Functional Coatings

- Addressing shortages with new raw materials suppliers
- Ultra-trace impurities detection
- Chemical performance testing
- Production efficiency, automation

Due to high electric vehicle (EV) and autonomous vehicle (AV) demands, the automotive semiconductor market alone, is expected to reach $101 billion by 20261. Combined with ever-rising demands for electronics, multiple industries have stressed semiconductor supplies, causing major manufacturing and logistics disruptions and necessitating ultra-quality assurance and improved throughput.

Protective Coatings

- Antimicrobial, Anticorrosive and Nanocoatings efficacy
- Orthopedic implants
- Contact lenses and medication delivery

By 2050, the over 65 population will nearly double², leading to a great opportunity for the medical device industry. Demand will continue growing for coating chemicals and materials like polymers, ceramics, and material combinations.

Performance Coatings

- Circular economy, renewable materials
- Water-based formulations
- Low VOC, eco-friendly coatings

Regardless of the coating being manufactured, less availability of the raw materials needed affects production and profit margins. The need for manufacturers to contract with new suppliers means that analytical testing must prove quality expectations for raw materials, as well as testing throughout the manufacturing process and final product testing.