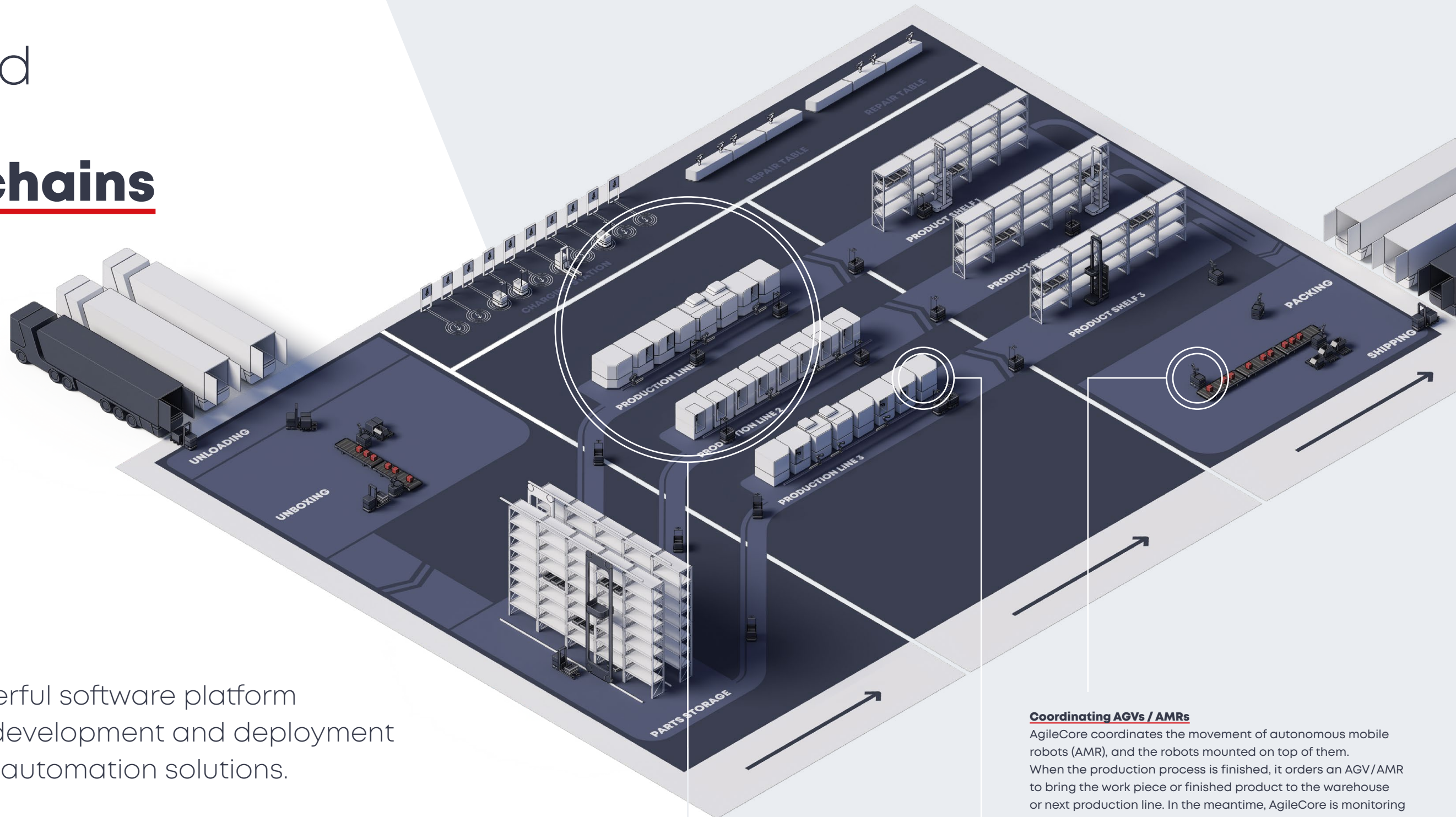




AGILE ROBOTS

AgileCore
Everything
connected

Developed for **smart process chains**



AgileCore is a powerful software platform that simplifies the development and deployment of next-generation automation solutions.

With its cross-platform interface, users can integrate hardware and software, including robots, grippers, cameras, control engineering, computer vision, and AI. The web-based user interface and extensive skill library make it easy to program a variety of tasks, while simulation capabilities allow users to refine their programs before deployment, improving efficiency and performance.

Managing an entire workflow on one platform

AgileCore aims to plan, execute and evaluate entire manufacturing processes all in one software platform. Thanks to its hardware abstraction, the user can integrate different devices into any workflow, enabling a seamless production process: All the way from unloading, through storage, manufacturing, packaging to shipping.

Coordinating AGVs / AMRs

AgileCore coordinates the movement of autonomous mobile robots (AMR), and the robots mounted on top of them. When the production process is finished, it orders an AGV/AMR to bring the work piece or finished product to the warehouse or next production line. In the meantime, AgileCore is monitoring its performance.

Aligning workstations

While AgileCore synchronizes the individual production phases, it also enables and monitors the production line as a whole. In the course of manufacturing, it constantly scans the efficiency of the process itself. AgileCore hereby controls whether the desired outcome is achieved and presents the user with a live analysis of the productivity on a detailed dashboard.

Monitoring production lines

Thanks to AgileCore, different devices can pursue their individual tasks autonomously within their workstation. By using its skill library, the user can easily program a specific task via drag and drop. Once the task is completed, AgileCore notifies the neighboring workstation, which continues with the next production step and sends a status update to upper-level production control systems.

AgileCore in the field.

Two powerful examples

Mobile machine tending, simplified

Developing mobile machine tending applications involves the integration of different hardware and software components, including robots, grippers, cameras, and AGVs/AMRs. AgileCore simplifies this process by providing all necessary software modules on a single platform, enabling communication and interaction between devices. With its web-based user interface, skill library, and hardware abstraction, AgileCore streamlines programming of the overall application workflow and allows for quick hardware replacement with minimal program changes required.

Intelligent electronics manufacturing

Manufacturing electronic devices include highly complex design and production processes. Assembling the various small parts requires advanced machinery as well as software components for quality control to ensure the reliability and safety of the products. AgileCore offers a unified interface to integrate and control complex systems, allowing easy reconfiguration and advanced visual inspection. The AI-powered skills enhance visual inspection capabilities, allowing for efficient detection and discarding of faulty products. Overall, AgileCore rationalizes the electronic manufacturing process and enables efficient, high-quality production.

Precise

Submillimeter precise technology at your fingertips

Practical

All the software tools you need in one place

Versatile

Extensive variety of industrial applications

Discover the modules

Enhanced mobility

AgileCore includes various drivers and skills to control, program, and operate AGVs/AMRs from different vendors.

OT integration

Seamlessly connect operational technology equipment like Programmable Logic Controllers (PLCs) or Motion Control Cards (MCCs) to manage, monitor or control your operations.

Live dashboarding

AgileCore provides you with all necessary information to monitor processes and machine health statuses. If unplanned events occur, notifications and instructions are activated.

Smart vision

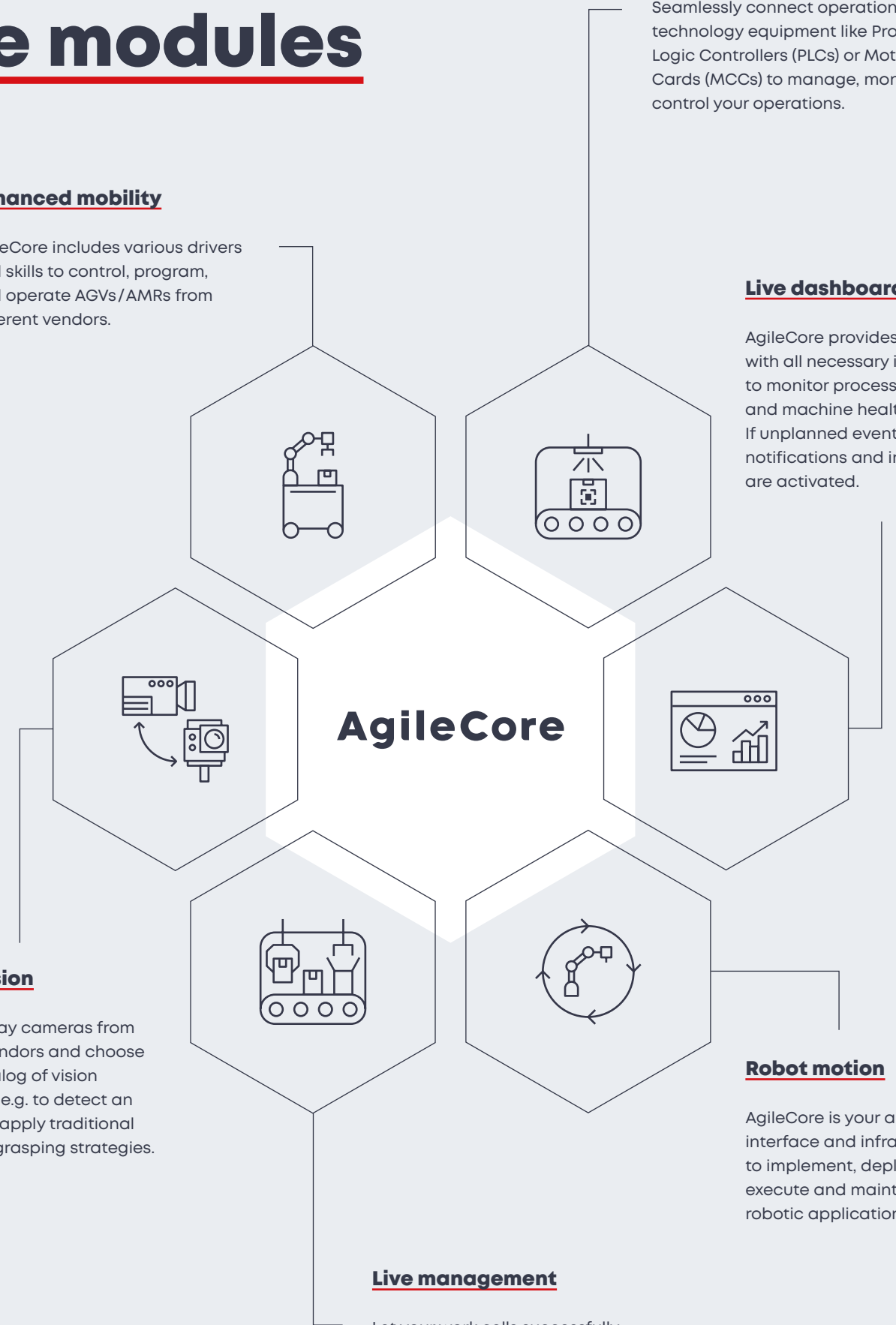
Plug and play cameras from different vendors and choose from a catalog of vision algorithms, e.g. to detect an object and apply traditional or learned grasping strategies.

Robot motion

AgileCore is your all-in-one interface and infrastructure to implement, deploy, execute and maintain your robotic application.

Live management

Let your work cells successfully work in line. With AgileCore, you can control and operate several stations at once.



Smart software, smart solutions



Hardware Abstraction

Control and program multiple devices from different vendors, including robots, cameras, grippers, AGVs/AMRs and PLCs, through a single platform. No need for users to learn different programming languages or interfaces for each device.



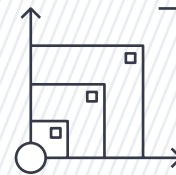
Process monitoring

Track the progress of tasks using dashboards in real-time, identify and troubleshoot errors, and optimize performance. Make informed decisions based on KPIs (e.g. OEE, cycle time, UPH, quality ratio) and improve process efficiency.



No-code programming

Create workflows by simply selecting a skill from a rich skill library to control robot motions, integrate computer vision, or navigate an AGV/AMR. No previous coding experience necessary.



Easy to scale

Simply add new devices or entire work cells to your existing solution without disrupting your operations. Expand your automation solutions to meet changing needs.



Improved by AI

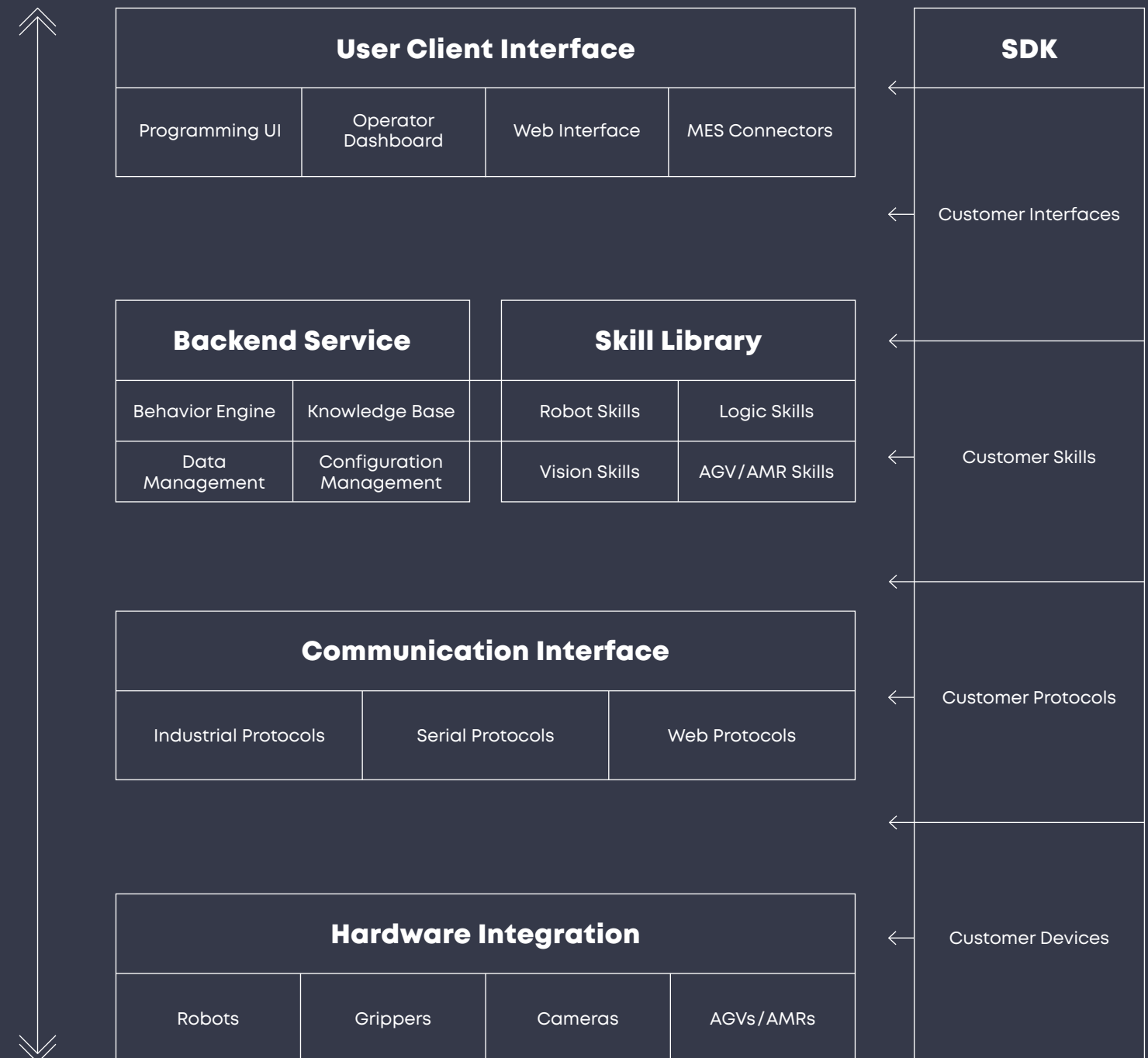
Level up your solution by AI-powered skills to automate complex tasks and increase efficiency without prior knowledge.



Software Development Kit (SDK)

Create and add your own custom skills to the platform. Flexibly extend your solutions' capabilities to meet specific automation needs, and unlock countless possibilities for your automation.

Explore the software architecture



Agile Robots AG is an international high-tech company based in Munich, Germany, with more than 1,000 employees worldwide. Our mission is to bridge the gap between artificial intelligence and robotics by developing systems that combine state-of-the-art force-moment sensing and world-leading image processing technology. This unique combination of technologies allows us to provide user-friendly and affordable robotic solutions that enable intelligent precision assembly.

Find out more about our customized solutions.

Contact our experts today.

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