# Whitepaper
## Automotive

## Overview:

The automotive industry is the industry involved in the design, development, manufacture, marketing, and sale of motor vehicles

Automotive domain comprises of manufaturers , suppliers , dealers,retailers , aftermarket parts manufacturers , engineers , mechanics , electicians ,producers , enviornmental and transport safety groups and trade unions. United States, Japan, China, Germany and South Korea are the top five automobile manufacturing nations throughout the world

In 2006, more than 69 million motor vehicles, including cars and commercial vehicles were produced worldwide.[1] In 2006 16 million new automobiles were sold in the USA, 15 million in Western Europe, 7 million in China [2] and 2 million in India. In 2007, the markets in Canada, USA, Western Europe and Japan are stagnating, while those in South America [especially Brazil], Eastern Europe [especially Russia], and Asia [South Korea and India] are growing.

## Top 20 motor vehicle producing countries 2006  v • d • e

Motor vehicle production (1000 units)

| Country | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 to 12000 |
|---|---|---|---|---|---|---|
| Japan | | | | | | 11484 |
| United States | | | | | | 11264 |
| PR China | | | | | | 7189 |
| Germany | | | | | | 5820 |
| South Korea | | | | | 3840 | |
| France | | | 3169 | | | |
| Brazil | | | 2972 | | | |
| Spain | | | 2777 | | | |
| Canada | | | 2572 | | | |
| Mexico | | 2046 | | | | |
| India | | 1940 | | | | |
| United Kingdom | | 1648 | | | | |
| Russia | | 1508 | | | | |
| Thailand | 1296 | | | | | |
| Italy | 1212 | | | | | |
| Turkey | 988 | | | | | |
| Belgium | 882 | | | | | |
| Czech Rep. | 855 | | | | | |
| Iran | 817 | | | | | |
| Poland | 715 | | | | | |

Reference: World Motor Vehicle Production by Country: 2005 – 2006. OICA

## SECTORS  OF AUTOMOTIVE INDUSTRY.

### Automotive Parts and Accessories industry

comprises of establishments engaged in manufacturing of automotive stampings; carburetors, pistons, piston rings, valves; chassis; rubber tires and braking systems; ignition systems; lighting equipment; seating, flooring and related materials; gasoline and fuel systems; storage batteries; and engine and transmission parts and accessories.

### Four Wheelers industry

is one of the largest segments of global automotive industry that produces different type of four wheelers namely cars, passenger cars, jeeps, vans etc.

### Two wheelers industry

comprises of four broad segments i.e. scooters, motorcycles, mopeds and bicycles

**Commercial Vehicles industry**

comprises of units engaged in manufacturing and selling of commercial motor vehicles

**Utility Vehicles industry**

consists of units engaged in manufacturing and selling of Sports Utility Vehicle and the Multi Utility Vehicles

## Automotive Engineering :

Modern **automotive engineering** is a branch of vehicle engineering, incorporating elements of mechanical, electrical, electronic, software and safety engineering as applied to the design, manufacture and operation of motorcycles, automobiles, buses and trucks and their respective engineering subsystems.

**Automotive engineers** are involved in almost every aspect of designing cars and trucks, from the initial concepts right through to manufacturing them.

Broadly speaking automotive engineers are separated into three main streams: product engineering, development engineering and manufacturing engineering.

- Product engineer (also called design engineer), that would design components/systems (i.e brake engineer and battery engineer). This engineer designs and test a part, seeing that it meets all its requirements (i.e. the shock), performs as required, material meets desired durability and so on.

- Development engineer, that engineers the attributes of the automobile. This engineer may provide to the design engineer what spring rate he requires to provide the "ride" characteristics required for the automobile to perform as desired, etc.

- Manufacturing engineer, determines how to make it.

### General Issues in Automotive Industry:

- Automating paper work
- Storing and Managing lots of document in secure and easy way
- Taking care of various workflows within the various processes of organization
- Supply Chain Management
- Fast retrieval of information across various LOB's within organization
- Tracking and monitoring full life cycle of various processes in  organization
- Providing per location personalization services to both internal and external users
- Issue/Risk management solution

## Introduction to SharePoint

**SharePoint** is an integrated suite of server capabilities that can help improve organizational effectiveness by providing comprehensive content management and enterprise search, accelerating shared business processes, and facilitating information-sharing across boundaries for better business insight.

The points below give an overview of SharePoint as one integrated solution:

- Manage Content and processes
- Improve Business insight
- Simplify Internal and External Collaboration

- Integrate various solutions to One Solution
- Project Management
- Issue Management

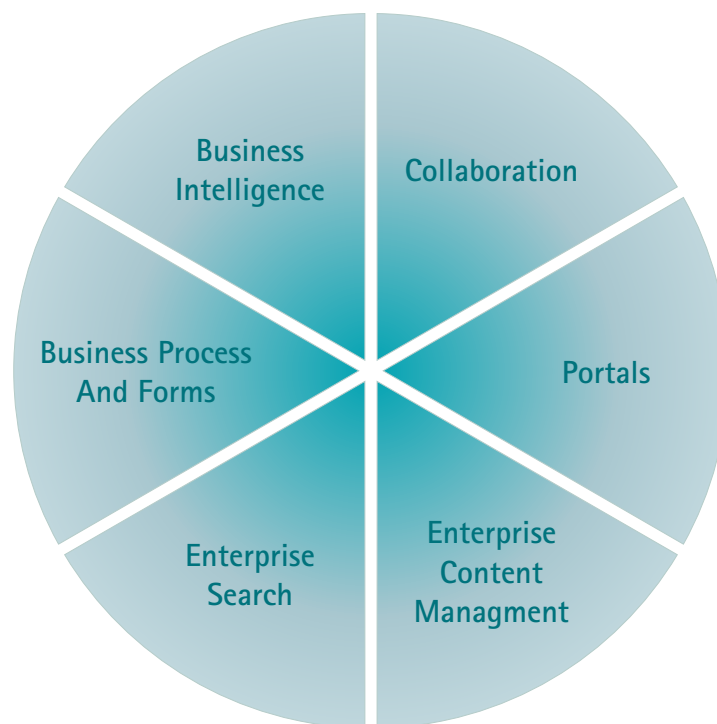**The above points can be graphically put in the figure as shown below:**



Fig: SharePoint overview as one integrated solution.

## SharePoint for Automotive Industry

SharePoint includes many offerings which can help the Automotive Industry. We tried to emphasize some important points.

- Provides easy and powerful way to automate various processes involved in the organization
- SharePoint provides easy, secure and powerful document management system
- Provides single integrated solution to various solutions like Sales Monitoring System, Project tracking, HR System etc.
- SharePoint can make organization have various sites for the global branches (with local/global language and other personalization settings) under one umbrella and that also in no time
- SharePoint includes very effective workflow management : Automating the process of sending mails for approvals , pending issues , updates etc
- SharePoint also provides powerful search mechanism to meet the search needs across various LOB's (Line of business)
- SharePoint provides easy way to have a supply chain management solution
- SharePoint Portal provides solution to share R&D/Best practices information around the globe both internal/external to organization as per required
- One can easily port issue management solution with SharePoint
- Sharepoint integrates/ migrates current data to the portal in no time , so no loss of current data.
- Web Interface to work with Excel Services, infopath forms ,Microsoft Outlook which makes the portal so user friendly.

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