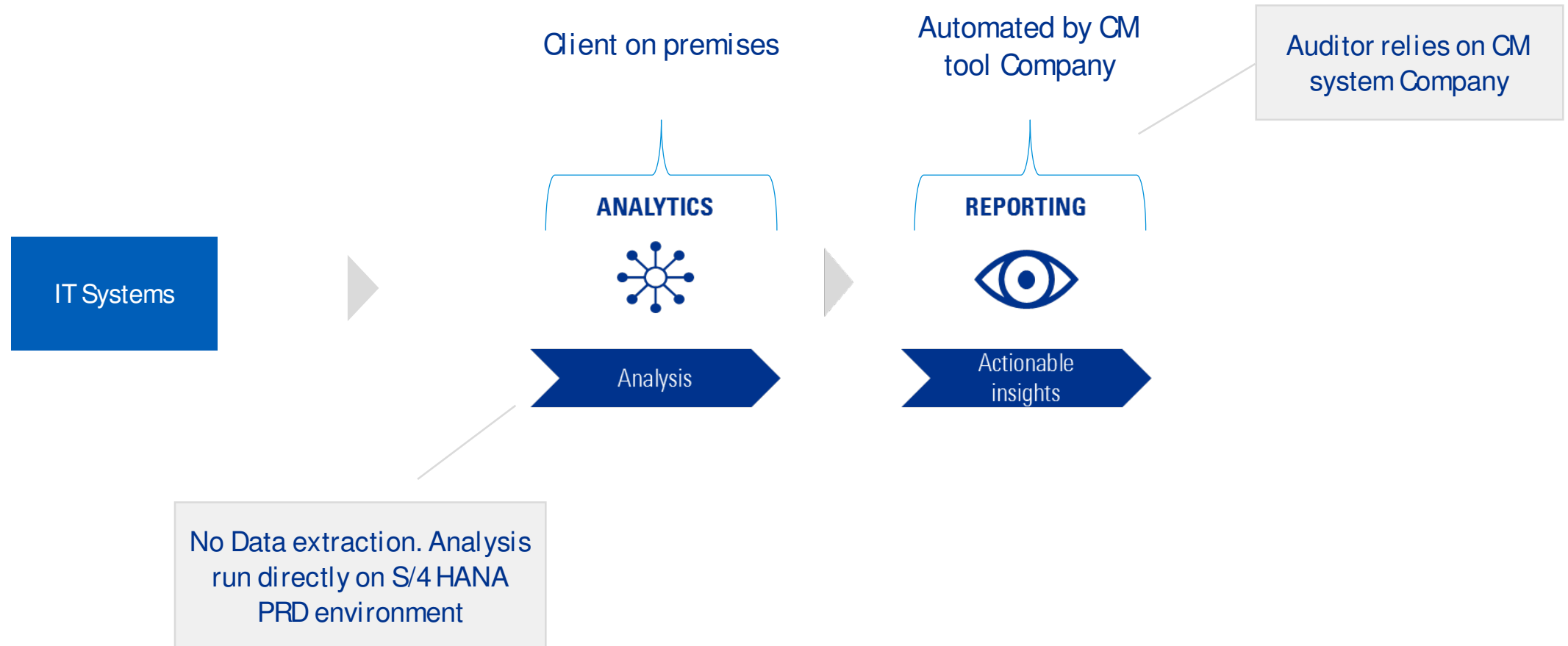
Moving to CA - D&A on premises of the Company



Moving to CA - Moving to a Continuous Auditing tool



Moving to CA - Company implemented Continuous Monitoring

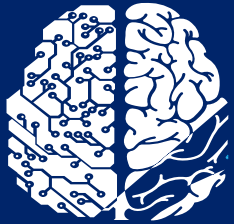


05

Why now!?

Why we will experience a breakthrough

Why now



Technology

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



Standardization

Standardization,
harmonization and
centralization efforts of
companies

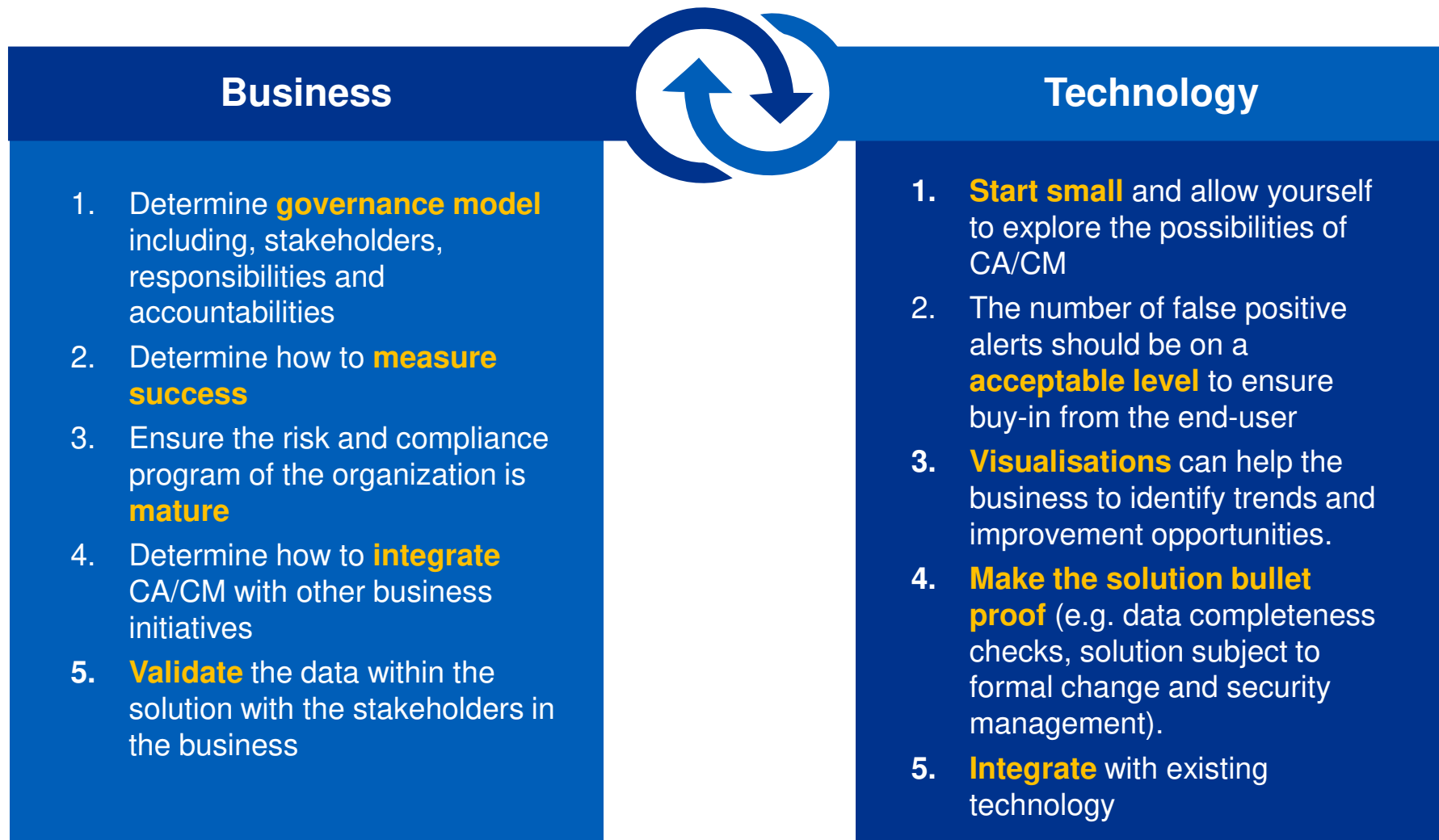


Compliance vs Costs

Increased compliance
pressure on companies,
while they want to keep
costs in control

Above all, professionals nowadays do see the need for automation of their profession

Key criteria to a successful implementation



Thank you!