INFICON

Inspired by visions. Proven by success.



Driving Semi's Industry 4.0 Smart Factory Revolution

Intelligent Manufacturing Systems

Collaborative Success: Supplier-Customer

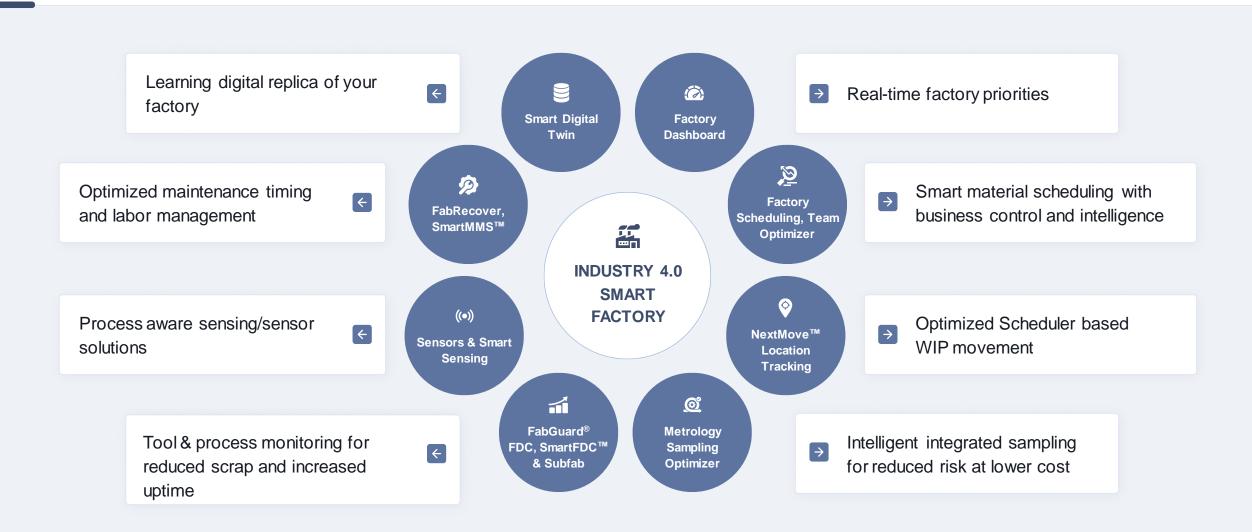
Dynamics in Semiconductor Smart Manufacturing

INFICON Global Presence & Software Deployments



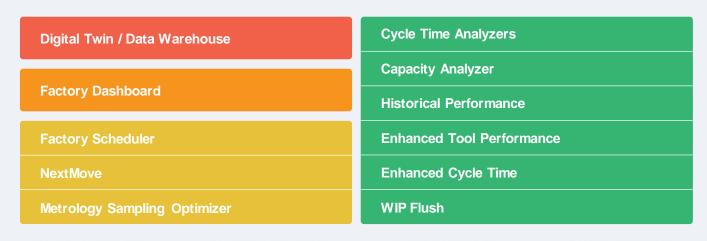


Integrated Smart Product Value Propositions

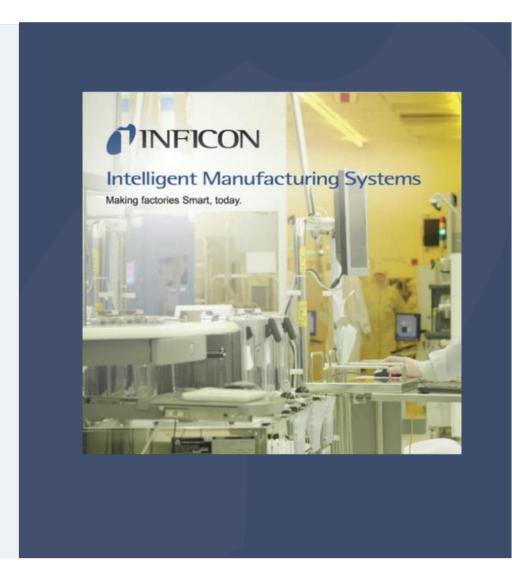




INFICON FPS Products









Factory Operating Curves

- Describe each of your factory's performance efficiency
- Driven by # of like tools, factory systems, factory variation, reentrant steps, etc.
- Smart solutions improve an operating curve for: improved output/OTD, reduced cycle-time/inventory thereby reducing COGS by 5 20%



X-Factor is the multiple of raw processing time.

(Cycle Time / Raw Processing Time)

$$CT_q = V * U * T$$

(Kingman's Equation)

V = Variability

U = Utilization

T = Time

Factory Operating Curve Types

4

Low X-Factor

Favorable Capacity / Non-Bottleneck.

Medium X-Factor

Has a single unfavorable capacity factor, results in flatter curve and higher X-Factor at lower loads.

High X-Factor

Minimal buffer capacity results in exponentially increasing X-Factor at >85% Load.

Very High X-Factor

Multiple unfavorable capacity factors + High % Capacity Used.

Successful Collaboration Starts with a Trusted Partnership

Target Goals

- 1. Shared Vision and Goals
- 2. Trust and Transparency
- 3. Clear Communication
- 4. Complementary Capabilities
- 5. Flexibility and Adaptability
- 6. Mutual Benefit and Value Creation
- 7. Effective Governance and Management
- 8. Continuous Improvement and Learning

Ideal Performance

Alignment, accountable and regularly monitored

Open communication on deliverables

Timely and ideal to align expectations

Leveraging strengths and mitigating weaknesses

Important for int teams, agile to accommodate change

Deliver on ROI, generate benefits for all

Exceptional Project Man (PM), frameworks/processes

Support contracts and training, future innovation (UGM)







Plessey Requirements

- We are a low volume, high mix, high complexity fab
- Requirements to:
 - Increase learning cycle speed (reduce X-Factor)
 - A single source of truth for data driven decision making
 - Full visibility of fab operations
 - · Reduce the burden of reporting
 - Visibility for our customers







Successful Collaboration Examples

Not just being on site but also understanding the operation.



• Governance on both sides. Someone who really owns it and wants to get as much value as possible.



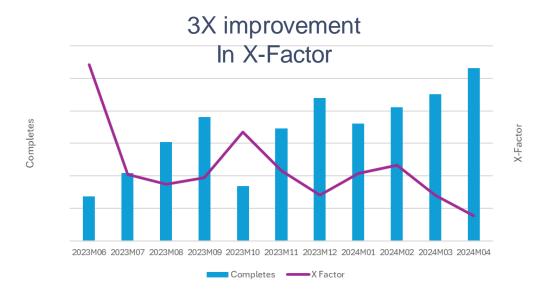
Being flexible to work within each other's hours.

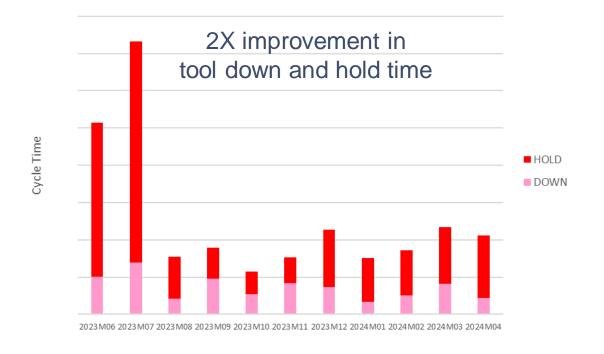


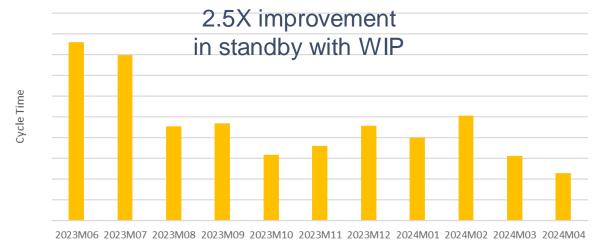




Since Collaboration











Conclusion

Working with and experienced partner that understands the needs of both parties deliver

Exceptional and timely project results

Create mutual benefit and value creation

Sustainable growth

Open future business opportunities







Semi Smart Manufacturing European Group



Your input is needed!

The Semi Smart Manufacturing European group has created a survey to understand the current "state of the union" in regard to End to End Smart Manufacturing.

We are looking for your input to our survey SEMI_Pulse-E2E_Smart_Manufacturing_Survey_2024 (lamapoll.de)

In return you can request special insights about your company positioning vs the market average





Connect with us!













