

SUSTAINABLE MANUFACTURING >>

The next industrial revolution

The manufacturing industry, from its beginnings in the 18th Century, and as main driver of economic development in the 19th and 20th Centuries, has had considerable impact on the environment, the movement of populations and globalization.

In the last decade, the threat of climate change and the finite availability of natural resources has made sustainability a boardroom priority. Although initially, the primary aim of most companies has been to safeguard their reputation, more companies are now realizing the necessity and business benefits of achieving environmental and social sustainability.

Manufacturers are uniquely poised to impact and benefit from their own sustainability strategies. For companies and organizations across all sectors, corporate functions, facilities and policies present opportunities for improvement and risk mitigation. For manufacturers, however, these opportunities and risks extend across plant operations, supply chains and product lifecycles as well as understanding customer buying behaviour and loyalty with regard to the sustainability of their products.

Because sustainability strategies have such broad and obvious benefits for manufacturers, the sector has more tools than most to construct and adapt those strategies. Manufacturers around the world have employed tools and methods such as Lean, TQM and Six Sigma to achieve progress on key manufacturing measures around quality, elimination of waste, and efficiency, all of which also serve the objectives of environmental sustainability. By extending this mindset and way of working beyond plant operations, many manufacturers are already making progress on environmental strategies. In order to capitalize on this progress, manufacturers need to step up the way they address key processes and product usage, to more perfectly measure and manage these elements from their social and carbon impact, and energy usage.

Atos Origin's Sustainable Manufacturing portfolio of services accelerates our customers' progress on this journey and enables them to future-proof their organization.

OUR SUSTAINABLE MANUFACTURING PORTFOLIO

Atos Origin's Sustainable Manufacturing portfolio is grounded in the four core process domains (supply chain, manufacturing operations, product design, and customer loyalty & brand management) and delivered via our Sustainability Roadmap approach. Creating a sustainability strategy is not, however, a 'one size fits all' strategy. Every company needs to recognise its individual cultural, structural and economic challenges and define a roadmap that will help to meet its objectives. To do this Atos Origin undertakes an assessment of the organization to determine its current maturity level. This establishes a baseline against which the forward plan can be developed, implemented and measured.

We then use a range of proven and established business tools, each targeted at addressing the specific issues within the business, identified by the maturity assessment. This tailored approach is the most effective method of moving an organization along its unique development roadmap towards a more sustainable and effective state.

Our process guides you through assessment and planning phases, and onwards to implementation:

Opportunity, Risk & Maturity Assessment

- » Clear and succinct assessment benchmarked against leading industry practices and Atos Origin's Sustainability Maturity Model. This enables informed prioritization of actions to mitigate sustainability risks and capitalize on sustainability opportunities.

Roadmap Planning

- » A practical, prioritized plan for progress in alignment with your company's specific business objectives, including quick wins.

Roadmap Implementation

- » Phased projects or programs to implement process, organizational, performance management and / or technological enhancements to support sustainability objectives.

Atos Origin applies a combination of manufacturing domain and sustainability expertise to enable customers to deliver results. Some examples include:

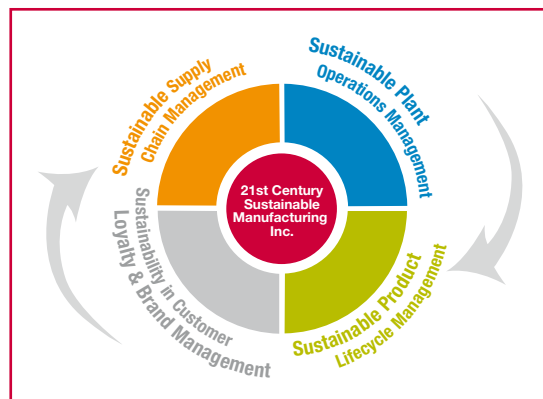
Sustainable Plant Operations Management

- » Dashboards providing visibility and enabling real-time management of energy and water usage as well as carbon impact
- » Integration of key data from ERP systems, Manufacturing Execution Systems and PLM systems. This enables the end-to-end measurement and management of sustainable materials usage.

Results: reduced environmental impact, cost reduction, improved customer loyalty (as benefits reflected in product labelling), improved employee engagement & morale, regulatory compliance.

Sustainable Supply Chain Management

- » Implementation of procurement policies with minimum acceptable social and environmental standards of sustainability. Results: regulatory compliance, increased market share, increased customer loyalty
- » Logistical improvements based on 'make versus buy', transportation mode and market community engagement considerations. Results: reduced carbon impact, cost reduction, improved employee engagement and morale.



Sustainable Product Lifecycle Management

- » New product and product feature innovations based on analysis of customer buying behavior and preferences with regard to sustainability. Results: new markets, new customers, increased market share and customer loyalty
- » Product or packaging improved for recycling, reused or renewed. Results: cost reduction, increased market share, increased customer loyalty
- » Improved collaboration with supply chain and plant operations during product design. Results: reduced carbon footprint, reduction in consumption of natural resources (energy and raw materials), reduced costs.

WE PUT OUR IDEAS INTO PRACTICE

Sustainability isn't just something we talk about, it's also something we pursue within our own business, meaning we can apply our experience to your business. But we don't work alone. We establish partnerships with leading organizations that have specific skills or technologies that support our clients' objectives, so we don't just give you the best we've got, we give you the best there is.

For more information:

To obtain a copy of the IDC report, 'The Business Case for Environmental Excellence is Real' and to discuss how we can help your business begin its journey towards Sustainable Manufacturing please contact Giles Hutchins, Head of Sustainability Solutions, Atos Origin, +44 (0)7891 360024 or email sustainability@atosorigin.com