# CASE STUDY - Foodstuffs South Island Project Petra - S/4HANA & SAP RISE

### Greg Kirk

Software Engineering Service Lead

### Arndt Hoffmann

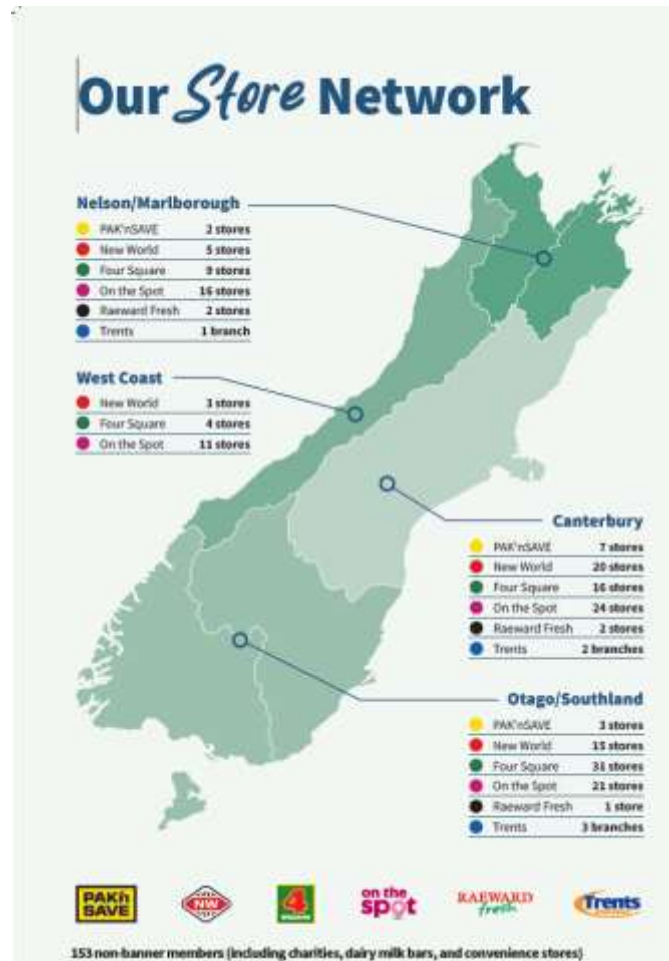Chief Customer Officer, smartShift

Greg Kirk joined Foodstuffs South Island in 2008, spending the next 17 years involved in all aspects of development within the FSSI SAP environment. Greg now leads the SAP development (ABAP, BTP, Integration, Handheld Applications) and Basis teams, focussed on the delivery and support of technologies across a wide array of SAP systems.

As Chief Customer Officer, Arndt Hoffmann is responsible for the overall Customer Experience with smartShift. Arndt joined smartShift in 2002 as one of the founding team members and has been operating in the SAP industry since 1995. Arndt specializes in SAP Transformation and Modernization programs and SAP Custom Code Development, Governance and Strategies.

## About Foodstuffs South Island

Foodstuffs South Island Co-operative was formed 95 years ago and is today one of the leading grocery retailers on New Zealand's South Island. The Co-operative supports well-known brands such as: New World, PAK'nSAVE, Four Square, Raeward Fresh, and On The Spot. Foodstuffs is 100% New Zealand owned and operated. Every day, the Co-operative works to be South Island's most loved & trusted retailer, positively impacting its customers' lives every day.

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## Our *Store* Network



**Nelson/Marlborough**
| | |
|---|---|
| PAK'nSAVE | 2 stores |
| New World | 5 stores |
| Four Square | 9 stores |
| On the Spot | 16 stores |
| Raeward Fresh | 2 stores |
| Trents | 1 branch |

**West Coast**
| | |
|---|---|
| New World | 3 stores |
| Four Square | 4 stores |
| On the Spot | 11 stores |

**Canterbury**
| | |
|---|---|
| PAK'nSAVE | 7 stores |
| New World | 20 stores |
| Four Square | 16 stores |
| On the Spot | 24 stores |
| Raeward Fresh | 2 stores |
| Trents | 2 branches |

**Otago/Southland**
| | |
|---|---|
| PAK'nSAVE | 3 stores |
| New World | 15 stores |
| Four Square | 31 stores |
| On the Spot | 21 stores |
| Raeward Fresh | 1 store |
| Trents | 3 branches |

153 non-banner members (including charities, dairy milk bars, and convenience stores)

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# Our focuses are clear:

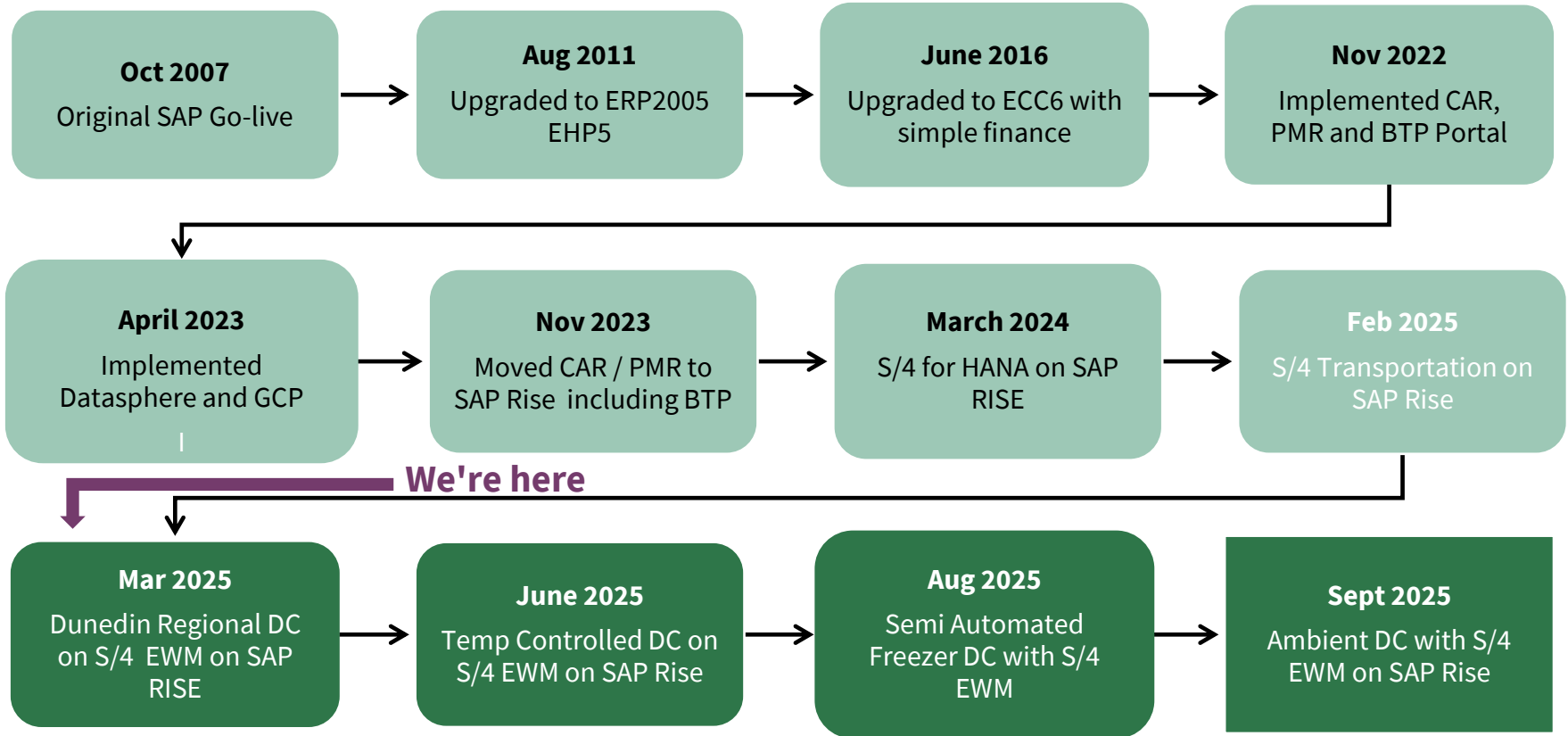**Simplify end-to-end**
**reduce cost** to deliver value to customers

**Total value for customers**
disciplined price + **magic where it matters**

**Invest in the future**
create capabilities in people, brands & operations to grow & sustain success

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# Our SAP Journey

**Oct 2007**
Original SAP Go-live

**Aug 2011**
Upgraded to ERP2005 EHP5

**June 2016**
Upgraded to ECC6 with simple finance

**Nov 2022**
Implemented CAR, PMR and BTP Portal

**April 2023**
Implemented Datasphere and GCP

**Nov 2023**
Moved CAR / PMR to SAP Rise including BTP

**March 2024**
S/4 for HANA on SAP RISE

**Feb 2025**
S/4 Transportation on SAP Rise

**We're here**

**Mar 2025**
Dunedin Regional DC on S/4 EWM on SAP RISE

**June 2025**
Temp Controlled DC on S/4 EWM on SAP Rise

**Aug 2025**
Semi Automated Freezer DC with S/4 EWM

**Sept 2025**
Ambient DC with S/4 EWM on SAP Rise

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In 2018 Foodstuffs South island created a Digital strategy (Beyond 2025) to transform SAP is undergoing a major SAP modernization roadmap including moving our central SAP ECC system to S/4HANA and re-platforming to SAP RISE (Project Petra). Other elements of Project Petra and the wider roadmap include SAP CAR, BTP Process Integration and Datasphere and the Supply Chain eWM, TM, LBN and warehouse insights

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# Changed Focus with SAP

**Open Book with SAP
Full finance disclosure**

**Worked on our
Strategy "Together"**

**Challenged the
working theory**

**We are experts in the "FUE"
Challenged the use of it**

**Modeled consumption
together to ensure CPEA
is understood**

**Signed up for
Professional Engagement
"PE"**

# S/4 Principles of the project

Cloud First

Fiori First

Retain  Native UI5 and Handheld  Technology

Keep Existing UX  interface

Embrace the Business Technology Platform (BTP)

Refresh Data Strategy

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# S/4 Rise Project Timeline

**2022**

**Business Case**
9th December 2022

Business Case Approved including the roadmap for our Data strategy and tools to assist us to move to the Cloud with AWS, being smartShift and Figaf

**Blueprint Signoff**
28 February 2023

~40 Business Workshops. ~60 Blueprints signed off. A Fiori first approach, Roles built from the ground up. 15 Store member reference Group

**2023**

**Build Complete**
3Rd September 2023

Remove Web Dynpro for Java, Remediate custom code with smartShift. Use Figaf to migrate On prem PI to BTP process integration. Rebuild roles from ground up. Using smart shift and figaf for Dual maintenance

**UAT Commences**
4th September 2023

10 Sprints with 11,000 test cases and the use of Tosca test automation and Jira with Zephyr scale .

**2024**

**Go Live March 11th 2024**

50 – 60 Hour outage upgrade to S/4 and migrate to AWS SAP RISE in the Cloud

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# We transitioned to S/4 on Rise

✓ Went live on 11th March 2024 after many months of work
✓ One of the most significant projects in FSSI's history
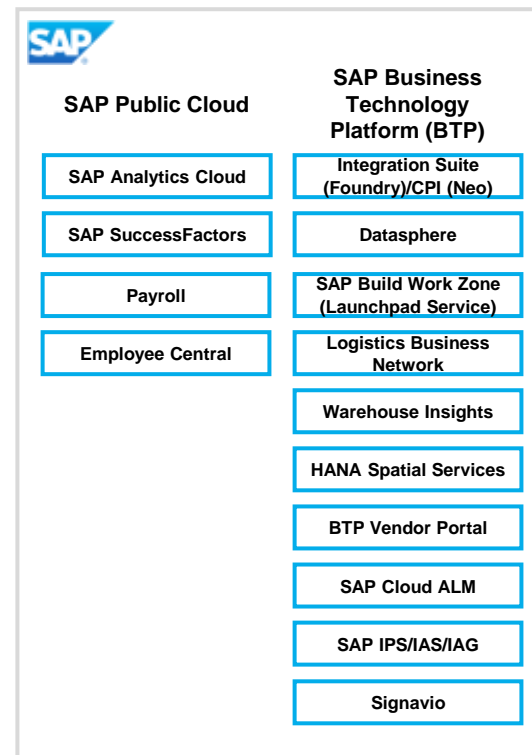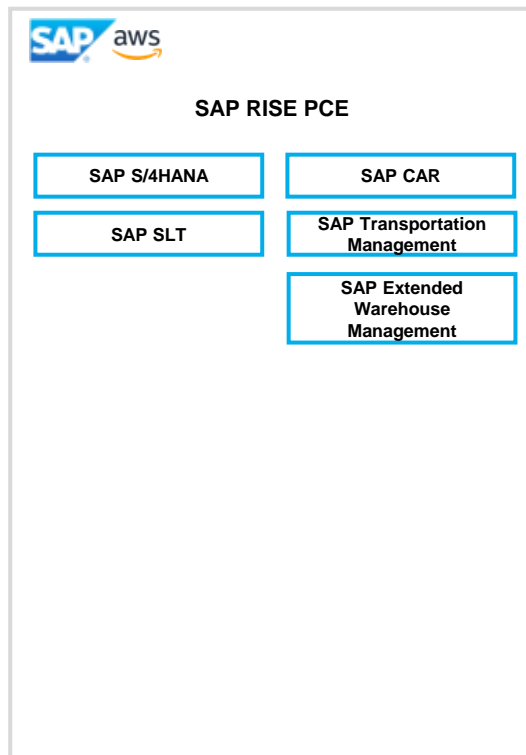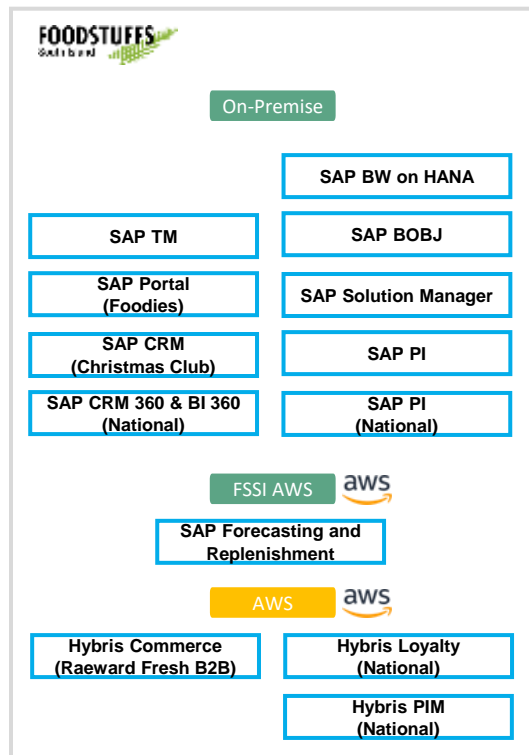✓ Planning, preparation, testing, and trouble-shooting ensured no major issues

**Key stats:**

Roadshow held in locations from Nelson to Invercargill provided **16** training sessions for **500** participants

Test cases executed pre go-live 11,427

Quality assurance incidents logged in testing 1,961

Incidents fixed and closed pre go-live 1,906

**3** dress rehearsals held
We had a testing team comprising
**18** different business areas with
**68** testers

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# SAP Solutions Landscape

The SAP landscape is split across a number of environments. The future state will continue to include SAP applications hosted on-premise with the addition of the SAP RISE PCE environment and a greater use of SAP Public Cloud and SAP BTP hosted applications. The ultimate goal is to have no remaining on-premise SAP applications within 3 years.

## FOODSTUFFS

### On-Premise

| | |
|---|---|
| | SAP BW on HANA |
| SAP TM | SAP BOBJ |
| SAP Portal (Foodies) | SAP Solution Manager |
| SAP CRM (Christmas Club) | SAP PI |
| SAP CRM 360 & BI 360 (National) | SAP PI (National) |

### FSSI AWS — aws

SAP Forecasting and Replenishment

### AWS — aws

| | |
|---|---|
| Hybris Commerce (Raeward Fresh B2B) | Hybris Loyalty (National) |
| | Hybris PIM (National) |

## SAP | aws

### SAP RISE PCE

| | |
|---|---|
| SAP S/4HANA | SAP CAR |
| SAP SLT | SAP Transportation Management |
| | SAP Extended Warehouse Management |

## SAP

### SAP Public Cloud

- SAP Analytics Cloud
- SAP SuccessFactors
- Payroll
- Employee Central

### SAP Business Technology Platform (BTP)

- Integration Suite (Foundry)/CPI (Neo)
- Datasphere
- SAP Build Work Zone (Launchpad Service)
- Logistics Business Network
- Warehouse Insights
- HANA Spatial Services
- BTP Vendor Portal
- SAP Cloud ALM
- SAP IPS/IAS/IAG
- Signavio

# The Need for Custom Code Automation

| NUMBER OF CUSTOM OBJECTS | LINES OF CUSTOM CODE | DECOMMISSION POTENTIAL | S/4HANA ISSUES COMPATIBILITY |
|---|---|---|---|
| **48,327** | **1,946,149** | **50%+** | **28,502** |

| HANA ISSUES COMPATIBILITY | HANA PERFORMANCE ISSUES | TECHNICAL DEBT ISSUES | ONGOING ECC DEVELOPMENT (OBJECTS/YEAR) |
|---|---|---|---|
| **4,843** | **13,841** | **202,023** | **2,853** |

## CHALLENGES

- Highly customized SAP System since 2007
- Big Technical Debt accumulated over years
- Huge change impact for HANA and S/4HANA compliance (small number of functional issues)
- Very active development ongoing in ECC
- Estimated  > ~1,000 Person Days for Code Remediation with internal team with a 6-month duration

## GOALS

- Relief internal teams from mundane manual coding work
- Reduce unused code and technical debt
- De-risk and accelerate the transformation
- Minimize the business impact through a code freeze
- Accelerate transformation timelines

Management Summary

FDR – Objects Created and Change Information

FDR: S/4HANA Simplification Item Detection & Analysis

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# Foodstuffs S/4 on Rise

"Foodstuffs South Island  selected **smartShift** to own the custom code remediation and modernization including multi-month dual maintenance.
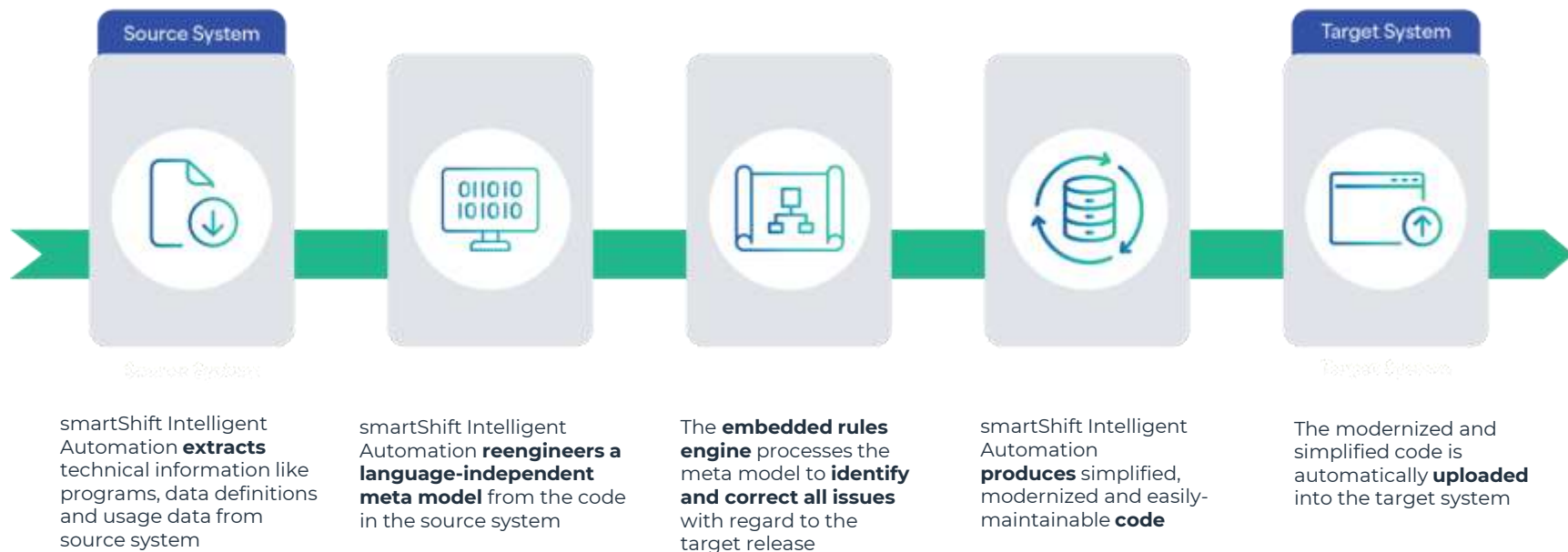
The project went live successfully in March 2024. **smartShift** were selected as an accelerator solution that reduced their Project Risk, saving time and money on tasks that would otherwise need to be carried out manually by our development team."
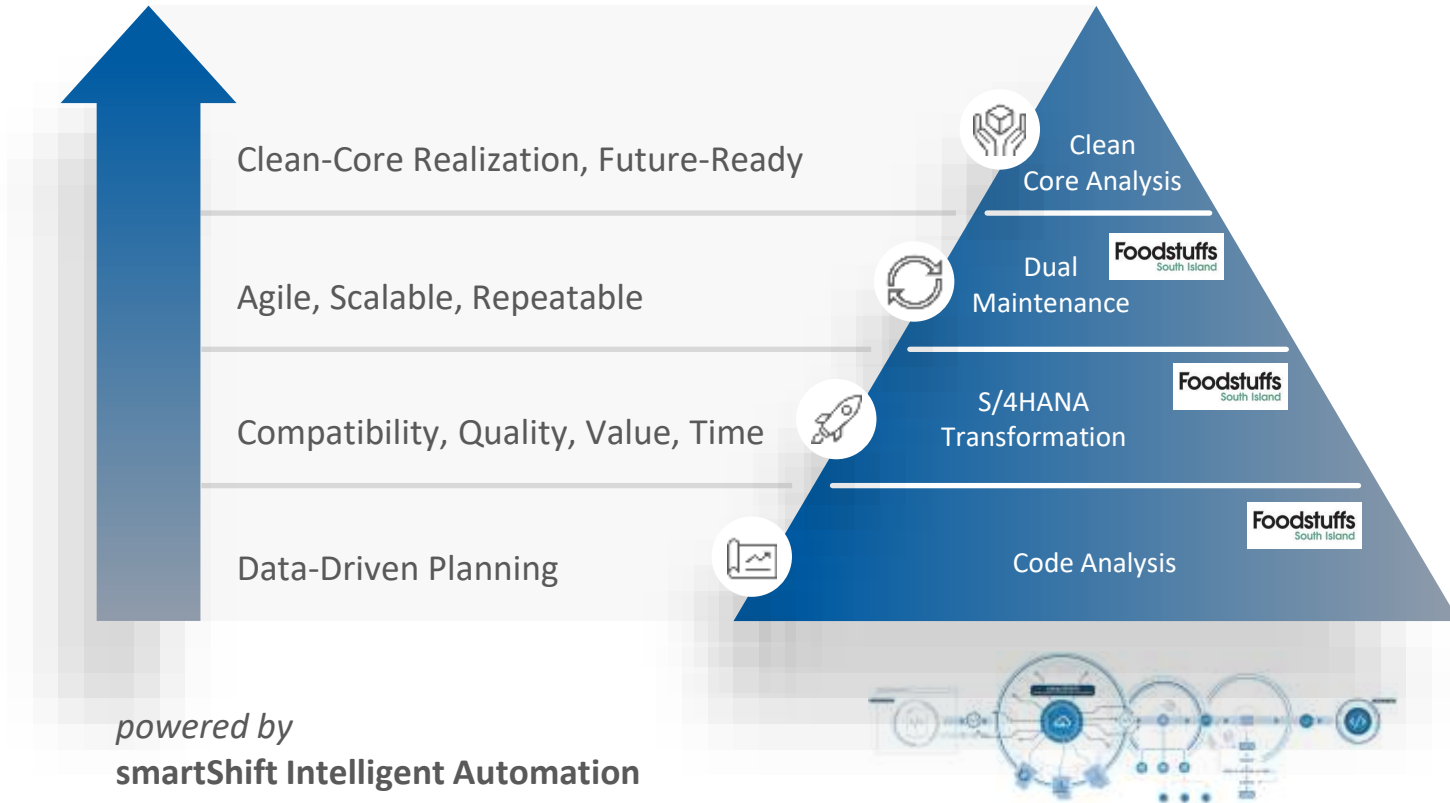


selected end of 2022 as central provider of SAP Custom Code Automation .

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# SMARTSHIFT INTELLIGENT AUTOMATION®

## INCREASED QUALITY, PERFORMANCE AND AGILITY THROUGH INTELLIGENT, CONFIGURABLE AUTOMATION



**Source System**

**Target System**

smartShift Intelligent Automation **extracts** technical information like programs, data definitions and usage data from source system

smartShift Intelligent Automation **reengineers a language-independent meta model** from the code in the source system

The **embedded rules engine** processes the meta model to **identify and correct all issues** with regard to the target release

smartShift Intelligent Automation **produces** simplified, modernized and easily-maintainable **code**

The modernized and simplified code is automatically **uploaded** into the target system

# smartShift – Custom Code Solution Continuum

Clean-Core Realization, Future-Ready

Agile, Scalable, Repeatable

Compatibility, Quality, Value, Time

Data-Driven Planning

Clean Core Analysis

Dual Maintenance

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S/4HANA Transformation

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Code Analysis

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*powered by*
**smartShift Intelligent Automation**

# SMARTSHIFT INTELLIGENT AUTOMATION® OFFERINGS

## A BETTER WAY TO TRANSFORM AND MODERNIZE SAP CUSTOM CODE AND GET TO A CLEAN CORE SAP

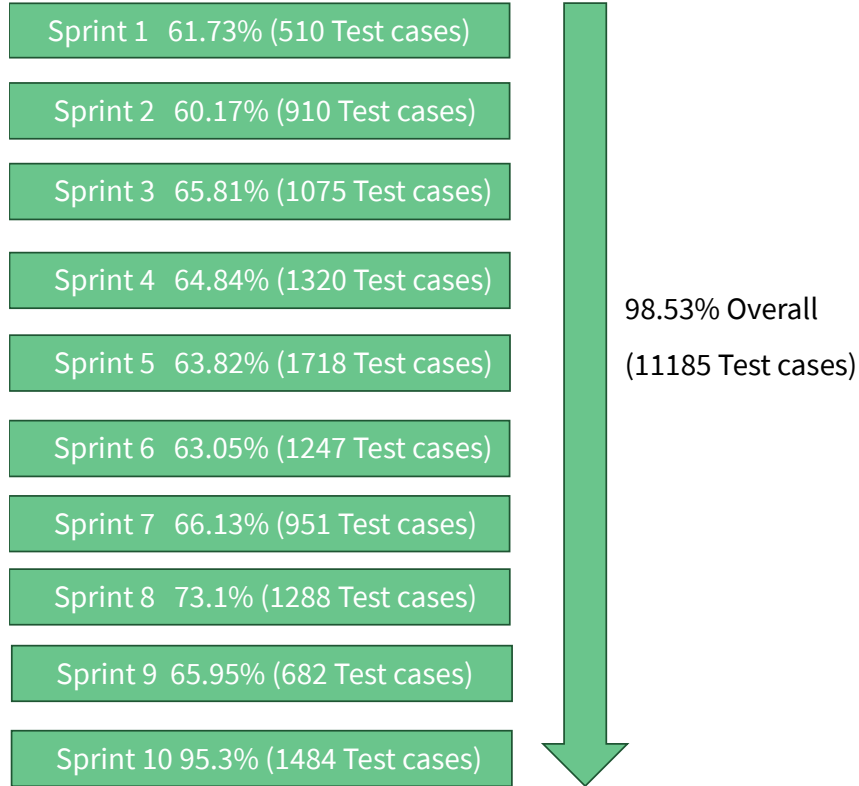# S/4HANA – Project Timeline

Code Decom. = Code Decommissioning   DM = Dual Maintenance

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# Foodstuffs South Island  UAT

Below is the summary of the % completion for the Sprints and the Overall testing

| Sprint | | |
|---|---|---|
| Sprint 1 | 61.73% | (510 Test cases) |
| Sprint 2 | 60.17% | (910 Test cases) |
| Sprint 3 | 65.81% | (1075 Test cases) |
| Sprint 4 | 64.84% | (1320 Test cases) |
| Sprint 5 | 63.82% | (1718 Test cases) |
| Sprint 6 | 63.05% | (1247 Test cases) |
| Sprint 7 | 66.13% | (951 Test cases) |
| Sprint 8 | 73.1% | (1288 Test cases) |
| Sprint 9 | 65.95% | (682 Test cases) |
| Sprint 10 | 95.3% | (1484 Test cases) |

98.53% Overall

(11185 Test cases)

*"smartshift enabled us to reach 98.53%  at Go-Live target was greater than 90%"*

**Beyond 2025  - SAP Digital transformation**

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# Custom Code Automation Benefits

**SPEED**
**MASSIVE ACCELERATION OF THE PROGRAM**

**5** WEEKS TRANSFORMATION
TIMELINE (INCL. Q&A)

**BUSINESS AGILITY**
**MINIMAL FREEZE TIME FOR BUSINESS**

**9,404** OBJECTS RETROFITTED

**QUALITY**
**EXTREME LOW ERROR RATES**

**4** ISSUES IN TESTING

**TEAM**
**INTERNAL EFFORTS SAVED**

**~500 DAYS**

**FURTHER BENEFITS**

- Fully transformed Sandbox helped to identify functional redesign areas early in the project
- Comprehensive transformation of all HANA and S/4HANA issues (no focus on P1 / P2), no functional "surprises" in production
- Addressing Performance proactively helped to prevent problems in production
- "Shift left" of required transformation for a Clean Core (ABAP Cloud, ABAP Modernization)
- Reduced Risk through guaranteed timelines and quality

*"Foodstuffs South Island would turn to smartShift again!*

*The benefits directly contributed to the success of our transformation project and enabled our team to focus on* **innovation** *instead of correcting historical issues!"*

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# Q&A / How to Connect with Us

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martShift Team:

Update Booth Number

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