

# Capgemini Smart Asset Management Solution

**Improve your Return on Assets (ROA)**



 **INSIGHTS & DATA**

Capgemini Smart Asset Management is a Business Analytics solution that provides 360 degree view into asset performance.

The solution allows better tracking and efficient management of the assets that are critical to organizational success.

## The challenges for organizational asset management

Global enterprises face a number of challenges in managing their assets, such as physical location, usage, configuration, and dependencies that exist within the organization. To efficiently manage assets, it is important to consider these activities:

- Cost control
- Asset protection
- Optimization and consolidation efforts
- Compliance
- Operational requirements such as support, information security, business continuity, configuration management, and change management.

Organizations need to adopt a proactive strategy, which will help them predict asset failure and take appropriate actions for improved asset management.

### Key asset management questions to resolve to achieve improved performance

- *What is the current state of my organization assets*
- *What are the lifecycle costs for asset maintenance*
- *Are my business operations standards and regulations compliant*
- *What is the required sustainable level of service*
- *Which is the preferred long term funding strategy*
- *What are the labor utilization levels*
- *Which assets are critical for sustained performance*
- *What are the current SLA adherence percentages?*

### Capgemini Smart Asset Management – Business Analytics solution providing 360 degree view into asset performance

Capgemini Smart Asset Management solution provides you with an integrated view of assets, and their performance to help increase ROA and extend useful life of an asset. The solution allows better tracking and efficient management of the key assets that are critical to your organizational success.

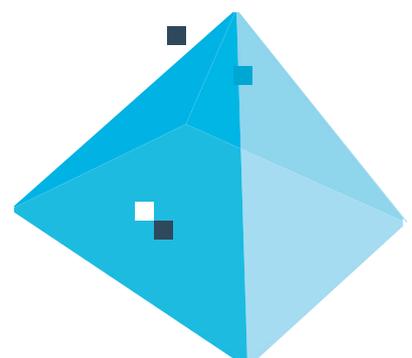
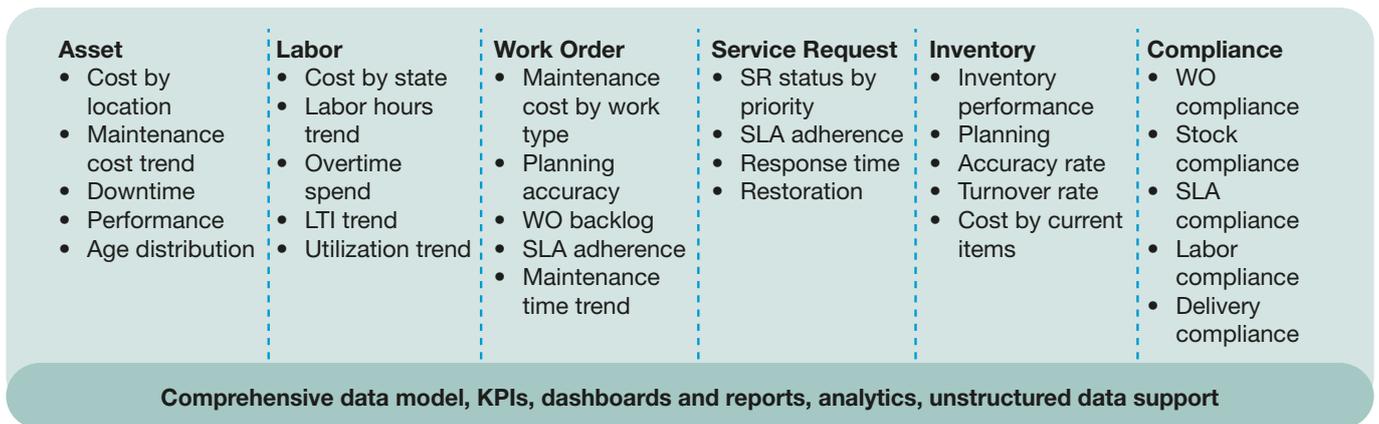
The solution is the outcome of Capgemini’s domain expertise and functional proficiency in the maintenance domain, and strong capabilities in analytics technology capabilities and generation of business insights. With an intuitive GUI and ease of configuration, Capgemini Smart Asset Management solution is designed to provide a comprehensive analysis of assets in areas including labor, work management,, maintenance cost trends, downtime in hours, asset health KPIs, such as Mean Time Before Failure and Mean Time To Repair, which can be used to help predict asset failure.

### Capgemini Smart Asset Management solution provides comprehensive analysis of asset data

With over 150+ SMRP compliant KPIs and 75+ dashboards and reports, Capgemini Smart Asset Management solution also provides access to the data visualization tool. These well-defined dashboards provide views on actionable reports on SLA adherence, response times and restoration times, as illustrated in Figure 1.

- Asset: Indicators such as downtime in hours, asset performance, and age distribution
- Labor: Overall utilization and work-type trend
- Work Order: Distribution of maintenance cost by work type, such as breakdown maintenance and preventive maintenance
- Service Request: SLA adherence and response times
- Inventory: Planning and turnover rate
- Compliance: Various including stock, labor and delivery.

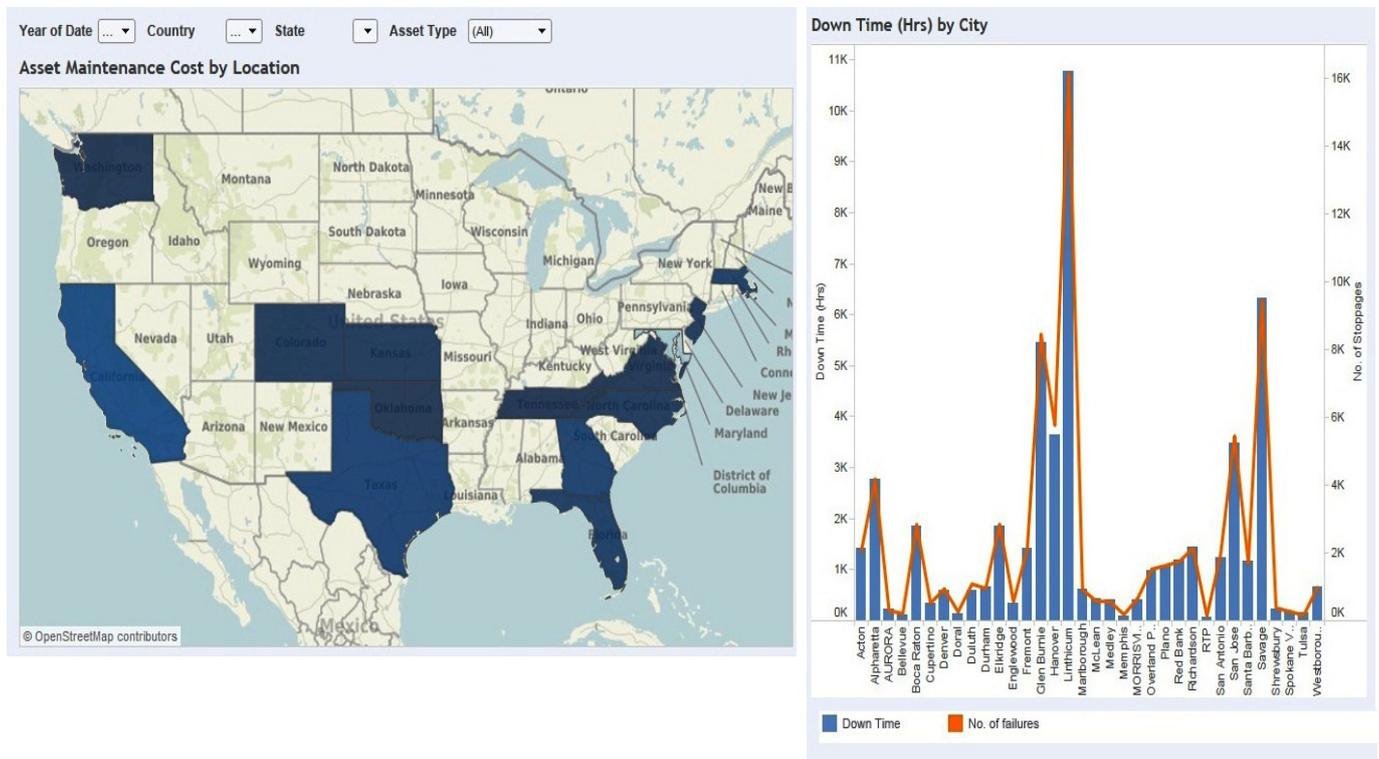
Figure 1: Capgemini Smart Asset Management solution provides comprehensive asset reports



The **Asset Summary dashboard** visualization layer offers an extensive list of reports and dashboards, for different customer subject areas, such as overall asset maintenance cost by location, downtime in hours by city, age distribution

and other related KPIs. The dashboard allows users to drill down on a given specific state in USA or country, and even asset type, to view relevant asset performance details and age distribution in that particular region; see Figure 2.

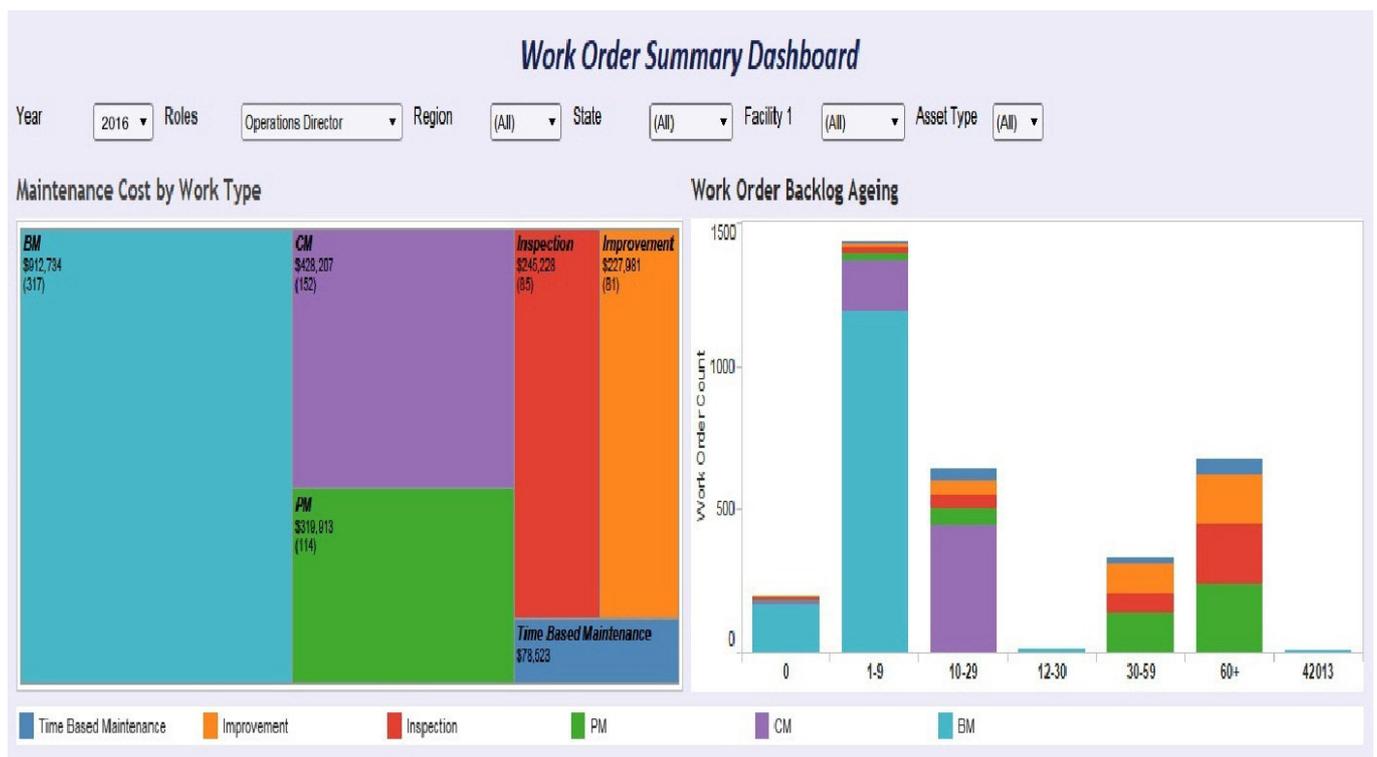
Figure 2: Example dashboard providing an Asset Summary



The **Work Order Summary dashboard** provides an overview of the maintenance cost by work type, work order backlogs, schedule adherence, and maintenance time trend-related KPIs. The user is able to filter by year, region, or state to get work order information from the selections; see Figure 3.

For example, when a user drills down on Breakdown Maintenance, he/she can view the required data through a detailed report by country, work type, asset type, associated work orders, and cost details.

Figure 3: Example dashboard providing a Work Order Summary



## How our solution works

The data source layer extracts structured and unstructured data from multiple sources into a centralized repository. Data integration and storage covers all sources of data at the most granular level. ETL jobs take care of loading data from disparate sources into the data warehouse.

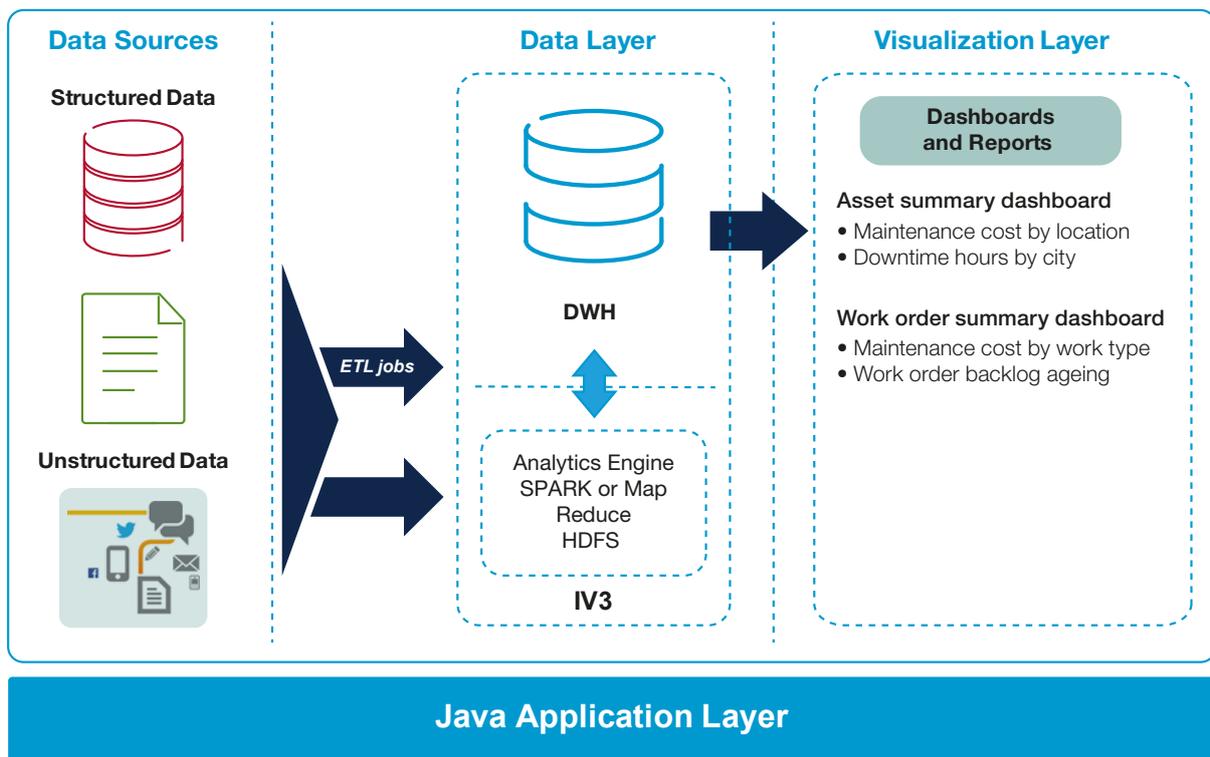
Data exchange takes place between the warehouse and Capgemini's IV3 platform with data being fed into analytical models and output being fed back into the warehouse for reporting as illustrated in Figure 4.

The dashboard visualization layer provides an exhaustive list of reports and dashboards that cater to different customer subject areas and can be accessed through a robust application layer.

Our solution is tool-agnostic and using scalable architecture, can be easily customized for any system. It offers a customized rich layer of visualization on reporting tools like OBIEE, Tableau, SAP BO platform, etc., and therefore ease of user interpretation and understanding. It allows data sourcing from various systems such as EAM, ERP, legacy, and formats such as .xls, .csv, .xml, etc.

The solution provides big data handling capability for handling unstructured data such as asset technical data over social media, processed in Capgemini's proprietary big data platform, IV3, using the Hadoop ecosystem. It ensures 100% data lineage between data models and reports, and can be implemented faster due to the composite architecture and standard data model in an accelerated period of just weeks.

Figure 4: Capgemini Smart Asset Management architecture – from data to reporting



## Benefits delivered

Capgemini Smart Asset Management solution is also about communicating goals and objectives with those involved in asset management, benchmarking performance to develop leading practices, identifying process bottlenecks and standardizing reports processes across businesses. All of this allows us to offer the following benefits to clients:

- Asset visibility across the enterprise driving data-based business decisions with well-defined performance metrics
- Improved asset availability and reduced maintenance costs
- Business process standardization across units
- Simplified asset compliance reporting
- Strong foundation for advanced analytics and data mining for predictive asset failure

## Find out more

Contact our SMART Solutions team to see how our assets analytics capability can improve your asset management.

### SMART Solutions team

**Krishna Kumar Singh**

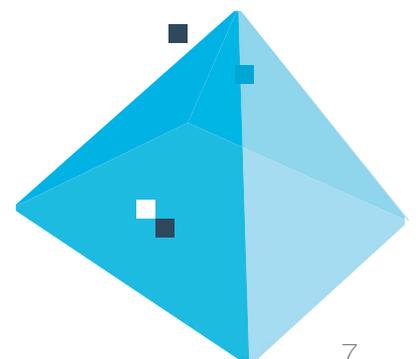
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## Capgemini Insights & Data

In a world of connected people and connected things, organizations need a better view of what's happening on the outside and a faster view of what's happening on the inside. Data must be the foundation of every decision, but more data simply creates more questions. With over 11,000 professionals across 40 countries, Capgemini's Insights & Data global practice can help you find the answers, by combining technology excellence, data science and business expertise. Together we leverage the new data landscape to create deep insights where it matters most - at the point of action.

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With more than 190,000 people, Capgemini is present in over 40 countries and celebrates its 50<sup>th</sup> Anniversary year in 2017. A global leader in consulting, technology and outsourcing services, the Group reported 2016 global revenues of EUR 12.5 billion.

Together with its clients, Capgemini creates and delivers business, technology and digital solutions that fit their needs, enabling them to achieve innovation and competitiveness. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

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