Department for Science, Innovation, & Technology

Cyber-Physical Infrastructure

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Gemini Call 21 Mar 2023

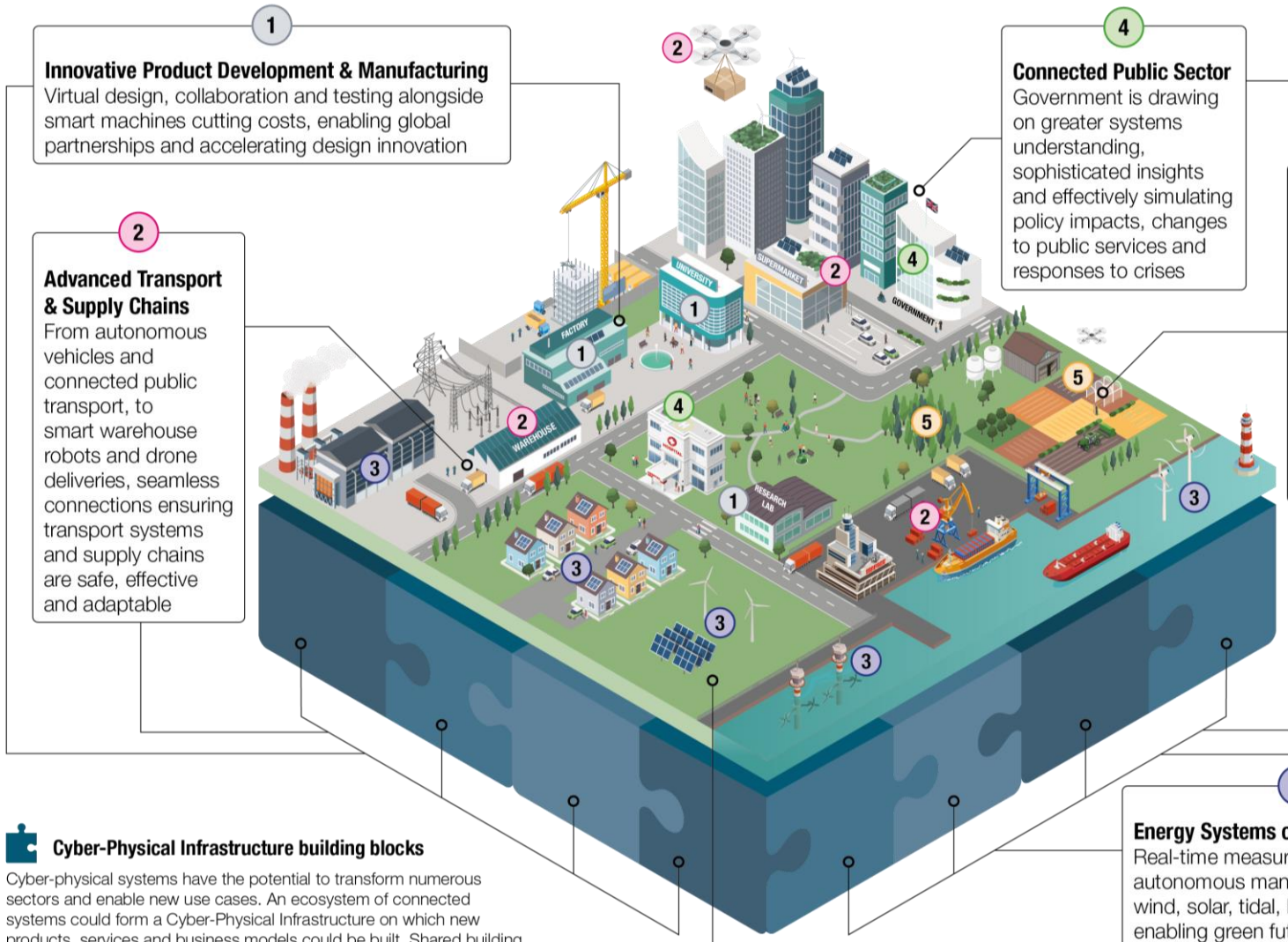
Agenda

The Future Is Convergent

How Do We Want To Get There?

Acting with Industry & Academia

The Future Is Convergent



1 Innovative Product Development & Manufacturing
Virtual design, collaboration and testing alongside smart machines cutting costs, enabling global partnerships and accelerating design innovation

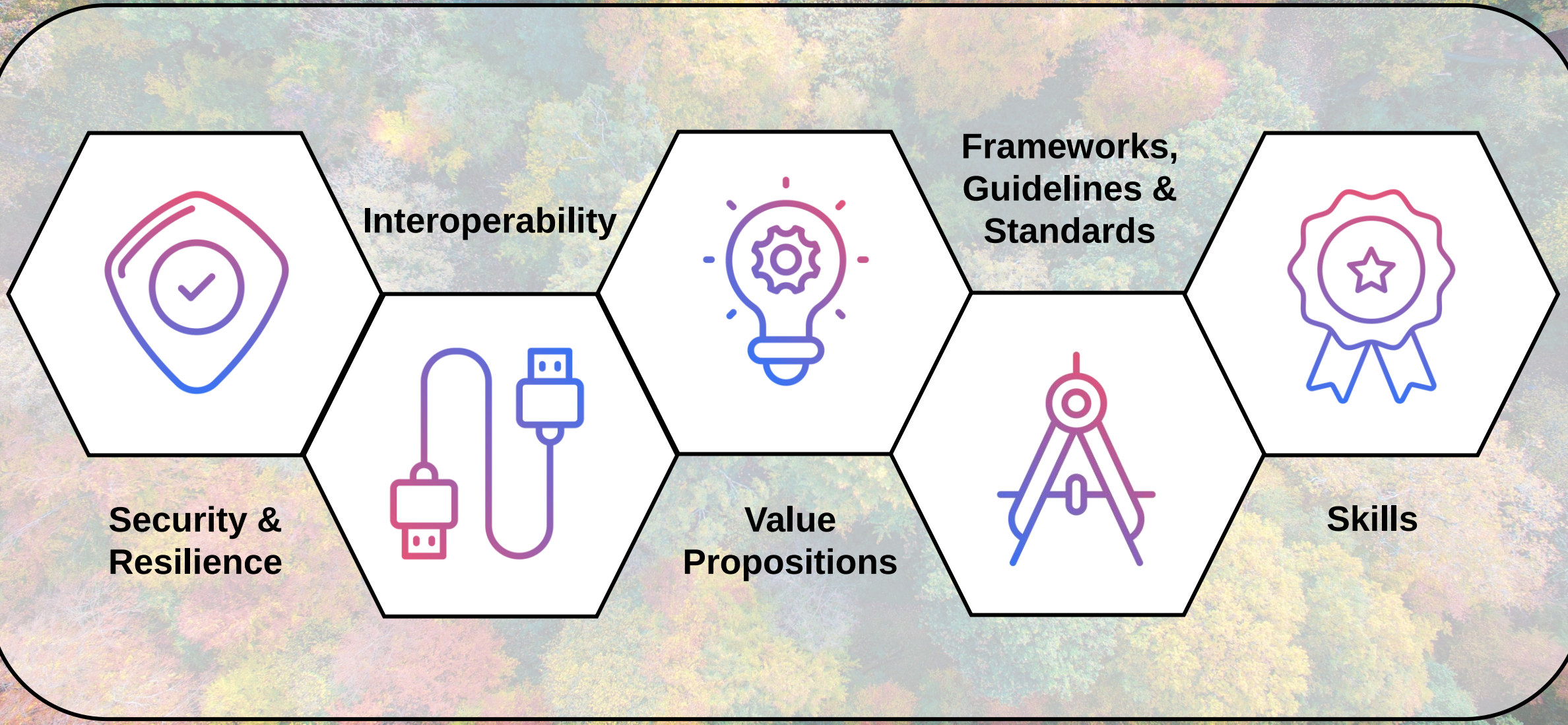
2 Advanced Transport & Supply Chains
From autonomous vehicles and connected public transport, to smart warehouse robots and drone deliveries, seamless connections ensuring transport systems and supply chains are safe, effective and adaptable

4 Connected Public Sector
Government is drawing on greater systems understanding, sophisticated insights and effectively simulating policy impacts, changes to public services and responses to crises

5 Agriculture & Environmental Management
Better modelling, monitoring autonomous management enabling improved environmental quality, animal welfare and agricultural efficiency

3 Energy Systems of the Future
Real-time measurement and autonomous management across wind, solar, tidal, homes and factories enabling green future energy systems

Cyber-Physical Infrastructure building blocks

Cyber-physical systems have the potential to transform numerous sectors and enable new use cases. An ecosystem of connected systems could form a Cyber-Physical Infrastructure on which new products, services and business models could be built. Shared building blocks and interoperability of systems will likely be key enablers of this.

How Do We Want To Get There?