Proficy Orchestration Hub 2022 from GE Digital

Increase throughput with orchestrated, up-to-date Manufacturing Product Data Management across your enterprise

Stay in sync with constant updates to product manufacturing data for higher quality and throughput

Is your manufacturing struggling with varied products to overcome supply chain issues and meet consumer demands? Constant product innovation introduces variability and inefficiencies into daily processes.

With more products and/or regulatory standards, production gets out of sync with the latest product manufacturing information, resulting in lower quality, increased waste, and operations headaches.

Now, Proficy Orchestration Hub enables you to stay in sync with the constant updates to product manufacturing information. This solution, based on proven GE innovation, provides out-of-the-box tools to unify product manufacturing information from disparate data systems such as ERP and PLM, transforms and organizes this raw business-oriented information into production-ready formats including recipes and specifications, and orchestrates the information across your factory floor systems at a single site or multiple sites.

Tired of cobbling together plant systems or manually trying to capture the right product manufacturing data on paper? Increase throughput, reduce waste, and improve quality with Proficy Orchestration Hub and manufacturing product data management at your fingertips.

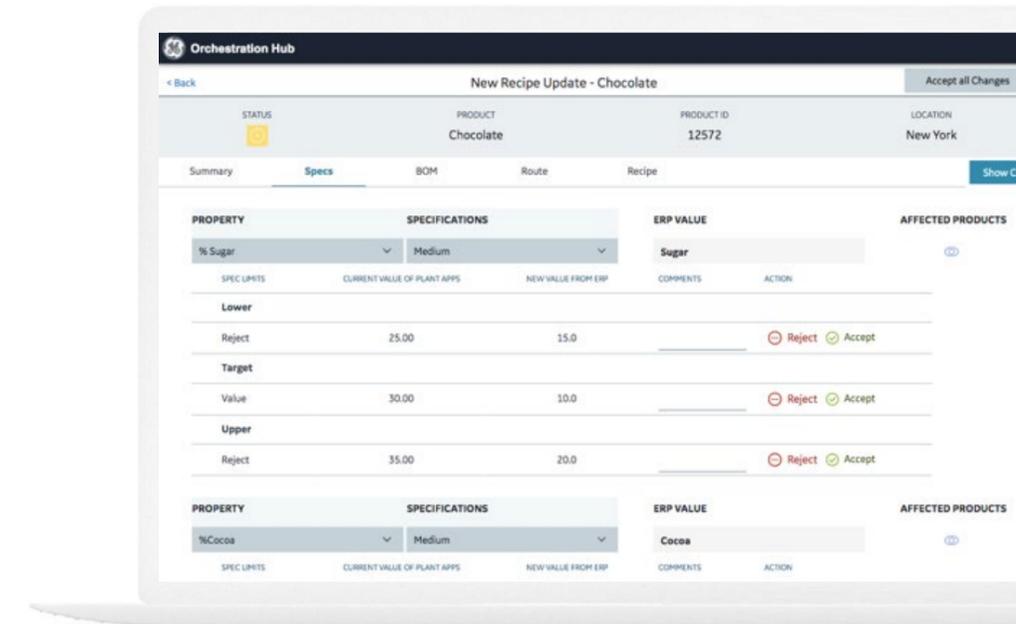### Speed time to market with accurate product data based on unified-systems information

Proficy Orchestration Hub provides Manufacturing Product Data Management based on information unified across key systems. Manufacturers achieve an easy-to-use connectivity tool that facilitates mapping of product data from different systems such as ERP and PLM into MES solutions such as Proficy Plant Applications.

Gain flexibility to maintain and manage product variances with compliance

Proficy Orchestration Hub's out-of-the-box Operations Product Data Management UI helps transform the business-centric product data to relevant product context as recognized by MES systems. The software parses the Manufacturing Product Data, organizes it into product context, and provides a comparative map to the product attributes within the MES.

As users orchestrate this data flow, Proficy Orchestration Hub records and allows users to analyze the nature of updates to manufacturing product data at a given plant.

Furthermore, Proficy Orchestration Hub supports storing deviations and comments for those deviations, recorded as variances, to provide
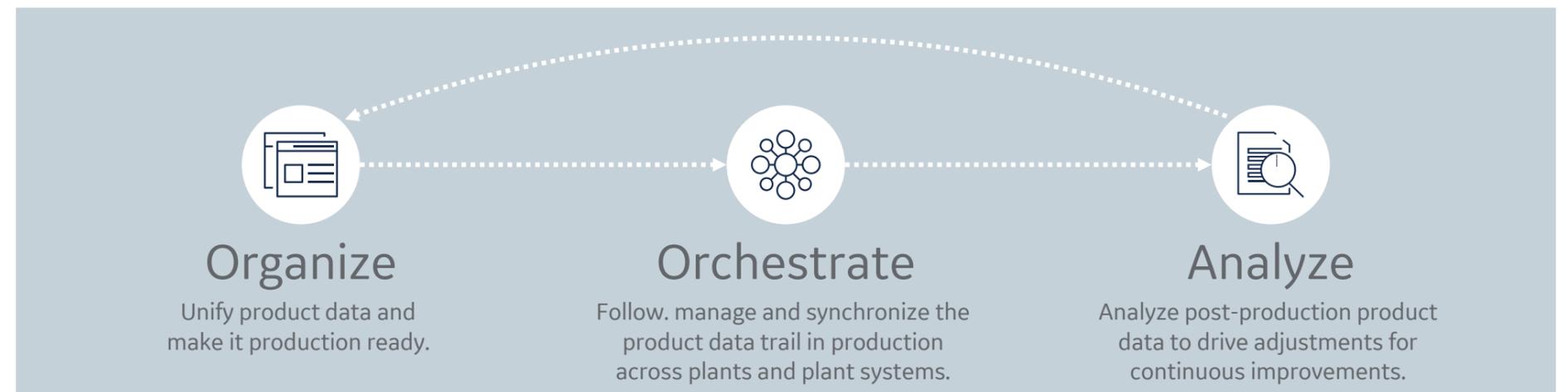

visibility into a plant's adoption of the Manufacturing Product Data changes. A single-button publish to Proficy Plant Applications makes it easy to adopt changes in bulk.

With Proficy Orchestration Hub, manufacturers can decrease quality variability due to ad-hoc modifications as well as the non-productive time and manual efforts trying to execute standard production work. Stop cobbling together systems and using paper today by digitizing and driving consistency with Proficy Orchestration Hub.
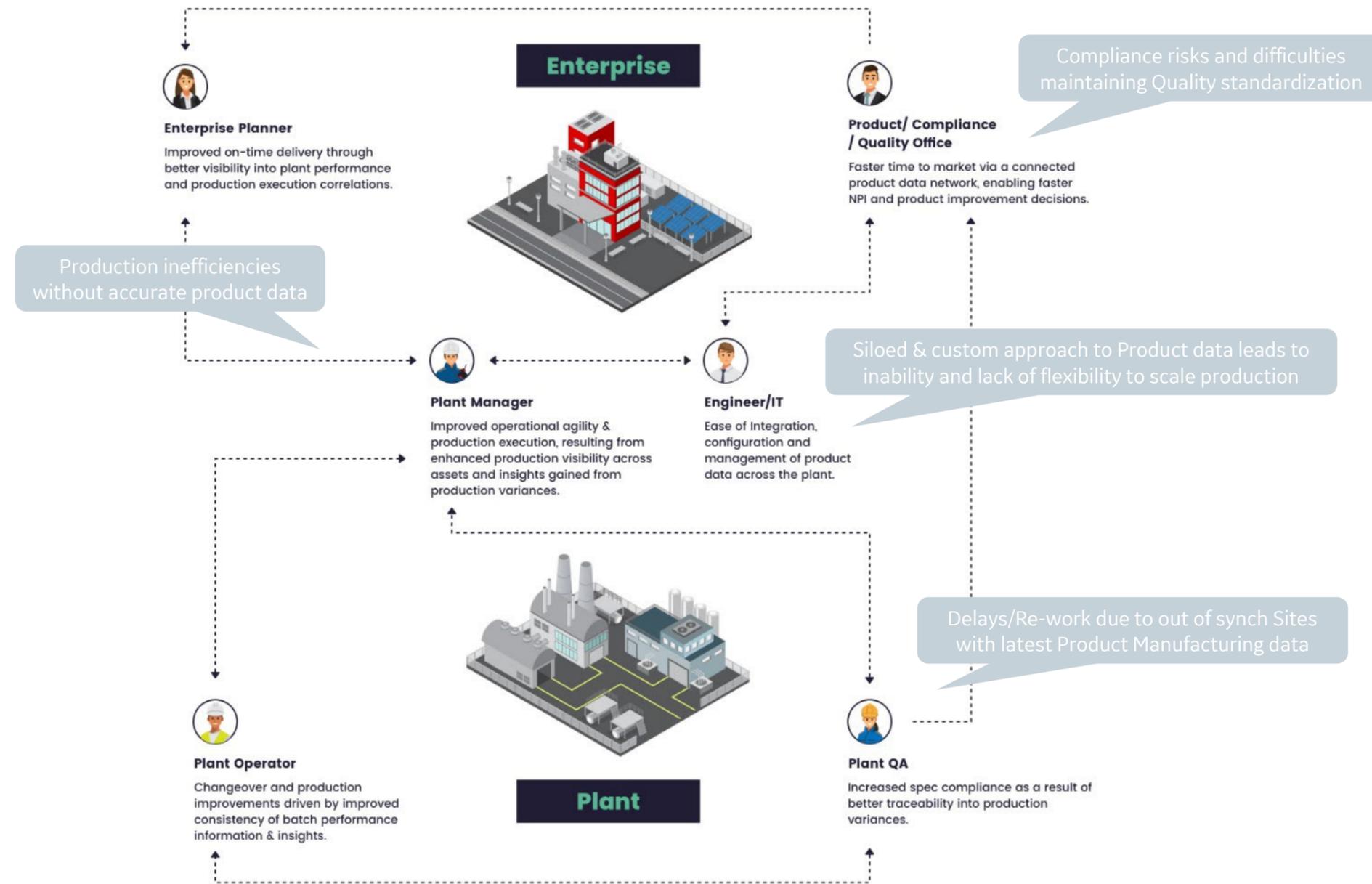
Outcomes

- Increase production throughput and speed time to market by digitizing orchestration of Manufacturing Product Data Management
- Eliminate manual errors that lead to delays and waste
- Increase quality with convenient and timely updates that ensure products meet customer specifications
- Decrease rework and lost revenue due to rejects or repurposing
- Meet production goals by ensuring teams have the right information at the right time
- Accelerate adoption of production changes with a seamless, connected approach to manufacturing product data

Organize
Unify product data and make it production ready.

Orchestrate
Follow. manage and synchronize the product data trail in production across plants and plant systems.

Analyze
Analyze post-production product data to drive adjustments for continuous improvements.

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Enterprise

Enterprise Planner
Improved on-time delivery through better visibility into plant performance and production execution correlations.

Product/ Compliance / Quality Office
Faster time to market via a connected product data network, enabling faster NPI and product improvement decisions.

Plant Manager
Improved operational agility & production execution, resulting from enhanced production visibility across assets and insights gained from production variances.

Engineer/IT
Ease of Integration, configuration and management of product data across the plant.

Plant Operator
Changeover and production improvements driven by improved consistency of batch performance information & insights.

Plant QA
Increased spec compliance as a result of better traceability into production variances.

Plant

Callouts:
- Compliance risks and difficulties maintaining Quality standardization
- Production inefficiencies without accurate product data
- Siloed & custom approach to Product data leads to inability and lack of flexibility to scale production
- Delays/Re-work due to out of synch Sites with latest Product Manufacturing data

Proficy Orchestration Hub helps you solve common challenges such as inefficiencies in production due to inaccurate product data, siloed and custom approaches to product data, compliance risks, and lack of quality standardization.

Problems Solved with Proficy Orchestration Hub

- "ERP systems don't provide that master data. Typically, you've got systems cobbled together. We call it the spaghetti chart. I might have eight systems that are cobbled together. How do we pull that data together to manage production?"
- "Current manufacturing product data list spreadsheets with more than 60 tabs and thousands of rows"
- "We've always struggled with Recipe Orchestration within even our own plant. You may run the product on one line, and the recipe will be completely different on the other line."
- "Confusing process leads to Quality Model inconsistencies"
- "Pinch point is all of these paper batch records that I'm managing and tracking and keeping and then that paper record needs to be sent to Quality to prove that the batch was made as intended. That needs to be stored in some kind of place to keep that paper record. And I am just overwhelmed with mountains of paperwork."
- "Recipe management, formulation management, e.g., when we make a change since we last run it. Even if we run it in that suite for six months, it's still a large effort."
- "The difficulty in moving production from one site to another is almost too much to overcome unless we have a large downtime opportunity."

Features of Proficy Orchestration Hub

- Ease of connectivity
- Flexibility to use existing connection technologies allowed by business systems
- Mix and match connectivity to get all Product data
- No code mapping – drag and drop multi-source mashups
- Base views created at install
- Transform unstructured business Product data to MES structured Specs, BOMs, and Recipes

Increase efficiency and speed time to market with Proficy Orchestration Hub.

LEARN MORE

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Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

Advisory Services

We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

Managed Services

We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive analytic technology.

Implementation Services

Our experienced global Automation partners can implement a collaborative, multi-generational program that marries your existing investments to the right enhancements and technology.

Education Services

We specialize in education services to ensure that you're fully leveraging our solutions with our training and certificate programs.

Acceleration Plans

Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

Security Services

Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Related Products for Your Digital Transformation Journey

GE Digital's Proficy suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster. Transforming your business requires foundational innovations that lay the groundwork for future success.

Proficy Operations Hub

Aggregate and visualize contextual and situational information for industrial applications – supporting rapid application development and rich displays for faster operational response & better decision making

iFIX

Gain visibility into your operations and secure agility for smarter decision making that drives results with industry-leading HMI/SCADA used around the world.
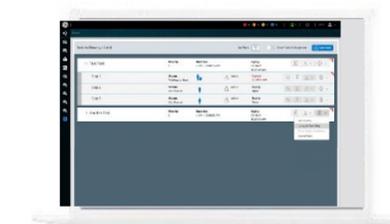
CIMPLICITY

Drive real-time visibility for smart operators with true client-server based visualization and control with proven HMI/SCADA used by the largest industrial organizations

Proficy Manufacturing Data Cloud

Achieve an unprecedented ability to create connected factories that provide a cloud-hosted enterprise manufacturing system of record while optimizing your on-prem MES data footprint and performance

Proficy Historian

Optimize asset and plant performance through time-series and A&E industrial data collection and aggregation. Improve decision-making with advanced trend analysis.

Proficy Workflow

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.

Contact

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