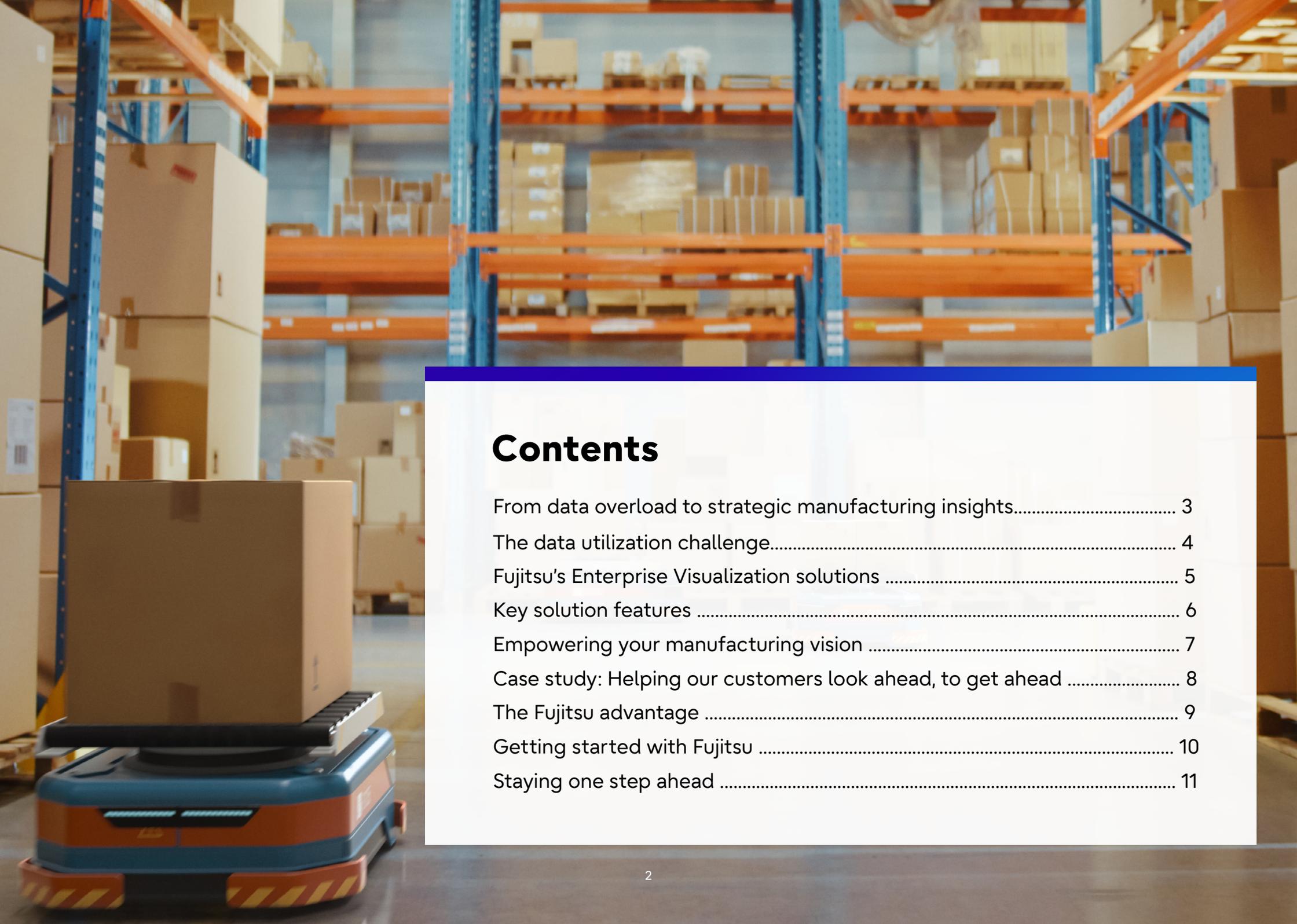# Enterprise Visualization:

Empower your manufacturing vision

FUJITSU

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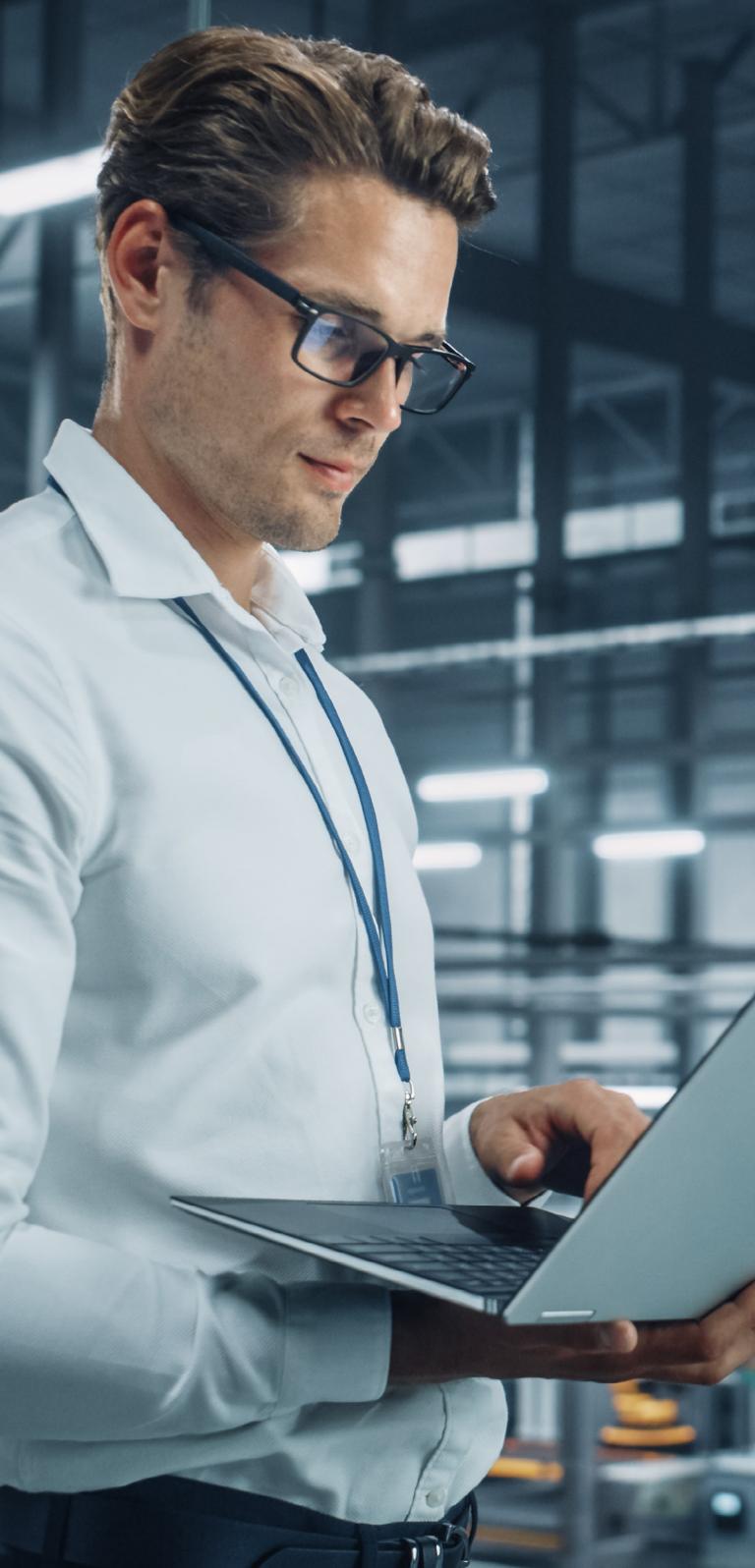## From data overload to strategic manufacturing insights

As modern factories evolve from legacy operations to smart, data-driven hubs, the promise of enhanced productivity, agility, and resilience brings strong appeal. However, navigating this intricate world of data requires a clear vision and the right tools to attain actionable insights from a sea of information.

Modern manufacturers are at a crossroads. On one side, they're grappling with the integration of time-honored legacy systems; on the other, they're confronting the overwhelming influx of real-time data stemming from the rapid technological advancements. The dynamic nature of the industry, combined with evolving market needs and increasing customer demands, underscores the urgency for tools that intelligently interpret data. Such insights, when harnessed correctly, empower manufacturers to make decisions that are not just timely but strategic, aligning with overarching organizational objectives.

The challenges are multi-fold, yet so are the opportunities. That's why Fujitsu is committed to solving complex manufacturing problems. Through our Enterprise Visualization suite, we aim to bridge the gap between intricate data streams and strategic insights, driving operational clarity and factory optimization.

Visualizing data isn't just about making sense of numbers; it's about shaping the future of manufacturing, ensuring every decision is consistent with the goals of efficiency, sustainability, and innovation. This brochure is designed to guide you through the transformative journey of manufacturing visualization, showcasing how our technology can help create a future for your organization where every decision made is clear, informed, and aligned with your vision.

The data utilization challenge

As the world of Industry 4.0 takes form, factories operate with a network of sensors, smart devices, and interconnected systems. The data generated is both impressive and overwhelming. This vast landscape of information – ranging from intricate machine metrics to expansive supply chain analytics – promises transformative insights. Yet, deciphering such vastness poses an undeniable challenge.

Observe a contemporary factory, and what you see is an evolving ecosystem of devices, systems, and processes, all speaking a language of data. Each machine, every transaction, and even subtle shifts in operational parameters contribute to this complex data matrix. But the challenge doesn't end with data accumulation. Manufacturers, while progressing on their digital transition, are often faced with the monumental task of integrating legacy systems – non-digitized, older frameworks – with cutting-edge technologies. This mismatch can lead to data silos, causing fragmented and often misinterpreted insights.

As new tools, platforms, and solutions emerge, manufacturers are left navigating a constantly shifting terrain. These rapid technological evolutions, coupled with the ever-changing landscape of consumer preferences, regulatory shifts, and sustainability imperatives, amplify the data spectrum. Such dynamics don't just add volume but complexity, pressing manufacturers to discern relevant information swiftly and adeptly.

But the crux of the challenge isn't merely to collect or interpret data. In a market that's fiercely competitive, the imperative lies in extracting real-time, actionable insights. Every byte of data holds the potential to take an organization one step closer to its objectives, from optimizing production lines, ensuring consistent product quality, to unlocking new market opportunities. However, without a cohesive visualization strategy, manufacturers risk drowning in a deluge of information, missing the opportunities that lie therein.

Fujitsu's Enterprise Visualization solutions

In manufacturing, clarity amidst complexity is a coveted prize. Fujitsu's Enterprise Visualization solutions offer manufacturers a lens through which they can achieve unparalleled operational transparency.

At the heart of our offering lies the fusion of artificial intelligence and advanced data analytics. Utilizing state-of-the-art solutions, like our Kozuchi AI platform, we offer customers the ability to dive deep into intricate data patterns, predicting outcomes and spotlighting areas for optimization.

Beyond analytics, our AI Trust feature ensures that AI-driven results remain uncompromised, free from bias and unwarranted variations. This foundation safeguards the trustworthiness of insights, ensuring decisions are always rooted in accuracy and reliability.

Yet, the power of data is not just about depth; it's also about accessibility. Recognizing this, our solutions offer a user-friendly interface, which provides a vivid display of real-time visual data representations. Such simplicity ensures that stakeholders, irrespective of their technical prowess, can quickly assimilate and act upon complex data scenarios. Beyond mere observation, these solutions continuously track operations and proactively signal potential disruptions or emerging opportunities.

The reach of Fujitsu's Enterprise Visualization is not just confined to the boardroom. Its ripple effect extends to the shop floor, arming workers with real-time insights – empowering them to fine-tune processes, preempt issues, and significantly curb unplanned downtime. This solution stretches across the entire manufacturing lifecycle, offering a panoramic view from raw material procurement to the final product delivery, setting the stage for end-to-end optimization.

At the cutting-edge of our offering is an immersive visualization experience powered by the Industrial Metaverse. This digital twin universe revolutionizes scenario planning, maintenance routines, and rapid recalibration to shifting market dynamics. Amidst the noise of endless data, not all information warrants action. But with the right tools, manufacturers can effortlessly home in on the data that truly holds the key to transformative decision-making.

Key solution features

With a comprehensive range of features, Fujitsu's Enterprise Visualization suite resonates with the needs of smart manufacturing, offering clarity, precision, and vision in every process. Here's a closer look at how we support your business:

Integrated data for you

Our solutions go above and beyond by effortlessly consolidating data from diverse sources, providing you with a unified and coherent information pool, tailored to transcend the complexities of your operations.

Actionable insights in real-time

We know that timely decisions are crucial for your business. That's why our rapid data processing ensures you're always equipped with insights when you need them, facilitating informed choices in a dynamic manufacturing environment.

User-friendly dashboards

Blending design and functionality, our dashboards transform intricate data into clear visual representations, making it easily digestible for all members of your team, irrespective of their technical proficiency.

Autonomous monitoring with enhanced security

Our systems proactively detect and alert you to irregularities, preventing minor concerns from escalating into major challenges. Coupled with robust cybersecurity measures, we ensure the integrity, confidentiality, and protection of your data at all times.

Your virtual manufacturing partner

Our Industrial Metaverse bridges the physical and digital, offering immersive perspectives, interactive scenarios, and hands-on training, ensuring your team is always ahead of the curve.

Adaptive learning

Our solutions aren't static; they evolve. By continuously refining the system's analytical capabilities, it learns from your data, anticipates outcomes, and enhances its predictive abilities, aligning closely with your growth.

Your manufacturing journey in full view

From raw materials to the final product, we ensure you have a clear perspective, leaving no blind spots in your manufacturing journey.

Stay connected, anytime, anywhere

Be it in transit or remote locations, our solutions ensure you're never out of touch with your operations. Seamless mobile integration guarantees you're always in the loop, providing assurance on oversight and management.

Fujitsu's people-centric approach

Our Enterprise Visualization suite is more than just a tool; it's a catalyst, designed to drive your manufacturing evolution. Here are some of the transformative advantages that come with partnering with us:

Crystal-clear decision-making

We help you navigate the intricate world of manufacturing with unmatched clarity. With data-driven insights at your disposal, every choice you make is perfectly in tune with your long-term strategic aspirations, pushing your enterprise towards new horizons.

Peak operational efficiency

Experience higher levels of productivity across your operations. Armed with real-time analytics and a bird's-eye view of your operations, not only can you spot inefficiencies quickly, but you can also address them with accuracy.

Create a green legacy

Stay on the front-foot of growing stakeholder expectations around environmental performance. By identifying and eradicating waste, you're not just optimizing processes but also making significant strides towards sustainable and green manufactur**ing.**

Seamless operations, every time

We ensure your journey is smooth. Our solutions empower you to foresee and tackle potential setbacks in their nascent stages, guaranteeing operations that run consistently, irrespective of unexpected challenges.

Bring out your team's potential

Shape an ecosystem where growth is the standard. By arming your teams with state-of-the-art tools and insights, you're nurturing an environment that celebrates continuous learning, innovation, and skills enhancement.

Watch the numbers grow

By refining operations and enhancing processes, you'll witness not just substantial cost savings but also a surge in revenue, setting your enterprise on a trajectory of sustained financial success.

Helping our customers look ahead, to get ahead

Quantum-inspired computing optimizes Bayer's supply chain

Bayer tested Fujitsu's quantum-inspired Digital Annealer to optimize complex seed production planning and materials campaign scheduling. The Digital Annealer quickly solved previously unsolvable problems, enabling Bayer to create more robust supply chains and boost crop yields for farmers.
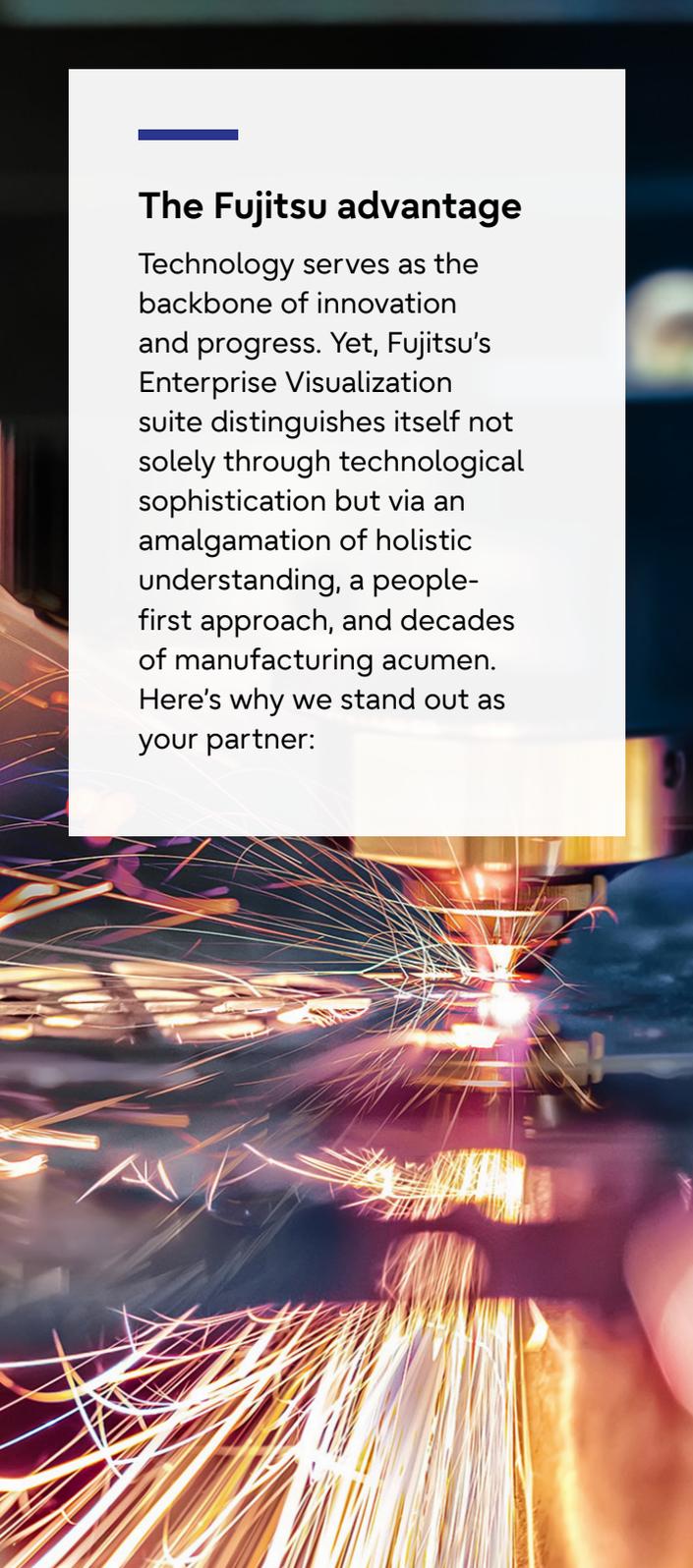
Hunter Douglas leading the Industry 4.0 transformation

Hunter Douglas urgently needed a new partner with the expertise to rapidly deploy SAP Manufacturing Execution and SAP MII at its Mexico plant and roll out to its other North American facilities. On SAP's recommendation, it chose our solutions to drive plant stabilization as it was affecting the plant's capabilities for order fulfillment. The results yielded complete visibility of inventory across various businesses, enhanced on-time delivery, and increased stability, ensuring better availability. Additionally, there was access to precise, real-time data and reports.

US Steel Manufacturer leapfrogs the competition with digital transformation

Our consulting-led approach and methodologies aligned and focused our stakeholders with a clear digital transformation vision and strategy. The strategy focused on operational efficiencies, cost savings, reduced technical debt, and accelerated deployment of new capabilities. Using a data-driven approach, we accelerated our planning and execution by more than 30% and generated over $20M in IT savings. This result led to accelerated value realization aligned with our corporate goals.

The Fujitsu advantage

Technology serves as the backbone of innovation and progress. Yet, Fujitsu's Enterprise Visualization suite distinguishes itself not solely through technological sophistication but via an amalgamation of holistic understanding, a people-first approach, and decades of manufacturing acumen. Here's why we stand out as your partner:

Holistic understanding

- Fujitsu isn't just a provider; we're manufacturers ourselves. This intimate experience gifts us with a perspective that understands the intricacies and challenges that our customers face daily.

- Our vision encompasses the entire value chain – right from the inception of raw materials to the recycling of the end product, ensuring no stage is overlooked.

People-centric approach

- While technology remains crucial, our prime emphasis is on upskilling and empowering workers, ensuring that human ingenuity is complemented, not replaced.

- Enabling a feedback loop between decision makers and shop floor workers, we ensure that the adoption of new digital tools is seamless and universally embraced.

- Our mission is to transition manufacturing roles into sustainable career trajectories, supported by digital skills transformation.

Cutting-edge technology

- Fujitsu enables seamless merging of IT/OT, combining legacy systems with modern-day innovations into one unified solution.

- With features like AI, digital twins, and the industrial metaverse, we customize technologies to align with our customers' unique requirements.

Security and trust

- As we bridge factories to the cloud, our topmost priority remains to shield them from potential cyber threats.

- Fujitsu's commitment to sustainability resonates perfectly with our people-first philosophy, fostering trust in communities.

- By leveraging trust-enabling technologies such as blockchain, we ensure the supply chain data remains uncompromised, enhancing its reliability for decision-making and regulatory adherence.

ROI focus

- We don't just offer solutions; we guarantee results. Our emphasis is on translating our legacy and global reputation into solid ROI figures.

- Our commitment is underscored by quantifiable benefits. Be it enhancements in OEE or reductions in carbon footprints, our success is measured in tangible outcomes.

Getting started with Fujitsu

If your organization is ready to dive into the world of Enterprise Visualization, here's a concise guide on how we take you through the journey step by step:

1
Initial consultation

Open channels for dialogue: Every transformation begins with understanding. Engage in in-depth discussions to gain insight into your organization's unique requirements, inherent challenges, and long-term aspirations.

Preliminary assessments: Fujitsu offers initial evaluations, scrutinizing your current manufacturing framework. This not only gauges maturity but also highlights potential avenues for enhancement.

2
Client discovery

Collaborative insight gathering: Our seasoned experts embed themselves with your organization's thought leaders, exploring the specifics via interactive brainstorming sessions.

Charting potential solutions: This phase sees the convergence of ideas, as potential technological applications and strategic pathways tailored to your organization emerge.

3
Create roadmap

Personalized blueprint: Armed with insights from prior engagements, we develop a bespoke roadmap, laying out your organization's transformative path.

Strategic prioritization: This roadmap ensures immediate tangible results through quick wins while keeping a keen eye on your organization's overarching strategic aspirations.

4
Pilot implementation

Solutions in action: Before full-scale deployment, witness the proposed solutions in a contained setup. This phase is pivotal to highlight the real-world implications.

Iterative refinement: Gleaned feedback aids in finetuning the approach, ensuring the solution's efficacy and alignment with organizational objectives.

5
Full-scale deployment

Enterprise-wide integration: With a refined solution at hand, it's time to roll it out organization-wide.

Empowering stakeholders: We offer exhaustive training and robust support, ensuring not just the adoption of new tools but their adept utilization for maximal benefit.

6
Continuous support and optimization

Enduring partnership: Post-deployment, we remain a committed partner, ensuring that adopted solutions continue to stay aligned with evolving organizational and market dynamics.

Staying ahead with regular reviews: Periodic evaluations, reinforced with performance analytics and timely updates, guarantee that you remain a step ahead in the competitive landscape.

Staying one step ahead

As manufacturing complexity converges with rapid digital transformation, harnessing the right tools becomes pivotal. Fujitsu's Enterprise Visualization suite is not just a testament to cutting-edge technology, but a reflection of our commitment to co-creation, people-centric transformation, and sustainable manufacturing. As we stand at the cusp of a new industrial revolution, the choice you make today will shape the trajectory of your organization's future.

Take action

Don't let the digital wave overwhelm you. Partner with Fujitsu and steer your manufacturing enterprise towards excellence.

Contact us today to start your journey into the world of smart, efficient, and sustainable manufacturing.