#Operation Efficiency #Digital Infrastructure #Data-Driven Insights
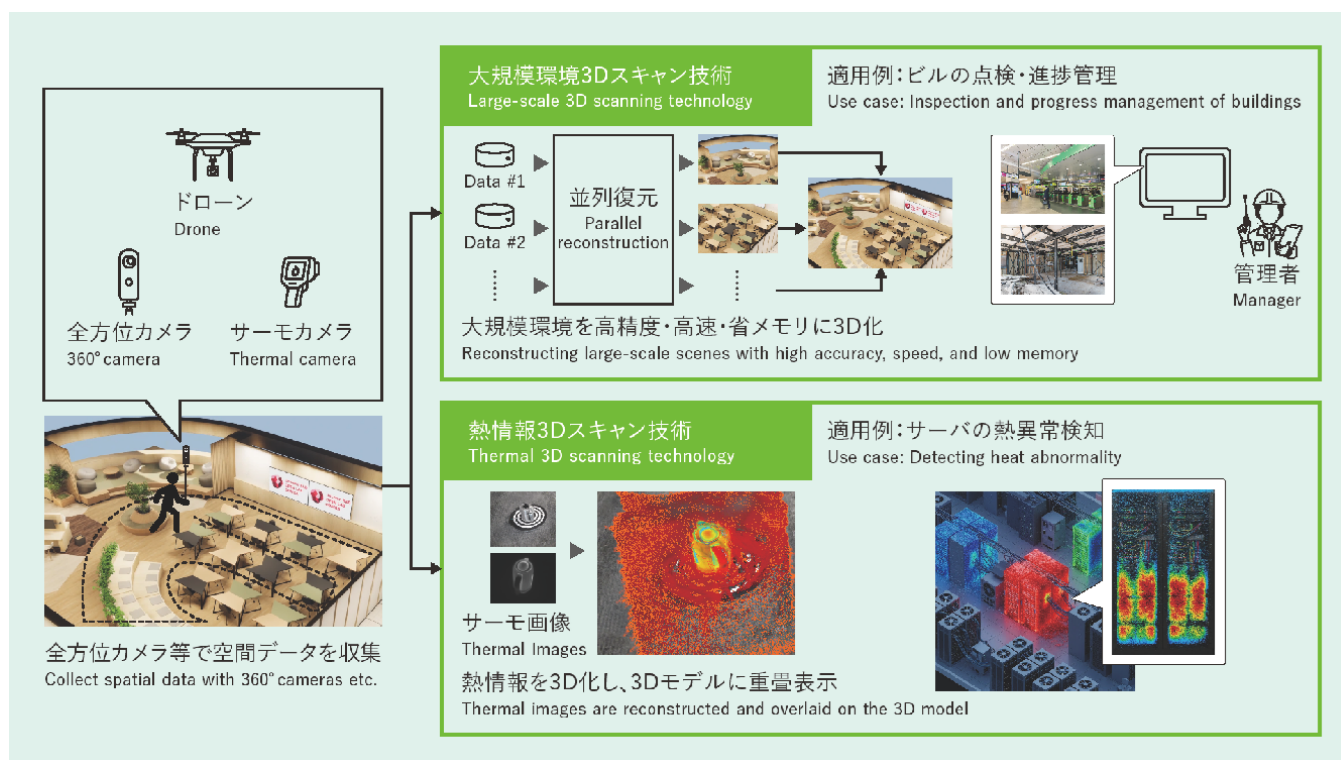
Creating precise large-scale 3D maps including invisible information

Precise large 3D scanning at low cost

Background and Technical Challenges

The adoption of LiDAR has been limited due to its high cost. While camera-based scans offer a cost-effective alternative, they have struggled with low accuracy and long processing times for large-scale environments.

R&D Goals and Outcomes

Enabling fast, cost-effective creation of precise large-scale 3D models with visualization of invisible data.

Key Technologies

01 Core Technologies

- Efficient parallel 3D reconstruction for fast, precise modeling of large environments
- 3D mapping of radio waves and temperature

02 Key Differentiators

Easy, fast, and precise 3D reconstruction of large-scale scenes, and visualization of radio waves and temperature

Use Cases	Construction & Real Estate	R&D phase	Business

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R&D Innovation Division, NTT DOCOMO, Inc.

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Service Innovation Department, Advanced Technology Development Group

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