

Commission for Environmental Cooperation (CEC)
Three Countries Working Together to Protect Our Shared Environment

North American Truck, Bus OEMS and their Supply Chain Sustainability
"NATBUS"



SUSTAINABILITY

Compliance or Strategy?

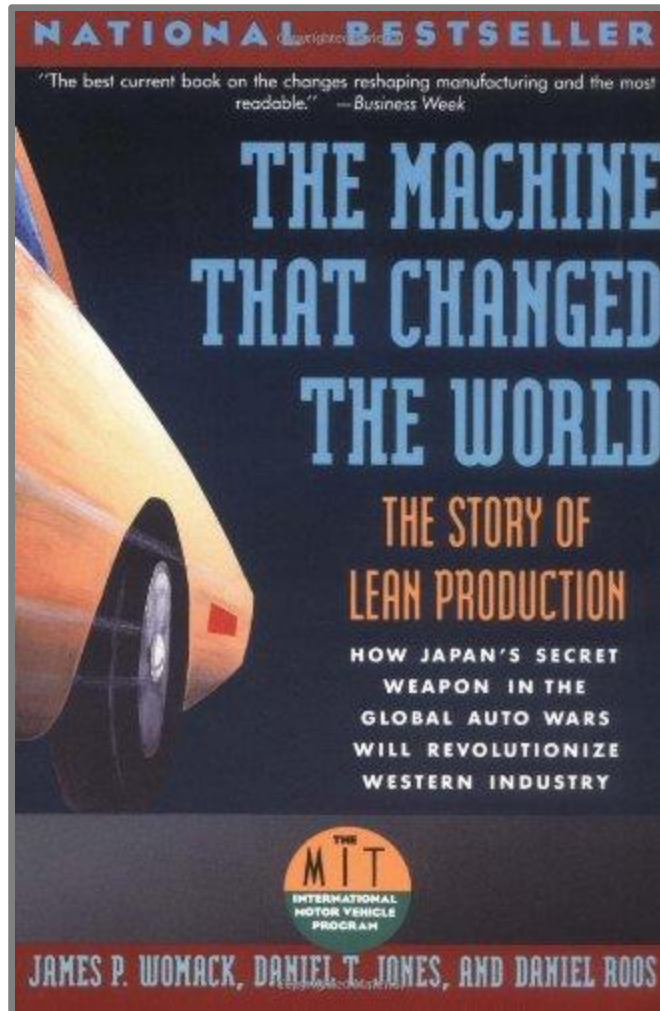
SP Summit on Accelerating Innovation. October 21–22, 2014. Rochester, Michigan



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The machine that changed the world



Times mentioned:

401 - LEAN

13 - ENVIRONMENT

0 - SUSTAINABILITY



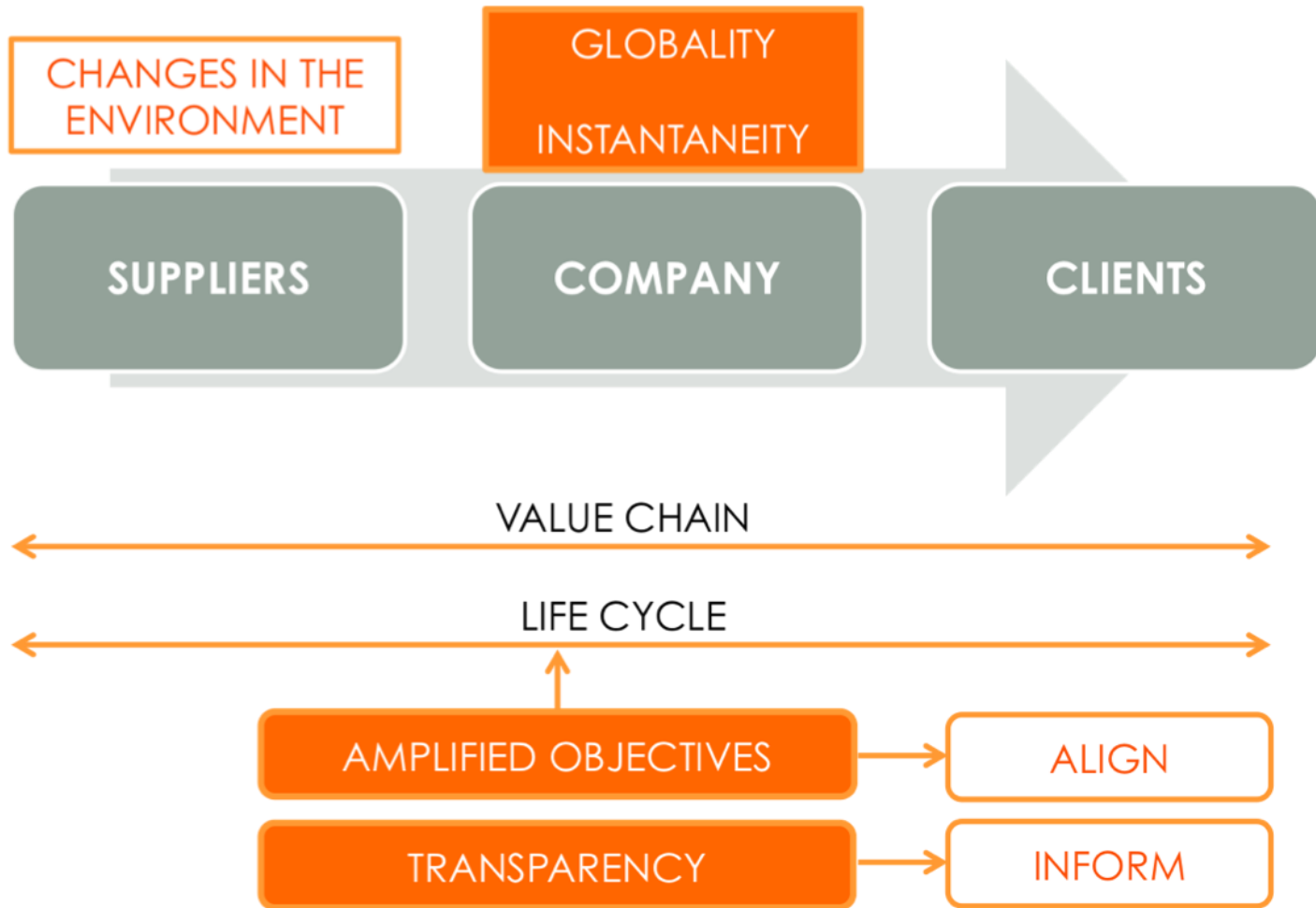
The automotive industry has been an innovative leader in the manufacturing process

WHEN	MANUFACTURING SYSTEM	APPROACH	PURPOSE
1900 ++	MASS *	DIVISION OF LABOR	GREATER MARKET
1980 ++	LEAN *	WASTE REDUCTION	COMPETITIVENES
2000 ++	SUSTAINABLE (?)	INTEGRAL	PERDURABILITY

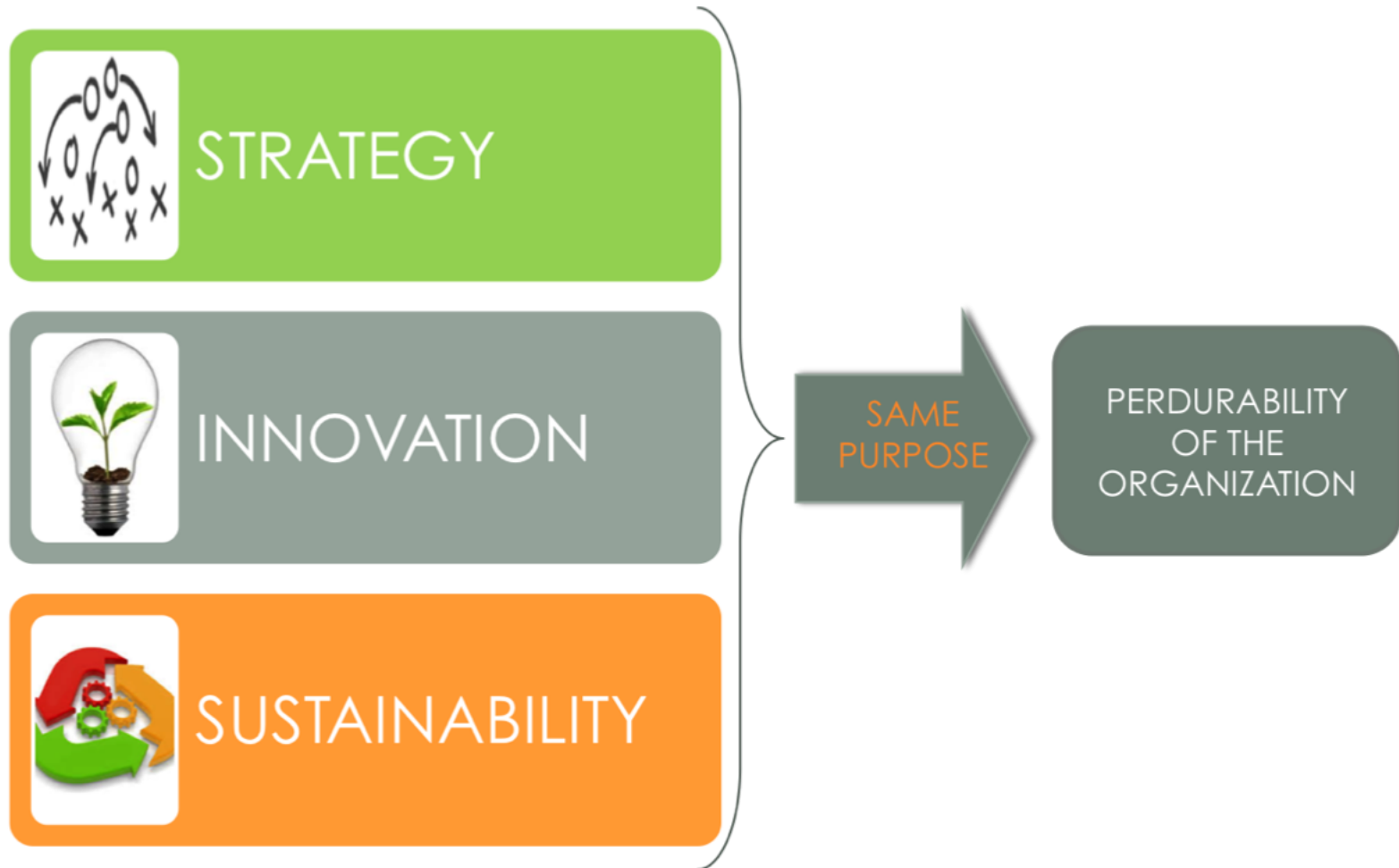
++ AUTOMOTIVE INDUSTRY LEADERSHIP



The extended company is placed in a new context and responds to new demands

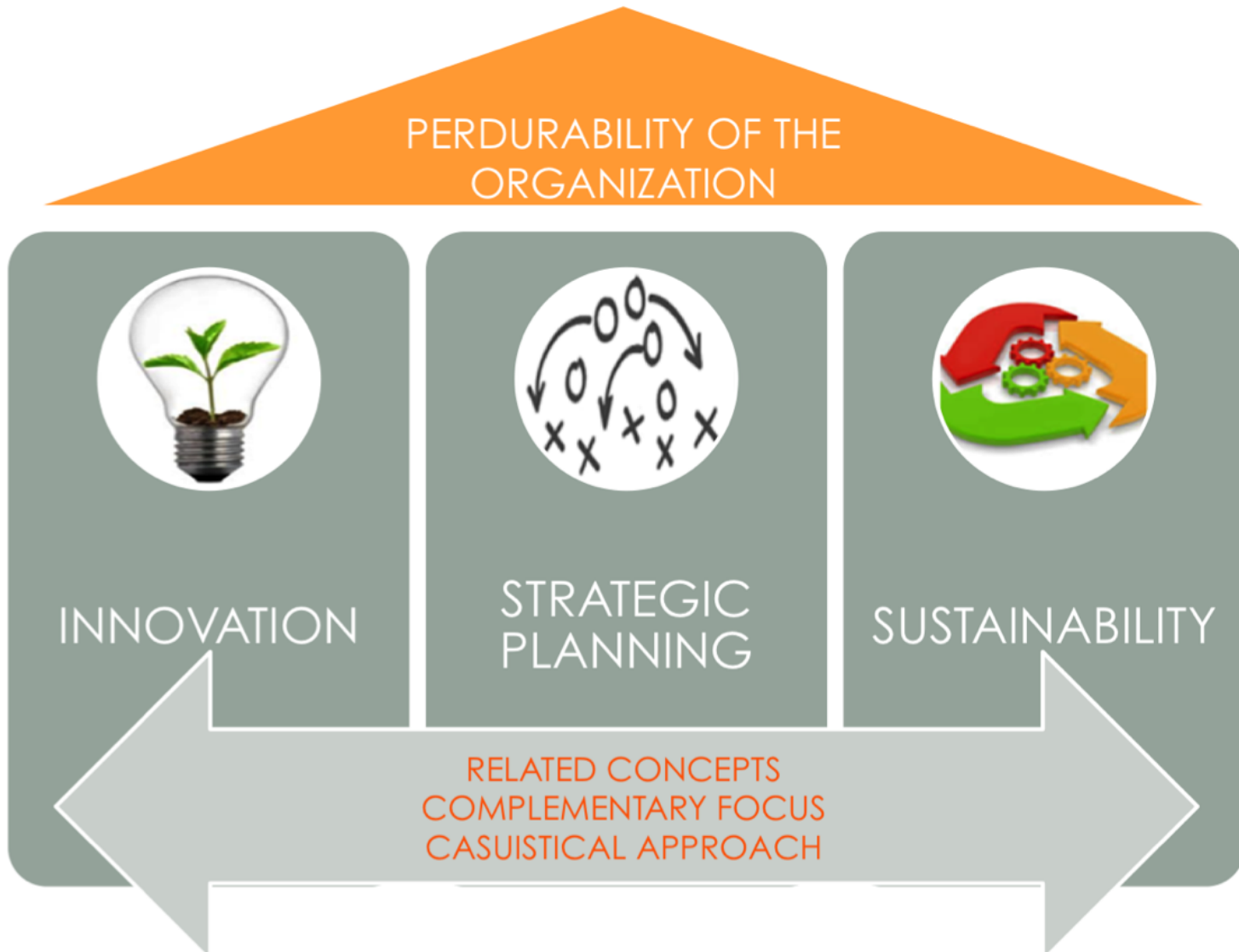


Initiatives with the same purpose





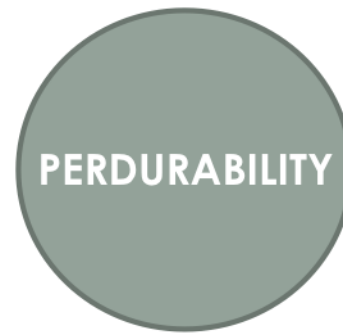
Initiatives with the same purpose





Importance of Sustainability. Our Vision

- The understanding of the concept of sustainability of companies has evolved.



- Sustainability is understood as:
 - Responding to **profitability** as well as the social and physical environment.
 - Being the fundamental subject of a **strategic** plan.
 - Being the gear and motor of process **innovation**.

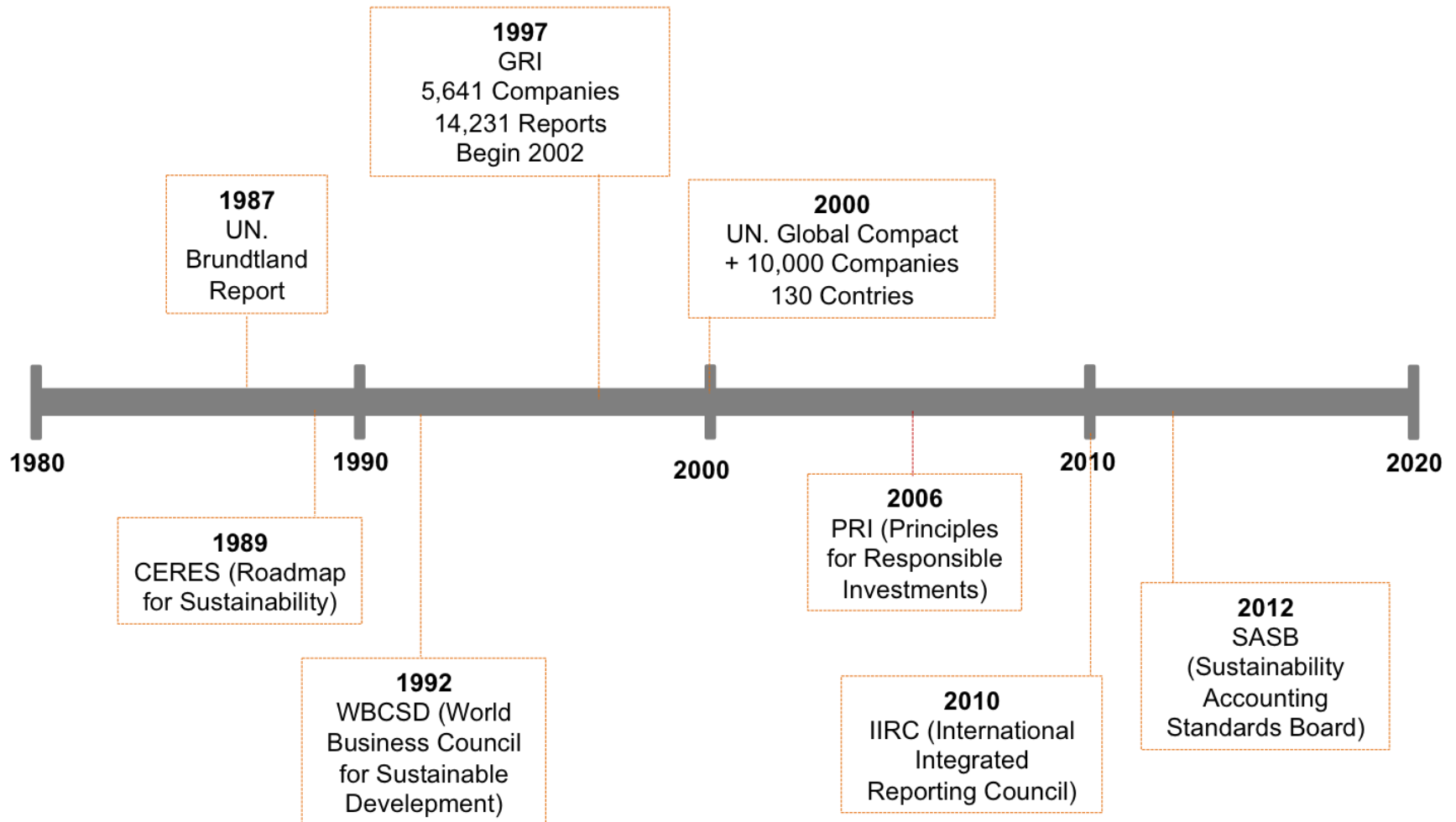


OHS and Sustainability

CONCEPT	OHS	SUSTAINABILITY
TERM OF REFERENCE	PRESENT	FUTURE
INSTRUMENTS	CERTIFICATIONS	REPORT
APPROACH	PREVENTIVE/SECURITY	PERDURABILITY/SOCIAL
INTERNAL APPLICATION	FUNCTIONAL	INTEGRAL



During the past 25 years various organizations have aligned and joined forces to greater integrity and transparency of sustainability reports.





Sustainability reports of the industry

Company	Sustainability Reports					Recent Sustainability Reports (outstanding actions)
	GRI	CDP	UNGC	ISO 26000	OTHER	
1. BMW	✓	✓	✓	✓	✓	A. Product improvement. Electricity. Renewables energies
2. DAIMLER	✓	✓	✓	✓	✓	A. Product improvement. Cells Power S. Community work of staff
3. FIAT	✓	✓	✓	✓	✓	A. Product improvement. Reducing emissions. In manufacturing reducing water consumption S. Financial support to communities. Education and culture
4. FORD	✓	✓	✓	✓		A. Product improvement. Using solar energy. In manufacturing reducing water consumption
5. GM	✓	✓				A. Product improvement. Reducing emissions S. Education on traffic issues
6. HONDA	✓	✓				A. Product improvement. New generation of cells
7. NISSAN	✓	✓	✓		✓	A. Product improvement. Zero-emission vehicles S. Program to promote local art
8. PACCAR						A. Reduction of harmful emissions in manufacturing (paint and other)
9. TOYOTA	✓	✓				A. Product improvement. Cell technology S. Boost for food self-sufficiency
10. VW	✓	✓	✓		✓	A. Fostering the sustainability of the supply chain . Accessions S. Education for employment to the families of employees
11. VOLVO	✓	✓	✓	✓		A. Product improvement. Energy efficiency. Electric Motor S. Support education for food production



Sustainability reports of the industry

Company	Sustainability Reports					Recent Sustainability Reports (outstanding actions)
	GRI	CDP	UNGC	ISO 26000	OTHER	
1. AISIN SEIKI	✓	✓		✓		A. Product improvements and manufacturing processes S. Support for technological education in basic education
2. CONTINENTAL	✓	✓	✓			A. Improved manufacturing processes. Recycled rubber S. Support for Orphanages
3. CUMMINS	✓	✓				A. Best transport process and fuel economy in its supply chain S. Development of remote communities using technologies
4. DANA						A. Product Development . Increased Efficiency
5. DELPHI	✓					A. Energy efficiency for refrigerants and compressors S. Acknowledgements as ethical company
6. DENSO	✓	✓				A. Improved manufacturing processes S. Foundation to meet issues of human diversity
7. FLEX-N-GATE						Not available
8. JOHNSON CONTROLS	✓	✓	✓			A. Product improvement. Using natural fibers. Weight reduction S. Support training of health food bank
9. LEAR						S. Recognition for workplace safety. Support tree planting
10. MAGNA		✓				A. Improved operating margins. Increased profitability S. Financial support for charitable or other organization
11. ROBERT BOSCH	✓	✓	✓			A. Use of biomass for heating systems S. Support for less developed local communities
12. TENNECO						A. Product improvement to reduce emissions in use S. Scholarships for continuing education in local institutions



Deployment of key aspects in automotive industry*

Environment	Efficiency and use of recycled materials <i>Energy efficiency</i> <i>Waste management</i>
External Social Environment	Product security
Internal Social Environment	Industrial relations
Business Model and Innovation	Fuel economy and emissions in use <i>Product lifecycle</i>
Leadership and Governance	Supply of materials source <i>Competitive behavior</i>

* **SASB**

Industry
Supply Chain



Key work sources for sustainability

1.

Cooperation -
Collaboration

2.

Reports

3.

Supply chain

4.

Globalize

5.

Product Usage



Evolutions of manufacturing systems

EVOLUTION OF MANUFACTURING SYSTEMS

MASS

LEAN

SUSTAINABLE