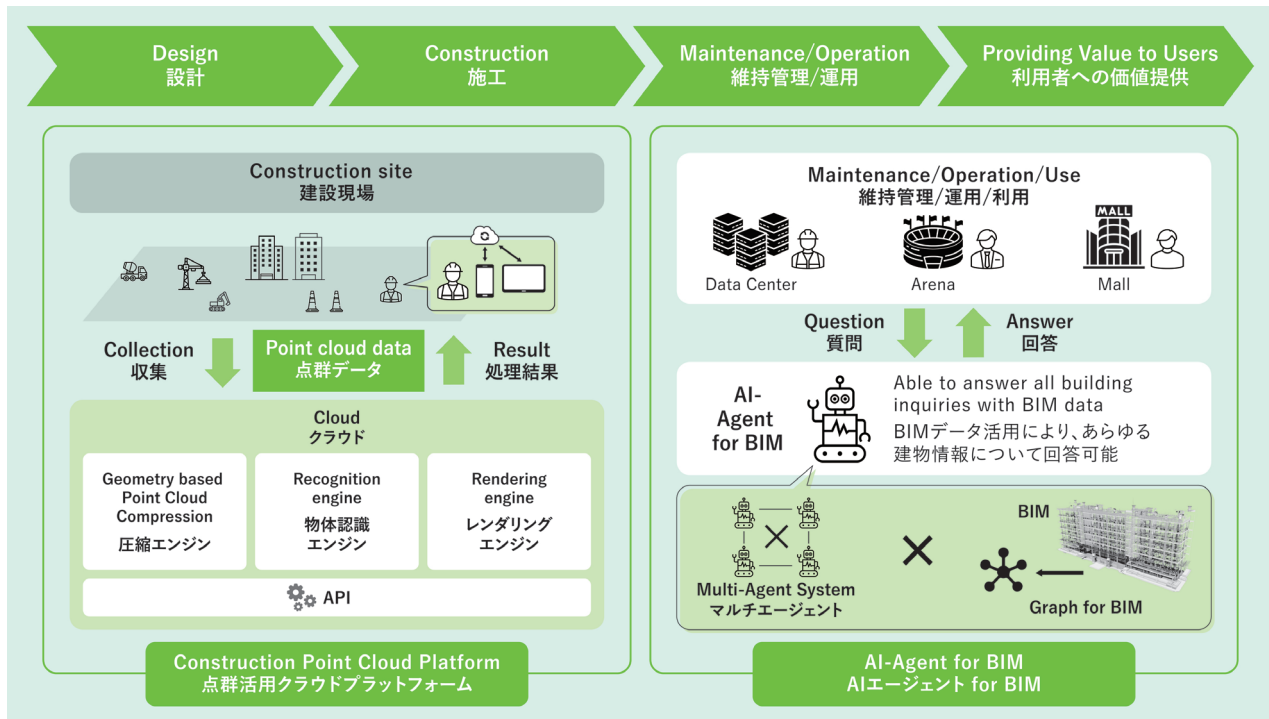


Realizing SF using LLM and innovating construction processes with PC tech

Construction DX via LLM x BIM/Point Cloud

Background and Technical Challenges

BIM and point cloud technologies are vital for construction DX but face adoption challenges. BIM soft is complex and costly to learn, while point clouds require large data, heavy processing, and advanced skills, limiting practical use.



R&D Goals and Outcomes

- A platform for simple point cloud collection boosts construction productivity.
- LLM enables anyone to easily use BIM data.

Key Technologies

01 Core Technologies

- Cloud rendering enables compressed, smooth display of large point cloud data.
- A multi-agent LLM with GraphRAG enables graph-based BIM search.

02 Key Differentiators

- G-PCC-compliant high-efficiency point cloud compression and cloud rendering for smooth mobile display.
- Technology analyzing complex BIM data for intuitive natural language interaction.

Use Cases Construction & Real Estate

R&D phase Development

Technology Schedule FY25-26

Commercialization Schedule FY27-29

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