

SSDI — Sustainable Software Defined Infrastructure

A joint initiative between Wipro-Bentley-Mapped to decarbonize the corporate and commercial real-estate sector

Priorities by Industry

	Office Space	Retail Stores	Malls	Industrial
Regulatory Reporting	\mathbf{E}			
Energy Efficient Space				
Optimal Space Utilization	- } •	•••		
Real Estate-as-a-service	C			
Virtual Fashioning				
System Interoperability				

Needs of an Owner/ Manager



The existing Gap



A representative Building Manager's journey



John Doe is a Building Manager and has the difficult job of balancing Occupant Experience with Operational Expenditure and Sustainability Metrics.



Internal to Wipro

The Solution Construct

We give you a cognitive platform to track, analyze, optimize and lay the foundation for next generation infra-as-a-service





Smart Applications (Corporate & Commercial Real Estate)

Whole Life Carbon Emissions Management

Embodied and Operational Carbon Emissions Management through performance reporting and Green Certifications – LEED, BREEAM, ISO 50001

Energy Optimization

Optimizes energy consumption in real-time across building spaces and equipment through anomaly detection and building/ HVAC simulations

Lean Waste & Water Management

Optimizes resource consumption through waste minimization, water consumption, water leakage, etc. with data from IOT devices and sensors

Space/ Layout Optimizer

Manages and improves space utilization and occupancy with data from IOT devices and sensors

Equipment Performance Optimizer

Create predictive and condition based maintenance schedules with AI/ Machine Learning

Performance Cockpit

Visualizes building performance in Cognitive Dashboards with KPIs

Link to Sustainability KPIs

iTwin Mapped Wipro IPs

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We differentiate with speed, scale, and innovation



The Ecosystem Construct

Mapped Mapped | Data infrastructure for IoT, powering the API economy

Wipro

· Data Analytics and Al

- Data infrastructure for Commercial and Industrial IoT
- Simple, seamless, and secure data accessibility

• Smart/ Green app development

- Seamless Access to Engineering Data
- Cognitive 3D Visualization and Simulations

Microsoft Azure

• Hyper-scalar Infrastructure

Bolt-on Partners

- IBM (Tririga & Maximo)
- Here Maps (Indoor Navigation)
- ENTRNCE (Energy Transparency)

Customer Benefits

Phases of SSDI Journey

Solution Architecture

Integrated Mapped Data Infrastructure, Azure PaaS

SSDI Sustainability KPIs

Link to Smart Applications