

19-21 September / Eylül 2024 Istanbul Expo Center, Istanbul - Türkiye 12. Uluslararası Döküm Kongresi

12th International Foundry Congress





«IIoT Veri Toplama ve Analizi ile Dökümhanede Verimlilik ve Karlılık Artışı»

«How IIoT Data Centralization and Insight Transforms Foundry Efficiency and Profitability»

> Carsten Nielsen (DISA)

4. Oturum / 4th Session

Oturum Başkanı / Session Chairman: Doç. Dr. Ekrem Altuncu (Sakarya Uygulamalı Bilimler Üniversitesi)





Industry 4.0: What is the vision?



Norican Group Shaping Industry

Common Challenges: BEFORE Industry 4.0

CHALLENGE: Lack of Data Transparency

- Past and biased data
- Labor-intensive

CHALLENGE: Data Lives in Different Silos

- ERP, Scada, Excel, Power BI etc.
- Manual data collection

CHALLENGE: Dependency on Experts

- Decision based on experience
- Labor and time consuming

CHALLENGE: Lack of Holistic Optimization

- Reactive analysis in silos
- Expert intensive analysis
- Constrained by team's skills and time

OPPORTUNITY: Improve Efficiency

OPPORTUNITY: All Data in One Place: Faster Data-based Decision Making

OPPORTUNITY: Captures Expert Knowledge, Builds & Collects Reliable Actions for All to Use

OPPORTUNITY: Optimize Costs and Labor Cost Savings



Industry 4.0: Why do we need it?



Industry 4.0: What does it take to be successful?

Culture

- Embrace Change / Adaptive
 - Collaborative •
 - Executive Buy-in. •
 - Strong Digital Fluency •
- Cross-functional Teams vs. Silos.
 - Risk-Friendly. •
- Continuously Measure & Improve •

Technology

- Cloud •
- API based •
- Automation •
- Continuous Integration & Delivery
- Service Oriented Architecture
 - Analytics
 - Social •
 - Mobile •



Strategy

- Clearly Defined Vision
- Business Outcomes / Goals Strategy
- Digital Strategy
- Decision Frameworks
- Optimized Governance
- Big Change vs. Discrete Solutions
- Ability to Digitally Re-imagine



St. Cloud Foundry: A success story in real time...

Higher Productivity | Less Downtime | Improved Efficiency

We can now access all manufacturing process data in one standardized database, this will make it easier to discover lapses, such as recurring machine downtime or other production bottlenecks, while pinpointing opportunities for improvement.





Of the 5 foundries that have launched our digital solution in the sand function, **100% of them have seen a scrap** *reduction reading in the last 4 months,* **100%!**



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St. Cloud Foundry: A success story in real time...

Higher Productivity | Less Downtime | Improved Efficiency

You do not need to be a technical expert to use the information or the system.

We use automatic notifications with simple charts to read if the system is running in or out of tolerance or if a piece of equipment is going to fail, we can **react quickly to prevent that failure** from happening-**All in real time!**



- Mike Meyer, Grede



Grede video



Scan the QR code to watch the Grede video!



Data at your fingertips. No matter where you are!

Monitizer

DRIVING OPTIMIZATION AND EFFICIENCY.

