20 FOR 20

The technologies with the greatest potential to transform the world over the next decade

1 5G NETWORKS

Will be critical for IoT uses, from robotic surgery to self-driving cars

2 SHARED MOBILITY

Conventional car ownership models are failing to meet urban mobility trends

3 ADVANCED PLASTIC RECYCLING

Mission-critical for firms from CPGs to chemicals

4 SOLID-STATE BATTERIES

Incumbent Li-ion batteries are hitting a performance plateau

5 PROTEIN PRODUCTION

Next-generation protein are needed to feed a population of almost 10 billion

6 COMMERCIAL VEHICLE AUTOMATION

Improvements in operator efficiency and safety will lower operation costs

7 POINT-OF-USE SENSING

Individualized, real-time data enables new business models for B2B and B2C alike

8 3D PRINTING

Increasingly being used to manufacture production parts

9 ENERGY TRADING PLATFORMS

Threaten to disrupt conventional electricity retail

10 NATURAL LANGUAGE PROCESSING

Scalable solution to reduce repetitive tasks and improve efficiency

11 HYDROGEN & FUEL CELLS

Will be integral for growing renewables and decarbonizing industry

12 MATERIALS INFORMATICS

Can dramatically speed development time for materials & formulations

13 QUANTUM COMPUTING

Addresses problems that are unsolvable by conventional computers

14 LAST-MILE DELIVERY

Mobility is shifting to incorporate new modes of last-mile transport

15 BLOCKCHAIN

A tool for establishing trust where regular databases can't

16 BATTERY FAST CHARGING

Infrastructure to quickly add range is becoming a need-to-have

17 OMICS

Biological digital twins can address key challenges in medicine, materials, and agriculture

18 2D MATERIALS

Graphene is displacing conventional materials from composites to electronics

19 FLOW BATTERIES

Offer support to daily wind and solar fluctuations without relying on natural gas

20 VERTICAL FARMING

Meets consumer demand for local produce using less water, pesticides, and energy

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