

# HMAX — Recurring Digital Services



## HMAX by Hitachi

A portfolio of next-generation solutions that transform social infrastructure with AI.

By leveraging vast amounts of data generated from both physical and digital assets and enhancing advanced AI with Hitachi's unique and deep domain knowledge, HMAX addresses the most complex challenges facing social infrastructure and delivers the greatest outcomes and value to customers and society.

### HMAX Energy

The suite of digitally-enabled services for critical energy infrastructure offers the optimization of asset life cycles through data-driven insights, the early prediction of issues through asset monitoring as well as proactive maintenance to reduce risk and extend asset life, enabling the increase in operational efficiency and grid reliability.

#### Domain Knowledge

- Global leader in electrification—pioneering HVDC, transformers, switchgear, power electronics, automation, software and services
- World's largest installed base of transmission and distribution equipment with over 500,000 assets



Safeguarding power infrastructure by reducing equipment failures, extending asset lifetime and optimizing operations

**Up to 60% reduction**

in revenue loss from equipment downtime

[Energy \(P. 13\)](#)

### HMAX Mobility

A comprehensive suite of intelligent transportation systems (ITS) covering public transit, including fleet management, automated vehicle diagnostics, passenger information systems and EV\* management. By integrating these capabilities into the HMAX Mobility digital asset management platform and building an operational digital twin, HMAX Mobility leverages AI and edge computing to maximize asset performance and optimize costs.

\*EV: Electric Vehicle (e.g., electric buses and other electric vehicles)

#### Domain Knowledge

- Rolling stock manufacturing and maintenance
- Signaling system manufacturing and maintenance
- Traffic management systems



Optimizing replacement timing for parts, maintenance workforce allocation, cost reduction and workforce transformation

**Up to 15% reduction**

in maintenance costs

[Mobility \(P. 15\)](#)

### HMAX Industry

We offer a wide range of solutions for the industrial area including buildings and factories to advance safety, productivity, quality and environmental sustainability. By leveraging physical AI, which integrates high-precision data from our highly reliable products and measurement equipment with our deep domain knowledge, we autonomously optimize onsite operations. Through these solutions, we contribute to maximizing customer value and driving global industrial transformation.

#### Domain Knowledge

- Manufacturing, operation and maintenance of highly reliable products supporting a wide range of industries
- Tacit and explicit knowledge rooted in industrial operations



Realizing time to market, productivity improvement & quality assurance, energy efficiency improvement, zero downtime

**16% reduction** in energy consumption,  
**3% improvement** in facility management costs  
by optimizing equipment operations and facility management

[Connective Industries \(P. 17\)](#)

## Transforming social infrastructure to drive customers' sustainable growth

By enhancing the efficiency and resilience of the social infrastructure that supports society, cities and industries, we drive customers' business transformation, create new value and realize sustainable growth.