# A Fortune 500 Semi-conductor Manufacturer - Enabling EDA Migration On Cloud

## About Customer

A Dutch Fortune 500 multi-national semiconductor manufacturer with headquarters in Eindhoven, Netherlands was looking for partner to migrate their existing data centers completely on Cloud.

## Key Challenges

- Fluctuating needs for compute & storage, to accommodate peaks in design and simulation process.
- Cloud cost optimization while moving workloads on cloud and effective forecast management of infrastructure resources.

## Key Differentiators

- **Discovery Approach** - Successful completion of Due-Diligence highlighting the pain areas and tangible benefits of implementing Wipro Nuage solution.
- **Solution, Experience & Technical Strength** - Built Trust & Confidence by demonstrating Technical competency and domain experience.
- **Technical Readiness** for seamless and frictionless integration of Nuage to client’s environment for workload submission.
- **Flexibility** - Structured and customized the scope, role & responsibilities as per customer expectations.

## Key Benefits

- **Integrated Processes** - Tools integrated with organizational tools, policies and processes making for a seamless and frictionless adoption
- **Automated Integration** - No manual intervention to integrate various in-house tools, eliminating errors
- **Efficient and Scalable** - As new tools, instances, server types, and versions get added, the tool learns and can scale and optimize effectively and efficiently
- **Cost Optimization** - Automated optimal selection of servers. Automatic use of spot instances when appropriate.
Workload Migration for Fortune 500 Semiconductor

**Discovery**
- Identify resource intensive processes representative of a big mass of client project

**Proof of Concept**
- Demonstrate value in the identified projects
- Memory intensive IP project
- Project flow for ASIC

**Workload Migration**
- Setup a process to onboard projects and migrate workloads for optimized resource usage

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**Will resources be more “Predictable”?**

<table>
<thead>
<tr>
<th>Adjusted R²</th>
<th>Metric For Error</th>
<th>Predicted Vs Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.98</td>
<td>301 MB</td>
<td></td>
</tr>
</tbody>
</table>

**Will this provide “Tangible Benefits”?**

<table>
<thead>
<tr>
<th>Queue time</th>
<th>Memory</th>
<th>Cores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre Nuage</td>
<td>7.12</td>
<td>25,870</td>
</tr>
<tr>
<td>With Nuage</td>
<td>2.19</td>
<td>22,164</td>
</tr>
<tr>
<td>Pre Nuage</td>
<td>19,638</td>
<td></td>
</tr>
<tr>
<td>With Nuage</td>
<td>19,638</td>
<td></td>
</tr>
</tbody>
</table>

- **Adjusted R²**
- **Memory**: 214,714 Pre Nuage, 19,638 With Nuage
- **Cores**: 25,870 Pre Nuage, 22,164 With Nuage

**Demonstrated Cost Savings**: 70%