



Intelligent Automation for SAP Transformations

How Automation De-Risks Custom Code  
Modernization:

ASUG Research, Solutions, & Real-World Results

# About Me

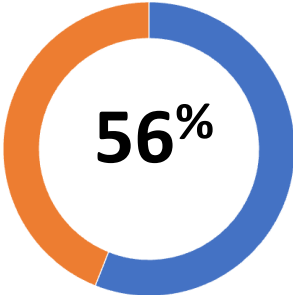
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Account Executive

[jnarinian@smartshift.com](mailto:jnarinian@smartshift.com)  
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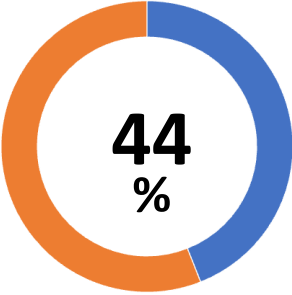


# Custom Code is Needed

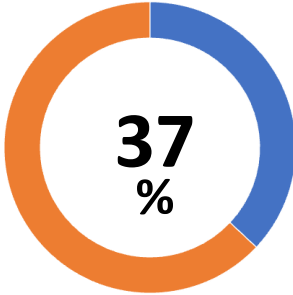
ASUG Research Findings



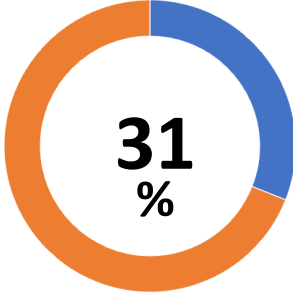
Industry specifics  
not covered by  
SAP Standard



Necessary to  
connect  
systems



Necessary  
due to  
regulatory  
requirements

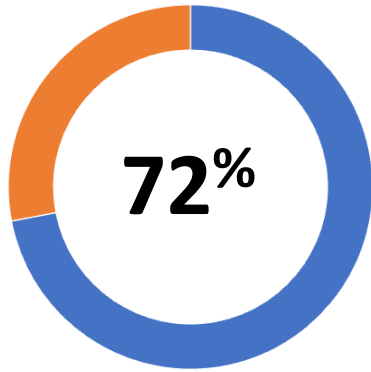


Essential  
due to localization  
or different  
geographies

Source: smartShift/ASUG Market Research

# Custom Code Remains Critical

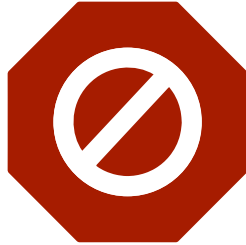
As customers upgrade their SAP systems, they'll need to remediate and transform their custom code



The majority of survey participants plan to retain their custom code as they proceed with upgrading to S/4HANA and beyond

Q. As your organization moves forward with SAP S/4HANA or other SAP system upgrades, how will your organization's custom code be handled? (Please select all that apply.) (n=177)

# Custom Code Presents Challenges for Modernization



Barrier to upgrading/  
migrating to a new  
SAP offering

**58%**



Difficulty finding expertise  
to maintain/enhance  
custom code

**37%**

Source: smartShift/ASUG Market Research

# Automation Offers Modernization Options



## Speed

**Accelerate** the transformation process by **minimizing the need for manual remediation**



## Confidence

Enhance the overall **quality, security, and stability** of the transformed code



## Productivity

**Eliminate** the need for **business disruption**



## Innovation

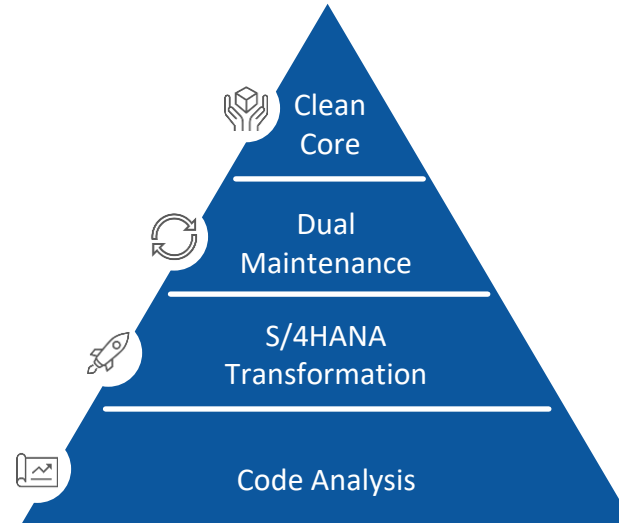
**Modernize** the system to be more **flexible, scalable, and agile**



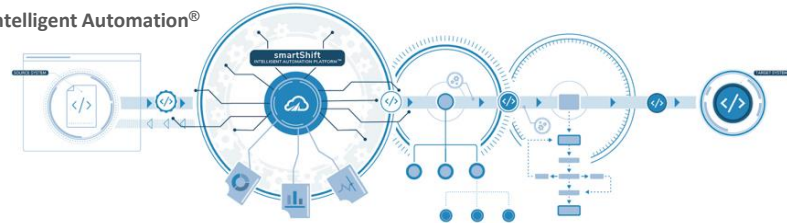
- The only Intelligent Automation for SAP Custom Code Transformations
- 11 Patents - 10+ years of SAP ABAP Research & Development
- 3000+ Successful SAP Transformation Projects
- 3.5+ Billion lines of Code Remediated with 99.99% Code Transformation Accuracy



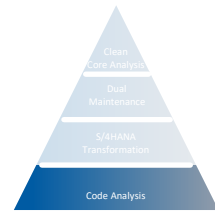
At smartShift, we develop and deliver automated solutions to accelerate business growth and de-risk the transformation of SAP custom code and applications.



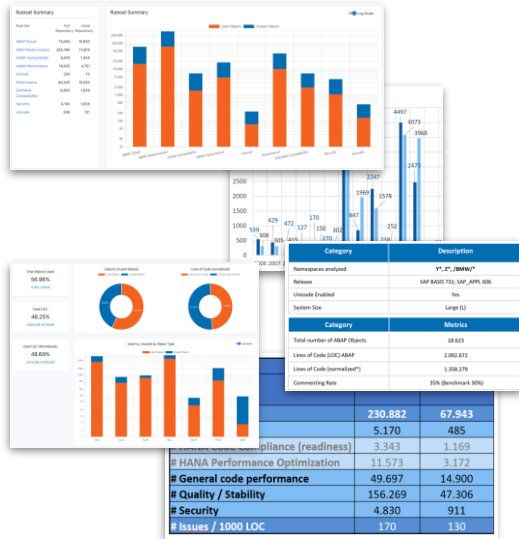
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# Code Analysis



## Code Analysis



### What it delivers:

- Complete ABAP repository analysis: HANA, S/4HANA, Unicode, Stability, Security, Usage, and Optimization (250+ intelligent rules)
- Landscape comparison analysis for each landscape
- Outputs: Code decommissioning insight, reporting of categorized issues, simplification insight, data-driven plan for realizing end-state

### Why it matters:

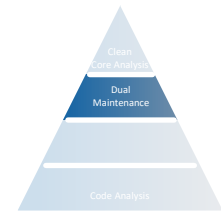
- De-risk w/data-driven planning. Know all changes for S/4HANA upfront & plan with confidence.
- Ensure version discrepancies between environments are identified and corrected.
- First step to realize guaranteed compatibility & comprehensive optimization of the code repository.

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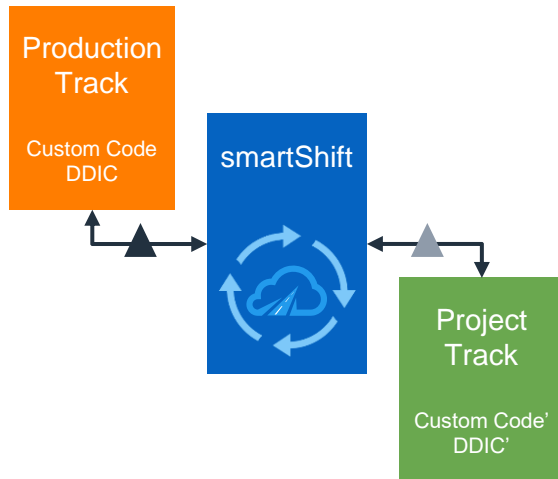




# Automated Dual Maintenance



## Dual Maintenance Automation



### What it delivers:

- Automated comparison, merge, and upgrade compatibility (e.g. ECC → S/4HANA) for ABAP & related DDIC
- Integration with change management (ChaRM, Active Control, Rev-Trac, etc.)
- Delivered to SLA committed cycle frequency & capacity
- Outputs: Merged, compliant code in transport in target, transports and issues processing reports, change management integration

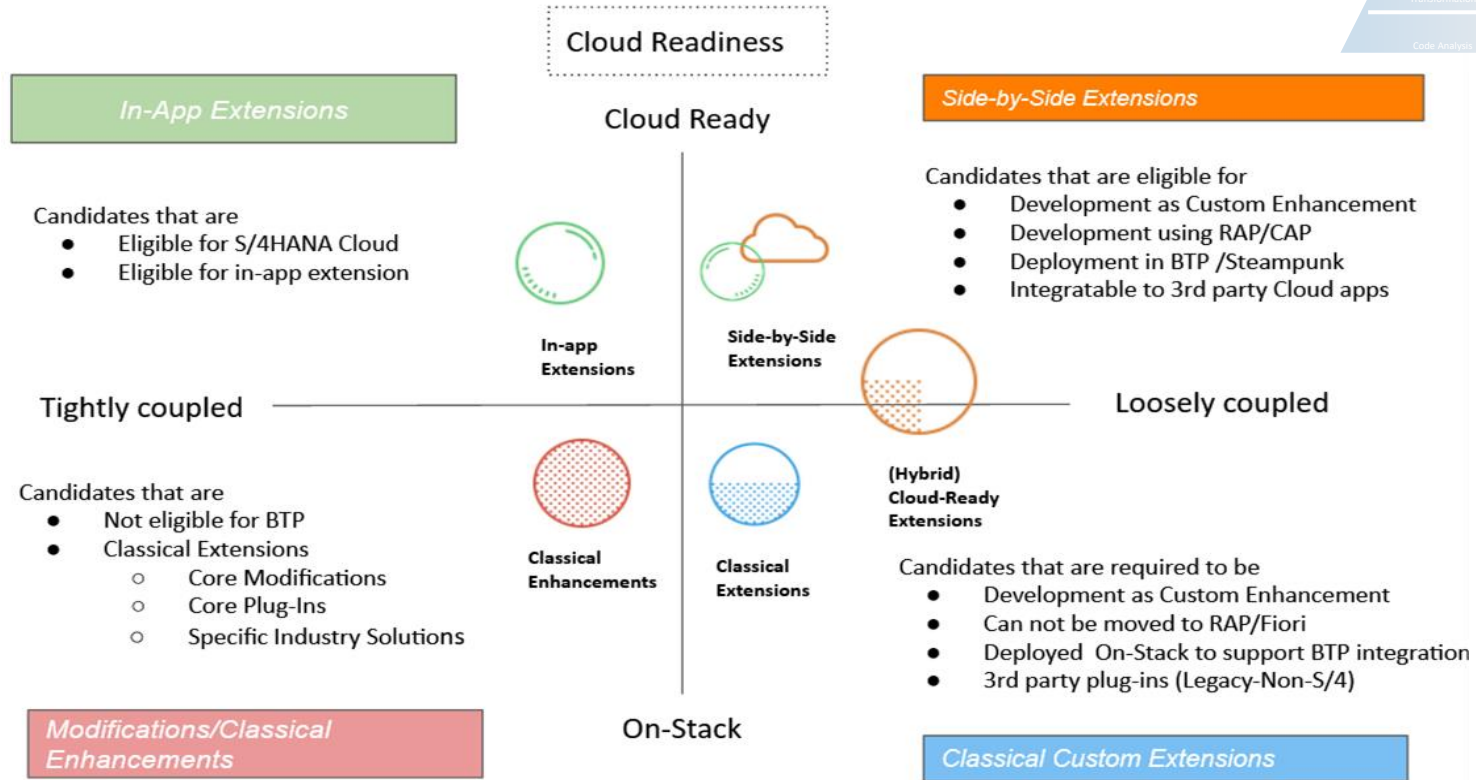
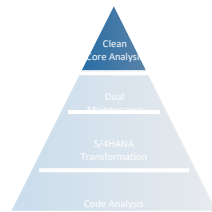
### Why it matters:

- Solves the difficult challenge of ABAP dual maintenance, especially for S/4HANA and complex scenarios
- Enables continued business agility and innovation - development restrictions, prolonged code freezes no longer necessary
- Protects development teams and maintains strategic focus
- Program timeline, quality, and risk managed

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# Clean Core Analysis

Informed feasibility, design, approach, and planning for application modernization.



# S/4HANA Customers

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-based methodology
- To date:
  - Over 60 projects completed
  - 10MM+ LoC, 100k+ objects remediated
  - Over 7MM EUR saved

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 EEC 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
  - App Modernization

# smartShift Overview - Global Customers



# smartShift Advantage

“smartShift works at industrial scale with virtually no errors. The defect rate is so low because they have automated everything and reduced the human touch as much as possible.”

**Dilip Kumar**

Global Supply Chain Platform Architect, Procter & Gamble



# Call to Action

Test drive our analysis capabilities

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



