**Technology and skills in Automotive**

**Technologies in automotive**

Additive Manufacturing or 3D printing:
- The technology is a game-changer for the industry, thanks to a range of benefits.
- Represents a move towards a more sustainable and efficient production process.
- Enables rapid prototyping and complex structures.

Composites:
- Comprises a combination of reinforcing fibers and a matrix.
- Materials used in aerospace, automotive, and construction owing to their strength and weight.
- Known for their durability and adaptability in various applications.

Plastic electronics:
- Electronic devices printed on flexible surfaces.
- 3,000 people currently employed in plastic electronics in the UK.
- Expected to increase to over 30,000 people by 2027.
- Challenges include material and process development.

**Skills and jobs demand in Automotive**

Knowledge of Additive Manufacturing, Composite and Rapid Production techniques:
- Essential for innovation in automotive manufacturing.

Computer Numerical Control (CNC) experience:
- High demand for precision and accuracy in manufacturing.

Design engineers with CAD skills:
- Vitally important for product development.

Filter, liveries, etc.:
- Aesthetic and safety considerations.

Research and development engineers:
- Constantly evolving industry needs.

Testing, and quality-related skills:
- Ensuring safety and reliability in automotive products.

**What next?**

Improvements in CAD and other design tools.
- New certifications and qualifications.
- Support for small and medium-sized enterprises.
- Investment in sustainability and renewable energy technologies.
- Collaboration with universities and research institutions.