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GEOSPATIAL WORLD FORUM

2022

9-12 MAY 2022 • AMSTERDAM

**THEME: GEOGRAPHY &
HUMANITY**

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CYIENT



DIGITAL TWINS & DIGITAL CITIES

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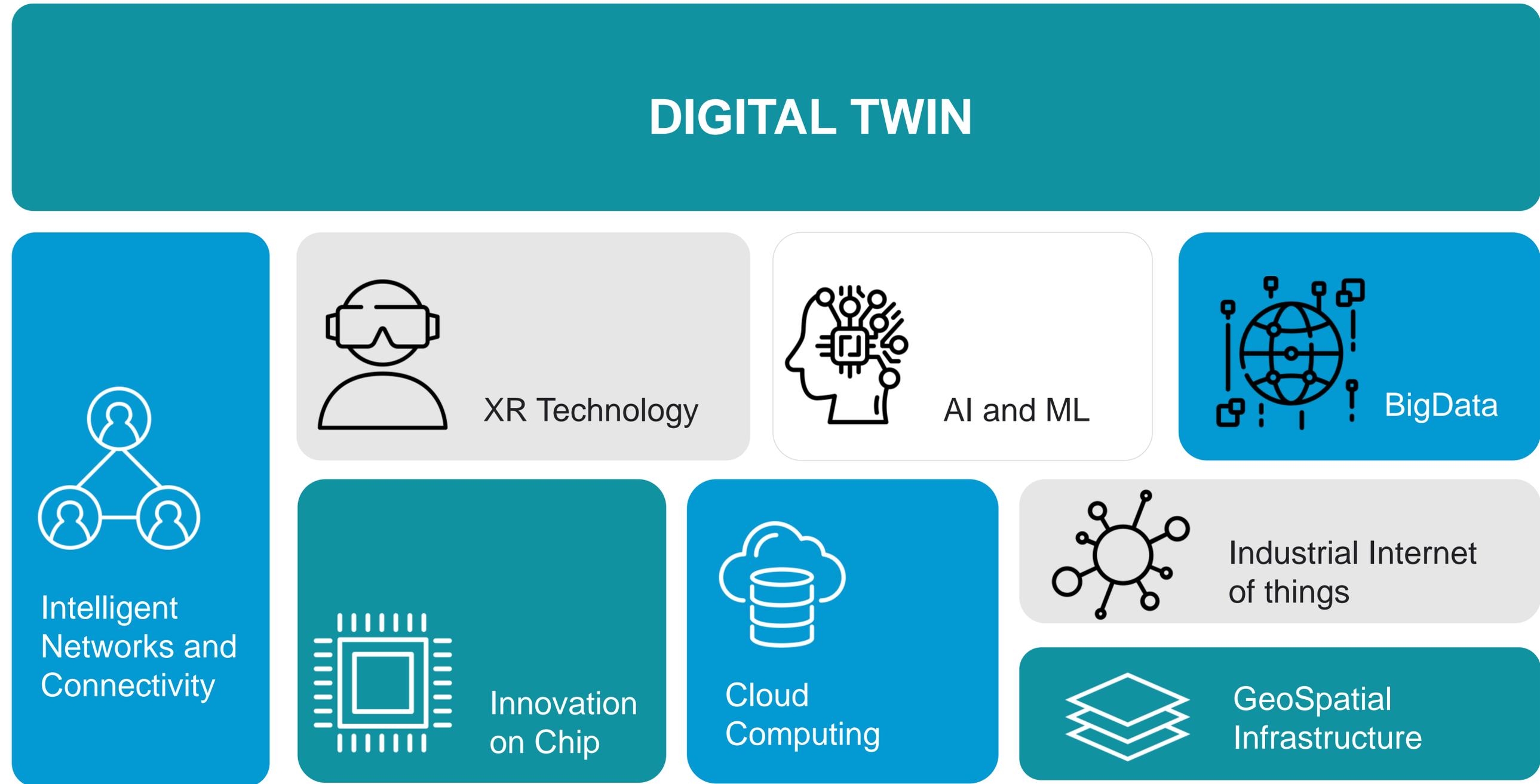
Digital technologies have advanced more rapidly than any innovation in our history.

Data-powered technology is bringing sweeping changes to our societies



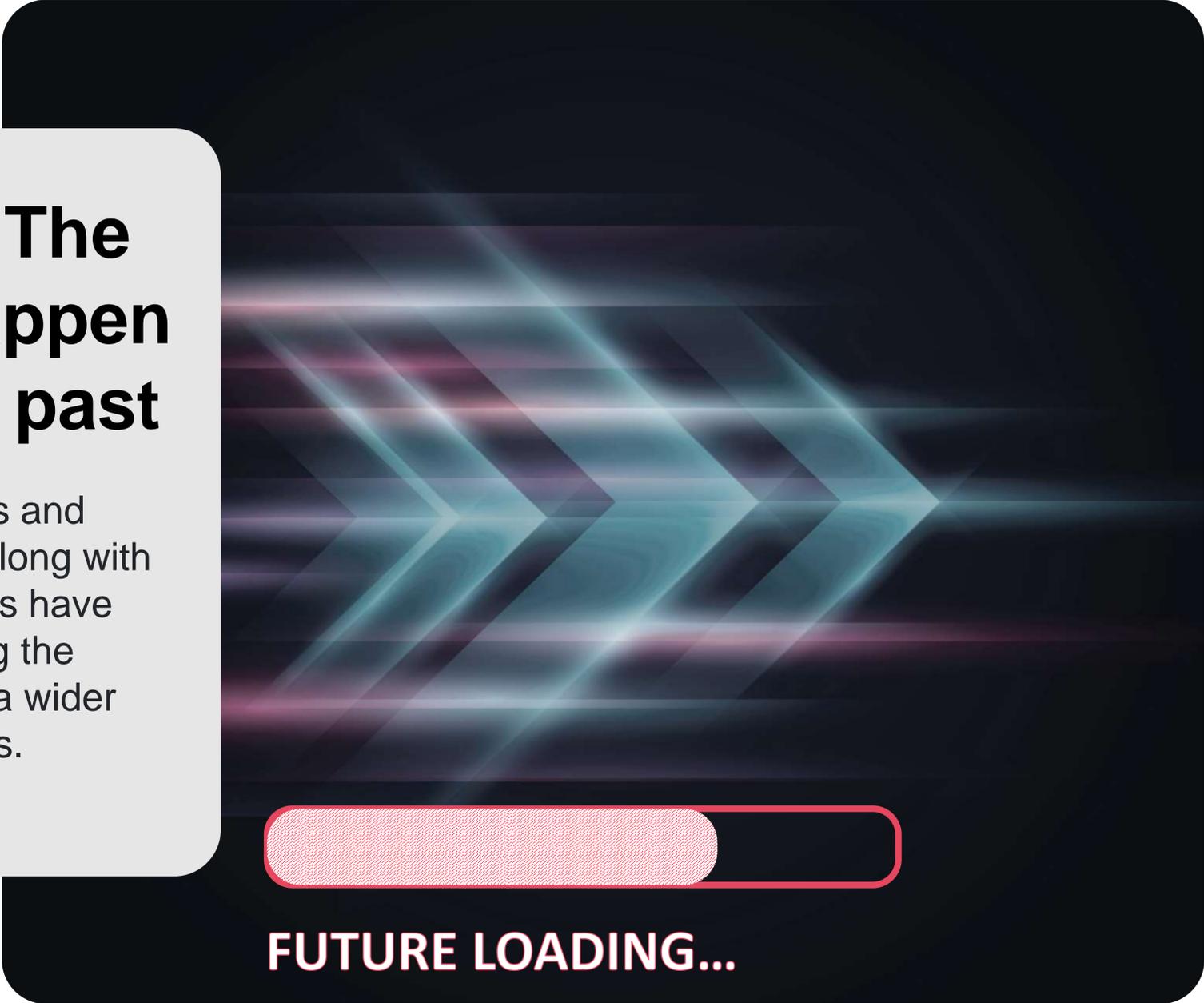
Connecting the Dots on Technology Trends

As our interactions with the digital world become more frequent and more meaningful, an increasingly sophisticated data footprint is beginning to take shape.



Drivers of Growth: The future is going to happen a lot faster than our past

Computing power, communications and algorithms have grown exponentially. Along with smaller sizes, the price of IoT sensors have been decreasing over time, making the technology even more accessible to a wider variety of companies and sectors.



FUTURE LOADING...

Computing power for artificial intelligence is now doubling every 3-4 months

GPT-3 that is [surprisingly good](#) at understanding and using language

The cost to classify one billion images fell from \$1000 to \$0.03 in 2 years between 2017 and 2019

5G is changing the computing game with enhanced power and accessibility

Replicating entire cities in the Lab by integrating geospatial tech with interactive 3D making an impact

The local government in Incheon, the third largest city in the Republic of Korea, has built a digital twin around six pillars: fire response management, traffic, urban sanitation, facilities management, urban development and city revitalization.

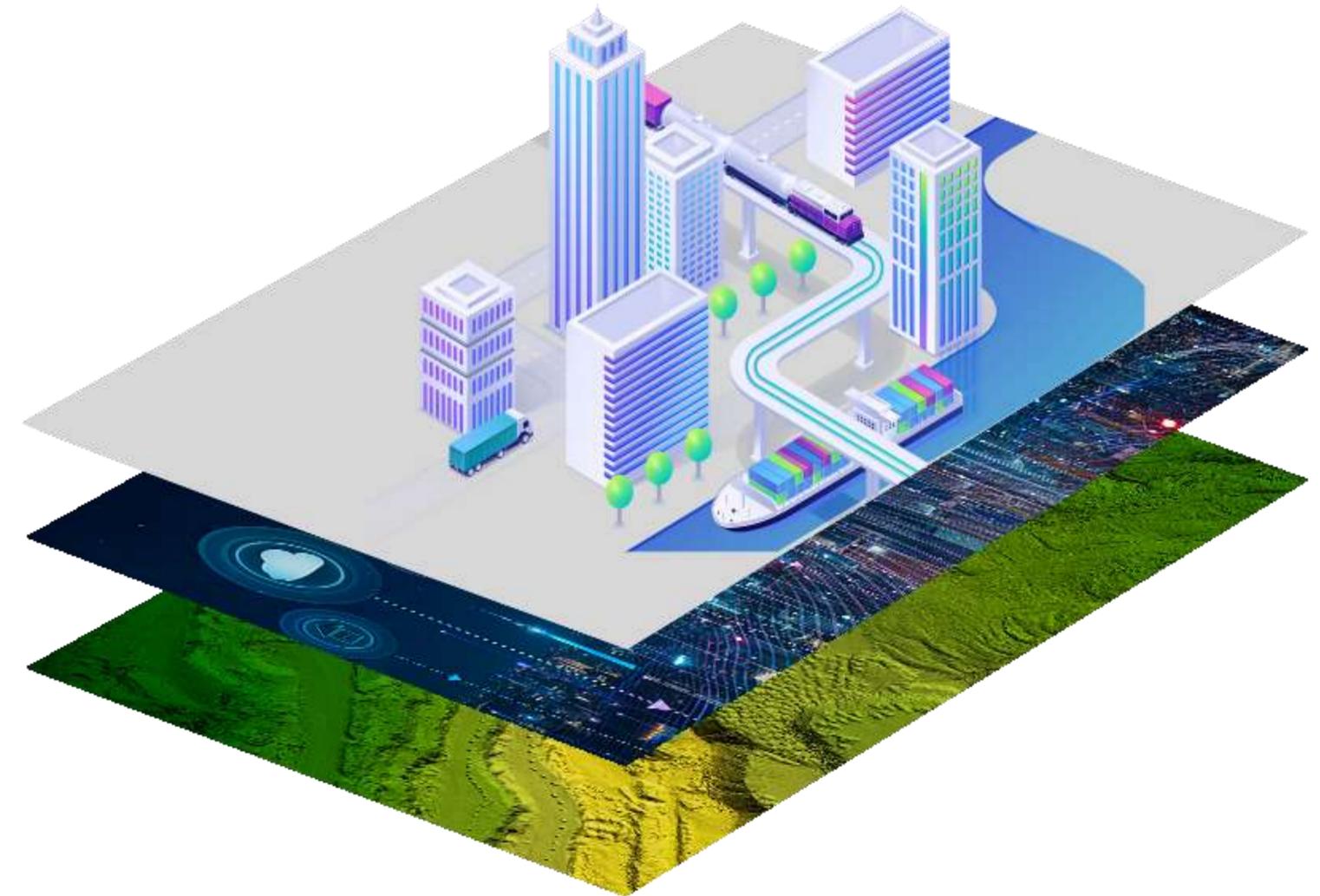
Applications

Visualization Architecture

Communication Networks and Data Compute

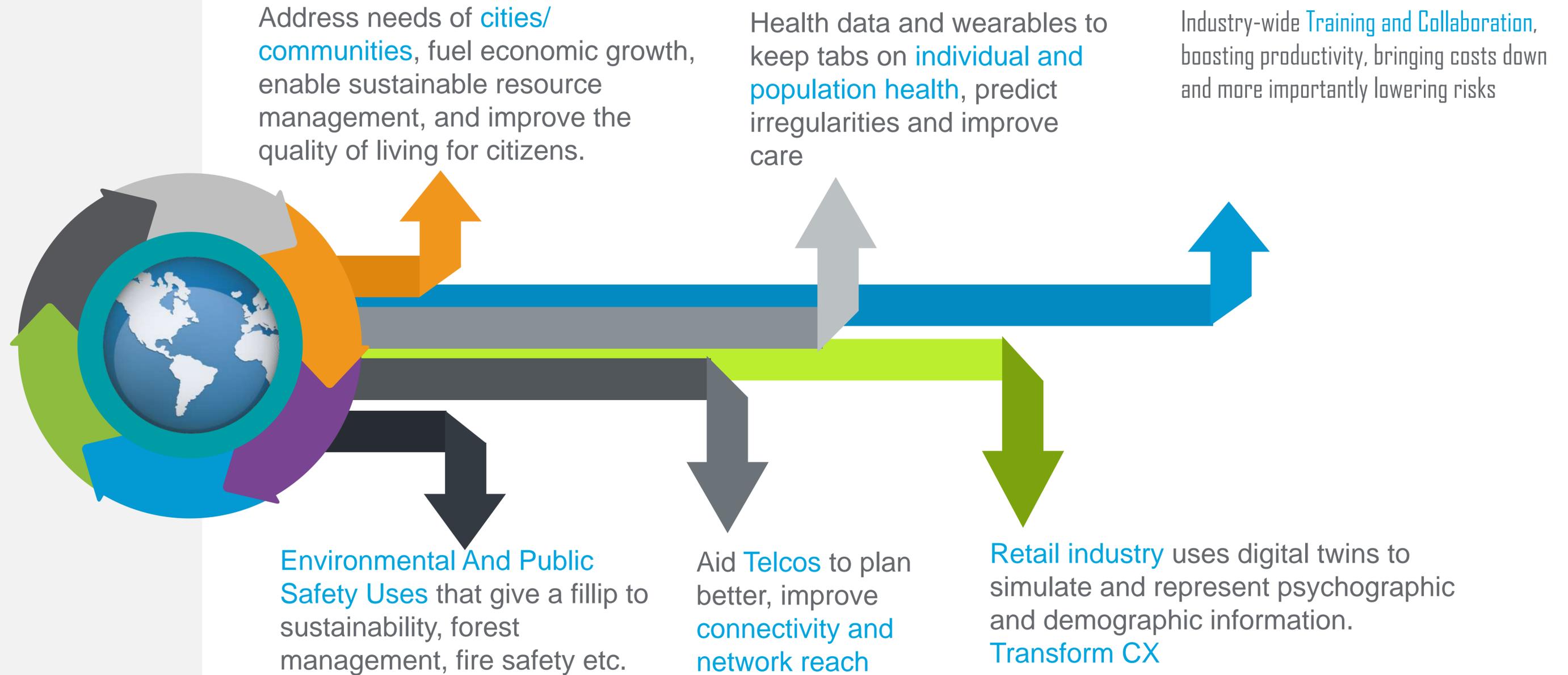
Data Modelling

Geospatial data and Data Collection through IoT



Digital Twin tech in Smart Cities is more relevant today ever before

We can now simulate complex scenarios in countless new and unimagined ways, capture insights and reimagine possibilities and present it all like never before



Allowing Digital Twins to play many roles in changing the world around us

Technology democratization and accessibility is proving to be a key driver of change

The complexity of Technology is abstracted by increasingly intuitive interfaces. NLP, RPA, Low-Code platforms etc. place the power of technology in people's hands. Technology is accessible beyond cities today.



Energy Consumption



Mobility Improvement



Security Monitoring



Urban planning to land-use optimization



Waste Management



Self-Healing Networks



Infrastructure Management



Ultimately leading to our environmental, economic and social sustainability goals

- ★ Improve life of people
- ★ Reduce cost
- ★ Ease of use
- ★ Govern better



THANK YOU CYIENT

Cyient (Estd: 1991, NSE: CYIENT) is a leading consulting-led, industry-centric, global Technology Solutions company. We enable our customers to apply technology imaginatively across their value chain to solve problems that matter..



Design of India's first indigenously developed NB-IoT SoC chip for improved connected solutions in partnership with IITH and WISig



Digital Twin Solution for Smarter Planning to empower electric, telecom and rail companies



Single View Smart City solution for a municipality to better manage assets and utilities



Mapping a Course in Global Road Networks for TomTom in partnership with Cyclomedia

