



Untying the gordian knot – complexity in semiconductor production

Gero Grau

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- Studied applied mathematics
- More than 20 years of semiconductor industry experience
- Worked as industrial engineer, software developer, project manager, dispatching expert, L6S black belt, data scientist, ...

INFICON Global Presence & Software Deployments



● IMS Software Offices ● Sales and Offices ● Manufacturing Site



FPS - Most commercial
fully scheduled fabs in
the world

FPS

FabGuard

50+ Fabs (5 Backend)

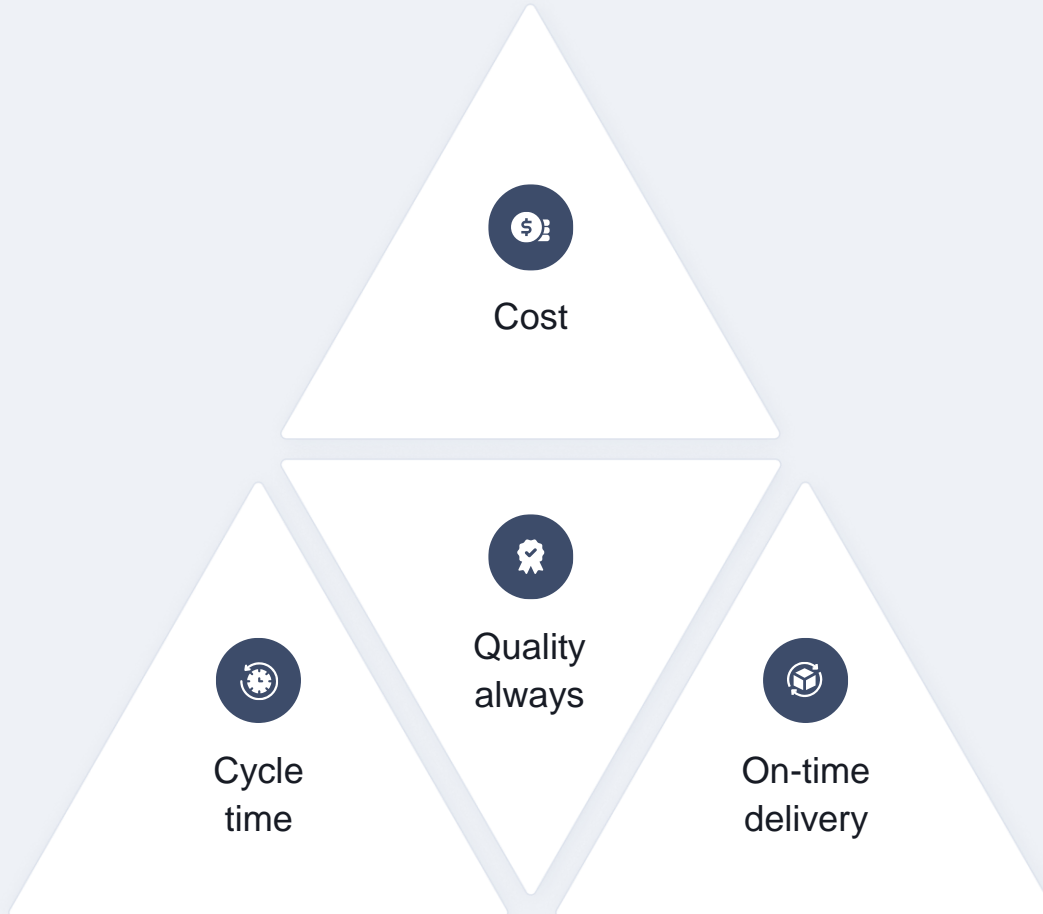
40+ Fabs (5 Backend)

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Old Requirements ...



and New Requirements



Fab Objectives

Quality



Cycle time



Cost



On-time delivery



Environment



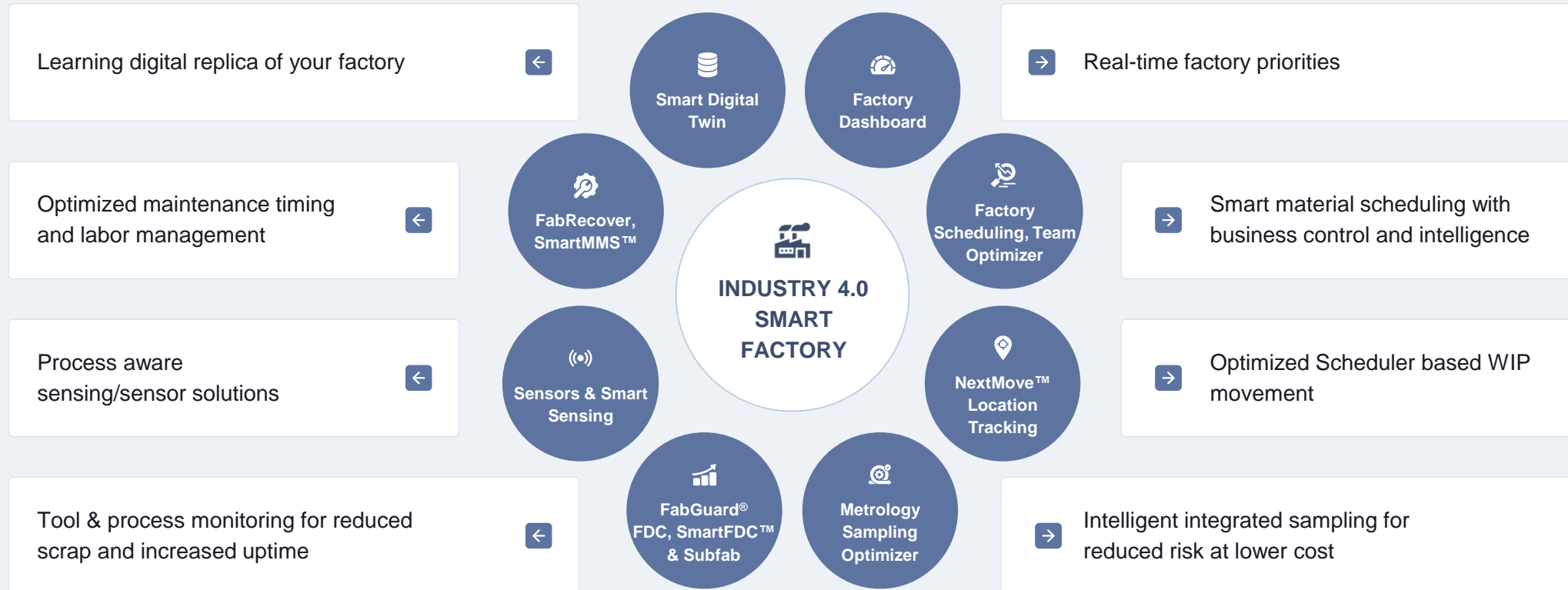
Operator / People



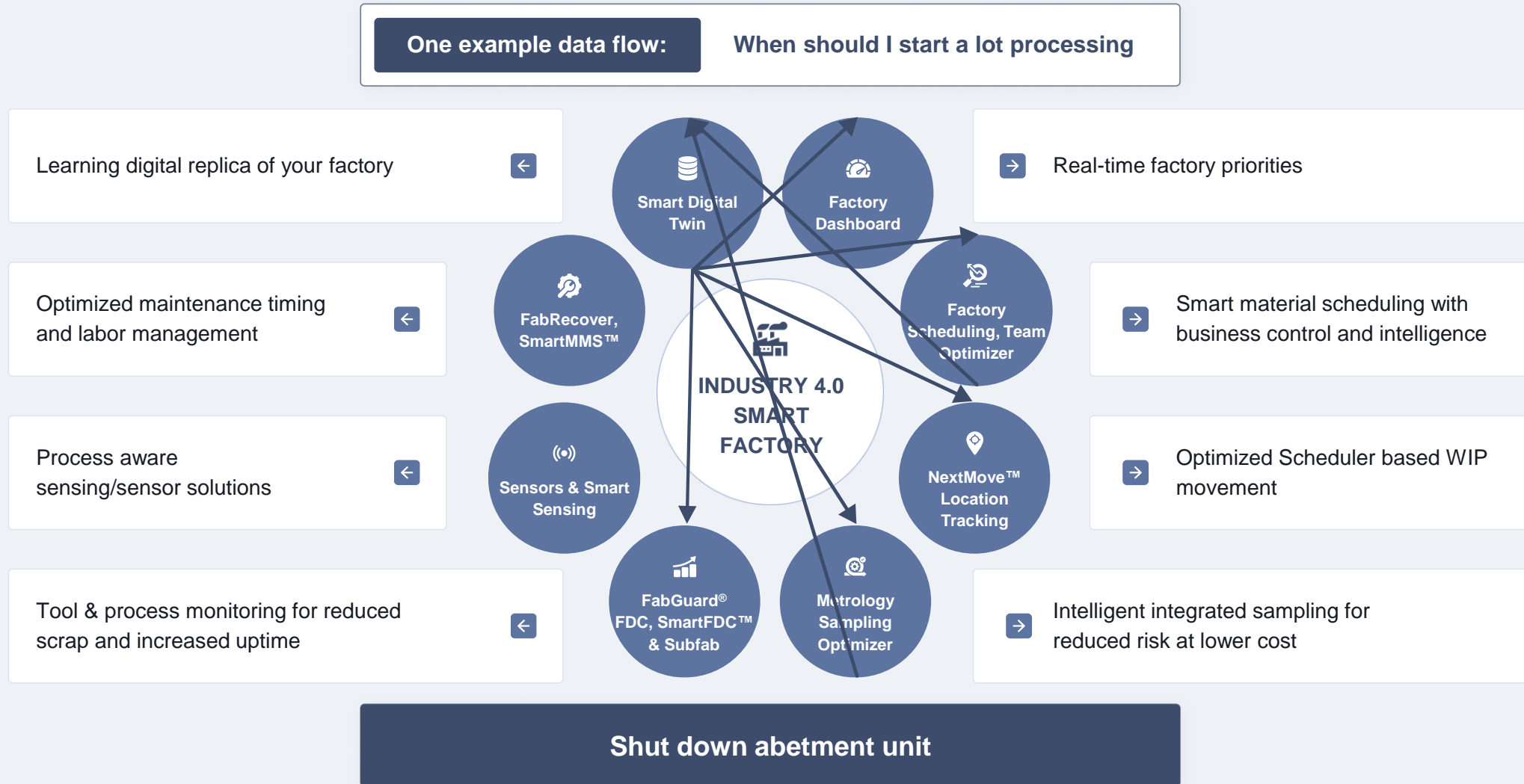
Regulations



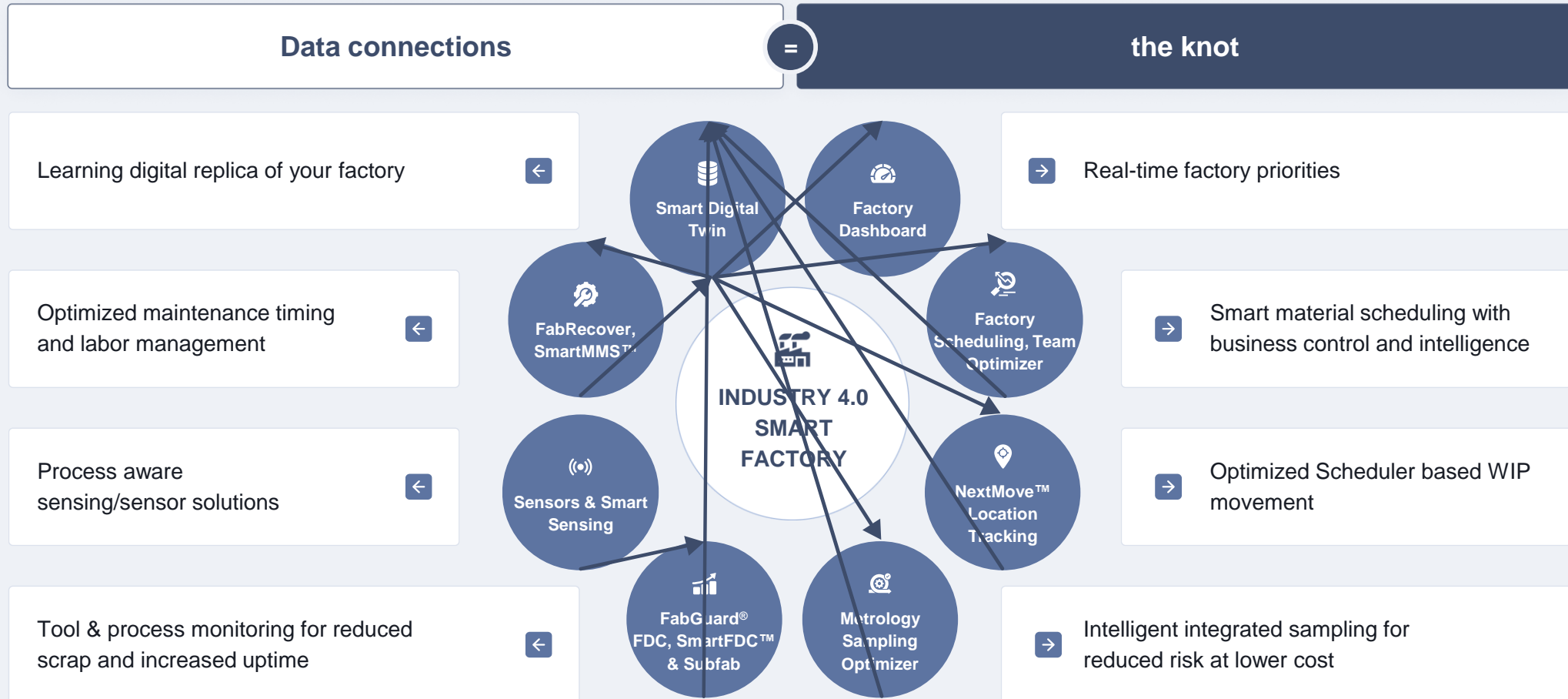
Integrated Smart Products



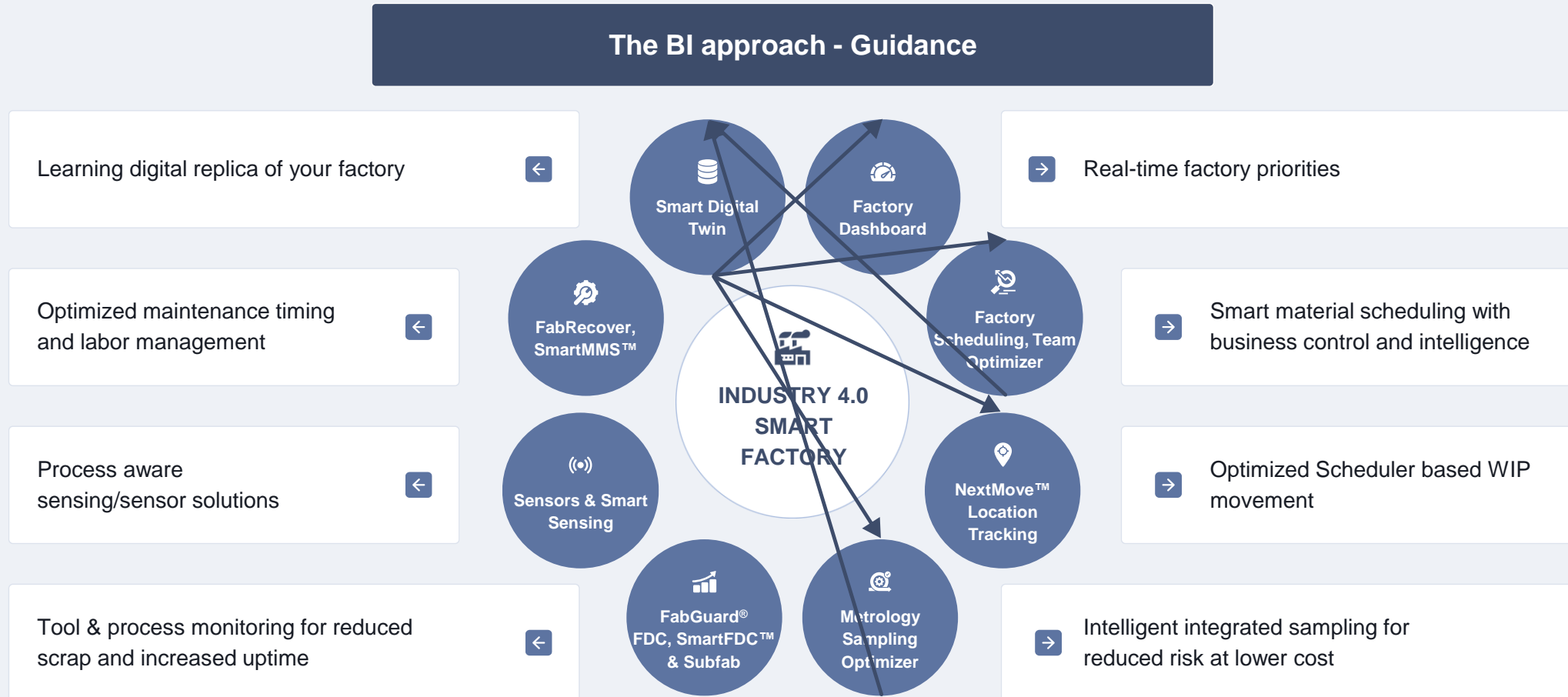
Integrated Smart Products



Integrated Smart Products



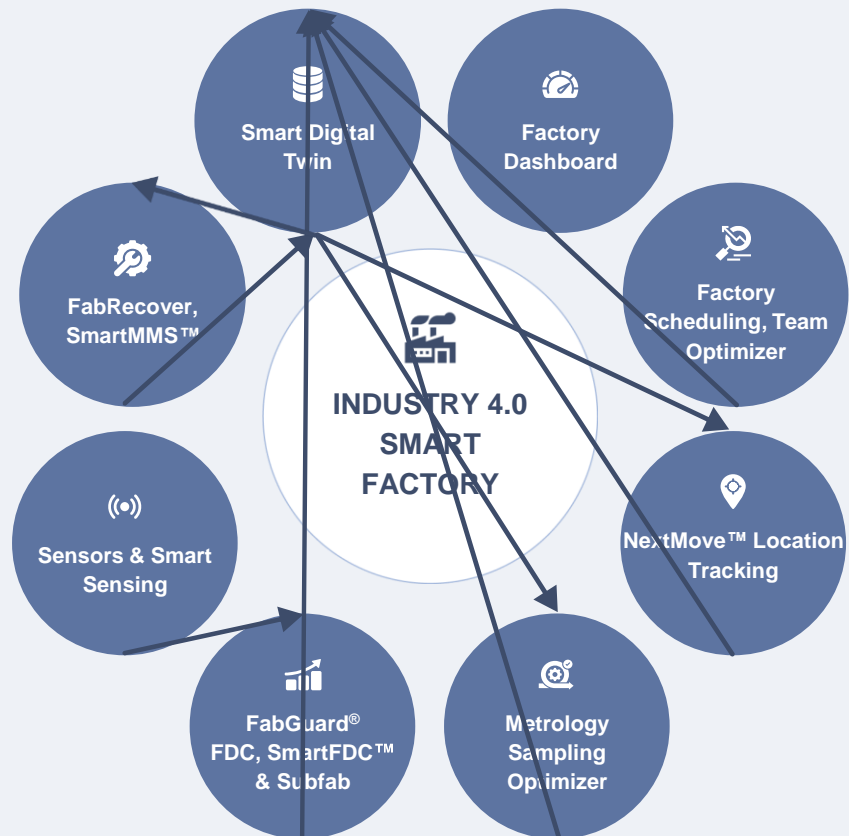
Integrated Smart Products



Guide the user through user interfaces



New Approach – Just Ask



INFICON Introduces AskJen™

**A Cutting-Edge AI-Powered Expert Chat
Feature for FabTime**

Summary



- New objectives in Semiconductor manufacturing arise.
- Integration / connection between different domains to cater for the new objectives.
- Production is getting more and more complex.
- Smart system / AI reduces complexity to the user.



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