Deloitte.

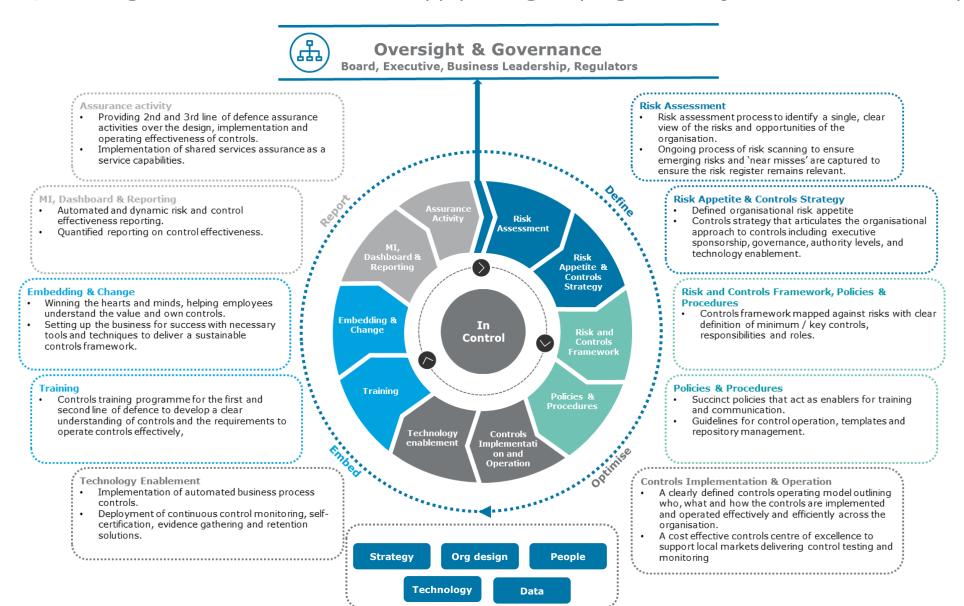


Controls in a Digital, Agile World

Controls Methods in a Digital, Agile World

Controls Design Methods

Effective, Risk Aligned Control & Assurance apply to digital programmes just as in 'traditional' programmes



Digital Controls by Design

Principle Building Blocks for a robust Control Framework in a digital world



Controls Design Authority Group (CDAG) should be formed to approve the controls design in line with defined minimum controls standards. An owner should be identified for owning controls on a more operational basis.



Take Control of the Robots by implementing access, process and General IT controls (e.g. change management) controls over robots. Perform validation over machine learning & AI processes.

Shared Services

Establish a **Control Service Centre** as node within the Finance Shared Service Centre(s). Their remit would increase as the team matures from initially control testing support and reporting to exception management and test execution for all non-judgemental controls.



Risks and Controls should be defined in each business process design document. All of the controls, including controls over Robots are brought together into a Risk and Control Matrix (RACM) to avoid gaps and for duplication to be managed in a more efficient manner.

Scope

The scope of controls should include process controls, access controls and General IT controls, on all Finanacial system in scope.



Control Awareness Training should be given emphasising key roles and responsibilities as it relates to control ownership, control operation and effective monitoring to drive accountability and make effective above and beyond a 'box-checking' exercise. Emphasise new risks and controls of digitisation and robots.

Application Security

Application security should be designed to be **flexible and modular** so that roles can be **Segregation of Duties (SoD) free**, or assigned a mitigating control from an approved list.

Application security should be extended to Robots – what can they systems and data can they access, what can they share and distribute?



Standard application configuration should be used to automate controls and relevant 'inherent controls' called out in the RACM i.e. controls that are embedded in the application and do not require additional configuration.

Automated Monitoring

Use **Robotics for Automation of Controls** where system configuration or integration is not available.



Automation of Segregation of Duties (SoD) checks, password resets and workflow approvals should be put in place to **maintain security post go-live**.

A control monitoring or testing regime should be put in place to **ensure continuous effectiveness of the controls post go-live** – similar to the 'real-time' analytics strategy for other areas.

Controls should be designed into Hybrid Agile solutions from the outset

The application of adaptive, agile concepts and techniques in a traditional, predictive project. When Financial Controls are included in project requirements, they can be delivered in an agile way.

Retain from waterfall

- Predictability (scope/requirements, resources, schedule, and budget)
- Project controls
- Execution discipline

Retain from agile

- Flexibility
- Business owns priorities and features
- Rapid delivery of product increments
- Value-driven
- Execution discipline

Controls in Hybrid Agile

- Predictability
- Requirements include control objectives
- Flexibility at the control activity level
- Enhanced collaboration with internal stakeholders
- Frequent review of increments Optimised RACM
- Execution discipline

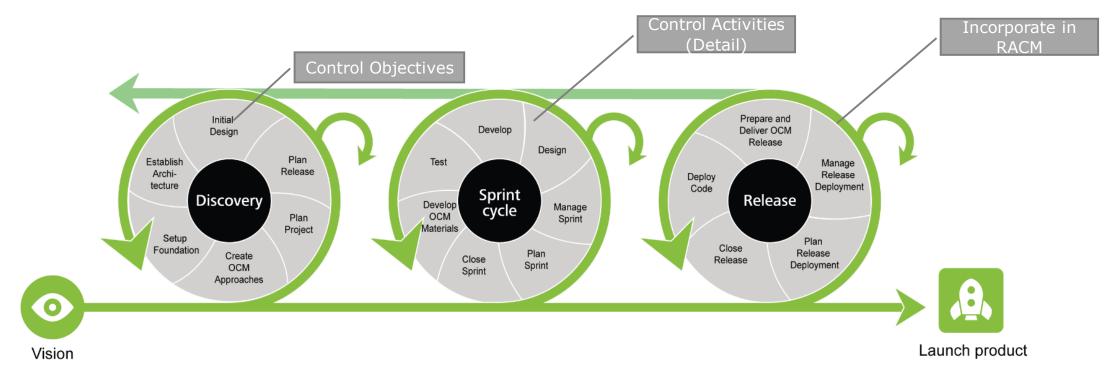
Approach-agnostic - Integrated processes and controls

Integrating Controls Design into an agile digital finance programme

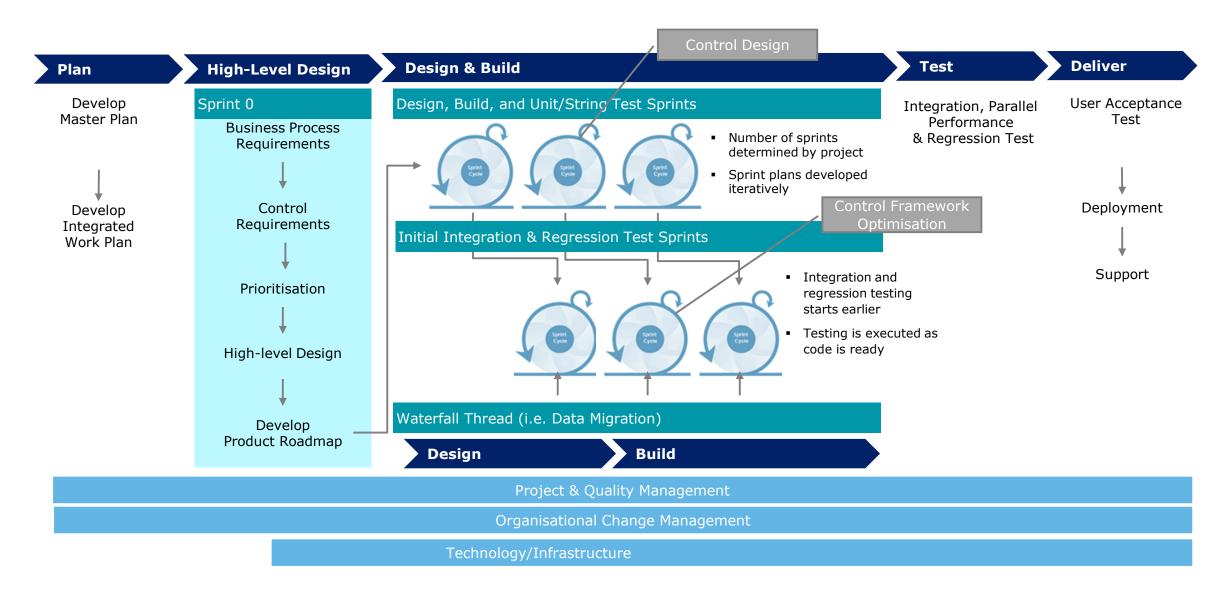
Control design is integrated into an agile programme by including the requirements in at the discovery stage. It is imperative that this is at the right level – i.e. the control objective level.

The sprint team then has the freedom to design, iterate and build the detailed control activities required to realise the control in the Sprint cycle.

The sprint outcome is then fed forward into the Risk and Control Matrix (RACM), which is iterated and optimized through collaboration between multiple cross-functional sprint teams.



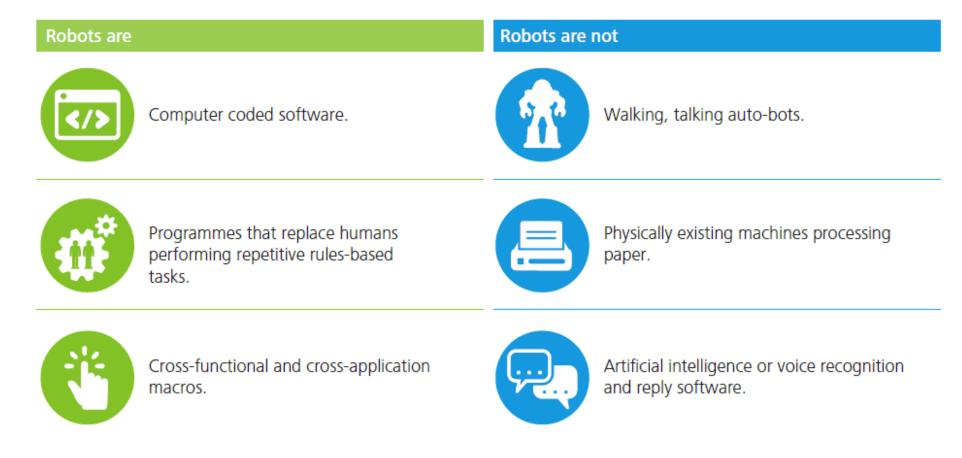
Sample approach for hybrid agile project – where do controls fit-in?



Robotic Control Automation

What is Robotic Process Automation (RPA)?

Software!



Robots can provide a 'thin layer' of controls over systems where 'standard' configuration is not available i.e. Robotic Control Automation!

What processes are suitable to deploy with Robotic Control Automation?

Anything that is rules based and repetitive – Shared Services is a good place to start

Sample processes suitable for robotics, illustrative



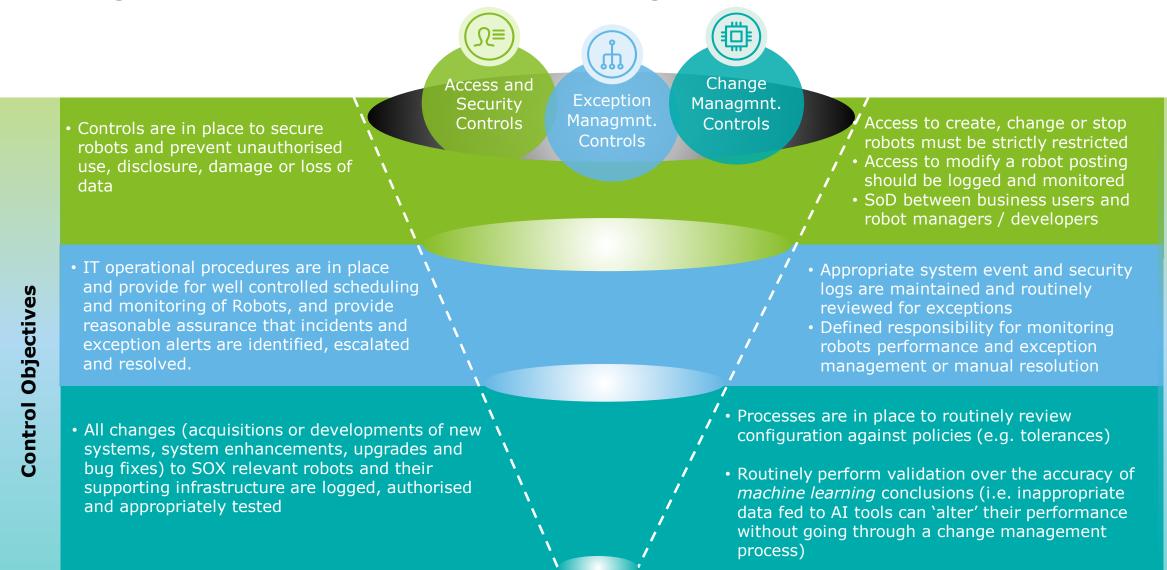
Sample Activities for Robotic Control Automation

- Logging onto web / multiple enterprise applications
- Scraping data from websites / applications
- Copying and pasting data
- Following if/then conditions and rules
- Extracting and reformatting data into reports or dashboards
- Extracting structured data from documents
- Merging data from multiple places
- Making calculations
- Filling in forms
- Reading and writing to databases

Control Activities

Controlling Robotised Processes

Creating a robust control environment in the digital world – the same fundamentals



Additional Digital Risks

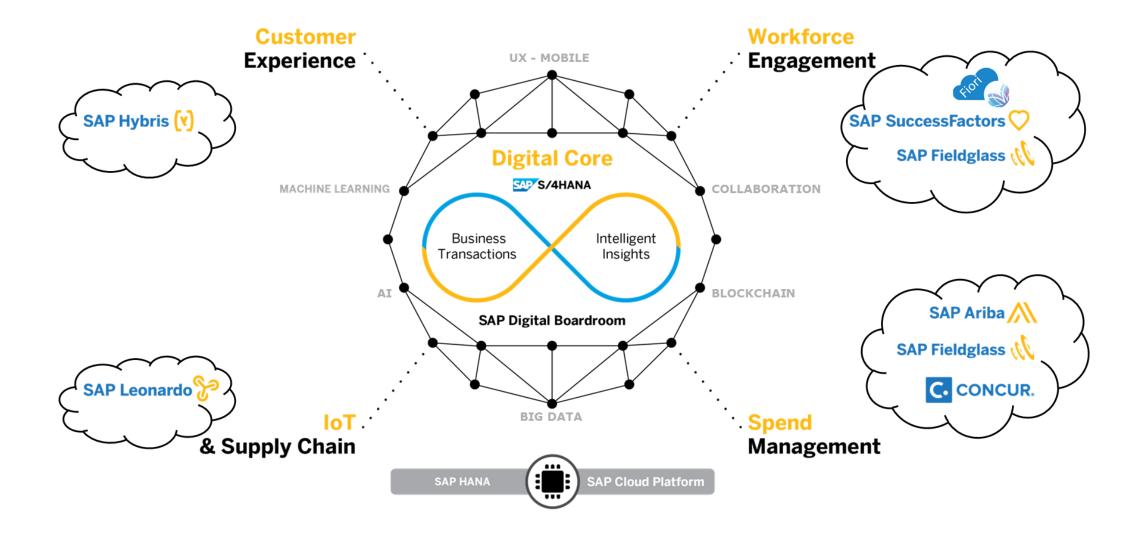
In addition to the other risks and controls discussed above, increasing digitisation brings new risks that need to be controlled



Appendix

Secure the Digital Core.....

Innovation and agility is driven by cloud applications, robotics, AI and 'edge' technologies



Contact

For more information please contact:



Johan Van Grieken
Partner Deloitte Belgium
+ 32 2 800 24 53
jovangrieken@deloitte.com



Wivine Massaut
Director Deloitte Belgium
+ 32 2 800 22 74
wmassaut@deloitte.com



Julie Van der Planken
Director Deloitte Belgium
+ 32 2 800 27 09
jvanderplanken@deloitte.com

Deloitte.

This publication has been written in general terms and we recommend that you obtain professional advice before acting or refraining from action on any of the contents of this publication. Deloitte LLP accepts no liability for any loss occasioned to any person acting or refraining from action as a result of any material in this publication.

Deloitte LLP is a limited liability partnership registered in England and Wales with registered number OC303675 and its registered office at 2 New Street Square, London, EC4A 3BZ, United Kingdom.

Deloitte LLP is the United Kingdom affiliate of Deloitte NWE LLP, a member firm of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"). DTTL and each of its member firms are legally separate and independent entities. DTTL and Deloitte NWE LLP do not provide services to clients. Please see www.deloitte.com/about to learn more about our global network of member firms.

© 2018 Deloitte LLP. All rights reserved.