

ascon AIM

Transformation Services

The consulting framework for manufacturers seeking a quantum leap in efficiency from digital transformation.

Embrace the digital evolution of your shop floor as we help you to transform your business and manufacturing processes towards achieving a digital and flexible production driven by data and digital twins.



Why consider Ascon AIM?



Digital automation is the future

As a manufacturer, digital transformation is crucial to your success in a competitive market. Ascon AIM helps you to find the right set-up for your production, bring all stakeholders on board and integrate the new with the old tech.

Achieve standardized, centrally orchestrated industrial automation

Imagine a software-defined manufacturing environment in which production planning and engineering were closely connected through two-way-synced digital twins. Using a platform that delivers a completely new level of agility and resilience. With a clear automation vision and full cost transparency, you can make it happen.

You need a solid plan. And the expertise to execute it

Our consulting experts will be with you every step of the way to help you implement some of the most advanced technology available for process orchestration and automation. But if your infrastructure isn't ready yet, how can you implement it?

Ascon AIM breaks down the process into much smaller, more feasible parts

Why is Ascon AIM right for your transformation?

Transparency on options and costs

To plan your intelligent automation infrastructure, you need reliable information on costs and capabilities. Ascon AIM gives you the hard numbers necessary for prudent business decisions.

A clear vision of your automation future

Today's investments can only make sense with a clear vision of how you will manufacture tomorrow. Ascon AIM works with you to develop that vision and plan a clear path to it. With budgetable costs and minimized risk.

Win buy-in from key stakeholders

To get your digital automation plans off the ground, you need to have key stakeholders behind you. But how can you make the case for something this new without building it first? Ascon AIM modules provide exactly the hard facts you need to convince stakeholders and move to the next step.

Easy onboarding process

By selecting the right modules, you can start innovating without having to implement an entire project. No matter what your digital maturity or final implementation status, we have the right module to move you one step further.

Vastly more flexible production

With an intelligent process network capable of integrating and orchestrating your entire production facility, you gain unmatched flexibility. Now you can respond considerably faster to changing demand and supply chain disruption.



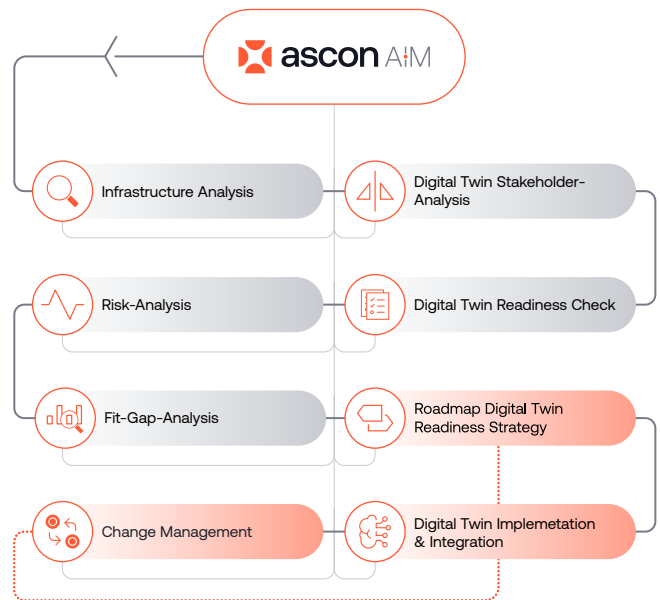
AIM Modules

The building blocks for a smart and digital production

It doesn't matter how much progress your organization has made with digitalization so far. Because there is an **Ascon AIM module** for every stage of your journey.

Start wherever you need assistance now and continue until your manufacturing is fully software-defined. With live-synced digital twins fully functional Ascon Qube platform and AI-driven optimization.

Now you can assess, plan, and implement your path to a digital and automated production — with the help of our industry experts.



What is part of Ascon AIM?

Module 1 — Infrastructure Analysis

Ascon AIM consultants take a closer look at your shop floor infrastructure and its readiness for connecting to a digital twin. The following infrastructure and capabilities are examined (fully or partially):

- Sensors and actuators for data acquisition and control
- Sensor data quality
- Communication protocols (wireless and wired)
- Protocols and standards
- IoT devices and gateways for data transmission
- Wireless network infrastructure and cellular network support
- Data logging and storage
- Physical and cyber security on the shop floor
- Energy infrastructure and supply
- Integration with existing control systems
- Ease of (remote) maintenance

Module 3 — Risk-Analysis

Analyze the risks associated with introducing new technologies and necessary changes. Identifying risks early enables better control by avoiding unexpected surprises or expenses. Understanding risks reduces delays and keeps implementation on schedule.

- The outcomes of this module are a risk report with guidelines and an action plan for risk mitigation (FMEA)

Risk analysis creates a solid foundation for informed decision-making, both at a strategic and tactical level. With clear knowledge of the probability and severity of potential risks, you help ensure a smooth, timely, and successful implementation.

Module 2 — Digital Twin Stakeholder Analysis

Together with Ascon Systems, you obtain a clear picture of the existing stakeholders and their needs.

- Definition of roles and responsibilities
- Define stakeholder management process
- Conduct workshops with relevant stakeholders to gather insights and requirements.
- Identification of potential concerns or resistance
- Develop a common vision of the digital twin strategy
- Resolve hidden fears or doubts

This module helps you build and strengthen your network, aligning key parties and giving you the social capital to move the project forward.

Module 4 — Digital Twin Readiness Check

The Digital Twin Readiness Check comprises the infrastructure analysis and the Digital Twin Stakeholder Analysis described previously.

As a result, the digital twin readiness report will assess the current infrastructure, systems, and processes with regards to integrating digital twins. With a clear justification for action in hand, you have a compelling arguments and action plan for the C-suite.

What is part of Ascon AIM?

Module 5 — Roadmap Digital Twin Strategy

Ascon AIM consultants work with you to accomplish the following:

- Develop strategies to bridge identified gaps
- Determine requirements and identify necessary measures
- Define roles, rights, and obligations
- Create a roadmap and milestones for step-by-step implementation
- Make recommendations for investments and training
- Assess the impact of digital twins on business model and the value a twin adds for specified use cases

You come away with full transparency and a solid foundation for making decisions on a specific use case.

Module 7 — Implementation and Integration

The objective of this module is to integrate digital twins smoothly into your existing systems and processes. We will further adjust existing systems, where necessary, to meet the requirements of our digital twin technology. We're not just creating digital replicas here; we're using them to generate real value.

Your systems become smarter, faster, and more cost-effective.

As a result of this module you will have digital twin models and corresponding Integration plans. Together with our experts, you will develop plans to integrate digital twins seamlessly into existing systems and processes, understand connectivity and data management and create dashboards for visualization. Also, there will be training plans for employees and a precise and individualized digital twin solution rollout.

Module 6 — Fit-Gap-Analysis

To effectively integrate digital twins into your organization, we pinpoint and address any gaps in your processes to ensure smooth and efficient implementation.

Together, we identify both suitable resources and existing gaps, ensuring the digital twins align seamlessly with your organization's processes and structures.

This analysis helps us spot potential risks early and highlight opportunities to enhance efficiency and adaptability.

As a result, you will have a comprehensive report of the fit-gap analysis including possible changes and improvements, a detailed action plan that defines the steps to close identified gaps and optimize integration as well as a prioritized list of modifications and improvements.

Module 8 — Change Management

Introducing digital twin technology involves more than just technical changes; it also requires careful consideration of organizational and cultural factors.

Our Change Management module helps your company successfully adopt a digital automation technology by focusing on both technical readiness and team engagement.

By analyzing your current workflows, we identify necessary changes and opportunities, helping your organization adapt to evolving market conditions and enhancing operational effectiveness.

Results of this module should include:

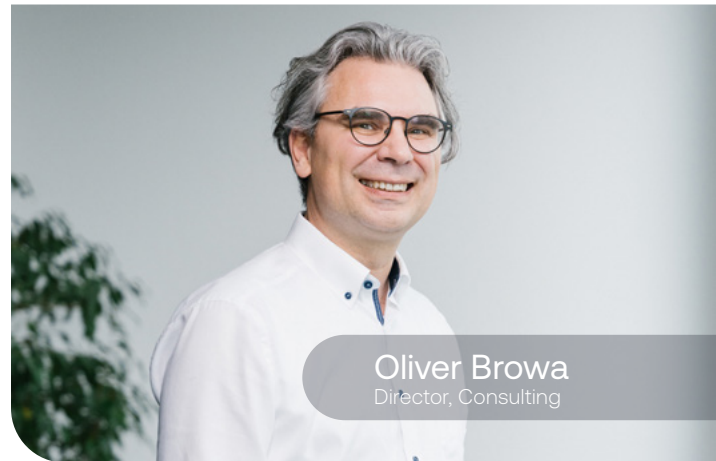
- Current workflow analysis with needs for change
- Stakeholder analysis document
- Communication strategy plan
- Employee training programs
- Change agent network blueprint
- Resistance management strategy
- Pilot project report
- Feedback mechanism setup
- Performance metrics and review schedule
- Cultural adjustment guide
- Sustainable change management plan
- Continuous improvement framework
- Benefits



Decades of experience in facilities like yours

Choosing one of the most innovative leaders in the field of advanced automation and digital twins means you gain insights into technologies that no other vendor can provide.

Ascon AIM consultants possess extensive experience in process modeling, orchestration, standardization, and virtualization. This places them in the unique position of being able to offer you both best practice insights gained across many industries and a precise roadmap to implementing one of the most powerful automation platforms in the world.



Oliver Browa
Director, Consulting

Our Partners

At Ascon Systems we are proud to be partners to some of the leading consultancy and technology companies worldwide.

As a trusted Nvidia-Solution Partner, we consult companies looking to explore the economic and operational benefits of the industrial metaverse. With our support, you can now take full advantage of everything the Nvidia Omniverse has to offer while identifying and implementing breakthrough innovations.

Moreover, collaborating with Threedu, a technology specialist in industrial 3D applications, we also provide another collaboration in the field of 3D visualization and networking.

Through our trusted cooperation with MHP (A Porsche Company), we have also seen and proven the need and value of advisory and consulting services.



What's next?

Choosing one of the most innovative leaders in the field of advanced automation and digital twins means you benefit from experiences and insights into technologies that no other vendor can provide.

Ascon AIM consultants possess extensive collective experience in consulting, process modeling and orchestration, standardization, and virtualization.


Step up to the challenge and find out where to start and how Ascon can help you.



What does Ascon Systems hold for you?

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