Environmental

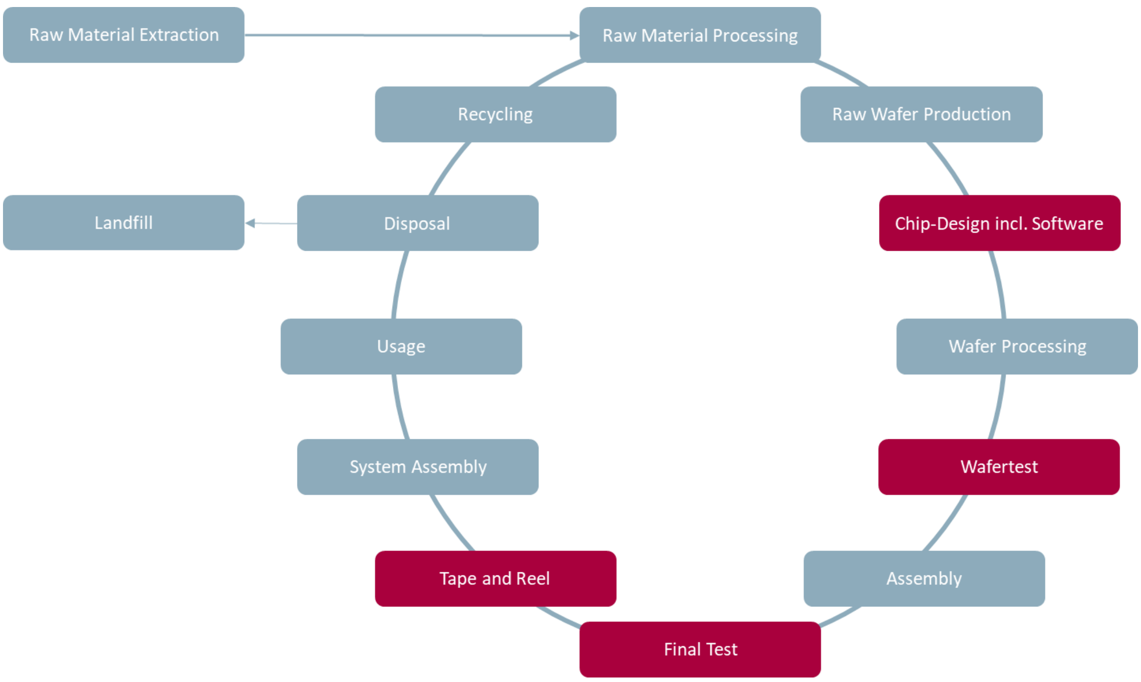
Elmos
ESG Policies

Section:	Environment
Chapter:	Materials
Policy:	Life cycle consideration
Coverage:	Elmos Group
Supported UN SDGs:	
Addressed GRI standards:	301, 306

Note: Based on selected examples, this ESG policy explicitly addresses the life cycle of products manufactured by Elmos. Information on our quality management and compliance with due diligence obligations along the supply chain can be found in separate ESG policies.

Management approach: As a highly innovative and technological industry, it is essential that the semiconductor industry handles the resources it uses with care. For example, as part of our Code of Conduct for Suppliers and Business Partners, we require a reduction in waste volumes and an increase in the recycling of waste produced. At Elmos, we go one step further. Since protecting the environment and using resources prudently are high priorities for our company, Elmos has established a certified environmental management system in accordance with ISO 14001. With the help of this system, we identify resource consumption, such as raw materials, energy, and water, measure and evaluate it, and try to reduce it wherever possible.

Life cycle: The following figure illustrates the life cycle that the ICs we manufacture go through. The process steps marked in red indicate the areas that are in the direct responsibility of Elmos.



Chip-Design: We consider resource requirements right from the product development stage. Through innovation, we strive to reduce structure sizes, lower resource requirements, and decrease the power consumption of our ICs. We also consider the materials used. We try to replace materials with a high ecological footprint with more climate-friendly materials. For example, wherever possible, we substitute gold wires with copper wires in bonding.

Test: Each of the process steps for which Elmos is responsible generates waste, for example in the form of defective ICs and rejects during testing. This waste is sorted by type and, wherever possible, professionally processed and reused (as material or energy). Elmos is proud of its waste utilization rate of almost 100% and its recycling rate of almost 80%. Detailed information on our waste management system can be found in the corresponding ESG policy.

Tape and Reel: ICs are sensitive electronic components, which means that their transport is subject to high requirements. In addition, certain standard packaging types have become established in the semiconductor industry, and all downstream process steps are designed for these. Elmos therefore has little leverage in this area, and plastic packaging is predominantly used. However, the outer packaging used to transport this plastic packaging is made exclusively of cardboard and is therefore completely recyclable. Any filling material that may be necessary is not newly procured but reused from deliveries sent to us. In addition, Elmos uses reusable containers wherever possible, for example, for transporting products between our production site and our logistics site. In this way, we make an active contribution to environmental protection.

Usage: Most of our products are used in the automotive industry, where long service lives of around 10 years are the norm. It can be assumed that the service life of many vehicles, and therefore also of our products, is even longer than this. By continuously developing increasingly energy-efficient products, we are striving to continuously reduce the energy requirements for the use of our products and thus further minimize their environmental impact.

End-of-Life: Ideally, vehicles are disposed of properly at the end of their useful life. We assume that the circuit boards on which our ICs are installed are disposed of properly as electronic waste and, wherever possible, materials are recovered. The components are dismantled into their individual parts and essential materials, such as copper, are recovered for reuse.

Sustainability strategy	ESG/Sustainability strategy
ESG policies	Material composition and management
	Quality and crisis management
	Supply chain management
	Waste management
ESG KPIs	Waste disposal methods
	Waste utilization and recycling quota
Certificates	Environmental Management System Certificate ISO 14001:2015
Accompanying documents	Code of Conduct for Suppliers and Business Partners
	General Purchase Conditions