

PLM Road Map™ & PDT North America 2025

*PLM's Integral Role in Digital Transformation From Strategy to Execution
Elevating PLM to an Enterprise Business Solution,
the PLM Professional's Road Map to Success
May 7 & 8*

CIMdata

eurostep

HITACHI

Hitachi Energy

Unlocking Business Growth Through Digital PLM & Digital Thread Transformation

Caroline Gustafsson, Grid Integration

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Welcome to Hitachi Energy

HITACHI

Our Purpose

Hitachi Energy – Advancing a sustainable energy future for all

We are advancing the world's energy system to be more **sustainable, flexible, and secure**. As the **pioneering technology** leader, we collaborate with customers and partners to enable a sustainable energy future – for today's generations and those to come.

Our mission is to enable a **carbon-neutral energy system** through **renewable integration and highly efficient end-to-end electrification**



We are at an 'Energy Supercycle' – a transformative era driven by the accelerating shift to renewables and electrification. The challenges before us are significant and bigger than one company, one team, and one individual.

Addressing this surge demands reimagining partnerships with our customers across industries and alongside governments to push the boundaries of innovation, business models, standards, and technology.

*At Hitachi Energy, we are driving this transformation to **advance a sustainable energy future for all.***



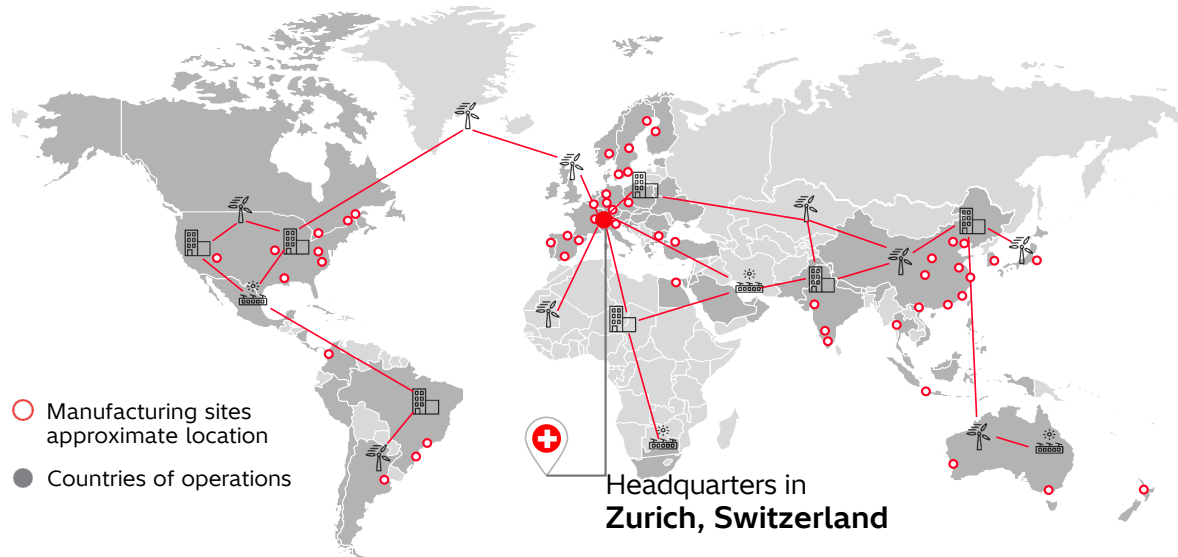
Andreas Schierenbeck
CEO, Hitachi Energy

About Hitachi Energy

HITACHI

~45,000 employees	150 nationalities
60 countries	250 years' heritage combined
~\$13 billion USD business volumes	

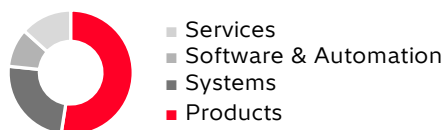
Business Units	Grid Automation
	Grid Integration
	High Voltage Products
	Service
	Transformers



Customers



Offering



Geographies



250 years of collected heritage between ASEA – Brown Boveri (ABB) - Hitachi

Grid & Power Quality Solutions and Services

Driving the Energy Transition across the entire grid.



Grid Solutions

Grid-eXpand™

Grid-eXpand™ Connect
Grid-eXpand™ Solar
Grid-eXpand™ Offshore
Grid-eXpand™ Mobile

- Pre-engineered, modular & prefabricated
- Fast & easy deployment and energization on-site
- Scalable to allow easy upgrade or expansion
- Customizable for specific application needs and comply with local grid codes

Power Electronics

Grid-enSure™

SVC Light®
SVC Light® Enhanced
SFC Rail, Hydro & Grid Interties

- Dynamic voltage support with grid forming control
- Synthetic inertia & fast frequency response
- Increasing flexibility and interoperability using power flow control
- Interconnectivity of networks

At the edge

Hydrogen

HyFlex™ Hydrogen Power Generator
Grid-to-Stack

- Linking molecules & electrons
- Power conversion solutions for large scale hydrogen production
- Fuel cells as an alternative to diesel generators

Grid-eMotion®

Grid-eMotion® Fleet
Grid-eMotion® Flash
Grid-eMotion® Mining

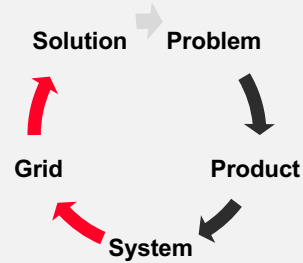
- Scalable architecture
- Lower losses, footprint and CAPEX for large-scale applications

Different value proposition in the core of each segment.

What makes us leaders in energy transition?

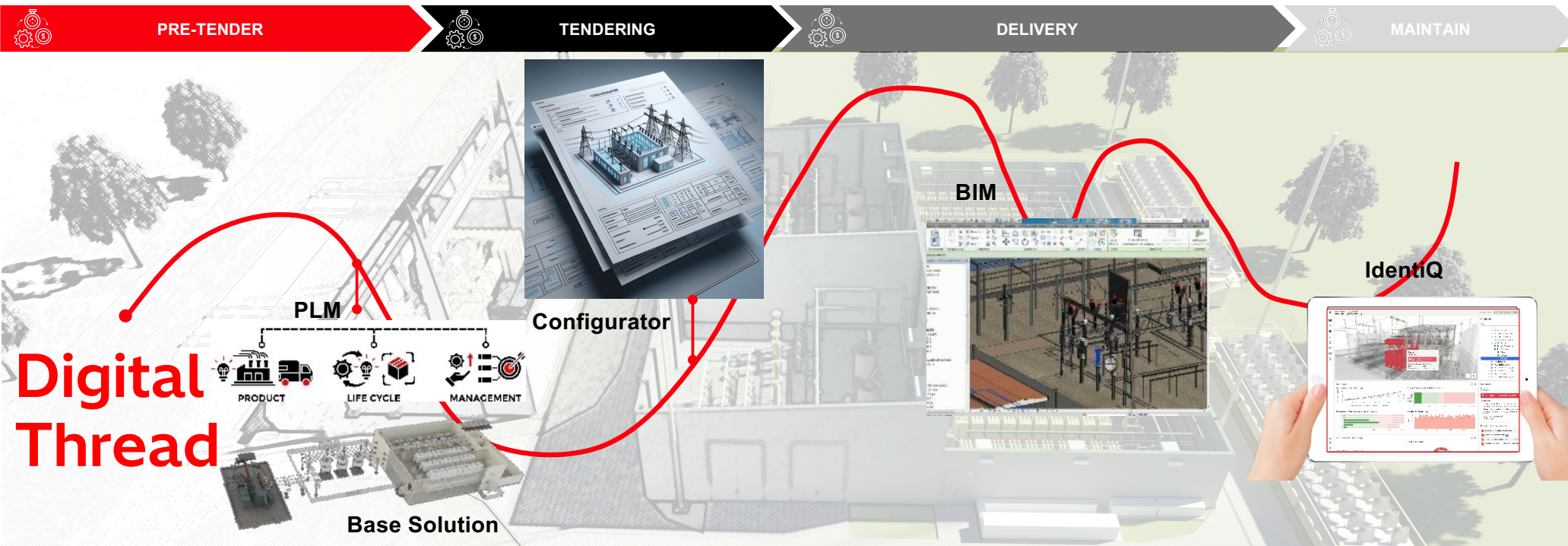
- Our customers rely on us and our:
- Systems thinking
 - Core technical knowledge
 - Application knowledge

We are **bridging the application knowledge gap**



The “Digital Thread” **vision** – overcome siloed functional perspectives

Connected data flow throughout the lifecycle end-to-end



The Digital Thread paradigm delivers the correct information to the right place at the right time

Digital PLM Transformation for Hitachi Energy's GPQSS Business

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Imperatives

Driving Growth & Efficiency

- **Revenue Opportunity:** GPQSS revenues projected to grow through 2030—requires innovation and collaboration to capture value.
- **Evolving Business Models:** Shift to complex products demands agile models like Configure-to-Order for faster launches and support.
- **Capability Gaps:** Fragmented tools and processes hinder efficiency and consistency across the product value chain.



Leveraging **Hitachi Digital Services** PLM expertise to unlock 'business growth with Digital PLM



OPPORTUNITIES

Accelerating Transformation with Digital PLM

- **Adopt Next-Gen PLM:** Deploy Teamcenter-based Digital PLM and Digital Thread.
- **Streamline Processes:** Automate and simplify workflows for greater efficiency.
- **Standardize Smartly:** Use out-of-the-box PLM with tailored configurations to fit GPQSS.
- **Close the Loop:** Integrate design, quality, and compliance for full value chain visibility.
- **Deliver Impact:** Boost innovation, speed, quality, and compliance.

Digital PLM Transformation Program



THE JOURNEY

1

Assessment & Roadmap

2

Implementation Preparation

3

Implementation: Walk

4

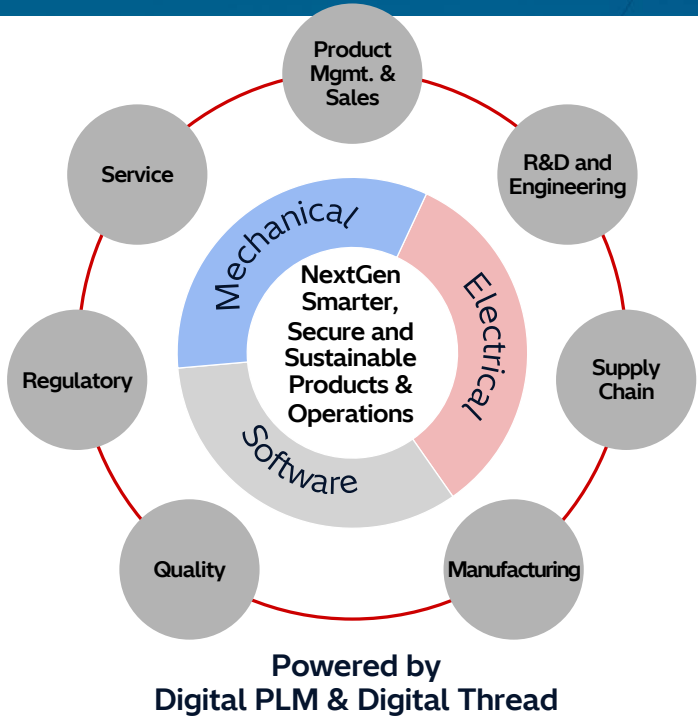
Implementation: Run

5

Implementation: Fly

Strategic Vision for Digital PLM Transformation and Value Delivery

Resilient Digital Operating Model



Closed-loop value chain and collaboration

Multi-disciplinary and integrated product development & lifecycle

Smarter, secure and sustainable products, assets and operations

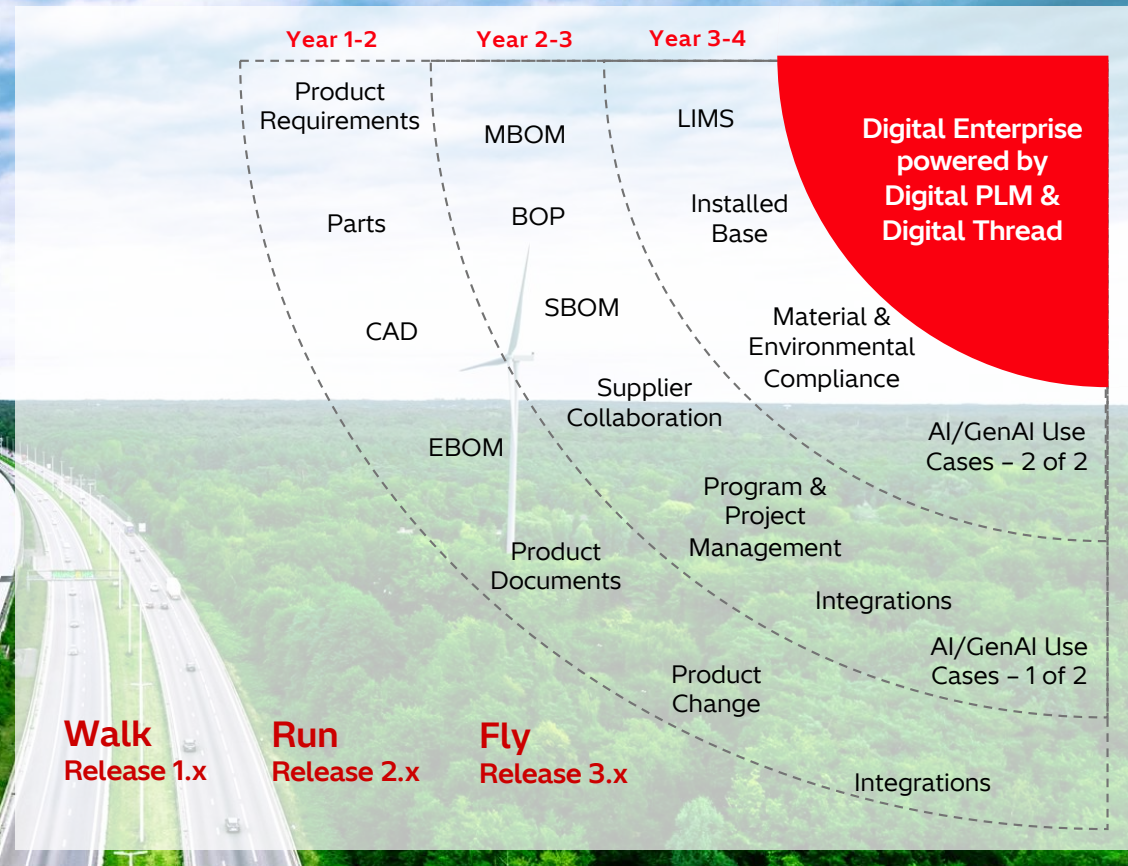
↓ Cycle time reduction by 40%

↑ Quality improvement by 25%

↓ Cost reduction by 20%

Multiyear journey with balanced roadmap for Speed & Success

A structured Walk-Run-Fly approach with incremental and accelerated release cadences that enable faster value realization while minimizing risk.



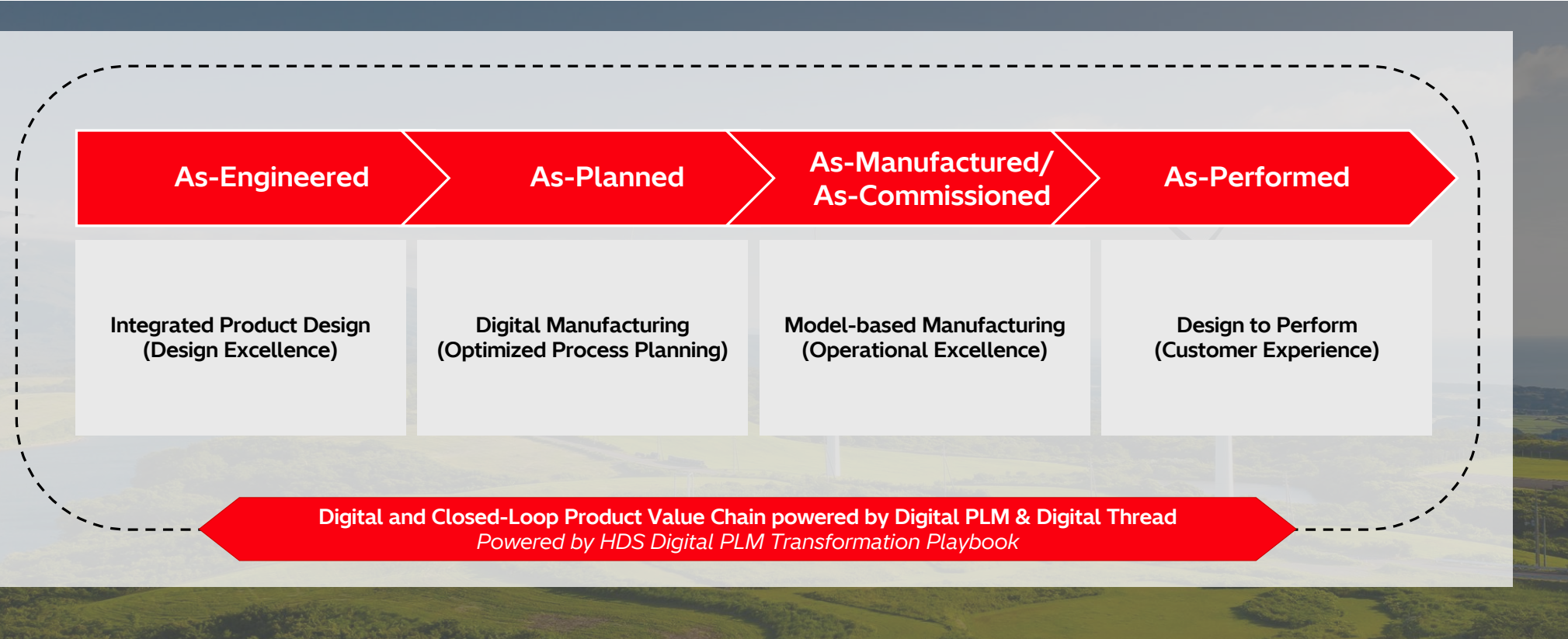
Walk
Release 1.x

Run
Release 2.x

Fly
Release 3.x

Embracing the Digital PLM & Digital Thread strategies and technology platform enables us to seamlessly innovate, engineer, source, manufacture, sell, and service products, driving both top-line and bottom-line growth

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Key Best Practices & Lessons Learnt

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Align Digital PLM and Digital Thread Goals with **Business Strategy** and outcomes

PLM is **not a tool** implementation – focus on People, Processes, Data and Technologies and establish a cross-functional governance. **Close to business**

Team up with people and companies who has done this before

Change Management! Don't Underestimate the People Side of Transformation. Align terminology

It is a marathon – manage expectations from stakeholders and how value will be delivered. **Management support important**

Chop the elephant



Q & A

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