## **TECHNOLOGY DEFINITIONS**

ADVANCED COMPUTING	ENERGY
<b>Technologies that support advanced</b> <b>applications of computers.</b> Blockchain, Cybersecurity, Internet of things, Semiconductors, Quantum computing, etc.	<b>Technologies that store, transport,</b> <b>manage, convert and use energy.</b> Biofuels, Electrification, Energy systems, Smart and micro-grids, etc.
ADVANCED PROCESSES	EXTENDED REALITY / FUTURE INTERNET
Advanced technologies for processing and production. Advanced joining & forming, Nanomanufacturing, Biomanufacturing, etc.	<b>Technologies that enhance or replace our view of the world.</b> Augmented reality, Virtual reality, Virtual worlds, Metaverse, etc.
ARTIFICIAL INTELLIGENCE & DATA	MATERIALS
<b>Technologies that leverage computers and data to solve problems and make decisions.</b> Autonomous vehicle, Computer visions, Speech recognition, Virtual agents, etc.	<b>Technologies to develop, process and use materials.</b> Circular materials, Low carbon materials, Nanotechnology, Smart materials, etc.
CHEMISTRY	ROBOTICS
<b>Technologies that use chemical properties and interactions.</b> Carbon capture/utilization, Pharmaceuticals, Synthetic foods, Vaccines, etc.	<b>Technologies that enable machines to perform physical tasks.</b> E.g. Automated construction, Automated mining, Drones, Robotic surgery, etc.
BIOTECHNOLOGY	SENSORS
<b>Technologies that use biological organisms,</b> <b>systems, or processes.</b> Biomass, Biomining, Gene technologies, Synthetic biology, etc.	<b>Technologies that detect or measure physical properties.</b> E.g. Acoustic sensors, Biosensors, Quantum sensors, etc.