



MASTERINGSAP Collaborate

8 – 9 MAY 2025

PARKROYAL ON BEACH ROAD | SINGAPORE

How UGL effectively utilized Industry-leading Automation to move to S/4HANA and RISE

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An SAPinsider Company



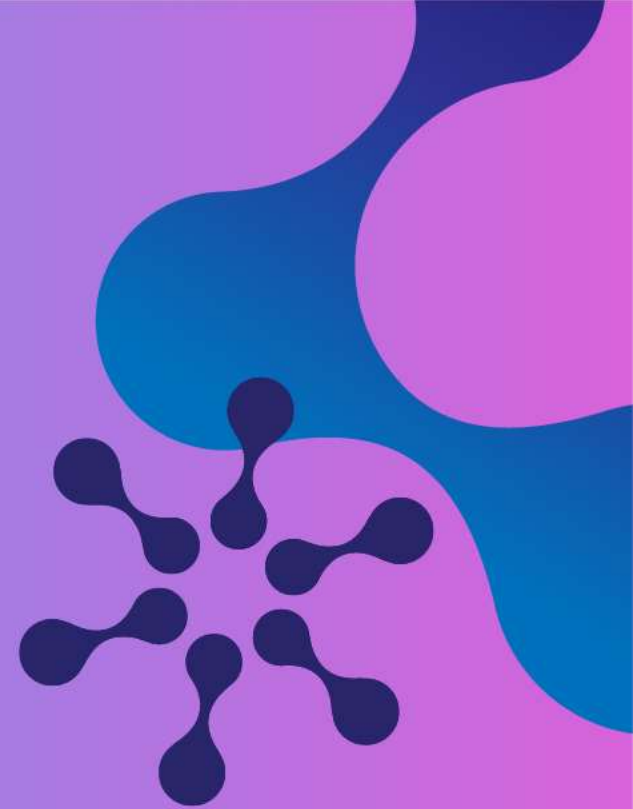
Sunny L Wang

General Manager, ICT Business Systems
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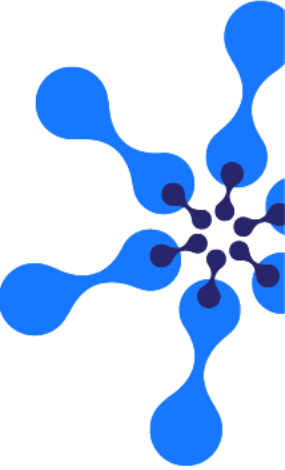
Arndt Hoffmann

Chief Customer Officer
smartShift Technologies



Key Takeaways

- UGL's Background and Considerations for the Move to S/4HANA
- UGL's Approach for the Move to S/4HANA
- Why Custom Code is a Major Challenge on the Path to S/4HANA
- How UGL Effectively Utilized Automation to Address Custom Code
- Custom Code Automation Approach and Benefits




UGL clients represent a wide cross section of Australia's public and private sectors.




OUR HISTORY

UGL originated as a small engineering business, in Western Australia in the late 1960s.

Expanding nationally during the 1990s, UGL acquired Goninan, the country's leading producer of railway rolling stock, founded in 1899.



1960 

1997 Changed company name to United Group Limited

1999 Changed company name to UGL Limited

2016 UGL was acquired by CIMIC Group.


  


We have evolved from a family business to become **the best at what we do** in the many and varied sectors of which we operate.


Our success has been built on anticipating and reacting to market trends and demands, maximising our opportunities.


Today we are a tier one contractor, respected and trusted by our clients across all sectors.


1899 THE HISTORY OF UGL TODAY


1899 


1994 


1998  Kilpatrick Green*


1999  Goninan*

2002  KFPW*


2004  Thames Water*


2005  Premas / Alstom*

2006 

2007  PCS / Unico*

2011

2021  IAS Group*

2022  Logistic Engineering Services Pty Ltd*

2023

Alfred Goninan established a small engineering business at Wickham (5.5 acres).



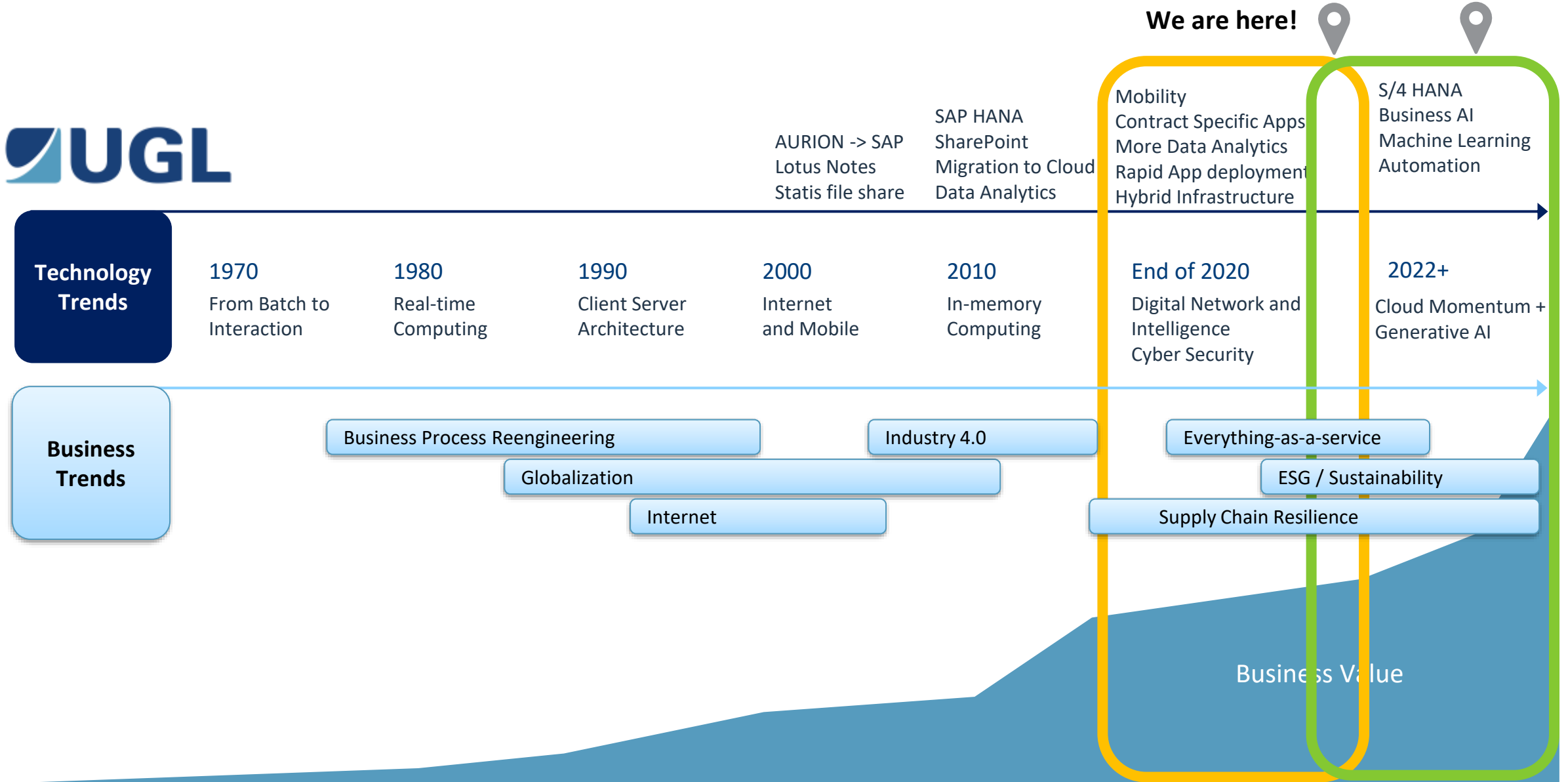
Listed on the Australian Securities Exchange as United Construction

In the following period, UGL undertook several acquisitions*, further expanding its operations in Australia as well as extending into Asia and North America.

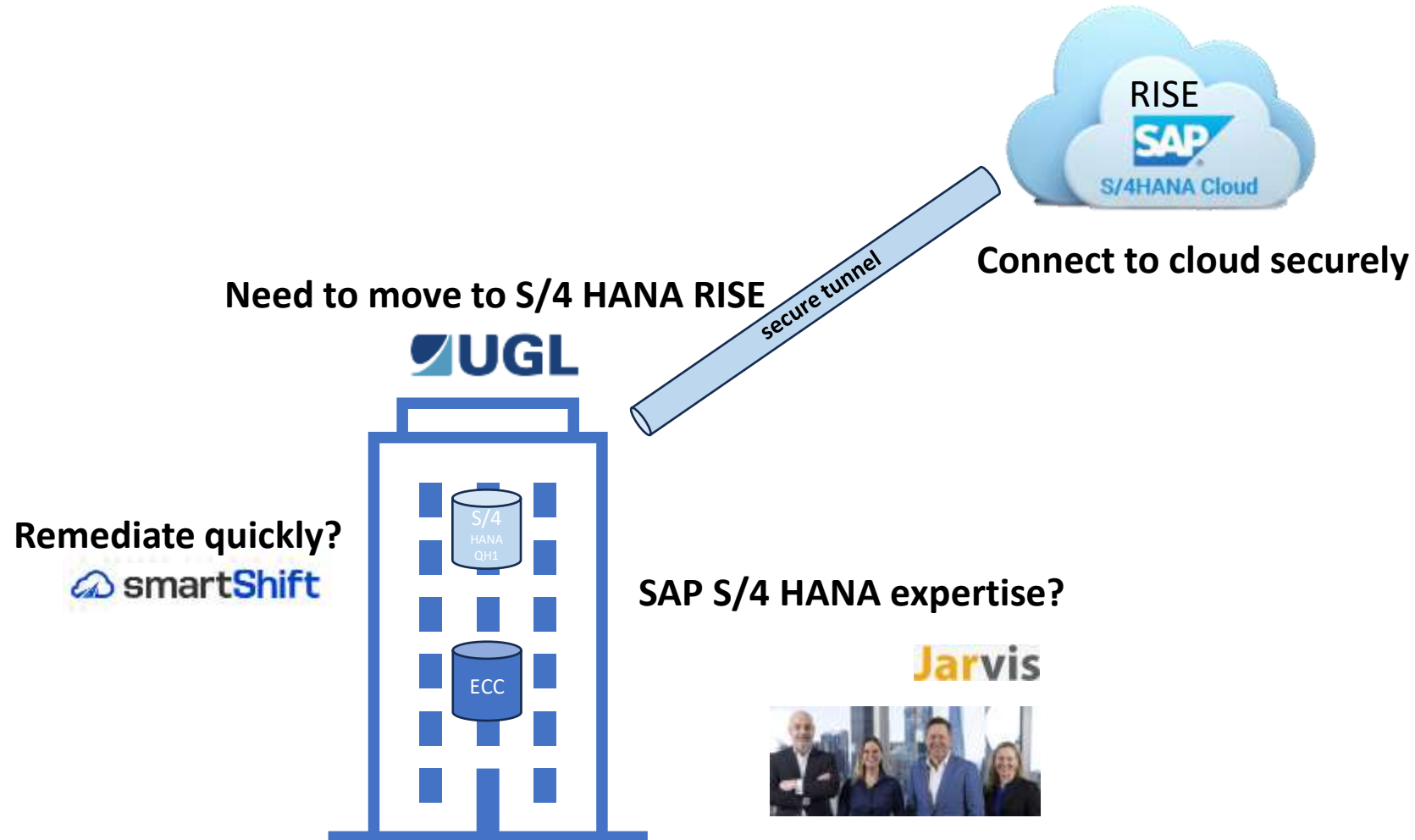


In 2011, UGL acquired DTZ Holdings, creating a global leader in property services that was later divested.





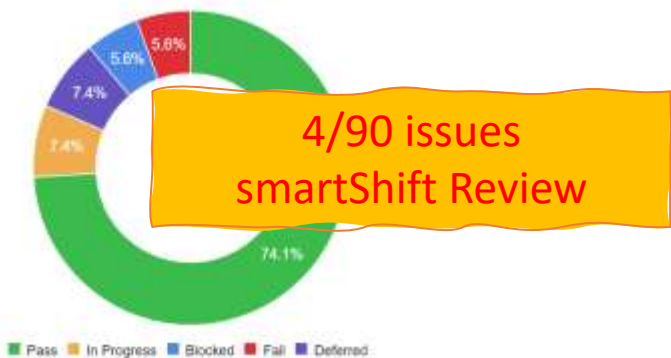
Rapid S/4HANA Transformation



Broken S/4

Sandbox

27K+ custom code objects
2.1m lines of code
~162 man days (32 weeks) of effort to fix manually



5-8 weeks

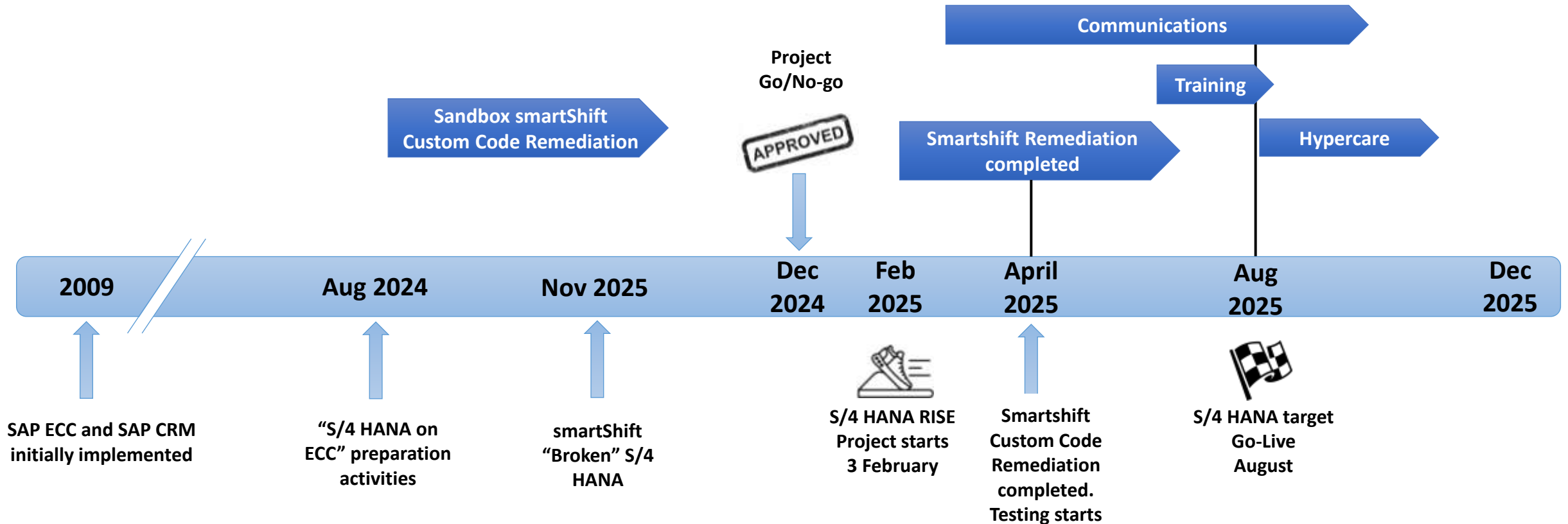
Automated code upgrade



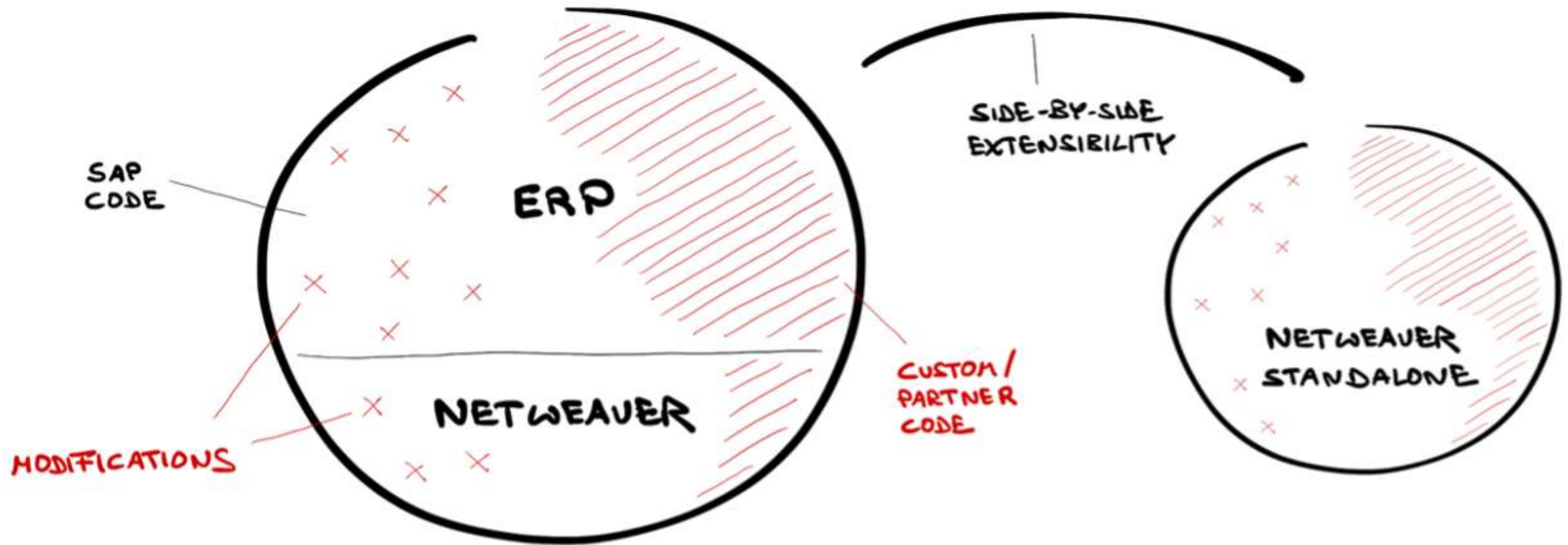
In Parallel..

Access and Controls review New S/4HANA Licences
Customer/Vendor Integration Integration Migration
Data optimisation Platform Design

S/4HANA Timeline

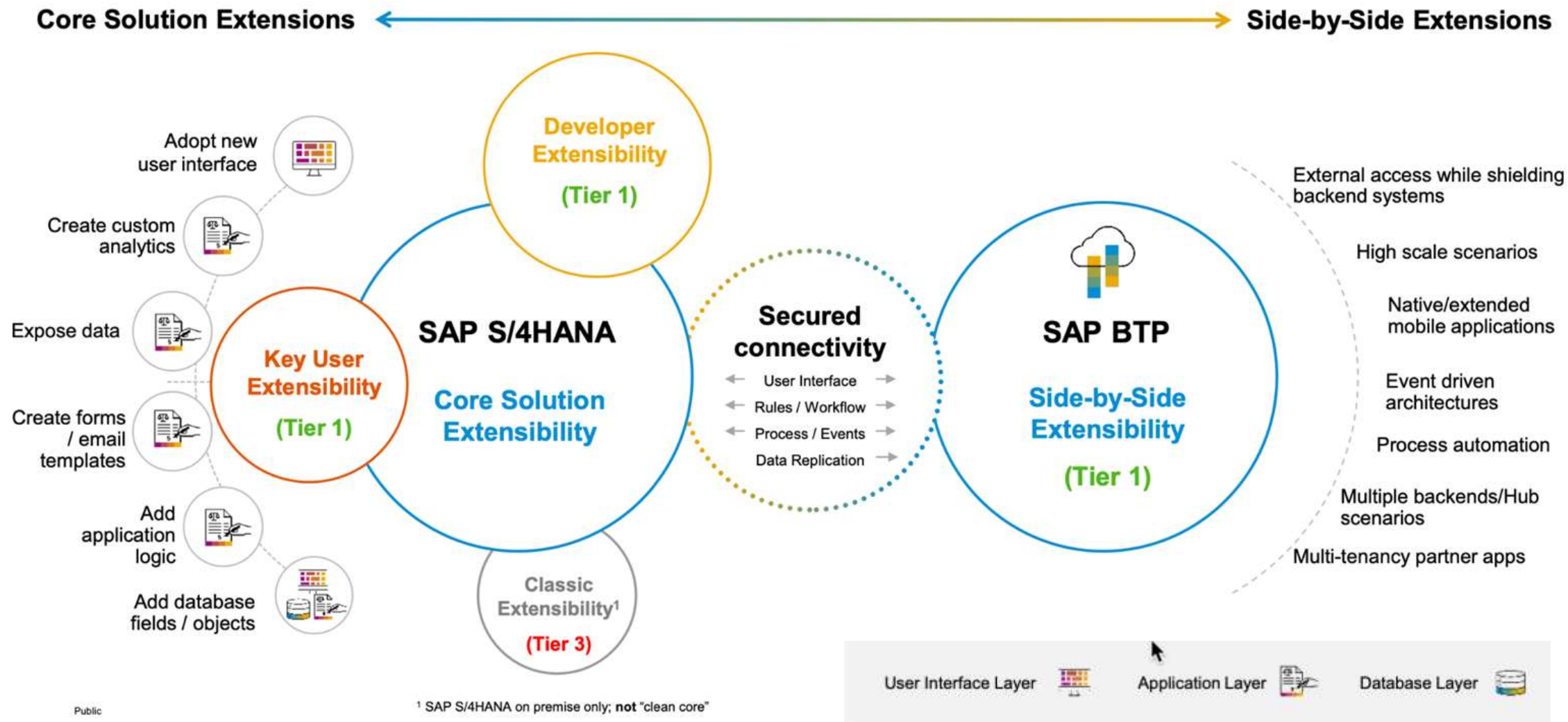


Custom Code – The 'Good' Old Days



Flexible but upgrading SAP code can break modifications and custom code

Custom Code – The 'New' Way



ASUC Tech Connect 2023 - Clean Core What It Is and Why Do It and How do I get There

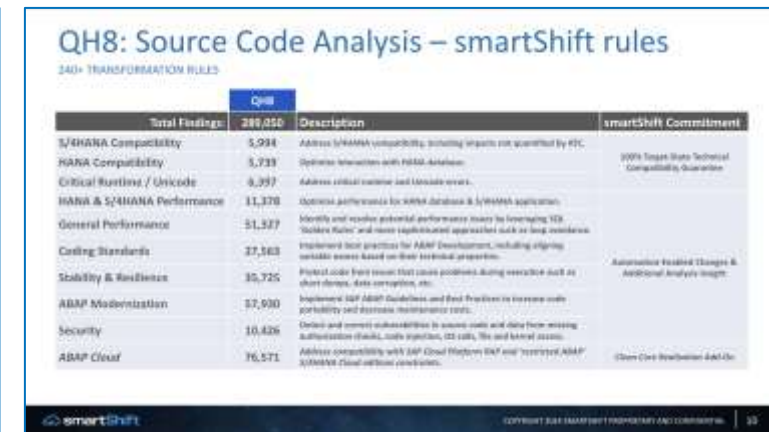
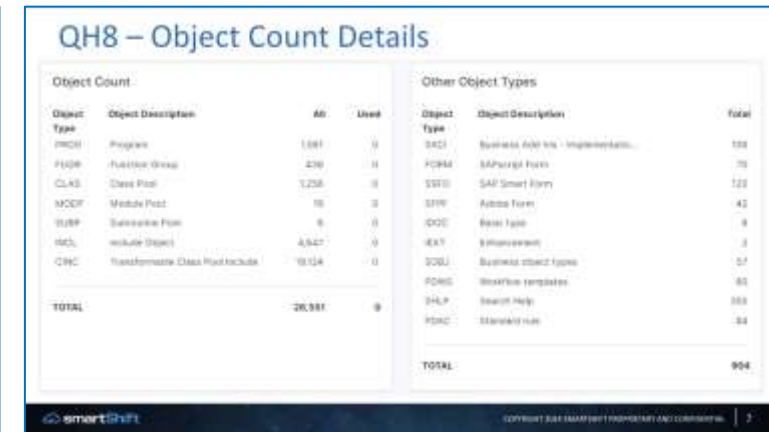
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INSIGHTS FROM CODE ANALYSIS

Custom Code Transformation as a central workstream on the path to S/4HANA

A Rapid Custom Code Analysis performed by smartShift Technologies

provided the detailed data required to plan out the Custom Code workstream for the S/4HANA Transformation



Custom Code Challenge & Opportunity

Custom Code Transformation as a central workstream on the path to S/4HANA

NUMBER OF CUSTOM OBJECTS

27,227

LINES OF CUSTOM CODE (NORMALIZED)

2,153,318

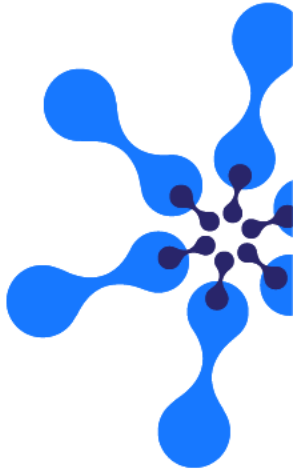
CHALLENGES

- **Highly customized** SAP System since **2009**
- **High Custom Code change impact** moving to HANA and S/4HANA (small number of functional issues)
- **Big Technical Debt** accumulated over years
- **Active development** ongoing in ECC

GOALS

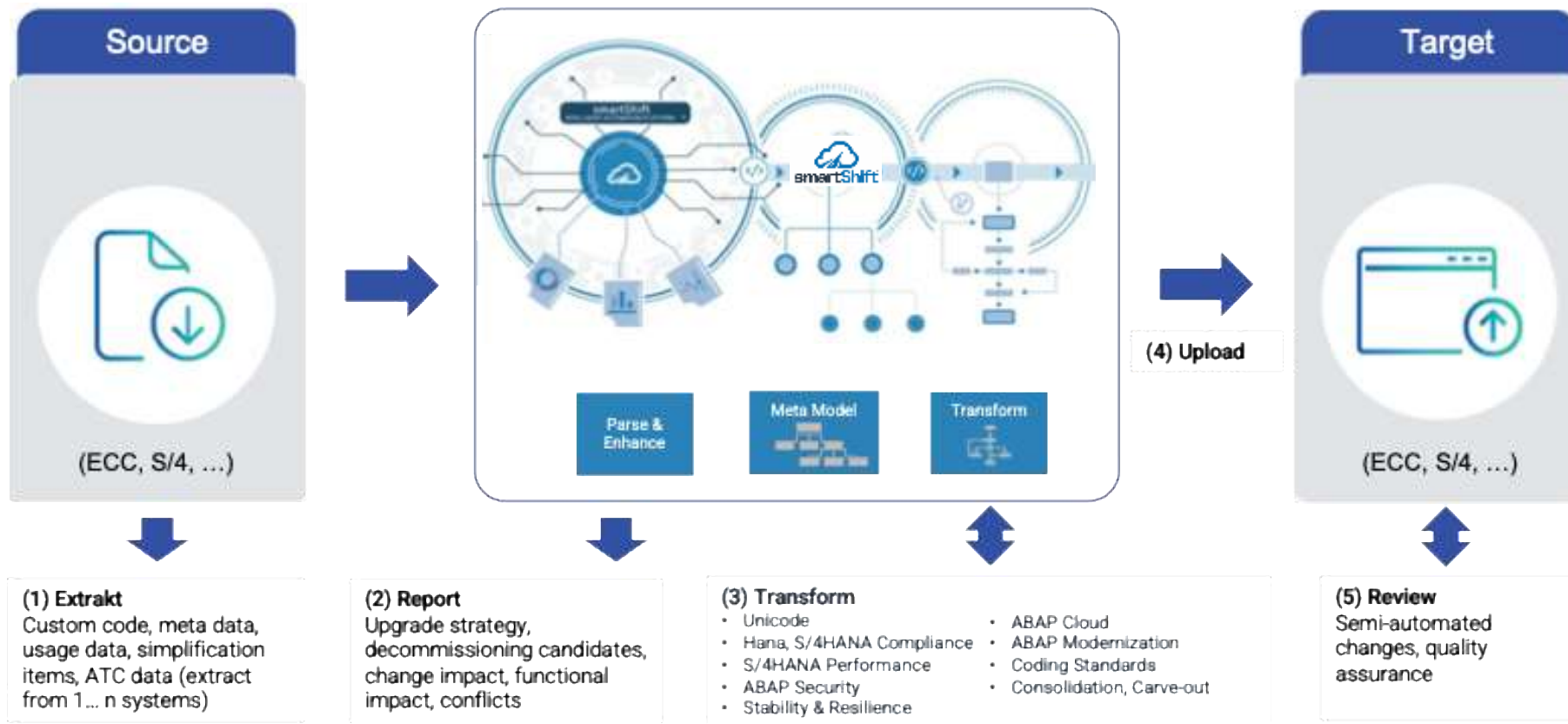
- **De-risk and accelerate** the S/4HANA transformation
- **Relief internal teams** from mundane manual coding work
- **Minimize the business impact** during the transformation
- **Reduce technical debt** and **modernize** towards a cleaner core

UGL decided to collaborate with **smartShift Technologies** for Custom Code Remediation and Modernization for UGL's S/4HANA Transformation



smartShift Intelligent Automation Platform

Increase quality, performance and agility through intelligent, configurable automation



Turnkey Solutions based on Automation

At smartShift, we develop and deliver automated solutions to accelerate business growth and de-risk the transformation of SAP custom code and applications – guaranteed outcomes and timelines!



S/4HANA Transformation projects are an excellent opportunity to begin the process of adopting clean core principles by starting with decommissioning and other code transformation and optimization opportunities

Clean Core is a continuous modernization process with expected value achieved over time as standard and principles are adopted and new extensibility strategies are leveraged

Automation Benefits for UGL

SPEED
MASSIVE ACCELERATION

4 WEEKS
(PER TRANSFORMATION)

COVERAGE
FULL MODERNIZATION

149,237
(ISSUES FIXED)

PRECISION
EXTREME HIGH QUALITY

7 ISSUES
(IN TESTING)

Issues Fixed (per Transformation Category)

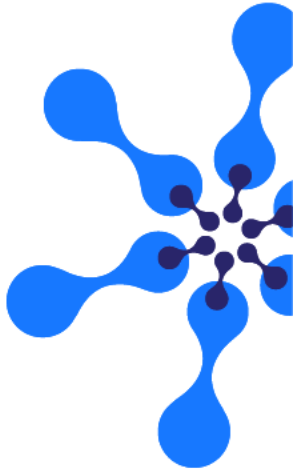
| | |
|-----------------------------|----------------|
| HANA, S/4HANA Compatibility | 8,632 |
| S/4HANA Performance | 2,815 |
| ABAP Cloud | 73,731 |
| ABAP Modernization | 60,652 |
| Security | 3,407 |
| Total | 149,237 |

FURTHER AUTOMATION BENEFITS

- Fully converted Sandbox system enable **early testing**
- **Internal teams** can focus on innovation and critical functional work
- **Code modernization** is achieved without adding additional risk
- Automated dual maintenance **reduces system freeze, enables business agility**

“smartShift is key to the low risk, low business impact and rapid transformation strategy for UGL”

*Sunny L. Wang
UGL Pty Limited*



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