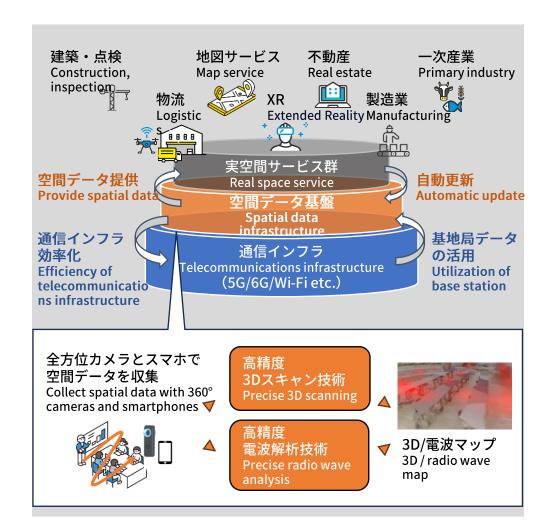


Spatial data infrastructure ~ Precise 3D scanning at low cost ~ Create accurate 3D models for efficient facility

management and improved radio wave quality

#Productivity Improvement



///Technical Issue

Conventional 3D scanning requires expensive LiDAR sensors, making it difficult to introduce.

---Technology

- High-precision 3D map generation employing Gaussian Splatting and AI.
- High-density radio wave map generation by simultaneously estimating position and measuring radio waves.

---Applicable Business

---Novelty

///Research Goal

in various sectors.

 360° camera and 3D reconstruction technology based on AI enable inexpensive and highly accurate 3D scanning.

By realizing accurate 3D scanning at low

waves and reduce implementation costs

cost, we improve the quality of radio

- High-precision radio wave maps are generated by combining with actual radio wave measurements.
- In the telecommunications field, precise understanding of radio wave status and optimal area design. (During FY2025)
- In the building and construction field, progress management at construction sites. (During FY2025)
- In the infrastructure maintenance field, facility inspection and maintenance. (During FY2025)