



# Intelligent Automation for SAP Transformations

Custom Code Transformation – Challenges, Solutions, & Real-World  
Successes

# About Me

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# Custom Code is Needed!



**46%**

Needed as a result  
of regulatory  
requirements



**45%**

Essential for  
innovation



**35%**

Essential due to  
localization or  
geographics



**32%**

Provides us with  
competitive  
advantage

**50%**

Custom code provides a unique  
user experience

**28%**

Custom code is a core component  
in our digital transformation

Source - ASUG Market Research: Custom Code and Digital Transformation

# Custom Code Challenges & Opportunities

From a Legacy of Inflexibility to a Future of Agile Extensibility

## Average SAP System:

- 15+ years old, 22K custom objects, 2.7MM lines of code
- Often customized ad-hoc
- Poorly maintained

## Common Issues:

- ✗ Unused code
- ✗ No standards
- ✗ Performance, stability, resilience, security issues
- ✗ Customization tightly coupled to core
- ✗ Low agility, long release cycles, huge backlogs

## S/4HANA

- ✓ Streamlined Processes
- ✓ Simplified Data Model
- ✓ Greater Opportunities to Revert to Standard
- ✓ Enabling Platform for Future Innovation

## Clean Core

- ✓ Frictionless Upgrades
- ✓ Scalable customization
- ✓ Lean development teams
- ✓ Agile deployment
- ✓ Standard APIs
- ✓ Focus on innovation

# smartShift Overview

GLOBAL LEADER IN AUTOMATED ENTERPRISE TRANSFORMATIONS



Industry  
**LEADER**  
Intelligent  
Automation



**EXPERTS** in  
legacy  
transformations



**PATENTED**  
Intelligent  
Automation  
Platform  
**20+**  
YEARS R&D



**1000+**  
Cloud, SAP  
Transformation  
and Migration  
Projects



**100+** successful  
Suite on HANA projects  
**100+** successful  
S/4HANA transformations



**CERTIFIED**  
ISO 27001, AWS MAP  
& MSP



Cloud Migration,  
Managed Services  
partnerships with  
**AWS,**  
**Azure, GCP**



smartShift worked with 2 out of 5  
**S/4HANA Business**  
**Transformation**  
finalists in 2021



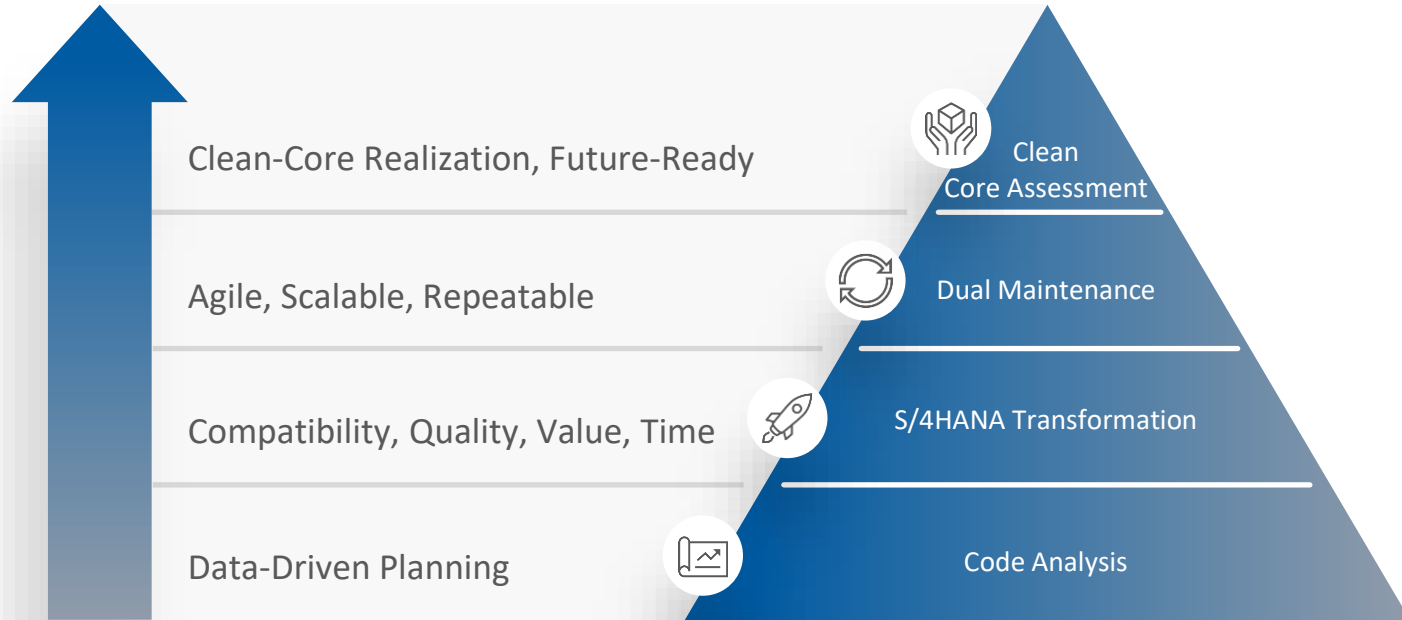
**AIRBUS**



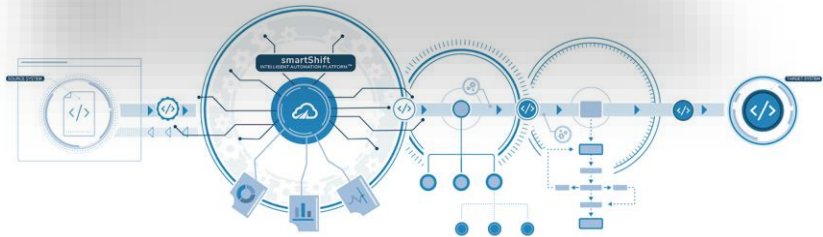
**JABIL**



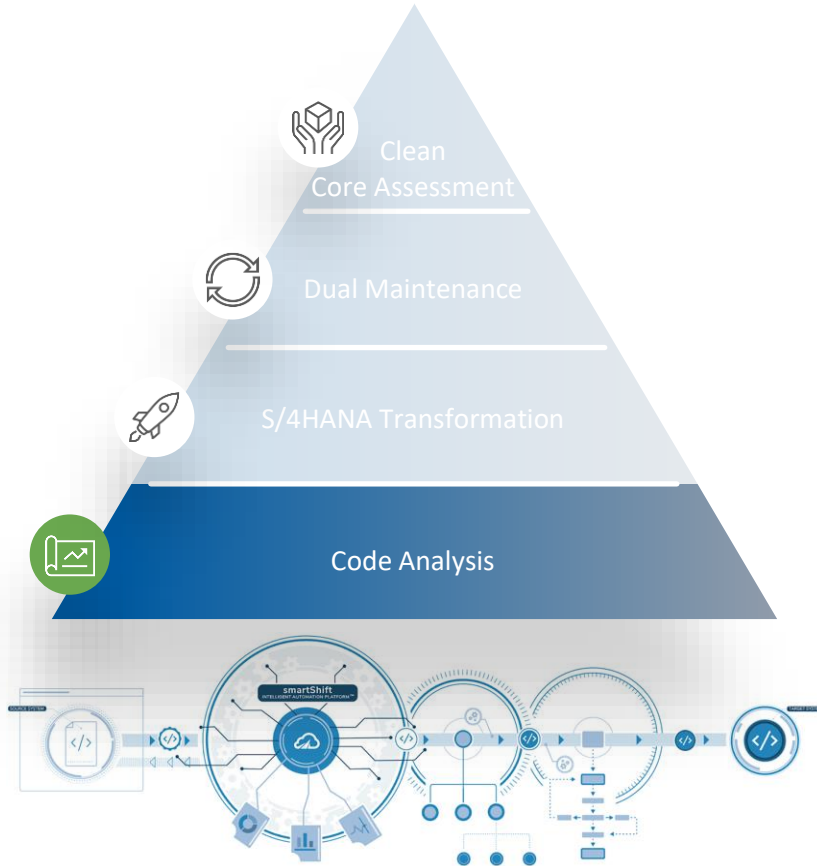
# smartShift – Custom Code Solution Continuum



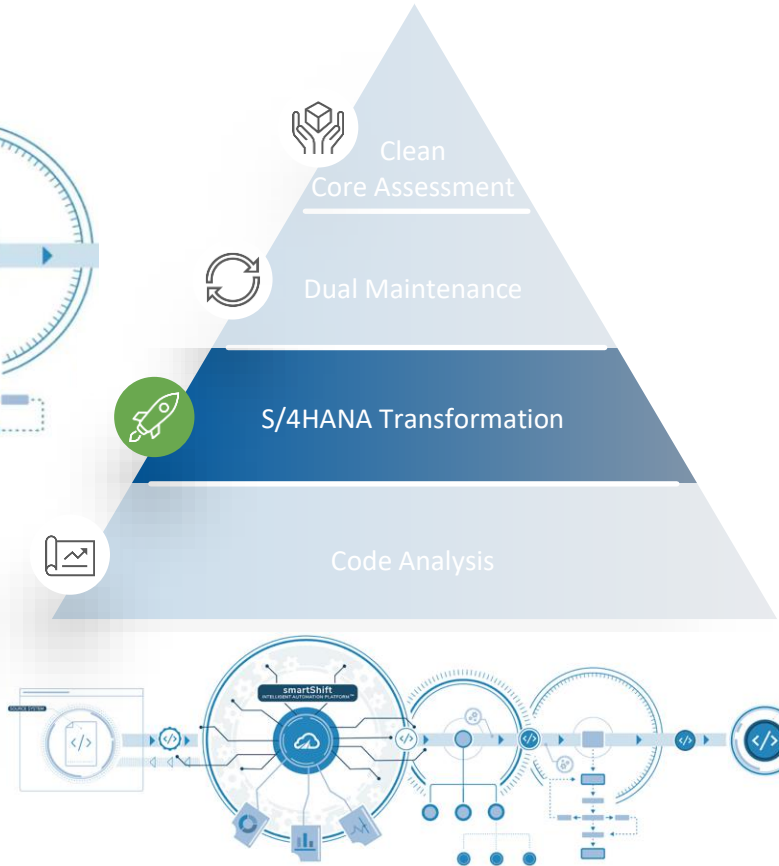
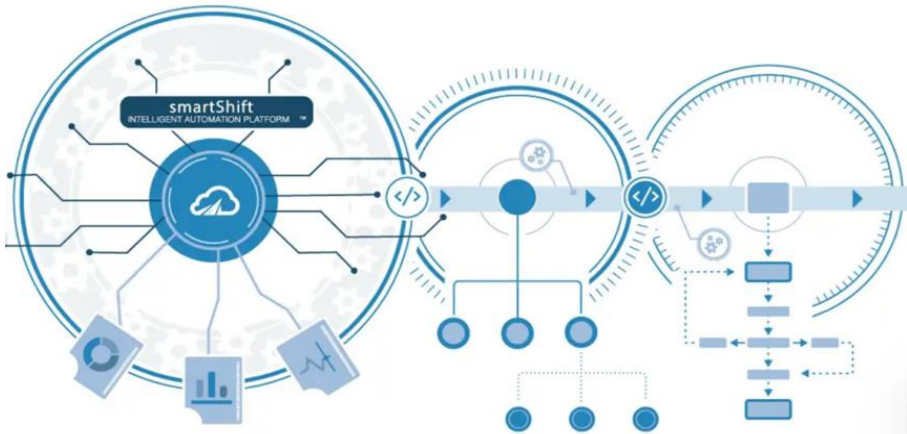
*powered by*  
**smartShift Intelligent Automation™**



# Code Analysis

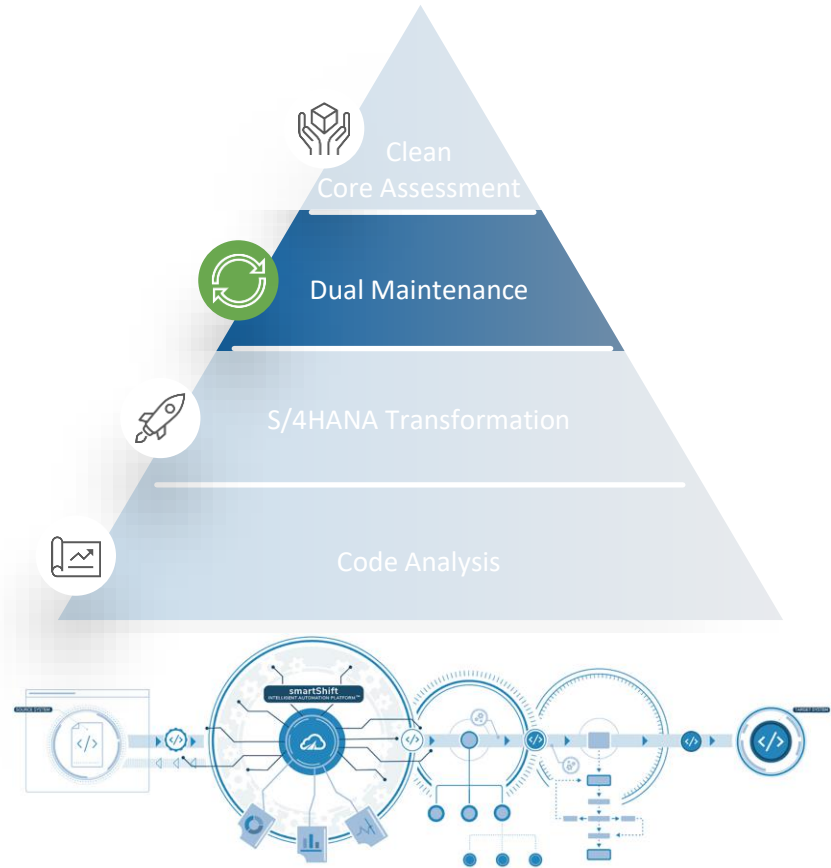
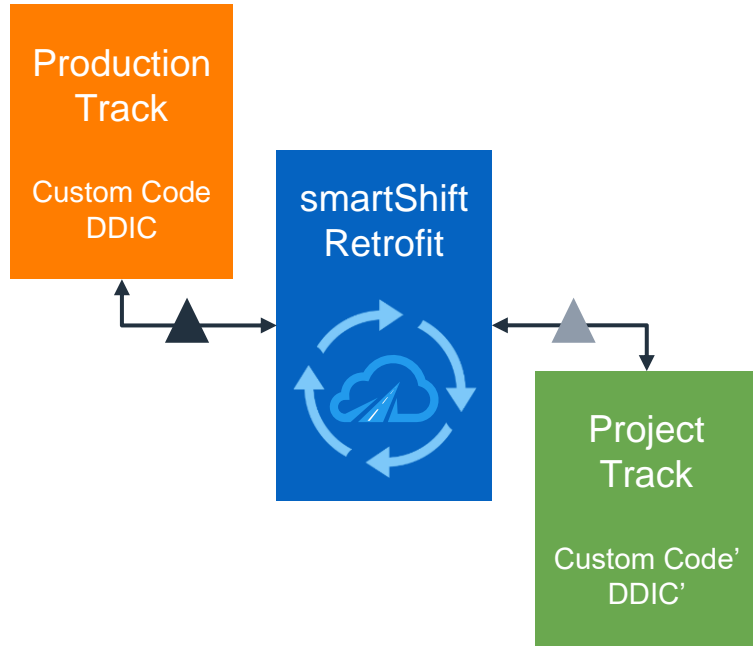


# Custom Code Transformation

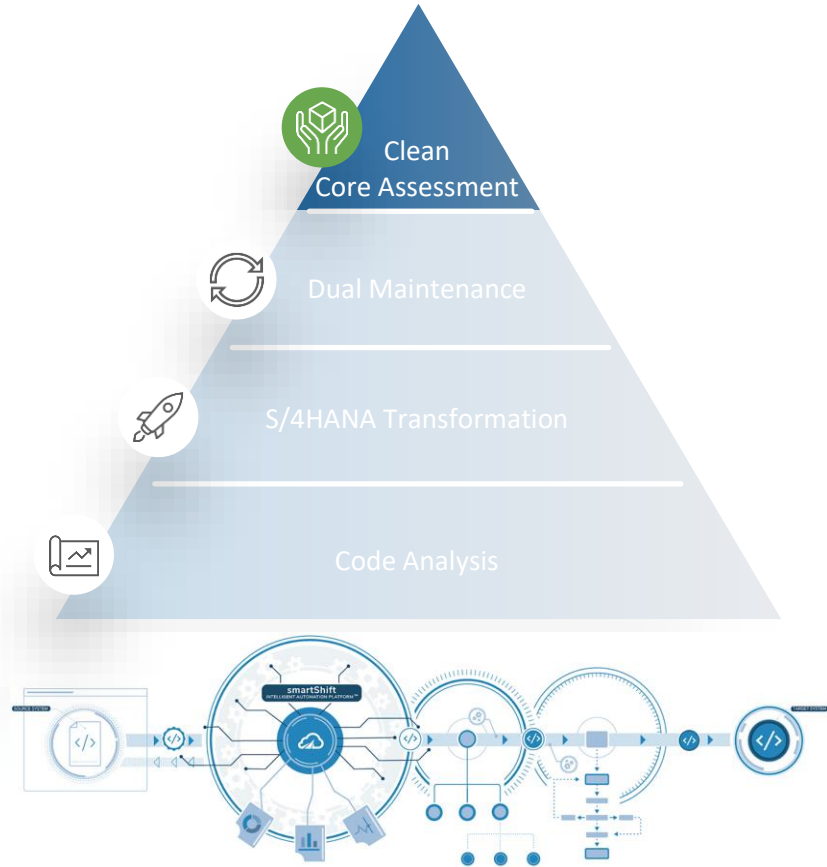
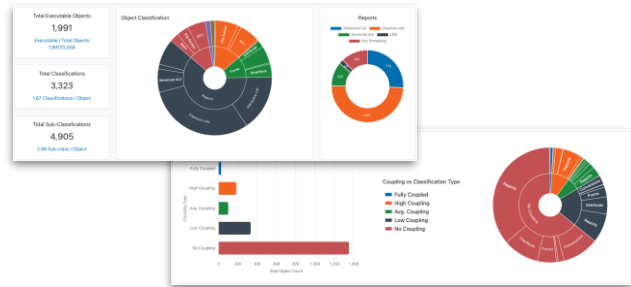
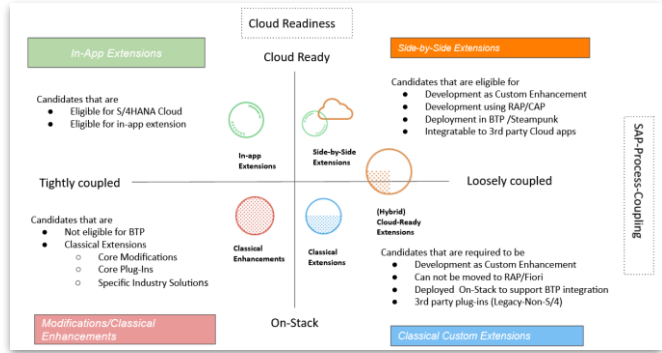




# Automated Dual Maintenance



# Clean Core Assessment



# Recent S/4HANA Customer Success

Trusted solutions for the largest SAP customers in the world



- S/4HANA migration factory for 80+ system landscape
- Automation for S/4HANA, security, standardization, and performance
- Agile, sprint methodology
- To date:
  - Over 60 projects completed
  - 10MM+ LoC, 100k+ objects remediated
  - Over 7MM EUR saved
  - MM of obsolete LoC safely decommissioned

**JABIL**

- ECC to S/4HANA
- 46K custom ABAP objects
- Dual Maintenance automated with smartShift Retrofit
  - Critical enabler of agile continuous development & test process



- Multi-wave ECC to S/4 rollout
- 42K custom ABAP objects / 3.5MM lines of code
- Transformation and optimization
- Selective data/carve-out approach
- Automated Dual Maintenance with smartShift Retrofit ensuring continuous alignment ECC to S/4HANA



- Automation for 200k custom ABAP objects. Manual approach not feasible.
- 9 system consolidation to 3 templates + S/4HANA conversion
- Strategic development partner
  - Automated Interface Identification
  - Dual Maintenance
  - Clean-Core Modernization

# Next Steps

Test drive our analysis capabilities

A free custom code health check to gain insight into your SAP modernization roadmap

