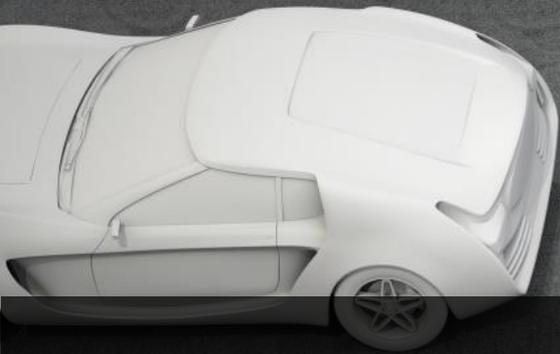
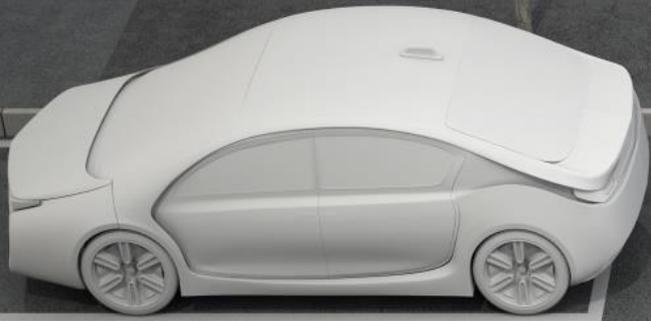




SSCG



Automotive and Manufacturing  
Tailored solutions and engineering practices to  
help clients transform and accelerate growth

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# About SSCG

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SSCG is global management consulting and professional firm. We provide advisory, consulting and operation support across business services, automotive , oil and gas, and manufacturing sectors.

SSCG Automotive and manufacturing Sector Practice is a unit of SSCG providing services to clients operating in industrial, manufacturing and automotive industries. Our professionals can help you navigate the complex issues and operation challenges impacting your business and industry.

We leverages our extensive experience in the industry and work side by side with our clients to help them solve complex challenges with efficiency, reduce risks and cost while driving quality. We blends deep business understanding with industry wide experience and methodologies to help our clients unlock and seize emerging opportunities.

# SSCG Global Services Across a Range of Sectors

In today's business World, staying competitive means striking the right balance between having the right investment, managing risks and exploiting opportunities. To achieve full potential, industries need fast, easy access to the market insights, data and people that can help make the right decisions. That's why we've invested in dedicated industries and assembled a pool of professionals with the right mix of expertise, industry-focused knowledge and experience.

Through an extensive network, we offer focused services across these industries, with unique capabilities and insights. Our commitment of time and resources means that we can anticipate market trends, identify implications and develop clear points of view on relevant industry issues. Our network of professionals and industry experts provide highly responsive advice, perspectives and capabilities to prepare our clients for the challenges and opportunities ahead, meet industry operational goals and compete more effectively.



Advisory



Consulting



Operation



Financial Services



Business Services



Automotive & Transport



Manufacturing



Energy, Oil and Gas



Consumer and Industrial Products

A futuristic silver car is driving on a highway. In the background, there is a monorail system with a train on an elevated track. The scene is set against a clear sky and a modern urban environment.

We help companies transform and improve performance to enable growth and profitability

# Key Trends Transforming and Disrupting Industries

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## Industries



Automotive and Transport  
Manufacturing  
Energy, Oil and Gas  
Consumer and Industrial  
Products

## Key trends

- Customer complexity and connectivity
- Growth and competition
- Risks
- Rapid urbanisation
- Disruptive innovations and technologies
- Regulatory compliance
- Transport and mobility complexity
- Supply chain
- Global operation
- Talent and human capital
- Environment and emissions
- Emerging markets
- Big Data

# SSCG Automotive and Manufacturing Services

# SSCG Solutions for Future Automotive, Engineering and Manufacturing Industries



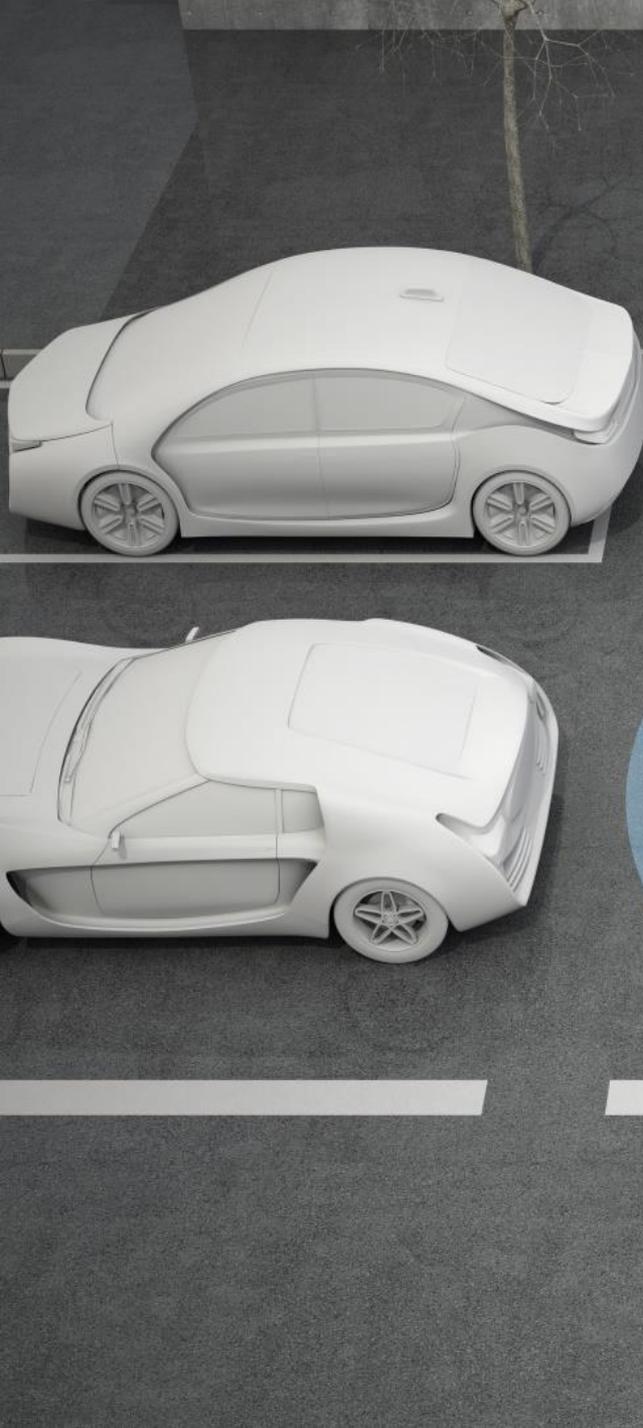
# Solutions for Future Automotive, Engineering and Manufacturing Industries

The automotive industry is rapidly evolving and continues to face a dynamic set of challenges. For businesses that are well positioned and with the right ambition it represents an exciting period of opportunities to differentiate and boost growth. SSCG Automotive Sector Practice aim to lead presence and help clients in the industry to drive growth.

Our professionals can help you navigate the complex issues and challenges impacting your business and industry. We leverages our extensive experience in the industry and work side by side with our clients to help them solve complex challenges with efficiency, reduce risks and cost while driving quality. We blends deep business understanding with industry wide experience and methodologies to help our clients unlock and seize emerging opportunities.

We support our clients:

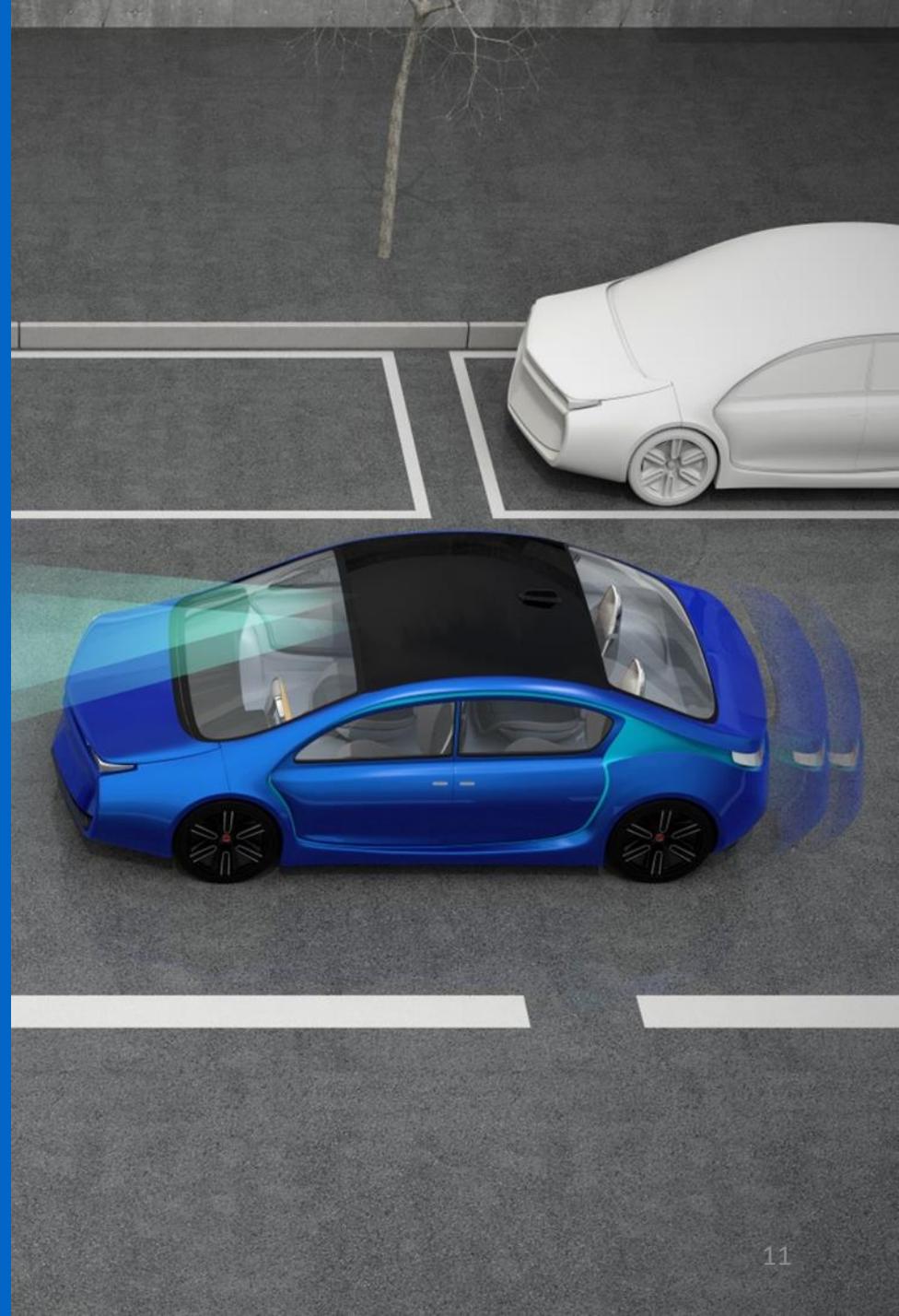
- Capture growth opportunities and drive value
- Transform and boost operation excellence
- Execute and manage project portfolios
- Manage product engineering and development cycles
- Integrate Lean Six Sigma (LSS) practices in the process
- Deploy leading management best practices
- Drive quality, VOC and value
- Improve efficiency and performance
- Identify potential product failure and mitigate risks
- Manage supplier and supply chain effectively
- Manage process and operation quality system
- Operate efficiently effective
- Improve operation performance and output



#### Key areas of focus:

- Powertrain Market and Technologies
- Vehicle Connectivity and Autonomous Driving
- Manufacturing Process and Assembly
- Homologation and Regulatory
- Vehicle Mobility and Transport
- Electrification and Hybridisation
- Projects Portfolio and Management (PPM)
- Quality Engineering (QE)
- Engineering Operation and Management (EOM)
- Product Engineering and Management (PEM)
- Product Lifecycle Management (PLM)
- Vehicle Manufacturing and Assembly (VMA)
- Lean Six Sigma (LSS)
- Lean Manufacturing
- Automotive Engineering Management (AEM)
- Supply Chain Management (SCM)
- Automotive Circular Economy
- Supplier Management
- Design for Manufacturing (DfM) and Assembly (DfA)
- Quality System Management (QMS)
- Failure Mode Effect Management (FMEA)

We combine management excellence and engineering practices to transform and accelerate Automotive industry growth in a rapid changing markets.



# Automotive and Assembly Management

The automotive industry is going through rapid changes, the future of the traditional is in question. Urbanization, changing consumer expectations, competition, innovation and emerging technologies are forming a new mobility ecosystem and setting the stage for immense innovation. Keeping pace requires incumbents to transform by developing new business models and services at unprecedented speeds. Success will depend on their ability to radically shift work practices and culture; innovate, tap into new talent and engage the consumers of tomorrow.

SSCG is at the forefront on top trends and issues facing the auto industry. We work side by side with our clients to build effective businesses, innovate and grow, reduce costs, manage crisis, risks and regulation, leverage talent and execute better deals. We bring a sharp industry perspective, global experience working with top OEMs and insights. We leverage our experience to help our clients solve complex operation challenges, transform processes to drive efficiency and quality.

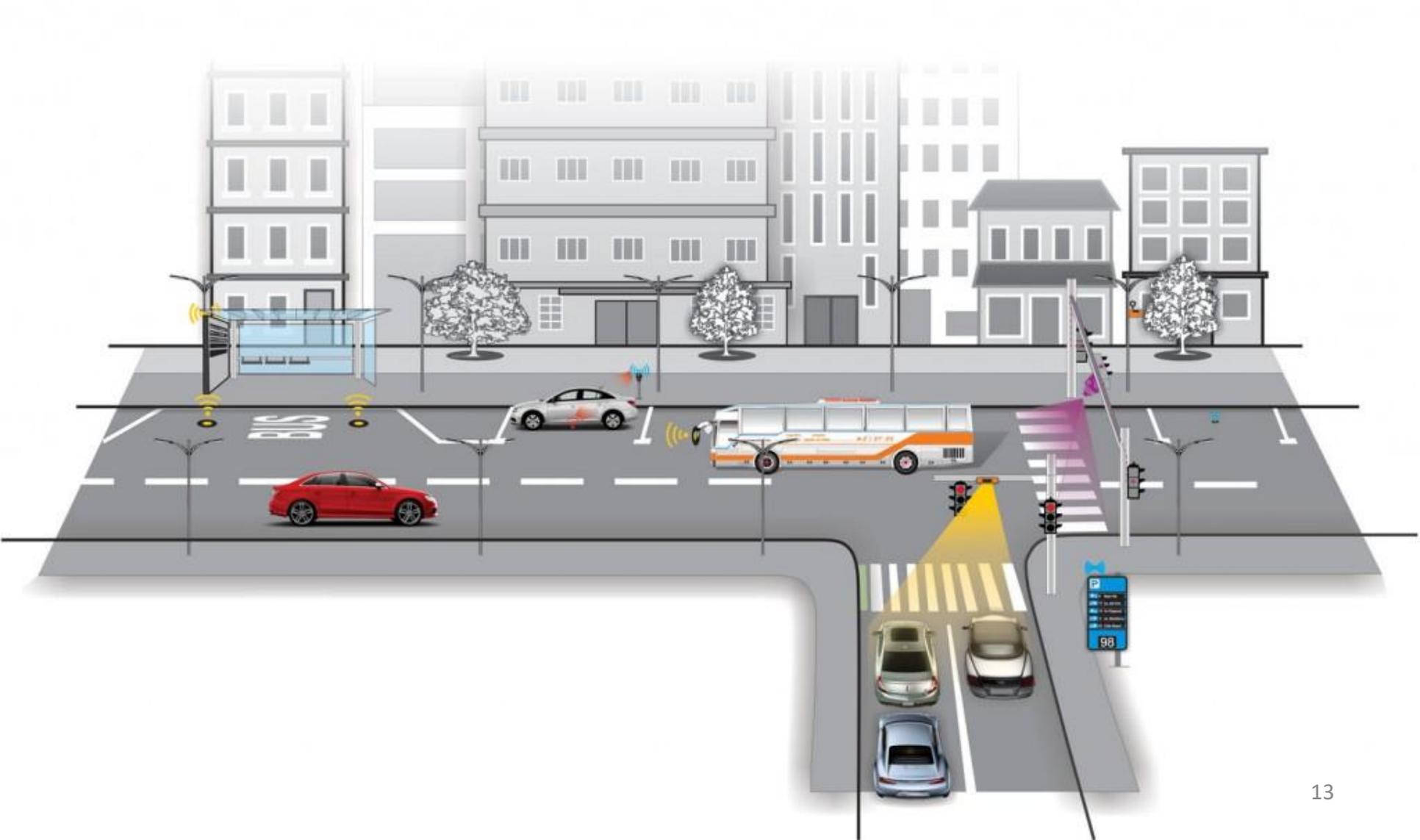
Whether you're focused on transforming your business or on sustaining performance and building on achievements, SSCG team are open to help you.

We help clients to improve performance and effectiveness of their business by examining everything from product development, supply chain capability management and business processes, to future directions and opportunities for growth.

We provide services specific to the issues facing automotive companies focusing on:

- Operational excellence
- Performance improvement
- Process transformation
- Supply chain Optimisation
- Risk and assurance
- Quality Engineering
- Industries 4.0: Automation and robotics
- Transformational Change
- New Product Development (NPD)

# Mobility and Transport



# Mobility and Transport

The transportation and logistics industry is confronting immense changes: digital transformation, new market entrants, changing customer expectations, and new evolving business models. If industry players want to remain competitive, now is the time for action.

Transport infrastructure plays a fundamental role in driving economic growth and enabling the countries to compete in the global economy. However, austerity measures, a challenging financial climate, industry reform and stringent public scrutiny are making the delivery of a first class 21st century transport system ever more challenging.

Across the world, people's ability to move safely and efficiently from point A to point B impacts their degree of opportunity for a better, more productive life. The automotive and transportation sector enables people everywhere to access family and friends, employment, education, health care and entertainment.

SSCG's Automotive & Transportation Sector professionals delivers purpose-led, transformative solutions to help our clients improve the movement of people and goods around the world.

We are at the forefront on top trends and issues facing the auto industry. We work side by side with our clients to build effective businesses, innovate and grow, reduce costs, manage crisis, risks and regulation, leverage talent and execute better deals.

SSCG works across the transport sector supporting public and private sector clients in delivering and optimising the performance of their transport assets, addressing the key business challenges within their own organisations and managing change in the wake of regulatory change and reforms.

- Economic and market
- Transport strategy
- Legislations and policies
- Connected and autonomous cars
- Homologation and certification
- Standards
- ADAS technologies and innovation

# Manufacturing Process Transformation

SSCG work with leading OEM automotive manufacturers, providing services and technology to help them become high performers. We help production industry clients excel in performance transformation, manufacturing strategy, manufacturing excellence, and capability building. We specialize in transforming manufacturing operations through systems, infrastructure, and employee mindsets, and provide strategic guidance on a wide range of manufacturing issues such as network configuration, capital productivity, and make vs. buy decision-making.

We help companies accelerate performance and transformation. We apply industry-leading experience and skills to support our clients design and realise the potential of innovative operating models through their expertise in efficiency, outsourcing, human capital and talent management, learning and development, change management, and strategic communications. We provide tailored solutions that allow clients to manage change dynamically—from the shop floor to the executive suite.

Combining industry and operations knowledge with unique insights into existing and emerging technologies, we have developed a range of innovative, end-to-end offerings for the automotive industry. Deploying these services, we can help clients to identify and enter new markets, to change the pace with their customers in the digital experience, increase revenues in existing markets, improve operational performance, and deliver products and services more effectively and efficiently.

SSCG's automotive solutions and capabilities include:

- Manufacturing strategy
- Processes improvement and optimisation
- Operation transformation
- Management processes
- Manufacturing excellence
- Employee performance capabilities
- Lean manufacturing
- Six Sigma
- System engineering
- Industries 4.0: Automation and robotics
- Digitisation

# Lean Six Sigma

Originally developed to improve manufacturing efficiency and quality, Lean Six Sigma is now being widely adopted by financial institutions, retailers, hospitals and other corners of the services industry. Lean Six Sigma is a blend of two concepts: lean manufacturing, which is aimed at reducing waste, and Six Sigma, which helps companies reduce errors. Together they can help companies reap the benefits of faster processes with lower cost and higher quality.

We help clients to transform their operations through engaging leadership and teams to drive measurable and sustainable benefits. We use Lean and Six Sigma to make processes more streamlined; eliminating waste and increasing customer satisfaction.

We are pragmatic in our use of Lean Six Sigma. We use only the tools that make the most sense for each situation. SSCG has developed an up-front diagnostic that enables companies to identify and focus on only the process changes that will quickly make the biggest differences, ensuring faster results with smaller initial investment.

SSCG's approach starts with a full potential diagnostic and embeds Six Sigma methodology with added efficiency and speed from lean. In each case, we first gain an understanding of a company's value stream, map out processes and costs. Define a view of "full potential" through bottleneck analysis and internal and external benchmarking. Finally, we target areas for improvement, unleashing the trained teams.

Kaizen

Lean  
6σ

Six Sigma

DMAIC

Continuous  
improvement

# Engineering Project Management

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# Engineering Project Management

SSCG Programme Management (PPM) and PMO professionals specialise in designing and delivering complex six sigma problem solving, and engineering projects, process transformation and business growth programmes.

We help clients develop frameworks to assist them invest in the right projects, execute and manage effectively to mature their delivery capability and realise the intended business benefits

We provides operation services in the area of project management and delivery, for engineering, auto industry and oil and gas sector. We take on project management assignments for a number of work streams within the project or assist the current Project Managers with the management of their projects, providing required guidance and advices.

To achieve consistently effective results, SSCG uses experienced project portfolio management specialists, underpinned by well established methodologies that have been distilled for a long period and gained from diverse industries and markets.

Our methodologies are scaleable, structured and flexible, and applied to new, existing or problematic projects. Adopting our approach makes the defining, planning, and controlling of projects a benefitable, consistent, and successful process.

We help our clients manage projects at all levels of the lifecycle including:

- New Products Project Portfolio and PMO
- Six Sigma Continuous Improvement Programmes
- Capital Projects Investment
- Planning, Business Case Development and Scope
- Risk Identification, Controls and Management
- Procurement of Supplier and Materials
- Financial Management
- Resource Allocation and Management
- Evaluation and Benefits Realisation Assessment

# System Engineering (SE)

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Challenging complexity  
through model based  
transformation



# System Engineering (SE)

Our system engineering professionals deploy a mix of engineering thinking principles and management body of knowledge to design, manage and transform complex systems over their life cycles.

Our approach and methodologies addresses complexity issues such as requirements engineering, reliability, logistics, coordination of different teams, testing and evaluation, maintainability and many other disciplines necessary for successful system development, design, implementation, and ultimate decommissioning.

We apply project based work-processes, optimisation methods, and risk management tools to ensure that all likely aspects of a project or system are considered, and integrated into a whole.

We take an interdisciplinary approach to engineering systems, use of tools and methods to better comprehend and manage complexity in systems which include:

- Architecture,
- Modelling and simulation
- Optimisation
- Systems analysis
- Decision making
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# Quality Engineering (QE) and Management

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# Quality Engineering (QE) and Management

We help automotive and manufacturing industry clients excel in product quality management, manufacturing process optimisation, performance transformation, manufacturing strategy, manufacturing excellence, and capability building.

We specialise in transforming manufacturing operations through systems, infrastructure, and employee mindsets, and provide strategic guidance on a wide range of manufacturing issues such as product quality management, supplier management, process improvement, capital productivity, and conformance to specification and standards..

We apply various methods of quality improvement to improve products, processes and people. Some of the methods and techniques we incorporate to drive quality improvement:

- IATF 16949 - Automotive Quality Management System
- ISO 9001:2015 - Quality Management System (QMS)
- Six Sigma ( $6\sigma$ ) - Combines established methods such as statistical process control, design of experiments and failure mode and effects analysis (FMEA) in our overall framework.
- Lean manufacturing – Implement Toyota Production System thinking
- Total Quality Management (TQM) – We use management strategies aimed at embedding awareness of quality across the business processes. The approach allows us to utilise Malcolm Baldrige National Quality Award and European Foundation for Quality Management (EFQM) principles.



# Product Engineering and Circular Economy

We help clients improve value across the full spectrum of product development activities, manufacturing and assembly, usage, reuse and recycling, improving processes and offerings.

we work directly on specific products, road maps, and portfolios, creating top-line value and institutionalising capabilities to sustain best practices around a set of core concepts. Our services aim to help our clients to substantially improve their current and future products, revenues and profitability, and step up their development organisation, capabilities, and processes to world class.

We combine product-cost with rigorous understanding of customer insights, manufacturing experience and legislations to deliver attractive product lines with the optimal level of market coverage, product margin, and reduced operational complexity.

Our help include:

- Product excellence
- Product Lifecycle Management (PLM)
- Product-Portfolio Management (PPM)
- R&D portfolio and capability
- Design-to-Value
- Product failure management through FMEA
- Design for Assembly (DFA) and Design for Manufacturing (DFM)
- Product complexity and modularity
- Product quality management including APQP and PPAP
- Product Circular economy

# Supplier and Value Chain Management



# Supply Chain (SC) and Value Chain (VC)

Supply chains and operations are undergoing radical restructuring as they face the challenge of improving performance in a world of unprecedented complexities and opportunities. They have to balance agility and responsiveness against driving down costs and improving profitability.

Traditional manufacturing-intensive companies are under increasing pressure to manage disruptive forces. In highly competitive markets growth is challenging but necessary to deliver shareholder value. Consumer behaviours are also changing, demanding new channels to market.

The supply chain needs to be fundamentally reinvented around a demand response network philosophy, to create a supply chain that balances agility, efficiency and resilience, managing risk and protecting shareholder value. Effective supply chain management will also support corporate strategy objectives such as globalisation and growth, and in merger and acquisition or financial turnaround situations.

At SSCG, We integrate solutions across operations disciplines to help our clients accelerate performance and transformation. We apply industry-leading deep and distinctive functional expertise to help clients create bottom line impact covering suppliers, production, physical logistics, and customers. We help clients across the global automotive value chain develop and deliver customised strategies for growth, overcome supply chain challenges; cope with demand and uncertainty, build and optimize processes and control strategies.

Our deep sector expertise built on broad project-based experience working with companies and investors across key market segments, help clients in supply chain deliver breakthrough performance needed to drive business success include:

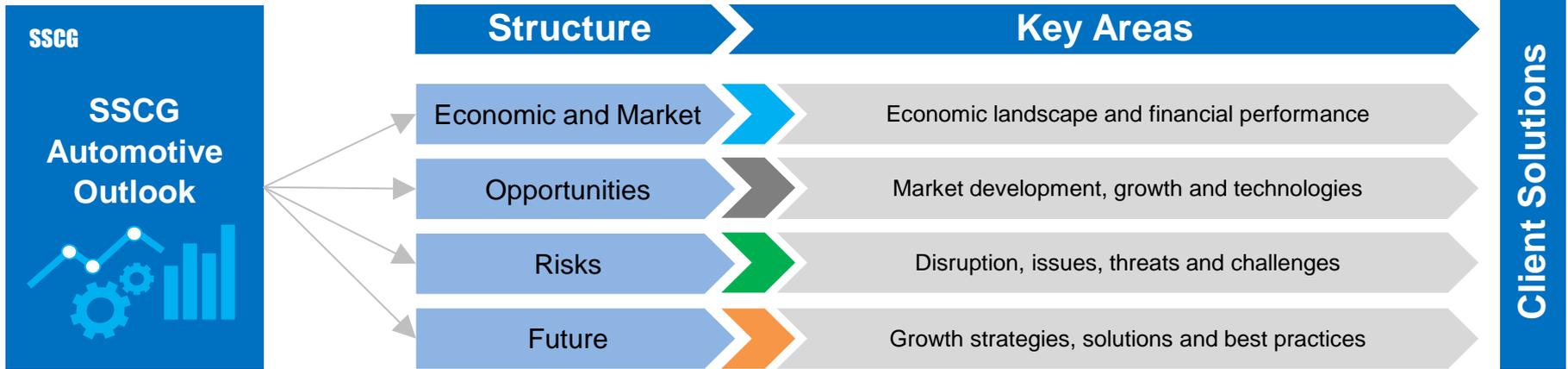
- Agile and Lean Supply Chain Management
- Value Chain Management
- Procurement Performance
- Route to Market Optimization
- Technology and Innovation
- Supply Digitalisation
- Integrated operational excellence
- Supplier Management and Performance



We provide market intelligence and insights to help accurate and confident strategic decision-making

# SSCG Market Insights and Perspectives

Market perspectives and insights on emerging trends and developments in the Automotive sector to help you understand key issues, development dynamics, evolution, growth trends, technological advancement, innovation and changing regulations.



**Global Auto Industry and Market**

Industry landscape, shift, disruptions, revolution, risks and regulations.

**African Auto Industry and Market**

Market outlook, industry development, key growth opportunities and risks

**Powertrain Technologies and Revolution**

Control technologies, IC engines development, EV & FCV cars and market

**Supply Chain Evolution and Dynamics**

Market development, competition, analytics, process and technologies

**Global Mobility Evolution and Shift**

Consumers, competitors, markets, and business models are driving change

**Connected and Autonomous Cars**

Technology evolution, cyber security and market development

**Manufacturing and Assembly**

Lean, quality, technologies smart manufacturing, industries 4.0 and robotics

**Engineering Management Transformation**

Strategy, product design, projects, contracts, quality & six sigma solutioning

# Focus on Quality is the Foundation of our service

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Quality is central to our strategy and to the promise we make to our clients to deliver seamless, consistent, high-quality service worldwide.

our approach is to deliver a quality service that is risk-based, industry-specific, and tailored to our clients particular operational structure and size.

Quality is embedded in every aspect of our management practice, from strategy to delivery, and guides every step we take to support and develop our professionals.

Our pursuit of top level quality is at the centre of our culture of continuous improvement and innovation, as we seek to make our company best work better tomorrow. Our aim is for our work to meet our clients needs and deliver the level of expected service quality. This means:

- A team dedicated to a multi-disciplinary approach
- Engagements tailored to specific needs
- A commitment to transparency and keeping management informed at every stage
- Commitment to high standards and continuous improvement

# How we can help your business?

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SSCG team are here to help. For more information and to submit RFP, contact:



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CEO, SSCG Consulting and Advisory

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Advisory | Consulting | Operation

**About SSCG**

SSCG is global management consulting and professional firm. We provide engineering and management advisory across business services, automotive, industrial manufacturing and emerging markets sectors.

We provide informed perspective on the issues faced by our clients. The insights and quality solutions delivered to support our clients to build trust and confidence in the markets and in economies. We combines our multi-disciplinary approach with deep, practical industry knowledge to support our clients meet market dynamic challenges and respond to opportunities.

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