# QUIZ - Introduction to environmental challenges and waste in the automotive industry

1. What is the automotive industry?

The automotive industry is an important branch of the economy, which includes those activities involved in the design and construction of automobiles.

1. What are the Key Segments in Automotive Industry?
2. Light vehicles
3. Trucks and buses
4. Construction and agriculture
5. Electric and hybrid cars
6. Autonomous vehicles
7. What is the Automotive Industry Value Chain?
8. Input logistics
9. Design and manufacture
10. Engineering
11. Quality and warranty
12. Connected Vehicle Services
13. Marketing and Sales
14. Service
15. What are the Automotive Industry Resources?
	1. Infrastructure
	2. Information technology
	3. Finance and Procurement
	4. Human resources management
16. What are the Key Terms in Automotive Industry?
17. ADAS - Advanced driver assistance systems
18. AV – Autonomous vehicles
19. IoT – Internet technology
20. GPS – On-board diagnostics
21. EV – Electric vehicle
22. HEV – Hybrid vehicle
23. PHEV - Connected hybrid-electric vehicles
24. VEB - Battery electric vehicle
25. What are the Competitive Advantage in Automotive Industry?
26. Sales – short time to sell
27. Quality – increasing customer satisfaction
28. Forecast – predictions about vehicle demand
29. Inventory management – inventory update
30. What are the so-called megatrends in the automotive industry?
31. electrification of industry,
32. connectivity through the use of IoT (Internet of Things) technology and
33. autonomous driving of vehicles.
34. What are the challenges of automotive industry?

The lack of labor and the impossibility of finding qualified workers

1. What ELV Directive prohibits?

Prohibits the use of hazardous substances in the manufacture of new vehicles (in particular lead, mercury, cadmium and hexavalent chromium),

1. What is the management hierarchy regarding the disposal of car waste?
2. preventing the occurrence of waste by minimizing the amount of waste generated,
3. reuse of objects,
4. waste recycling,
5. recovery through energy recovery,
6. final storage (in/on the ground).
7. What are the types of waste?
8. liquid waste;
9. chemical products, such as antifreeze, refrigerants, battery acid (Lead-acid batteries);
10. used washing solutions and emulsions;
11. sludges and industrial sludges;
12. paint waste, including thinner, varnishes and similar;
13. waste with PCB content;
14. used solvents;
15. used oils, including used oil filters and adsorbents;
16. scrap metal, brake pads, bodywork;
17. used tires;
18. recyclable waste (paper, plastic, metals, rubber, glass, etc.).
19. What are ELVs called?

"junk vehicles" or "rescue vehicles"

1. How many categories of ELVs are?
2. Natural ELVs that have reached the end of their life from a technical or economic point of view;
3. Premature ELVs, which are new cars resulting from unwanted events such as accidents.
4. What is the cradle to cradle life cycle?

From the design phase, vehicle manufacturing, operation and maintenance of the vehicle throughout its life, to scrapping and recycling.

1. What are the recycling operations of old vehicles?

a) Delivery and storage of old vehicles for recycling

b) Removal of fluids and hazardous materials from vehicles

c) Dismantling vehicles for usable or recyclable parts

d) Crushing or shredding vehicle bodies

e) Sorting of materials into ferrous materials, non-ferrous materials / other residues

f) Recycling of metal fractions

1. How is metal sorting done?

Sorting is done with the help of large magnetic separators.

1. How is recycled glass?

The waste is sorted by color, then broken and ground, when any impurities are removed.

1. What is obtained by recycling catalytic converters?

 Palladium, Rhodium and Platinum.

1. What are used tires and how can they be recycled?

Are car tires that have reached the end of their life, they can be recycled by Retreading.

1. What are the Challenges for BEV?
2. *Charging infrastructure* (ie, number of fast/turbo charging stations, power line capacity)
3. *Range when not charged*
4. *Competitive prices for BEVs*