



Intelligent Automation for SAP Transformations

How Automation De-Risks Custom Code  
Modernization:

ASUG Research, Solutions, & Real-World Results

# About Me

**Caitlin Christopher**

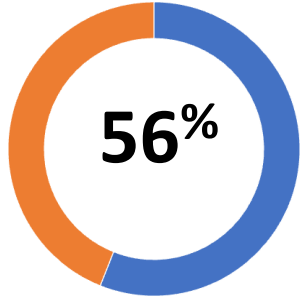
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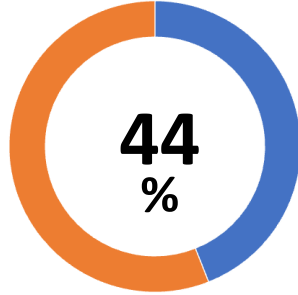


# Custom Code is Needed

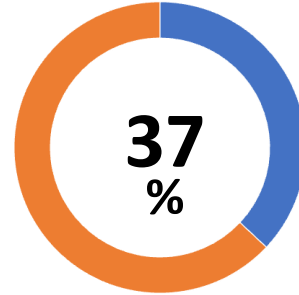
ASUG Research Findings



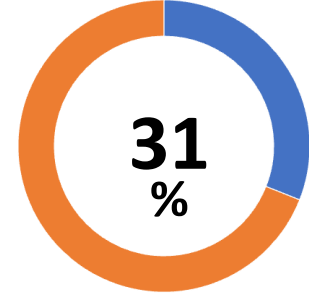
Industry specifics  
not covered by  
SAP Standard



Necessary to  
connect  
systems



Necessary  
due to  
regulatory  
requirements

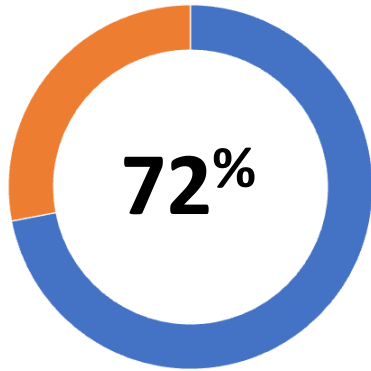


Essential  
due to localization  
or different  
geographies

Source: smartShift/ASUG Market Research

# Custom Code Remains Critical

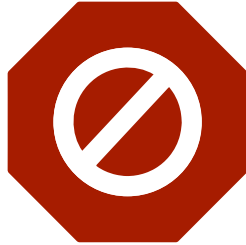
As customers upgrade their SAP systems, they'll need to remediate and transform their custom code



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

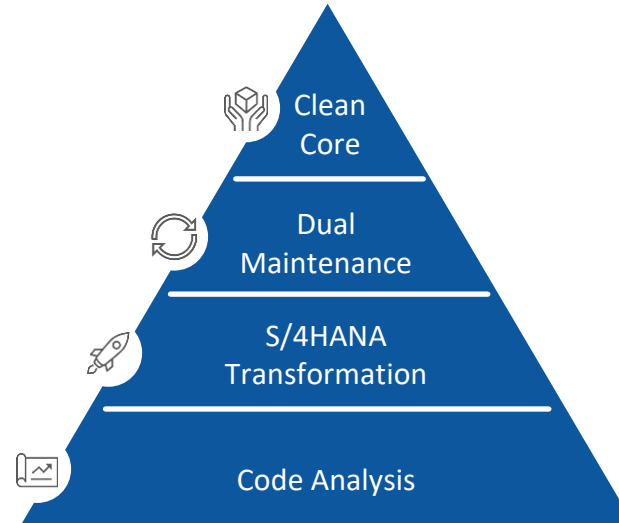
**Modernize** the system to be more **flexible, scalable, and agile**



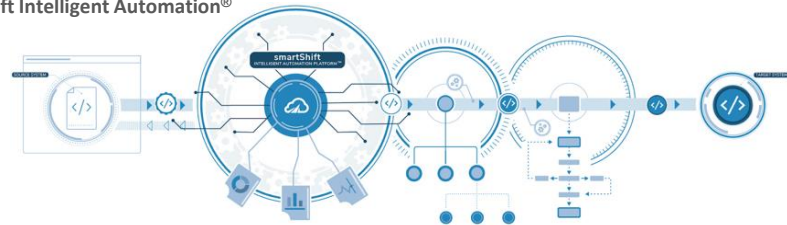
- The only Intelligent Automation for SAP Custom Code Transformations
- 11 Patents - 10+ years of SAP ABAP Research & Development
- 1000+ Successful SAP Transformation Projects
- 2.5+ Billion lines of Code Remediated with <0.01% Code Transformation Error Rates



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

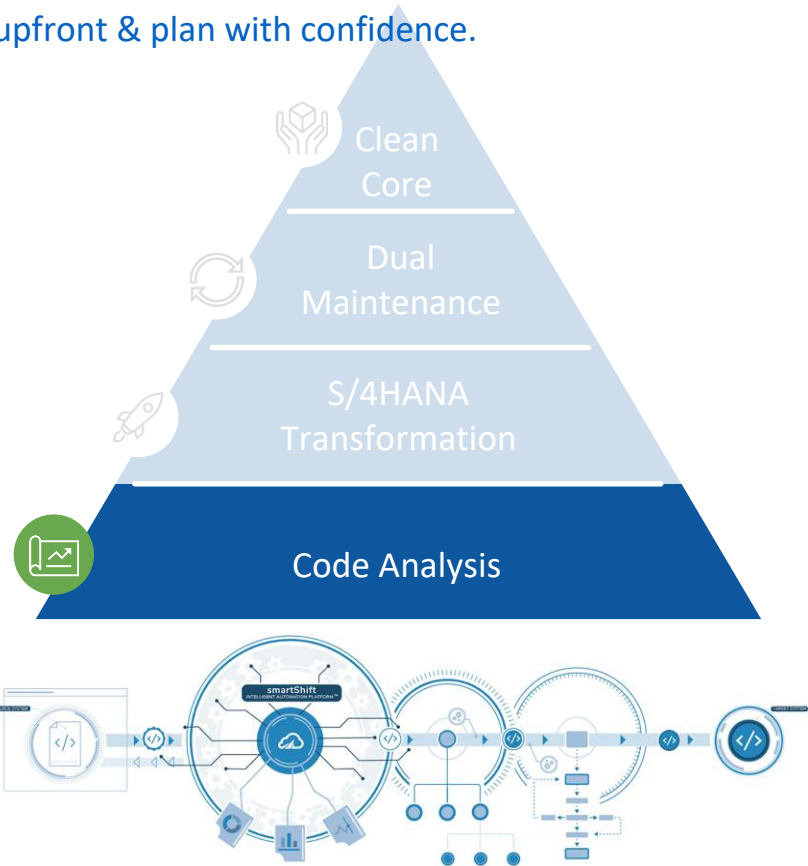


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# Custom Code Analysis

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



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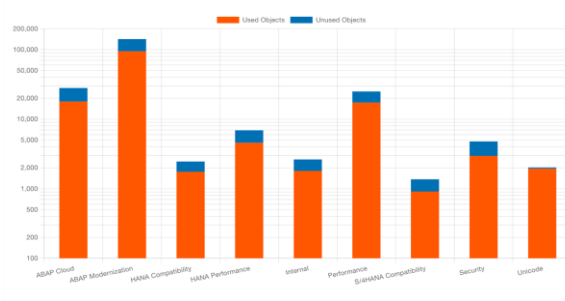
# Custom Code Transformation

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

Ruleset Summary



```

TABLES : bseg.
DATA gt_fag_l_bseg_tmp TYPE fag_l_bseg.
*smart (E) - #633 Detected access to DB table BSEG. (A)
c_l_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 'FAGL_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
  not_found = 4
  others = 4.
IF sy-subrc = 0 AND gt_fag_l_bseg_tmp IS NOT INITIAL.
  BSEG = gt_fag_l_bseg_tmp[ 1 ].
  FREE gt_fag_l_bseg_tmp.
ENDIF.
    
```

```

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



Clean Core



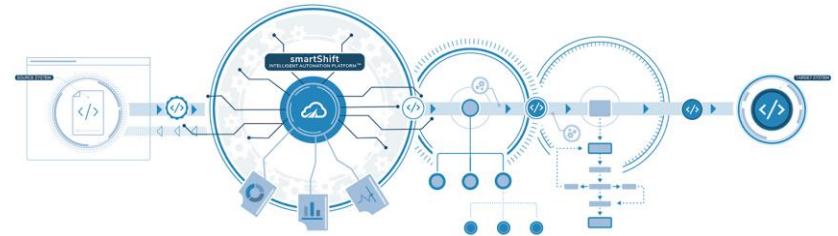
Dual Maintenance



S/4HANA Transformation



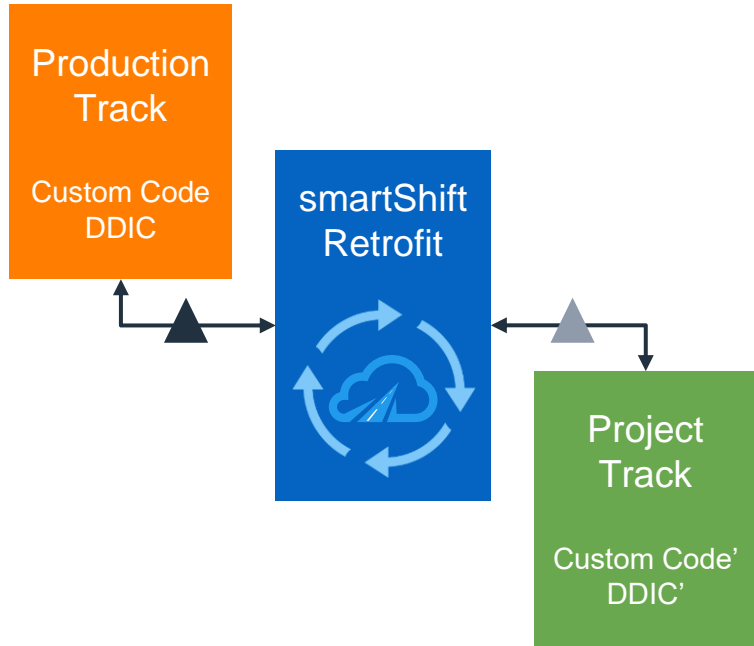
Code Analysis



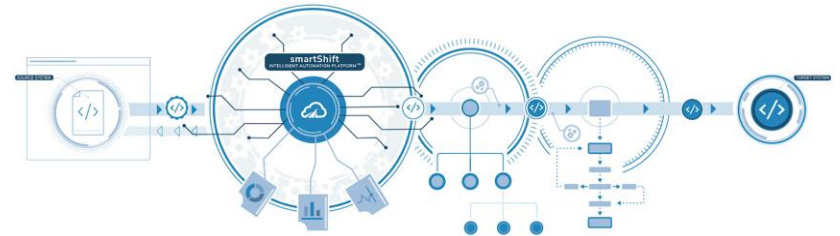
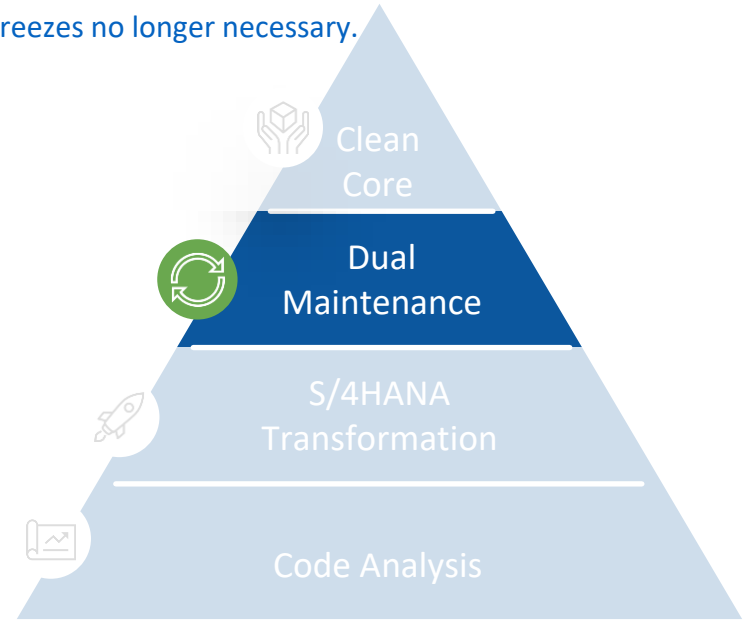
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# Automated Dual Maintenance

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

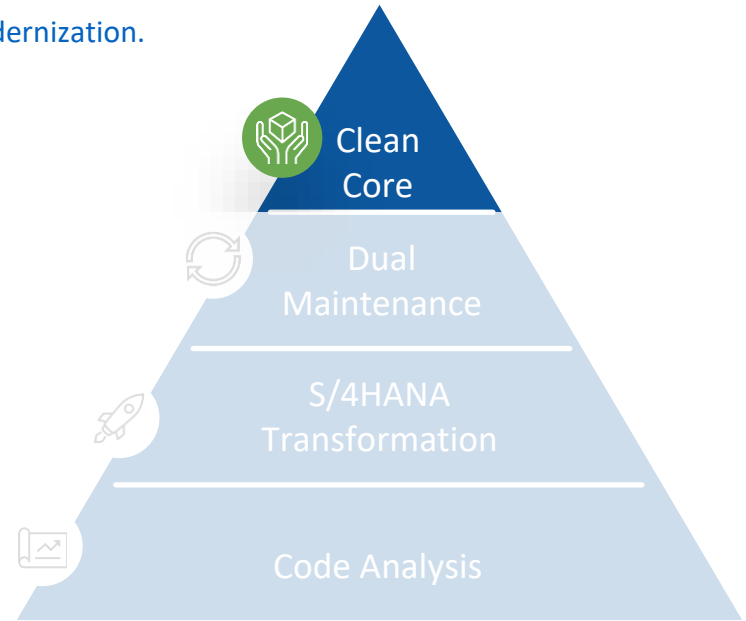
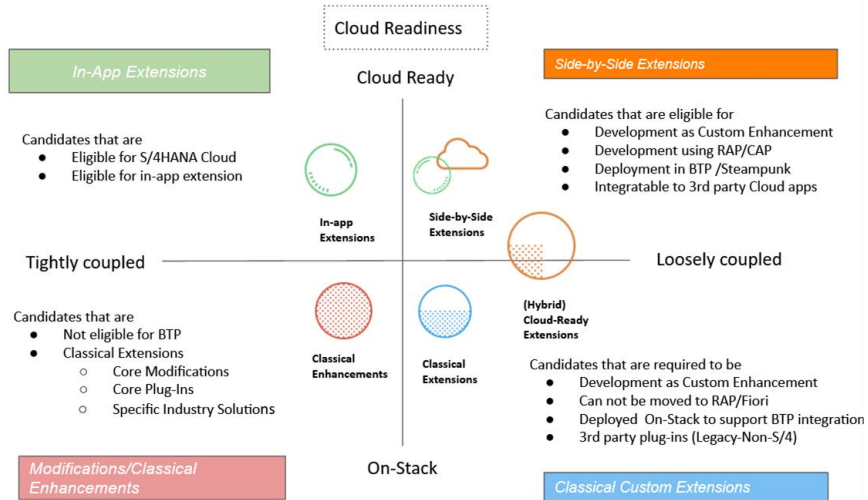


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# Clean Core Assessment

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



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# smartShift Overview - Global Customers



# 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



# Next Steps

Test drive our analysis capabilities

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



