SIA "MM" (MM Robotics)

Partner Profile & Partner Information Form (PIF)

Horizon Europe Cluster 4 edition: industrial pilot & integration partner

Ideal-ist profile · 26 October 2026

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IN SHORT

We take Cluster 4 technologies - AI, robotics, sensing and digital twins - **out of the lab and onto real production lines**. We bring access to industrial pilot environments in food processing and other manufacturing, integrate the technology into live production, coordinate equipment interfaces, and validate results against agreed KPIs. **We are looking for a technology owner with an innovative, testable solution that needs a real-world industrial pilot.**

1. Organisation overview

Field	Details
Legal name	SIA "MM"
Trading name	MM Robotics
PIC	864839973
Registration No.	50203386811
Country	Latvia (EU widening country)
Registered address	Miera iela 22, Sigulda, Siguldas nov., LV-2150, Latvia
Organisation type	SME, micro-enterprise (Recommendation 2003/361/EC); start-up founded 14.03.2022
Ownership	100% owned by two natural persons resident in Latvia; Board of two co-owners
Website	www.mm-robotics.com

SIA "MM" (MM Robotics) is a Latvian start-up founded in 2022 in Sigulda. We **design, build and commission production and packaging lines for food producers** and test them in our own demo centre in Sigulda. In Horizon Europe Cluster 4 projects we act as the **industrial pilot and integration partner**: we turn a partner's AI, robotics, sensing or digital-twin technology into a working deployment on a real production line, while the host manufacturer contributes the production environment, operational knowledge and validation.

SIA "MM" itself is a start-up. The experience described in Sections 6 and 7 was gained by our team members in earlier roles at other companies.

Latvia is an EU widening country, so our participation adds geographical diversity to a consortium.

2. Fit with Horizon Europe Cluster 4

Cluster 4 (Digital, Industry and Space) asks for technologies that are demonstrated and validated in real industrial settings. This is where we contribute:

Cluster 4 need	What MM Robotics provides
AI-driven and human-centric robotics in manufacturing	Real production lines to test robot handling, end-of-line automation and human-robot collaboration together with plant operators.
Digital twins and sim-to-real validation	The physical line and the integration work needed to check partners' simulations and models against real factory conditions.

Cluster 4 need	What MM Robotics provides
Industrial AI on existing (brownfield) equipment	Integration of AI with legacy, multi-vendor lines - e.g. quality inspection, predictive maintenance, energy use - with use cases defined together with the host.
Industrial data and OT/IT integration	Sensors, data acquisition and PLC/SCADA links on lines that often have no data infrastructure yet.
Testing and experimentation in real-world environments	An optional trial on our Sigulda demo line, then an on-site pilot with KPI baselines, test protocols and safety evidence.
Industry 5.0: worker-centric manufacturing	Evidence on safety and ergonomics from cold, wet and repetitive tasks where automation and collaboration help operators.
Uptake by SMEs and replication	An integrator-plus-manufacturer model that mirrors how European SMEs would adopt the project results after the project.

Target topics (Horizon Europe Cluster 4, 2027)

- **HORIZON-CL4-2027-02-DIGITAL-EMERGING-52-two-stage** - New approaches for Human/AI collaboration for the workforce of the future (RIA). First-stage deadline 02.02.2027. Our main open topic: we have no consortium yet and are looking for a coordinator and a research partner in human-AI collaboration. We provide shop-floor environments, work with operators and integrate the solution on real lines.
- **HORIZON-CL4-2027-04-DIGITAL-EMERGING-05** - Apply AI: AI-Driven Robotics for Industry: Enabling System Integration and Adoption (IA). Opens 17.11.2026, deadline 18.03.2027. Very close thematic fit (robotics system integration validated in real industrial pilots). We are already in one consortium for this topic; in another strong consortium we can take only a light partner role.

Our approach

- **1. Technology first:** a concrete innovative technology and a testable industrial use case.
- **2. Then the topic:** the most suitable Cluster 4 call topic for that technology and pilot.
- **3. Then the consortium:** the remaining partners, drawing on our network of about 150 partners.

3. What we offer in a Cluster 4 project

- **Pilot environments:** access to industrial pilot environments in food processing and other manufacturing, confirmed with each site owner per project.
- **Integration into live production:** PLC/SCADA, sensors, robots and end-of-line equipment.
- **Interface coordination:** production processes and equipment interfaces between the technology providers and the plant.
- **Operational data:** access only with each manufacturer's approval and under agreed confidentiality terms.
- **KPI-based validation:** baselines, test protocols, safety evidence and scale-up plans.
- **Demo centre step:** an optional trial on our Sigulda demo line before the host factory, so the technology can be integrated and tuned without stopping a customer's production.
- **Consortium building:** a network of about 150 partners to complete the consortium once the technology and pilot are defined.

4. Pilot environments (examples)

Sites are anonymised. Each site owner confirms participation per project, and scope, data access and confidentiality are agreed in advance. The examples show the kind of environments available; other food producers and manufacturers can host pilots too.

Environment	Typical starting point	Cluster 4 use cases
Ice cream & frozen desserts	High product variety, sub-zero and hygienic conditions, multi-vendor lines without full sensor coverage	Vision-based quality inspection, adaptive automation for changeovers, energy optimisation
Fish processing (two plants)	Non-uniform raw material, wet and cold areas, largely manual grading and packing	Robotic handling, computer-vision grading, traceability
Dairy	Partly automated lines that already collect some data	AI on existing line data, quality prediction, predictive maintenance
Bakery & biscuits	Packing-intensive lines	Packing automation, vision QC
Organic and novel-food production	Strict traceability, natural raw-material variability, small batches	Traceability, adaptive process parameters, fast reconfiguration
Other manufacturing (prefabricated construction elements)	Heavy discrete manufacturing, manual inspection	Generalisation beyond food: quality inspection, human-robot collaboration safety
Robotics R&D laboratory	Research environment of a Latvian robotics R&D organisation	Sim-to-real tests and human-robot collaboration before transfer to a factory
Demo centre, Sigulda (MM)	Our own production and packaging demo line	Integrate, test and tune with real equipment; demonstrations for partners and evaluators

Also available for projects outside Cluster 4: a biogas plant (sensors, CO_2 purity) and district heating plants (energy optimisation, predictive maintenance).

5. Roles and work packages

Roles we take in a consortium

Pilot site lead · System integrator · Work package leader · Use-case provider · Validation partner

Work packages we can lead	Work packages we contribute to
Pilot integration & deployment: site access, installation, validation campaigns	**Sensors, data acquisition & OT/IT:** sensor networks and PLC/SCADA links on existing lines
Requirements & use cases: real factory constraints turned into specifications	**Digital twin & AI testing:** sim-to-real checks of partner models on real lines
Industrial validation, KPIs & safety: test protocols, baselines, safety and KPI evidence	**Dissemination & stakeholders:** Latvian network (LTRK, LIAA, LDA, clusters)
Exploitation & replication: uptake plans with Baltic manufacturers	**Project & financial management:** pilot coordination, reporting, cost control

6. Team (experience from earlier roles)

Diāna Skudra-Jaškule | Co-Founder & Strategy Lead

Co-owner and Board Member of SIA "MM". 20 years of experience in the active management and development of start-up, manufacturing and technology companies, including financial management, grant funding and international projects. MBA (professional master's degree in business administration) and BSc in management science. Has developed and led 30+ EU and investment-funded projects (ERDF, EEA/Norway Grants, Horizon 2020/Horizon Europe, Interreg, LIAA, ALTUM) with about EUR 30 million in combined grant funding. Managed the financial part of a Horizon 2020 project and three ERDF R&D projects in a high-tech manufacturing company. Led a work package and pilot site operations in two Interreg Baltic Sea Region projects (ReNutriWater, NURSECOAST-II).

Can lead: consortium and pilot management, exploitation and market uptake, financial management and reporting.

Edgars Jaškulis | Co-Founder & Production Engineering Lead

Co-owner and Board Member of SIA "MM". 20+ years of hands-on experience in manufacturing and industrial equipment. As project manager and board member of an ice-cream manufacturer (2015-2024, 50-95 employees) he planned and implemented production-line and infrastructure development, selected and installed new equipment and scaled production from 250 to 1,100 tonnes per year, including EU co-funded investments.

Can lead: technical integration at the pilot factory, requirements from the production floor, equipment selection, physical deployment and validation, safety evidence.

Valdis Grigielis | Senior Embedded Electronics Engineer

20+ years of developing, producing in small series, installing and servicing microcontroller-based electronic control systems, from firmware and component selection to field reliability and service.

Can lead: sensor integration and data acquisition, embedded systems for pilot instrumentation, energy measurement.

7. Relevant experience

SIA "MM"

- **SmartPack-M packaging automation** (LIAA business incubation programme, ERDF, 2025-ongoing): commercial prototype from TRL 4 to at least TRL 6, demo centre set-up ("packaging-as-a-service") and market entry.
- **Ice-cream ball forming machine** (2022-2023): full design-to-prototype cycle in a food production environment.
- **Techno-economic feasibility study "Next Generation Microfactories"** (2025, SIA "MM" as contractor for a Latvian robotics company): market, technical, supply-chain and cost analysis, including an automated edge pilot line assessment.

Team, in earlier roles

- **Horizon 2020 and ERDF R&D** (2014-2017, high-tech manufacturing company): financial management of a EUR 7M Horizon 2020 project and three ERDF R&D projects.
- **ReNutriWater** (Interreg BSR, 2023-2025, 14 partners from 5 countries): pilot partner and WP lead; experimental greenhouse with reclaimed water at the Ugāle pilot site.
- **NURSECOAST-II** (Interreg BSR, 2023-2026, 16 partners from 8 countries): pilot partner; nanobubble aeration tested at a municipal wastewater plant (Jūrkalne).
- **Ice-cream production scale-up** (2015-2024): capacity from 250 to 1,100 t/year with competitive unit costs.

8. Network

We are connected to Latvia's research, innovation and industry support ecosystem - the Latvian Digital Accelerator (LDA, European Digital Innovation Hub), the Latvian Chamber of Commerce and Industry (LTRK), the Investment and Development Agency of Latvia (LIAA), industry clusters and Latvian universities - and to an international network of about 150 partners. We use it to complete consortia, provide stakeholder engagement and letters of support, and disseminate results in the Baltics.

9. Contact

Field	Details
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SIA "MM" is a start-up founded in 2022; team experience was gained in earlier roles at other companies. Pilot sites are anonymised and confirmed with each owner per project. The topics named in Section 2 are the thematically closest 2027 topics; the final choice depends on the technology and the pilot.