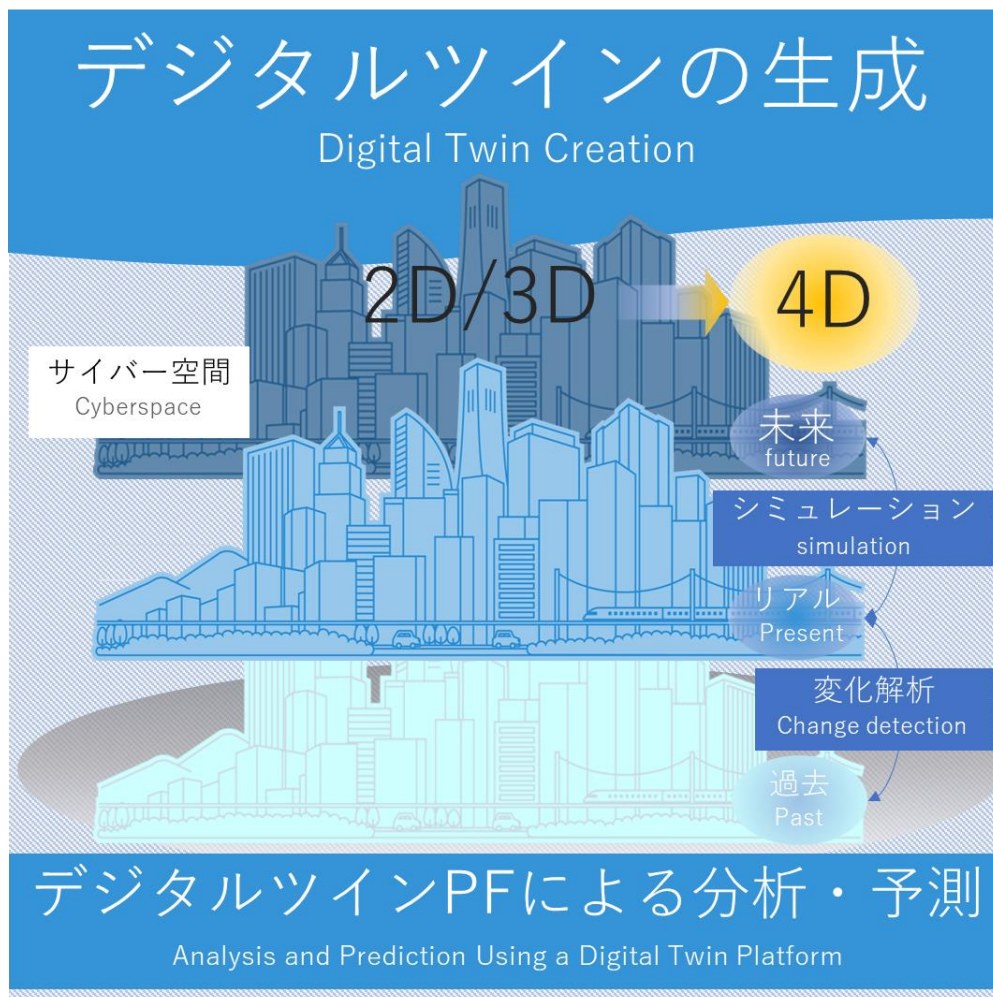## 4D digital twin generation and dynamic analysis/prediction

Maps for city planners to manage cities and infrastructure, predict risks and optimize plans

#Customer Experience Value Creation #Productivity Improvement #Business Resilience

デジタルツインの生成
Digital Twin Creation

2D/3D → 4D

サイバー空間
Cyberspace

未来
future

シミュレーション
simulation

リアル
Present

変化解析
Change detection

過去
Past

デジタルツインPFによる分析・予測
Analysis and Prediction Using a Digital Twin Platform

///Technical Issue

When constructing new buildings or structures, environmental impact assessments are required, but 3D simulations are costly and time-consuming.

///Research Goal

We aim to create a new digital twin market by building 4D digital twin platform.

---Technology

Develop 4D digital twin platform (DTaaS) with seasmlessly integrated content-service packages, powered by frequent satellite 3D map updates.

---Novelty

Pioneering the world's first advanced digital twin platform based on cutting-edge LEO satellite constellations, providing unprecedented high-definition, high-frequency 4D mapping.

---Applicable Business

By leveraging digital twins, telecom companies can optimize base station designs and improve service quality, while smart cities can achieve more sustainable urban development and mitigate heat islands through advanced simulation and visualization.(FY2026) (create a market worth JPY 100 billion per year)