OPEN INDUSTRY 4.0
ALLIANCE

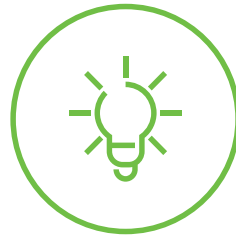# Talkers talk,
we implement

OPEN INDUSTRY 4.0
ALLIANCE & GOALS

At the Open Industry 4.0 Alliance, we create customer value together by implementing existing standards and developing interoperable Industry 4.0 solutions and services. To achieve this, we follow a common framework, co-developed and powered by a group of industry leaders within our Work Groups or Partners, from the sensor to the cloud.

DELIVER CUSTOMER VALUE TOGETHER

DEVELOP INTEROPERABLE PRODUCTS AND SOLUTIONS

ENSURE THAT OPERATORS, OEMS & OI4 ECOSYSTEM COLLABORATE

ESTABLISH A COMMON FRAMEWORK & SEMANTICS

CREATE A VIABLE ECOSYSTEM

WIN-WIN
FOR EVERY STAKEHOLDER OF THE DIGITALIZATION ECOSYSTEM

- Faster scaling for OI4 Alliance Members
- Easier scaling for operators & OEMs
- Utilization of existing standards provided by other associations
- Implementation community to proof consistency worth data, technology & business applications

VALUE PROPOSITION
OI4 MEMBERS

Potential OI4 Members approach the OI4 Alliance when they want to build business-ready solutions for the digitalization of plants, factories, and warehouses. To meet market requirements, they pay attention to relevant industry standards and their implementation within end-to-end customer use cases. For many prospects today's map of OI4 Members represents a relevant set of their existing business partners already.

The OI4 Members value 'best of breed' thinking and help end customers prevent vendor lock-in. They understand that common standard bodies are limited and see that other associations or initiatives serve a specific industry only. They want to go down to the product level.

In alignment with standard bodies and associations, the OI4 Alliance provides advisory, guidance, source code, a toolbox, documentation, partner test facilities, and final approval of offerings, as well as market access through OI4 app stores. The community feeds a knowledge base and, in return, learns from each other. This allows members to find the right entry point for digitalization activities, shape existing offerings and build new ones.

The OI4 Alliance delivers value to members by enabling a faster time to market, reduced risk of failure, increased market awareness, and, thus, increased revenue and customer satisfaction.

VALUE PROPOSITION
END CUSTOMERS

End customers approach OI4 Members with a need for interoperable solutions to digitalize their plants, factories, and warehouses to achieve higher OEE, resilience and sustainability. Their digitalization requests include both the production assets as well as the produced goods.

The OI4 Alliance delivers value to end customers by offering a focused and agile digitalization approach, with a single-entry point using futureproof solutions based on industry-leading standards.

Our end customers value the ,best of breed' thinking, which means preventing vendor lock-in. Customers can choose the products that best suit their problems without the need to write interfaces.

End customers profit from unique OI4 deliverables like implementation advisory, partnership, guidelines, end-2-end solution architectures proposals, and check points which enable end customers to create an RFQ. The OI4 network will help finding well-tuned solution partners.

Within projects the OI4 Alliance offers additional implementation advisory based on community experience, reference projects, network activities and ready-made use case solutions by the ecosystem partners.

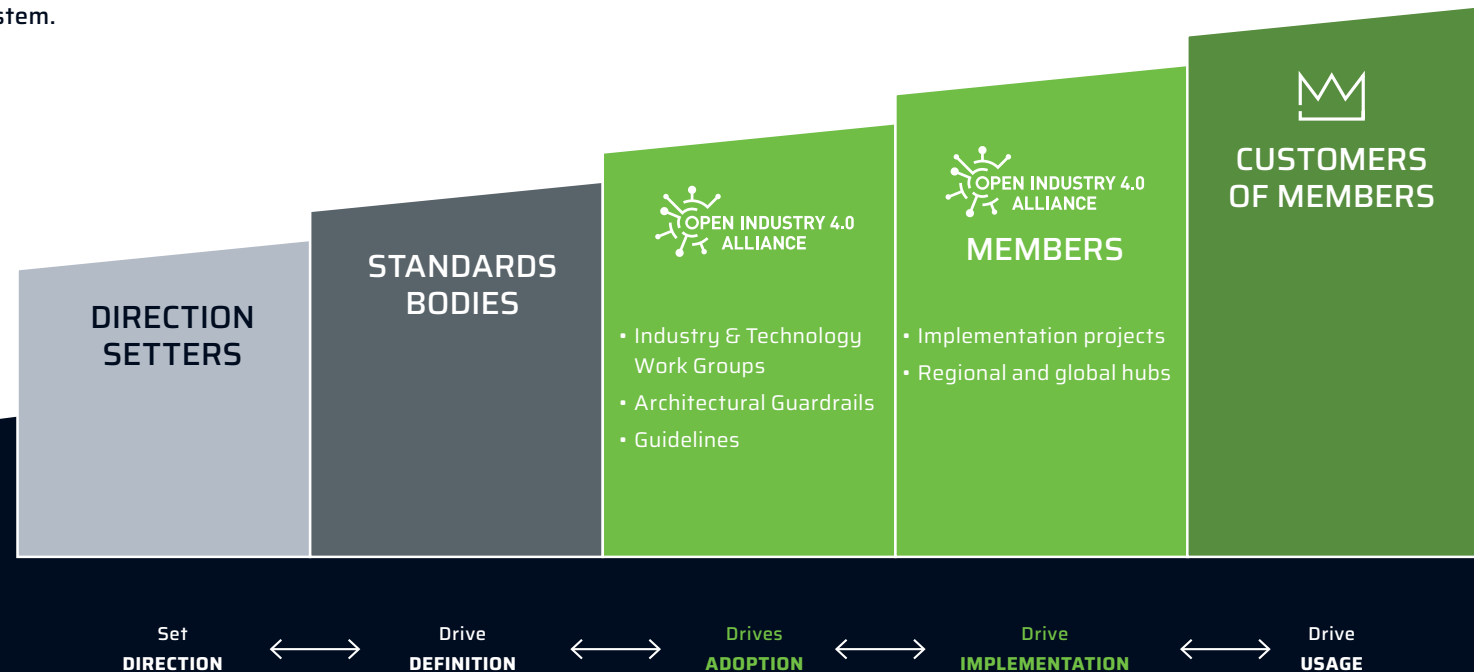**Learn more** in the short video with **Georg Kube**:

youtube.com/watch?v=-2jpDLT3rYs

OPEN INDUSTRY 4.0 ALLIANCE
IMPLEMENTATION ALLIANCE

The Open Industry 4.0 Alliance implements based on existing standards and prepares the implementation „How-To" in the facilities of end customers.

As the direct link to the customers, the OI4 Alliance translates requirements between all stakeholders in the digitalization ecosystem.

DIRECTION SETTERS

STANDARDS BODIES

OPEN INDUSTRY 4.0 ALLIANCE
- Industry & Technology Work Groups
- Architectural Guardrails
- Guidelines

OPEN INDUSTRY 4.0 ALLIANCE
MEMBERS
- Implementation projects
- Regional and global hubs

CUSTOMERS OF MEMBERS

Set **DIRECTION**   ⟷   Drive **DEFINITION**   ⟷   Drives **ADOPTION**   ⟷   Drive **IMPLEMENTATION**   ⟷   Drive **USAGE**
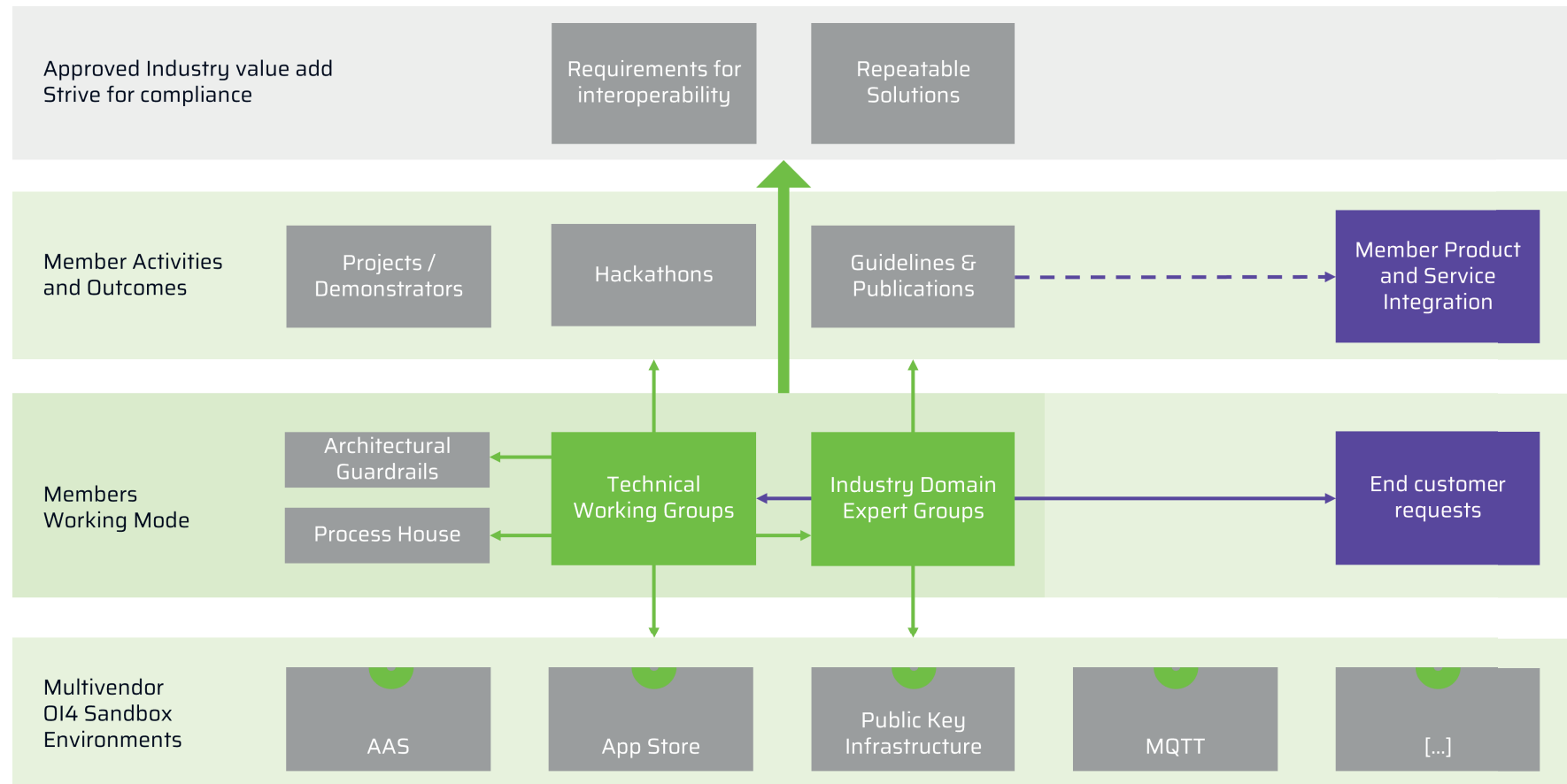
We are partnering with other associations that are setting the direction of the market, defining & owning standards, and testing them. With that, we jointly ensure the market readiness and secure the lifecycles of Industry 4.0 products & solutions which are applied regionally or globally. Our international footprint is growing via international project hubs and partnerships.

TECHNOLOGY & INDUSTRY
IMPLEMENTING - TOGETHER

Members of the OI4 Alliance work collaboratively in various Work Groups to address the challenges and needs of the industry. These needs, along with relevant regulations, are identified by our Members, who represent direct connections to the market. As industry experts, they gather requirements and pain points from their respective sectors, which often arise from real-world operational challenges.
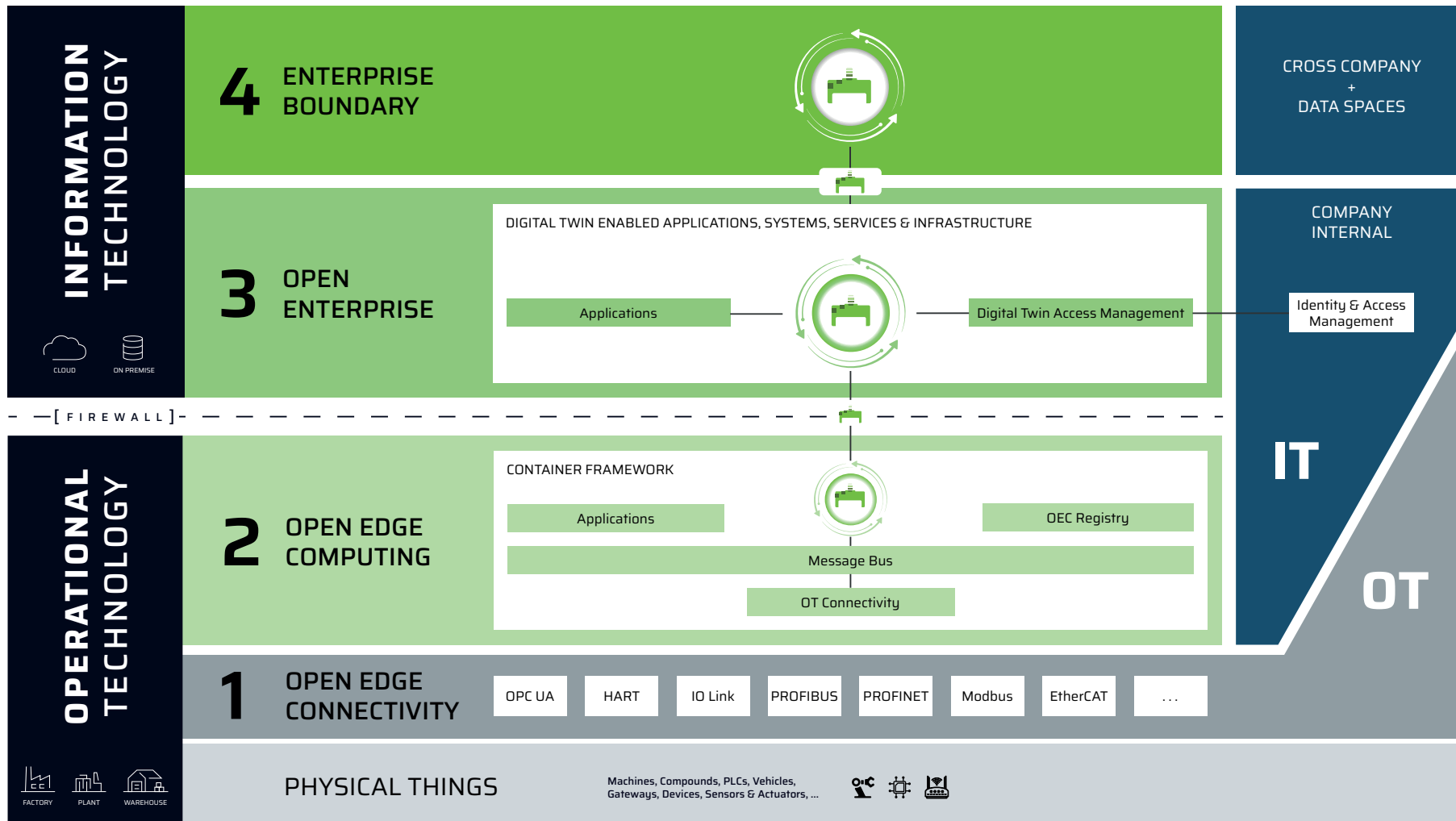
Together, we analyze these issues, collaborate on solutions, and implement them across companies. Our joint efforts lead to the development of best practices and guidelines, ensuring consistent, effective solutions for both IT and OT in the context of Industry 4.0.

Approved Industry value add Strive for compliance	Requirements for interoperability	Repeatable Solutions
Member Activities and Outcomes	Projects / Demonstrators — Hackathons — Guidelines & Publications	Member Product and Service Integration
Members Working Mode	Architectural Guardrails — Process House — Technical Working Groups — Industry Domain Expert Groups	End customer requests
Multivendor OI4 Sandbox Environments	AAS — App Store — Public Key Infrastructure — MQTT — [...]	

OI4 ARCHITECTURAL GUARDRAILS

The OI4 Architectural Guardrails provide detailed, use case-specific considerations. They outline the components and their relationships or interactions that are necessary or recommended for the successful implementation of a use case.

The key benefit of the OI4 Architectural Guardrails is their focus on the essential building blocks required for each use case, helping to streamline complexity and ensure a targeted approach to the most complex elements.

INFORMATION TECHNOLOGY

CLOUD   ON PREMISE

4 ENTERPRISE BOUNDARY

CROSS COMPANY
+
DATA SPACES

3 OPEN ENTERPRISE

DIGITAL TWIN ENABLED APPLICATIONS, SYSTEMS, SERVICES & INFRASTRUCTURE

Applications

Digital Twin Access Management

COMPANY INTERNAL

Identity & Access Management

— [F I R E W A L L] —

OPERATIONAL TECHNOLOGY

FACTORY   PLANT   WAREHOUSE

2 OPEN EDGE COMPUTING

CONTAINER FRAMEWORK

Applications

OEC Registry

Message Bus

OT Connectivity

1 OPEN EDGE CONNECTIVITY

| OPC UA | HART | IO Link | PROFIBUS | PROFINET | Modbus | EtherCAT | ... |

IT

OT

PHYSICAL THINGS

Machines, Compounds, PLCs, Vehicles, Gateways, Devices, Sensors & Actuators, ...

BECOME A MEMBER

Whether you're planning to implement shopfloor / topfloor solutions, want to learn about the latest technology for your connected industry challenges, or simply want to join the best ecosystem for open source implementation – we've got you covered.
We are the OI4 Alliance.

CONTACT

Schedule a meeting with us – choose a convenient time for our first conversation. We'll provide an overview of our core concepts, introduce you to our currently running projects, and the way we work. You'll gain insight into our organization's values, goals, and community mindset.

AGREEMENT

Once you've completed the membership form to officially become a Member, we will schedule an onboarding session where you'll learn about the tools and resources we use. This session will give you direct access to our digital tools, enabling seamless collaboration with the OI4 Core Team and other Members.

PARTICIPATION

Introduce yourself at the Monthly Member Meeting, engage with Work Groups, meet project leads, collaborate with other Members and participate in our community events. You're welcome to contribute wherever you feel most inspired or even initiate your own projects.

IMPACT

As a fully integrated Member, you will have access to all our collective knowledge and learnings, enabling you to get started immediately. By staying engaged with our Members and Partners, you'll remain at the forefront of digital trends and topics. This way, you'll be well-equipped to achieve your company's digital transformation goals.

JOIN US

We've got you covered. Join us in our mission for seamless end-to-end integration and explore our benefits today – by scanning the code below.

→ **Scan me**
openindustry4.com/join-us/

OUR PARTNERS

Partnerships play a crucial role in the success of the Alliance. Check our partners on the way to Industry 4.0!

→ **Scan me**
openindustry4.com/about-us/our-partners/

SUCCESSFUL PROJECTS

We don't talk for hours, we set things in motion now. Read all the news about cases, where we reached project goals fast and were cost efficient using our technological approach.

→ **Scan me**
openindustry4.com/success-stories/

MEET THE TEAM

We are always ready to support you in your mission and the success of your Industry 4.0 projects.

→ **Scan me**
openindustry4.com/about-us/our-team/

CONTACT INFORMATION

Open Industry 4.0 Alliance
info@openindustry4.com

GET INSPIRED **BY THE POWER OF OUR MEMBERS AND PARTNERS**
From machine builders to sensor providers

OPEN INDUSTRY 4.0 ALLIANCE

Our Members

Our Partners

WE **GROW**

→ **Overview of our Members**
openindustry4.com/about-us

YOUR NOTES