THE DIMOFAC DIGITAL PLATFORM: SUCCESS CASE

Netcompany is a leading digital technology company known for its innovative IT solutions. Specializing in software development and digital transformation, Netcompany is recognized for its role in creating the Dimofac digital platform, which enhances smart manufacturing operations. With a focus on innovation and client satisfaction, Netcompany is a trusted partner for businesses seeking to optimize operations through technology.

DIMOFAC DIGITAL PLATFORM

The DIMOFAC digital platform stands as the cornerstone of the DIMOFAC project, aimed at revolutionizing manufacturing processes.

Funded by the European Union's Horizon 2020 program, this platform **embodies the essence of Industry 4.0, combining digital twins and Internet of Things (IoT) technologies** to create Digital Intelligent Modular Factories.

At its core, the platform **enables seamless integration and coordination of various manufacturing components**, offering unprecedented flexibility and efficiency. By harnessing the power of real-time data analytics and predictive modeling, it empowers manufacturers to optimize production processes, reduce downtime, and **increase overall productivity**.

In essence, **the DIMOFAC digital platform represents a paradigm shift in manufacturing, paving the way for smarter, more agile, and sustainable factories of the future.**

> "The DIMOFAC Digital Platform is a revolutionary tool driving manufacturing enterprises towards unprecedented efficiency and innovation. With its advanced capabilities.
>
> It **empowers businesses to optimize processes** and make informed decisions, introducing a new era of industrial transformation."

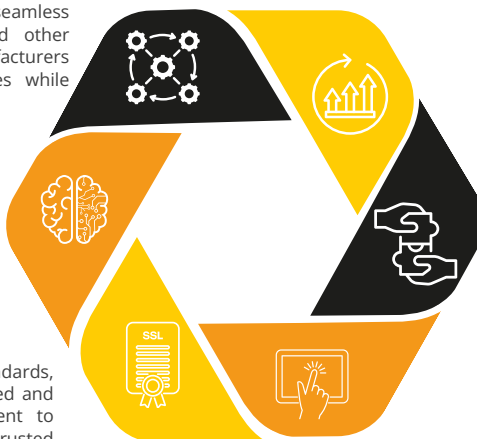## MARKET ADVANTAGES

Interoperability
Dimofac emphasizes interoperability, allowing seamless integration with various digital twin software and other manufacturing systems. This flexibility enables manufacturers to leverage existing infrastructure and technologies while adopting Dimofac for enhanced functionality.

Advanced Analytics and AI
Dimofac offers advanced analytics and artificial intelligence (AI) capabilities, enabling manufacturers to gain deeper insights into their operations, optimize processes, and make data-driven decisions. This focus on analytics distinguishes Dimofac as a powerful tool for improving efficiency and productivity.

Security and Certification
Dimofac prioritizes security and certification standards, ensuring that sensitive manufacturing data is protected and compliance requirements are met. This commitment to security and compliance sets Dimofac apart as a trusted solution for manufacturers operating in regulated industries.

Modularity and Scalability
Dimofac is designed with modularity and scalability in mind, allowing manufacturers to customize the platform to their specific needs and scale it as their operations grow. This flexibility ensures that Dimofac can adapt to evolving manufacturing environments and requirements.

Partnerships and Ecosystem
Dimofac benefits from partnerships with industry leaders and a vibrant ecosystem of solution providers, enhancing its capabilities and extending its reach. This ecosystem approach enables manufacturers to access a wide range of complementary technologies and services through the Dimofac platform.
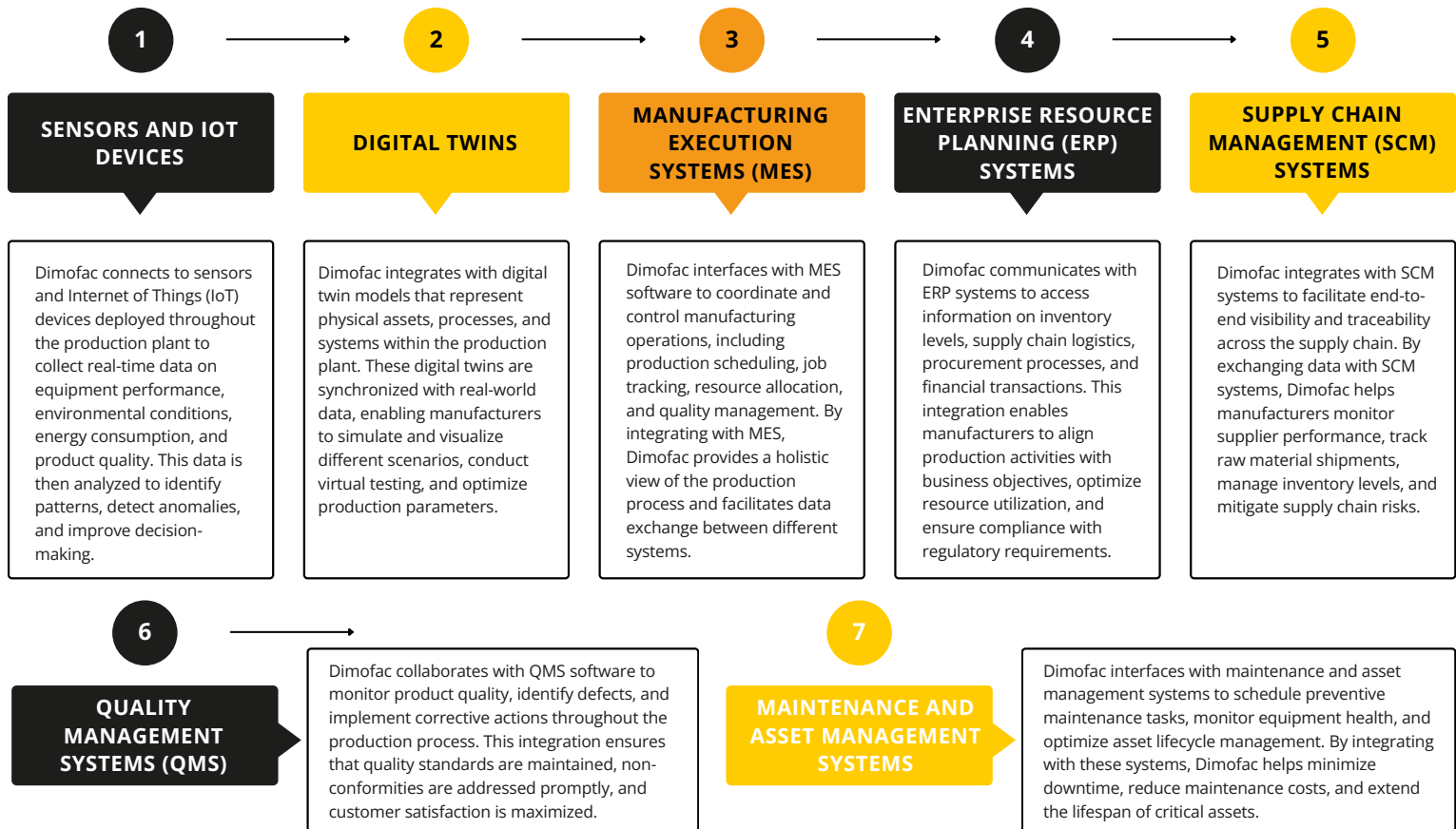
User Experience and Accessibility
Dimofac prioritizes user experience and accessibility, offering intuitive interfaces and tools that empower users to leverage the platform effectively. This focus on usability ensures that manufacturers can easily adopt and utilize Dimofac across their organizations.

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INTEGRATION

1 — **SENSORS AND IOT DEVICES**

2 — **DIGITAL TWINS**

3 — **MANUFACTURING EXECUTION SYSTEMS (MES)**

4 — **ENTERPRISE RESOURCE PLANNING (ERP) SYSTEMS**

5 — **SUPPLY CHAIN MANAGEMENT (SCM) SYSTEMS**

Dimofac connects to sensors and Internet of Things (IoT) devices deployed throughout the production plant to collect real-time data on equipment performance, environmental conditions, energy consumption, and product quality. This data is then analyzed to identify patterns, detect anomalies, and improve decision-making.

Dimofac integrates with digital twin models that represent physical assets, processes, and systems within the production plant. These digital twins are synchronized with real-world data, enabling manufacturers to simulate and visualize different scenarios, conduct virtual testing, and optimize production parameters.

Dimofac interfaces with MES software to coordinate and control manufacturing operations, including production scheduling, job tracking, resource allocation, and quality management. By integrating with MES, Dimofac provides a holistic view of the production process and facilitates data exchange between different systems.

Dimofac communicates with ERP systems to access information on inventory levels, supply chain logistics, procurement processes, and financial transactions. This integration enables manufacturers to align production activities with business objectives, optimize resource utilization, and ensure compliance with regulatory requirements.

Dimofac integrates with SCM systems to facilitate end-to-end visibility and traceability across the supply chain. By exchanging data with SCM systems, Dimofac helps manufacturers monitor supplier performance, track raw material shipments, manage inventory levels, and mitigate supply chain risks.

6 — **QUALITY MANAGEMENT SYSTEMS (QMS)**

Dimofac collaborates with QMS software to monitor product quality, identify defects, and implement corrective actions throughout the production process. This integration ensures that quality standards are maintained, non-conformities are addressed promptly, and customer satisfaction is maximized.

7 — **MAINTENANCE AND ASSET MANAGEMENT SYSTEMS**

Dimofac interfaces with maintenance and asset management systems to schedule preventive maintenance tasks, monitor equipment health, and optimize asset lifecycle management. By integrating with these systems, Dimofac helps minimize downtime, reduce maintenance costs, and extend the lifespan of critical assets.

TAKEAWAYS

- **Netcompany-Intrasoft Collaboration:** Netcompany and Intrasoft collaborate on the Dimofac digital platform, with Netcompany contributing expertise in software development and Intrasoft providing domain knowledge in smart manufacturing.
- **Platform Integration:** Dimofac integrates with various elements of smart manufacturing production plants, including sensors, digital twins, MES, ERP, SCM, QMS, and maintenance systems, enabling holistic visibility and control over operations.
- **Differentiation:** Dimofac stands out from competitors in the smart manufacturing space through its comprehensive integration capabilities, real-time data analytics, simulation and visualization tools, and focus on optimizing production processes for efficiency and quality.
- **Continuous Improvement:** The interview participants emphasize the importance of continuous improvement, including revising catalog descriptions, clarifying the role of AAS in solution offerings, and ensuring accurate representation of partner collaborations within the Dimofac ecosystem.