HCL's SAP HANASmart™

Achieve a cleaner SAP S/4HANA digital core

Reduce custom code adaptation by 25 to 55% during your move to SAP S/4 HANA

Like most SAP clients, it's likely that you don't use more than 50% of your current customizations – so why would you pay 25 – 55% more in effort and cost to move this code to SAP S/4HANA?Your decision to move to SAP S/4HANA was likely driven by a need for agility, scalability, and the competitive advantages of adopting a clean digital core. Yet your existing code customizations were designed for the old SAP infrastructure - not to leverage SAP HANA's in-memory technology, SAP S/4HANA's simplified data model, or the microservices architecture made possible by Cloud PaaS.

Retaining all of this custom code will not only increase the cost of your conversion – it will also drive up the costs of future upgrades.

How HCL's HANASmart™ helps enable the Intelligent Enterprise

HCL has developed a proprietary Blu-Thinking® Framework leveraging HANASmart™ to handle the migration of custom objects optimally for SAP S/4HANA. The basic idea behind the Blu-Thinking® Framework is to preserve the digital core by keeping only those objects that add business value, and then to architect them per SAP best practices.

The Blu-Thinking® approach is applicable to both Greenfield (re-implementation) & Brownfield (Technical Conversion) scenarios.

Introducing HCL's HANASmart™ - The only custom code disposition & benchmarking tool in the market

We designed HANASmart™ to help clients save on their ECC to S/4 conversions through custom code remediation – a process that can also help drive long-term savings on future upgrade costs.

Unlike other code analysis tools on the market, only HCL's HANASmart™ toolset and associated framework benchmarks your custom codebase against peers and obtains a disposition of custom objects. To help you achieve a clean digital core, it also identifies which objects can be simplified as In-app extensions on SAP S/4HANA or redesigned as cloud extensions.

How it works

HANASmart™ measures your code complexity, volatility, performance, usage, and its tightly-coupled nature to the SAP core. It then organizes your custom code into the following categories by process area – Retain, Retire, Redesign. This analysis also provides the data you need to understand the true impact of SAP S/4HANA's simplified data model on the custom code by removing false positives and identifying the impacted, executable RICEFW objects for testing.

HANASmart™ can be deployed at any point during your SAP S/4HANA journey - whether your move to SAP S/4HANA is just in the planning stages, or you have already started your project.

It delivers:

1
2
3
4
5

1 Custom code benchmarking

2 Custom object disposition across process areas (Retire, Retain, Refactor) and In-app vs cloud extensions

3 SAP S/4HANA adaptation analysis and estimation Identifies adaptations required for SAP S/4HANA's simplified data model, relevant test cases, and effort estimation for code remediation and testing. Adheres to SAP S/4HANA Cloud Extended edition coding guidelines

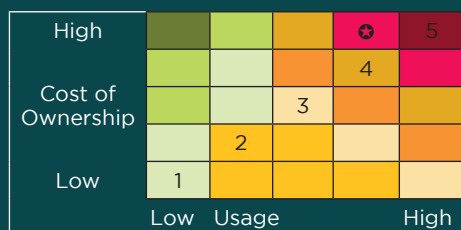**4** Detailed Analysis of Custom Objects (RICEFWs) – Inventory, Usage, Performance, Complexity, Volatility

5 Simplified reporting – Through intuitive and configurable dashboards.

HANASmart™ - Custom object disposition framework

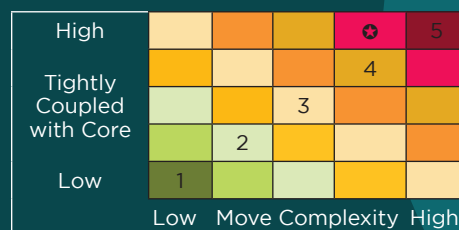| Attributes of Custom Objects		
Total Cost of Ownership	**Tightly Coupled with Core**	**Move Complexity to Cloud Platform**
Performance	Standard SAP Objects and Tables used	UI Requirements
Complexity	Security Objects used	Custom Objects and Tables Used
Volatility	Form Output	Data Volume Exchange.
	User exit	Usage
	Bolt-on or Integration Component	

Disposition

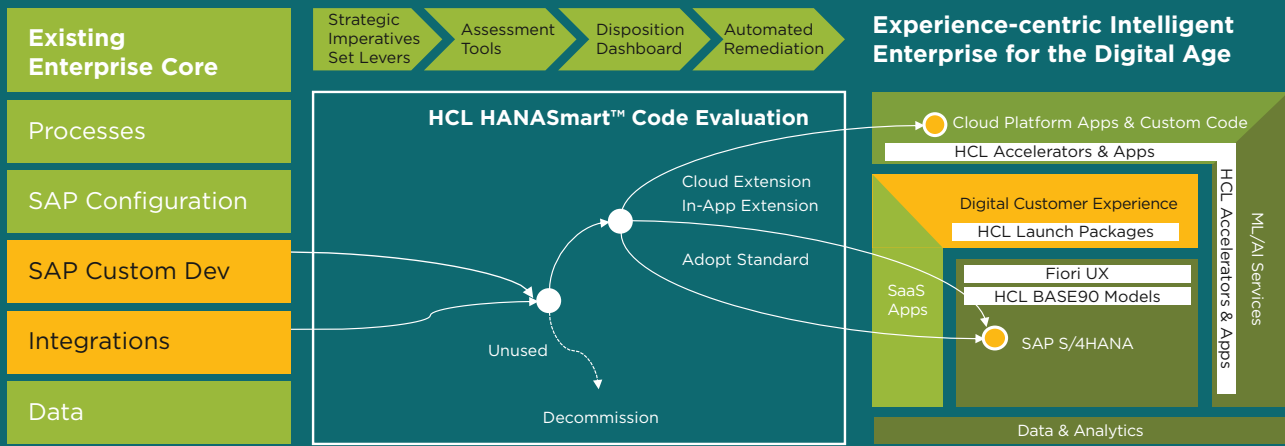Step 1 Retain vs Redesign vs Retire

Orange ~ Reds = Refactor / Redesign

Yellow ~ Pink = Retain

Greens = Retire / Adopt Standard

Move Complexity

Step 2 – Cloud Platform Extension vs In App Extension

Orange ~ Reds = In App Extenstions

Yellow ~ Pink = Redesign / Refactor as part of move to Cloud

Greens = Cloud Extensions

| Existing Enterprise Core | Strategic Imperatives Set Levers → Assessment Tools → Disposition Dashboard → Automated Remediation | **Experience-centric Intelligent Enterprise for the Digital Age** |

HCL HANASmart™ Code Evaluation

- Cloud Extension / In-App Extension
- Adopt Standard
- Unused
- Decommission

Cloud Platform Apps & Custom Code
HCL Accelerators & Apps
Digital Customer Experience
HCL Launch Packages
Fiori UX
HCL BASE90 Models
SAP S/4HANA
SaaS Apps
HCL Accelerators & Apps
ML/AI Services
Data & Analytics

Processes
SAP Configuration
SAP Custom Dev
Integrations
Data

HANASmart™ capabilities complement SAP tools to adopt a clean Digital Core – with minimal customization

HCL Tools

- Code disposition based on Usage, Total Cost of Ownership (TCO), tightly- coupled nature and move complexity to cloud
- Automatic adaptation of custom code for certain findings for HANA database

SAP Tools

- Custom code quality and fitment for HANA database
- Custom code usage and performance measurement
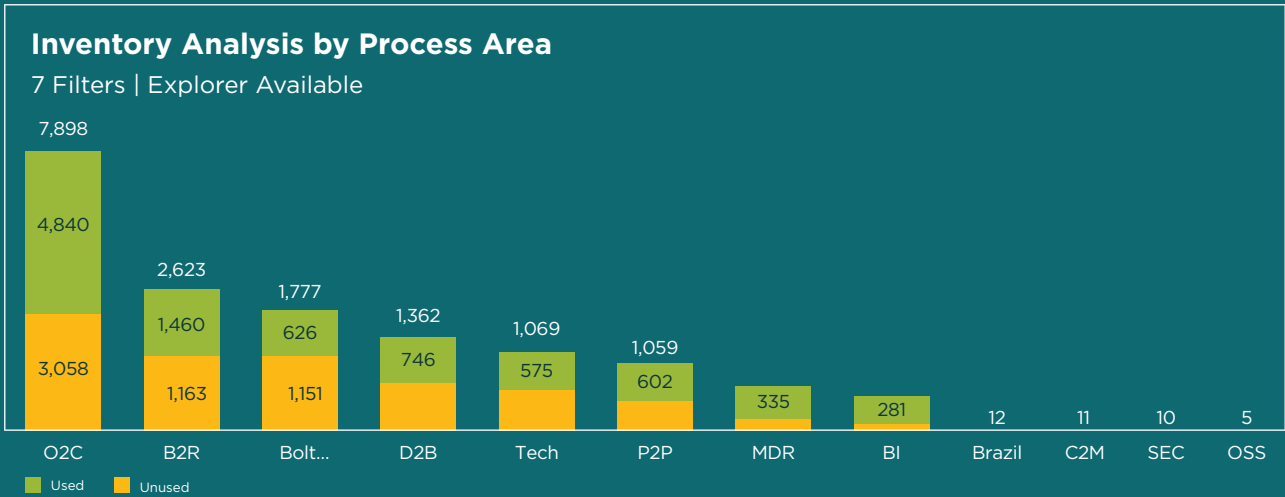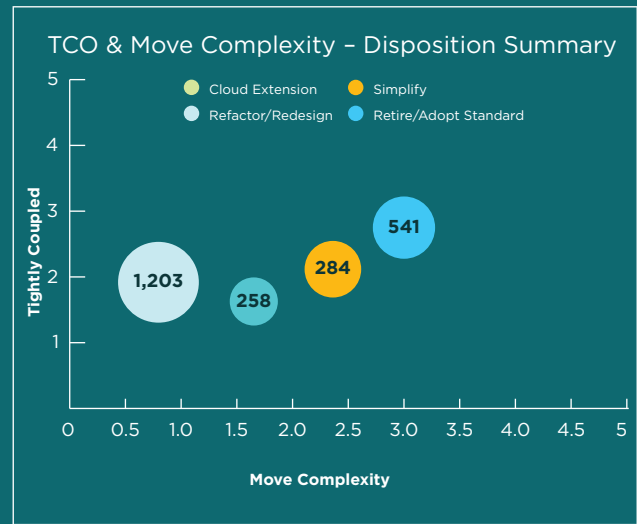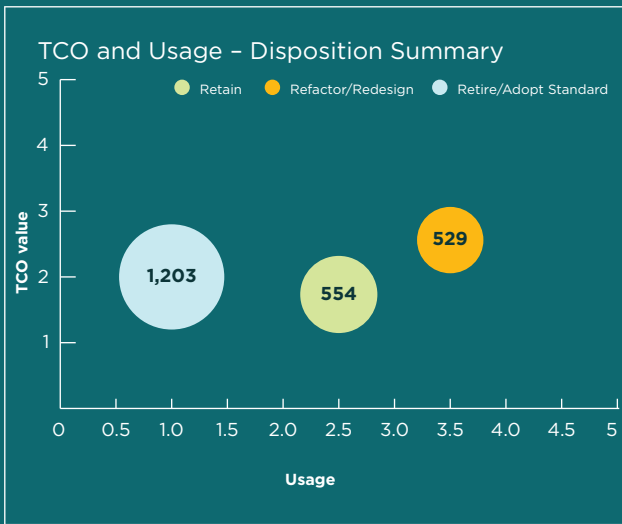- Relevance of simplification items against custom code

Timelines & pricing

Phase	Activities	Duration
Prep	Tool installation	2 weeks
	Record Usage and Performance Logs	
	Tool execution	
	Extract output and enable dashboards	
Analyze	Discovery sessions – Present initial tool output	3 weeks
	Code Disposition Analysis	
Recommend	Present final report with benchmarks and recommendations	2 weeks

Service Fee – USD 25,000 Fixed Price.

Pre-Requisites

1) Checked System – SAP NetWeaver (SAP_BASIS) 7.40 AS ABAP

2) Evaluation System (for SAP S/4HANA Simplification Analysis) - SAP NetWeaver (SAP_BASIS) 7.52 (HCL Labs system can be used

TCO and Usage – Disposition Summary

Legend: ● Retain ● Refactor/Redesign ● Retire/Adopt Standard

TCO value (y-axis: 1–5), Usage (x-axis: 0–5)

- 1,203 (Retire/Adopt Standard)
- 554 (Retain)
- 529 (Refactor/Redesign)

TCO & Move Complexity – Disposition Summary

Legend: ● Cloud Extension ● Simplify ● Refactor/Redesign ● Retire/Adopt Standard

Tightly Coupled (y-axis: 1–5), Move Complexity (x-axis: 0–5)

- 1,203 (Refactor/Redesign)
- 258 (Retire/Adopt Standard)
- 284 (Simplify)
- 541 (Retire/Adopt Standard)

Inventory Analysis by Process Area

7 Filters | Explorer Available

Process Area	Total	Used	Unused
O2C	7,898	4,840	3,058
B2R	2,623	1,460	1,163
Bolt...	1,777	626	1,151
D2B	1,362	746	575
Tech	1,069	—	575
P2P	1,059	—	602
MDR	—	—	335
BI	—	—	281
Brazil	12		
C2M	11		
SEC	10		
OSS	5		

Legend: ● Used ● Unused

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