

3 Year Total Cost of Ownership (TCO) Assessment

AWS vs Intel Repatriation

Disclaimer

This report is confidential and is provided for informational purposes only. Precision IT, Inc. and/or is not responsible for any damages related to the information in this report, which is provided "as is" without warranty of any kind, whether express, implied, or statutory. Nothing in this report creates any warranties or representations from Precision IT, Inc. and/or , its affiliates, suppliers or licensors.

Executive Summary

This report provides a 3 year total cost of ownership (TCO) assessment for the AWS EC2 environment. The analysis compares the existing environment to 1 target environment using industry-standard and user-customized inputs and assumptions. This assessment measures long-term cost efficiency, licensing impact, and infrastructure support requirements.

The results identify the **Intel Repatriation environment** as the most cost-effective option, delivering the greatest financial advantage among all evaluated options. This report is intended to support IT and procurement stakeholders in making informed infrastructure decisions by providing a clear financial comparison of available pathways.

Intel Repatriation Best

\$978,997
3 year TCO Reduction

36%
Expense Reduction

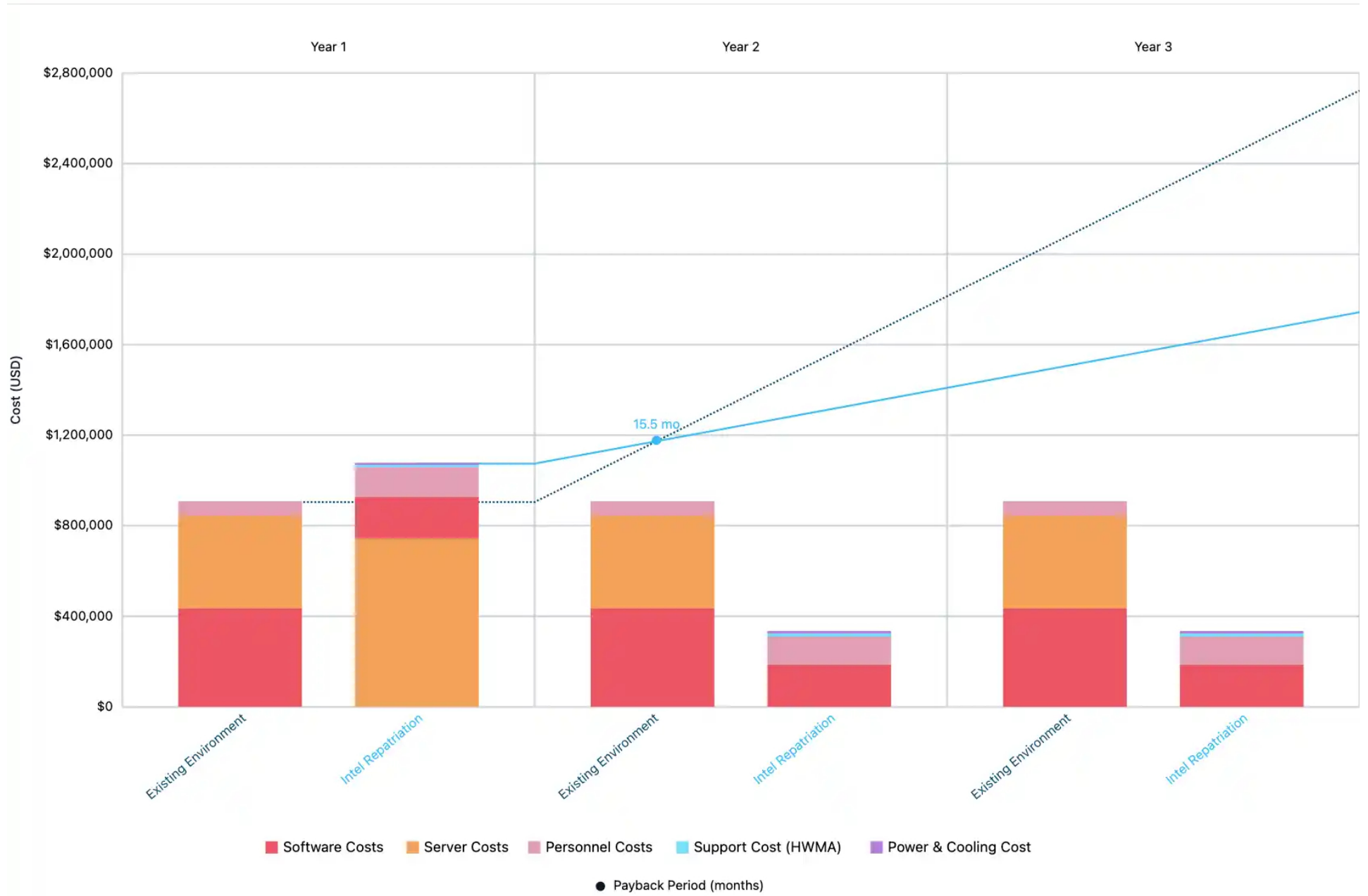
56%
ROI

Savings by Category



■ Server Costs ■ Software Costs

Costs Timeline



Analysis Details

Description	Existing Environment	Intel Repatriation Best
Infrastructure Details		
Number of Servers	40	12
Server Specifications	Various	Intel Xeon 6732P / 3.8 GHz / 32 cores [1x32c]
Total CPUs	NA	12
Total Cores	920	384
CPM @ 50%	1,227.7	1,287.6
Memory @ 100%	11,200 GiB	11,520 GiB
Carbon Emissions (CO ₂ e)	NA	86,591 KG
Overall Costs		
Server Costs	\$1,223,413	\$743,983
Support Cost (HWMA)	NA	\$44,639
Power & Cooling Cost	NA	\$33,491
Personnel Costs	\$189,630	\$377,340
Software Costs		
IBM Websphere Application Server	\$1,313,760	\$548,352
TCO Financials		
Cost Reduction	NA	\$978,997
Expense Reduction	NA	36%
ROI %	NA	56%
Payback Period	NA	15.5 months
3 Year Total Cost of Ownership	\$2,726,803	\$1,747,806

Intel Repatriation - Environment Details

	Existing Environment	Intel Repatriation	Net Change
Environment Overview			
Infrastructure Summary			
Number of Servers	40	12	-28
Total CPUs	NA	12	NA
Total Cores	920	384	-536
Total CPM	2,455.5	2,575.2	+119.7
CPM @ Util %	1,227.7 @ 50%	1,287.6 @ 50%	+59.9
Memory @ 100%	11,200 GiB	11,520 GiB	+320 GiB
Environment Costs			
Personnel Costs	\$189,630	\$377,340	+\$187,710
Total	\$189,630	\$377,340	+\$187,710
Environmental Factors			
Kilowatt-hour Consumption (kWh)	NA	223,275	NA
Cost per kWh	NA	\$0.15	NA
Power Usage Effectiveness (PUE)	NA	1.5	NA
Carbon Emissions (CO ₂ e)	NA	86,591 KG	NA
kWh to CO ₂ e	NA	0.388	NA
Intel 6th Gen Costs			
Infrastructure Costs			
Server Specifications	Various	Intel Xeon 6732P / 3.8 GHz / 32 cores [1x32c]	
Region	us-east-1	NA	
Purchase Method	EC2 Instance Savings Plan / 3 year / No Upfront	NA	
Server Costs	\$1,223,413	\$743,983	-\$479,430
Support Cost (HWMA)	NA	\$44,639	+\$44,639
Power & Cooling Cost	NA	\$33,491	+\$33,491
Software Costs			
IBM Websphere Application Server	\$1,313,760	\$548,352	-\$765,408
Total	\$2,537,173	\$1,370,466	-\$1,166,707