



Intelligent Automation for SAP Transformations:

How Automation De-Risks Custom Code Modernization

About Me

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Account Executive

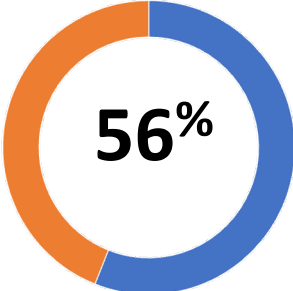
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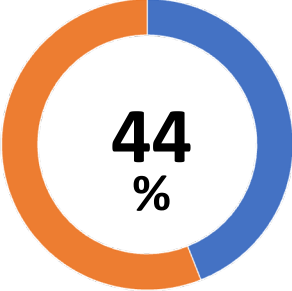


Custom Code is Needed

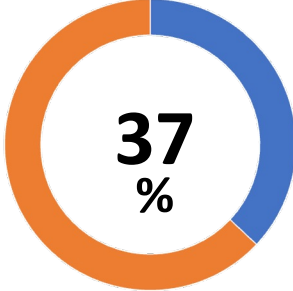
ASUG Research Findings



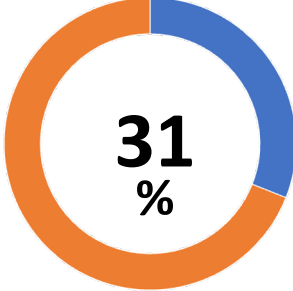
Industry specifics not covered by SAP Standard



Necessary to connect systems



Necessary due to regulatory requirements

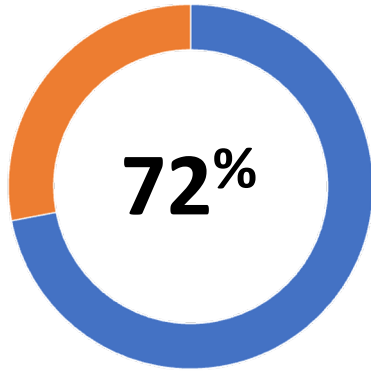


Essential due to localization or different geographies

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 – The Challenge

An “Average*” SAP System

22,000 Custom Objects
on average

Established **15+ years**
ago

2.7M Lines of Code on
average

Up to **2,000 monthly**
transports

40 - 60% custom applications
not used

1,000s of person days
technical debt

9,000 HANA compliance
problems on average

8,000 Security problems
on average

17,000 S/4HANA compliance
problems on average

15,000 Performance
problems on average

Monolithic, tightly coupled
applications



Hard to maintain, extend



Hard to modernize



Stability problems



Performance problems



Security problems



Slow Innovation

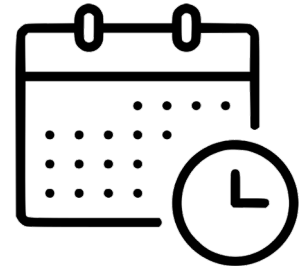


Higher TCO

*smartShift Benchmark

CONVENTIONAL APPROACH TO HANDLING CUSTOM CODE

Manual remediation with tool support is labor-intensive, time-consuming and risky



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

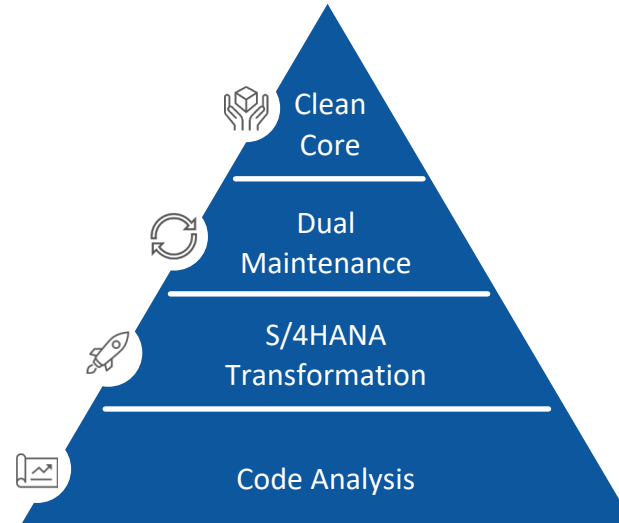
Modernize the system to be more **flexible, scalable, and agile**



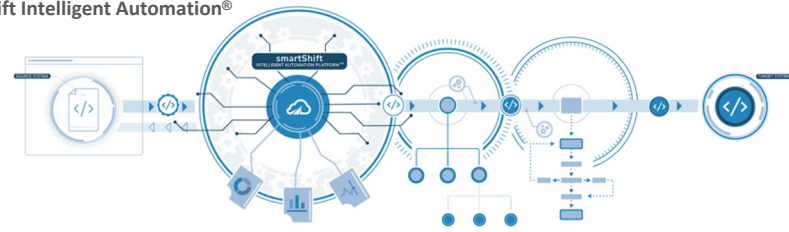
- The only Intelligent Automation for SAP Custom Code Transformations
- 11 Patents - 10+ years of SAP ABAP Research & Development
- 3300+ Successful SAP Transformation Projects
- 3.5+ Billion lines of Code Remediated with <0.01% Code Transformation Error Rates



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

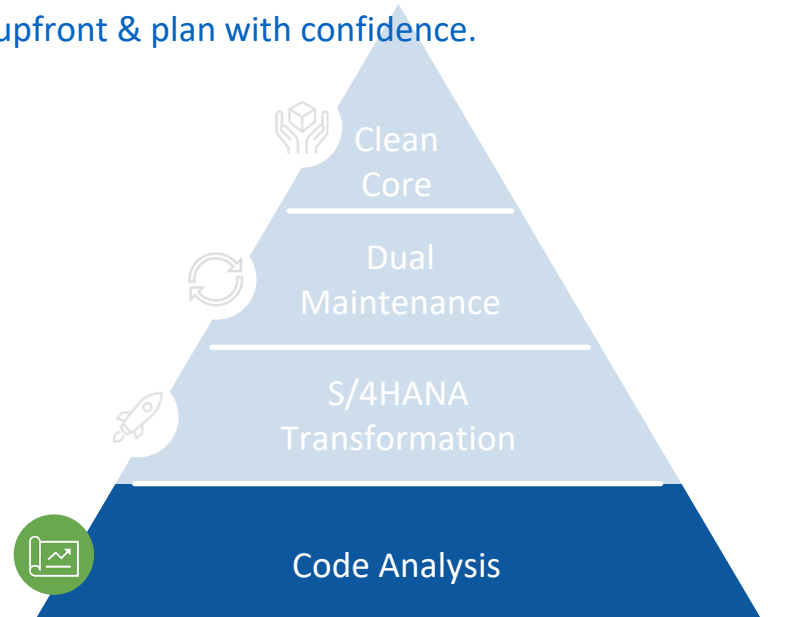


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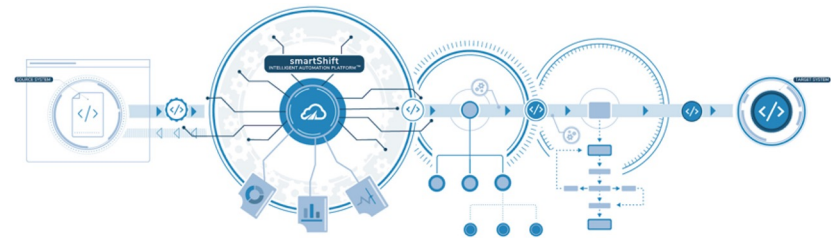


Custom Code Analysis

De-risk with data-driven planning. Know all changes for S/4 upfront & plan with confidence.



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Custom Code Transformation

Comprehensive transformation. Guaranteed quality - 1,000X better than manual approach.

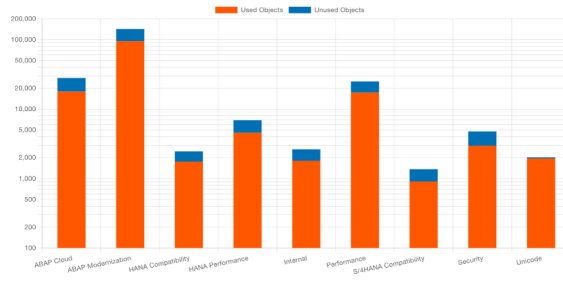
Ruleset Summary

Rule Set	All Objects	Used Objects
ABAP Cloud	28,082	17,906
ABAP Modernization	141,579	94,824
HANA Compatibility	2,463	1,757
HANA Performance	6,910	4,577
Internal	2,635	1,805
Performance	25,035	17,291
S/4HANA Compatibility	1,366	912
Security	4,780	2,974
Unicode	2,023	1,947

```

TABLES : bseg.
SELECT SINGLE *
FROM bseg
WHERE bukrs = '1'
AND belnr = '2'
AND gjahr = '3'
AND buzei = '4'.
    
```

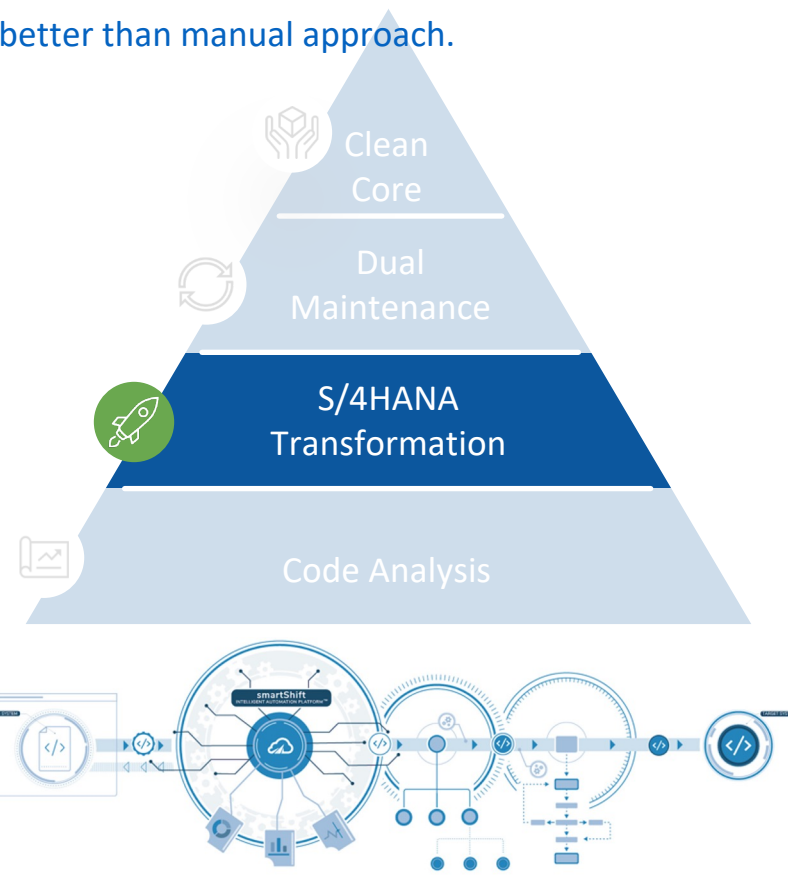
Ruleset Summary



```

TABLES : bseg.
DATA gt_fag_l_bseg_tmp TYPE fag_l_bseg.
*Smart: 633
*smart (E) - #633 Detected access to DB table BSEG. (A)

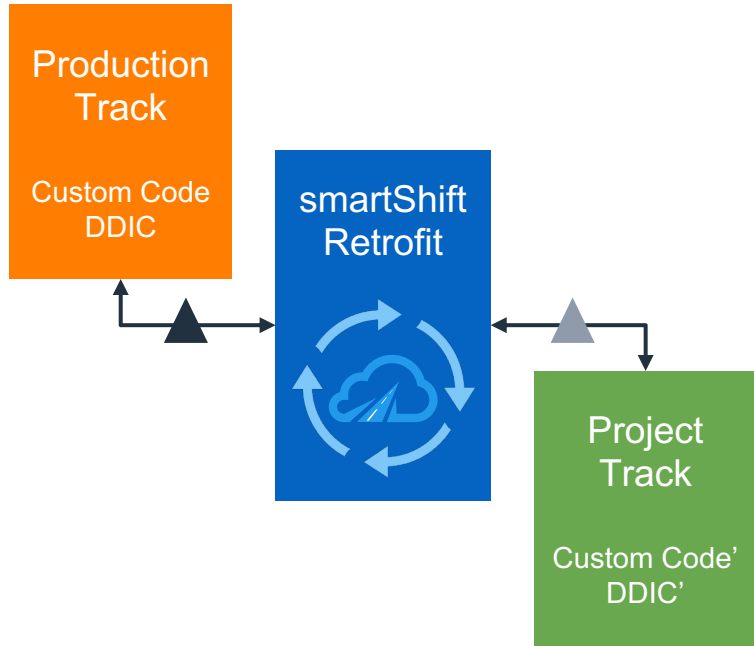
cl_fag_l_emu_cvrt_services->get_leading_ledger(
IMPORTING
ed_rldnr = DATA(gv_rldnr)
EXCEPTIONS
error = 4
others = 4 ).
IF sy-subrc = 0.
CALL FUNCTION 'FAG_GET_GL_DOCUMENT'
EXPORTING
l_rldnr = gv_rldnr
l_bukrs = '1'
l_belnr = '2'
l_gjahr = '3'
l_buzei = '4'
IMPORTING
et_bseg = gt_fag_l_bseg_tmp
EXCEPTIONS
no_found = 4
others = 4.
IF sy-subrc = 0 AND gt_fag_l_bseg_tmp IS NOT INITIAL.
bseg = gt_fag_l_bseg_tmp.
FREE gt_fag_l_bseg_tmp.
ENDIF.
*Smart: 633
    
```



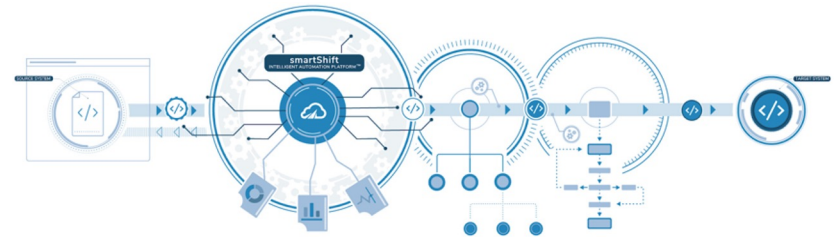
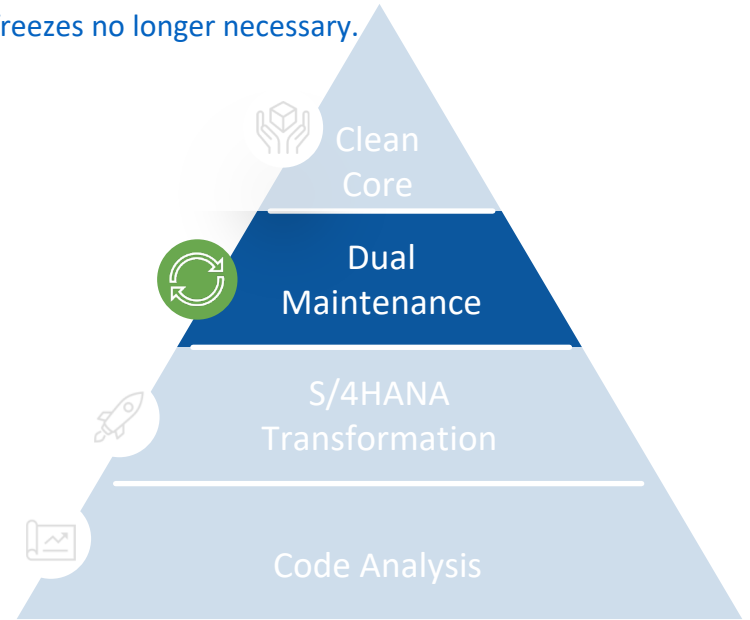
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Automated Dual Maintenance

Enables business agility & innovation. Dev restrictions, prolonged code freezes no longer necessary.

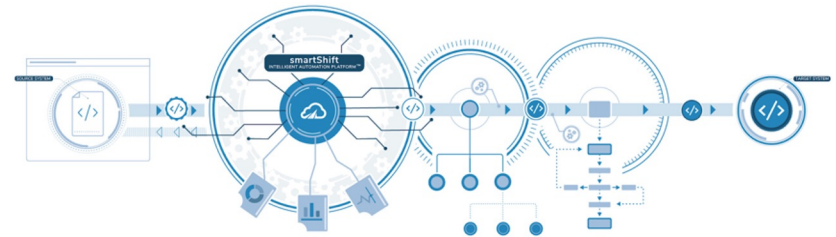
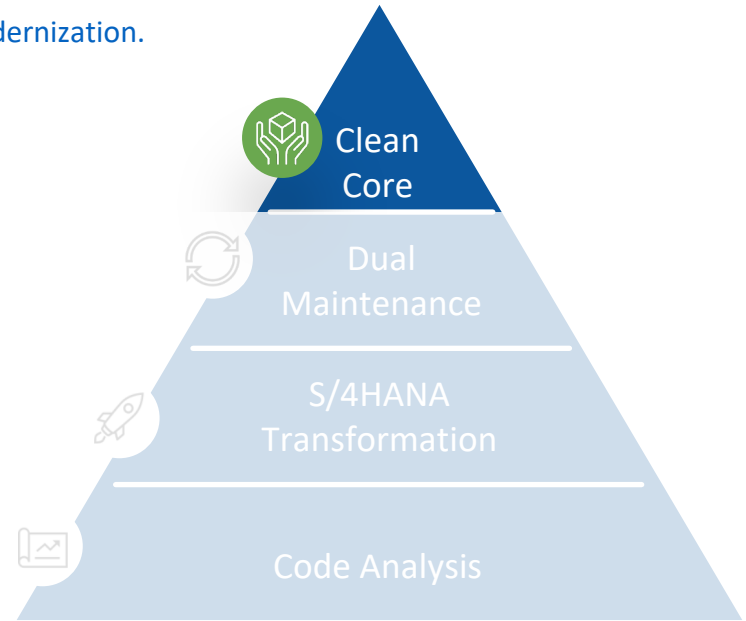
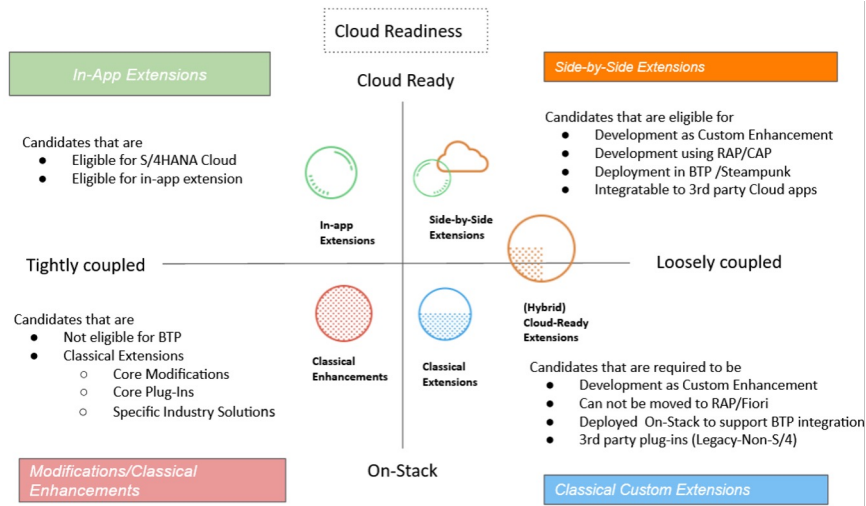


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Clean Core Assessment

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



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smartShift Overview - Global Customers



Recent S/4HANA Customer Success

Trusted solutions for the largest SAP customers in the world - just like you



- 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/4HANA 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

Better Together

Test drive our analysis capabilities

A complimentary rapid code analysis to gain insight into your SAP modernization roadmap





