LCAMP NEWSLETTER

Learner Centric Advanced Manufacturing Platform

LCAMP NETWORKING CAMP 2025 - SPECIAL EDITION



Welcome to the LCAMP Newsletter!

We're excited to share highlights from the LCAMP 2025 Conference: Networking Camp, held 13–15 May in Finspång, Sweden.

Nearly 200 educators, innovators, and industry leaders from Europe, the U.S., and Canada came together to advance vocational education and training (VET) in advanced manufacturing.

Participants explored the role of Learning Factories in VET, while breakout sessions focused on the future LCAMP Alliance, the Jobs and Skills Observatory, and Collaborative Learning Factories.

A big thank you to all who joined us—your insights and energy are driving the LCAMP community forward!

IN THIS ISSUE:

- LCAMP Conference
- News
- People in Focus
- Activities
- LCAMP around the world
- Meet the team

LCAMP is working to provide the skills for the future of Industry 4.0, as the project aims to become the European reference platform for knowledge generation and exchange, collaboration and service provision for VET/HVET centres and companies working in the Advanced Manufacturing sector.

Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

LCAMP CONFERENCE 2025
NETWORKING CAMP









The second LCAMP Conference 2025 – Networking Camp for Advanced Manufacturing in Education took place from 13–15 May 2025 in Finspång, Sweden. Hosted by Curt Nicolin Gymnasiet, the event brought together nearly 200 participants from across Europe, the United States, and Canada.

This year's edition focused on strengthening international collaboration, showcasing best practices, and advancing the integration of Industry 4.0 technologies into Vocational Education and Training (VET) and High-VET systems. Participants included educators, policymakers, and industry leaders, who gathered to explore innovative educational approaches and address the evolving needs of the modern workforce.
The programme featured keynote sessions from thought leaders such as Siemens Energy, Rold Academy, and the Swedish Erasmus+ National Agency, alongside interactive panel discussions, hands-on workshops, and dynamic Learning Factory demonstrations.

A key highlight was the introduction of the Collaborative Learning Factory (CLF), a forward-looking initiative aimed at fostering interdisciplinary, challenge-based learning aligned with real-world industrial demands.
Participants also took part in six practical workshops, covering topics such as digital twins, career orientation, mobility programmes, gender equality in VET, and industry–education cooperation. The conference offered numerous networking opportunities and encouraged participants to engage with the LCAMP tools and join the growing LCAMP Alliance.

The second day included insightful company visits to Siemens Energy and KL Industri AB, as well as the Visualisation Center, offering a close-up view of innovation in the field. The final day concluded with an academic visit to Linköping University, where participants explored pioneering research in additive manufacturing.

As noted by LCAMP coordinator Iñigo Araiztegui Arraiz, this is only the beginning of LCAMP's mission to transform advanced manufacturing education across Europe and beyond. For more information or to join the LCAMP Alliance, contact us at info@lcamp.eu.

Conference presentations | **Conference video** | Photo Gallery

Contact info@lcamp.eu

LCAMP CONFERENCE 2025
NETWORKING CAMP



Institutional opening

Held in the industrial hub of Finspång, the event opened with remarks from Mats Annerfeldt, Chairman of the Municipal Council, and Anders Södergren, Director of Curt Nicolin Gymnasiet.

A Platform for Innovation and Collaboration

In his opening remarks at the LCAMP 2025 Conference, **Anders Södergren**, Director of Curt Nicolin Gymnasiet, highlighted the school's unique model as a non-profit institution rooted in strong industry and community collaboration. Located in Finspång, Sweden, the school offers four specialised programmes—Industrial Technology, Electrical Energy, Engineering, and Health Care—and serves 560 students. With 51% ownership by local industries and 49% by the community, and support from major partners like Siemens Energy and Hydro Extruded Solutions, the school exemplifies how close cooperation between education and industry can drive practical, future-ready learning.







LCAMP CONFERENCE 2025
NETWORKING CAMP



Where Education, Industry, and Innovation Converge

Thomas Wiktorsson of Siemens Energy, Daniela de Lucia of Rold Academy and Ellen Gosdoum from the Swedish Erasmus+ National Agency, emphased the importance of regional and European cooperation in modernising technical education.



Siemens Energy engagement in education & Academia
As the largest private employer in Finspång, Siemens Energy is at the forefront of Sweden's green transition—combining advanced technology with strong regional engagement. With SEK 14 billion in annual revenue and 3,900 employees across eight sites, the company leads in exporting sustainable energy solutions, including hydrogen-ready gas turbines and cutting-edge 3D printing. Deeply committed to education, Siemens Energy supports Curt Nicolin Gymnasiet and collaborates with Linköping University to foster innovation, entrepreneurship, and hands-on learning. By promoting lifelong learning and strengthening regional ties, Siemens Energy ensures a skilled workforce ready to shape the future of energy.



Rethinking Training and Education an SME perspective on overcoming Challenges
Rold Academy is rethinking training for a fast-changing world of work, promoting lifelong learning, intergenerational collaboration, and tech integration. With over 8,500 training hours delivered since 2021, it engages diverse stakeholders through working groups and its RLab innovation hub. The Academy focuses on soft skills, inclusive learning, and preparing both Gen Z and Gen X for future challenges.



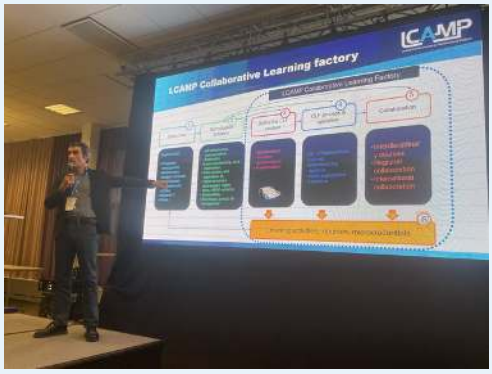
In her video message, **Ellen Gosdoum** from the Swedish Erasmus+ National Agency, emphasised that skills will be the currency of the future, underlining the urgent need to equip individuals with the right competences to thrive in a rapidly evolving labour market. She invited participants to actively engage in dialogue and knowledge exchange with Swedish stakeholders, highlighting the valuable opportunities offered through Erasmus+ mobility and cooperation projects. These initiatives, she noted, provide a powerful platform to foster innovation, share best practices, and build strong cross-border partnerships that drive skills development forward.

LCAMP CONFERENCE 2025
NETWORKING CAMP



Practical Tools for Future-Ready Educators

One of the central themes of the conference, introduced by Unai Ziarsolo (Scientific Coordinator of LCAMP, MIGUEL ALTUNA LHII), was the practical implementation of Learning Factories—dynamic environments where students gain real-world experience using advanced manufacturing technologies. The Collaborative Learning Factory (CLF) initiative, set to launch in September 2026, was presented as a future-forward model for interdisciplinary, challenge-based education across EQF levels 4–5.



The CLF promotes collaboration between students in design, mechatronics, and automation, while aligning curricula with real industry needs. This approach not only enriches the student experience but ensures VET institutions stay agile in a rapidly evolving technological landscape.



The conference also featured Learning Factory Labs from several international partners, showcasing diverse strategies to embed Industry 4.0 into VET training, including: CMQE Industry of the Future Occitanie (France), SANTURTZI LHII, ARMERIA LHII, and TOLOSALDEA LHII (Basque Country), GETKIM VET (Türkiye), DHBW (Germany), MADE (Italy) and CAMOSUN (Canada).



These labs exemplify how interdisciplinary, hands-on education prepares students for dynamic industrial environments.

Download Presentation

Contact info@lcamp.eu

LCAMP CONFERENCE 2025
NETWORKING CAMP



LCAMP Activities: From Tools to Community Engagement

A dedicated session on LCAMP Activities aimed to integrate participants into the project's ongoing initiatives and offer a hands-on understanding of tools developed throughout the platform's journey.

- SME-VET Connection – Pili Alonso (Director, TKNIKA)
- LCAMP Skill Finder – Diana Miceli (Senior Researcher, KIC)
- Learning Factories Self-Assessment Tool – Unai Ziarsolo (CIFP Miguel Altuna LHII)
- Joint Activities: Mobilities – Arvid Carlsson (Curt Nicolin Gymnasiet) & Rikar Lamadrid (CIFP Zornotza LHII)

These tools are designed to support educators, policymakers, and institutions in improving the relevance and quality of advanced manufacturing education across Europe. Noelia Cantero (EARLALL's Director) invited the participants to be part of the future of LCAMP by joining the LCAMP Alliance, as cooperation is key.





Empowering Educators Through Workshops and Tools

The conference featured six practical and forward-looking workshops, offering tools and strategies for educators and institutional leaders:

- Training in Learning Factories
- Mobility Projects for Students and Teachers
- GLOW – A coaching initiative for women in VET
- Siemens Energy Project – Insights on industry–VET collaboration
- Career Horizons – Motivating youth towards technical education
- Digital Twins and VET/SME Connections

These workshops provided an opportunity to exchange best practices, develop new collaborations, and gain new pedagogical insights aligned with the future of vocational training.

The LCAMP 2025 Conference facilitated valuable exchanges on how to shape resilient, inclusive, and future-proof education systems.





LCAMP CONFERENCE 2025
NETWORKING CAMP



Experiencing Innovation on the Ground sessions

On the second day, participants had the opportunity to step beyond the conference halls and into the heart of Finspång's advanced manufacturing ecosystem.

Site visits included **Siemens Energy**, a global leader in energy technology committed to reducing greenhouse gas emissions and accelerating the energy transition. Attendees gained insights into how the company leverages innovation to make energy more reliable, affordable, and sustainable.

The group also visited **KL Industri AB**, a prominent local provider of high-quality solutions for power distribution. Known for its expertise in manufacturing metal and concrete substations, transformers, and switchgear, KL Industri offered participants a real-world view of industrial reliability and innovation in action.

Another stop on the tour was the **Visualisation Center**, a one-of-a-kind facility blending interactive experiences with cutting-edge research.

On the third day, the focus shifted toward research and academic excellence, with a visit to **Linköping University's** Department of Management and Engineering (IEI). There, participants explored groundbreaking work in electron beam-based 3D printing, also known as additive manufacturing.





Looking Ahead

As the project coordinator, **Iñigo Araiztegui Arraiz** remarked, this is not the end, but the beginning of the LCAMP journey—and it's only through our collective efforts that it will continue to grow.

The LCAMP 2025 Conference was not just about sharing knowledge — it was about building a movement. Attendees were invited to become part of the LCAMP Alliance, a growing community committed to learner-centric innovation in advanced manufacturing education. Interested organisations can join by contacting info@lcamp.eu.

Next LCAMP Conference

We are happy to announce that the next LCAMP Conference will take place on:

🗓️ **24–27 March 2026**
📍 **Basque Country**

More details coming soon – we can't wait to see you there!

NEWS

PARTNERS MET IN SLOVENIA AND SWEDEN IN THIS SEMESTER

The Learner Centric Advanced Manufacturing Platform for Centre of Vocational Excellence (CoVEs) consortium met twice in the past months.

LCAMP started the year on a high note with the 6th partner meeting in Celje, Slovenia, on January 14–15, 2025. Hosted by the Association of Slovene Higher Vocational Colleges (Skupnost višjih strokovnih šol RS), the event brought together project partners to share updates and plan for the year ahead.

On 15 May 2025, the LCAMP project partners gathered in Finspång, Sweden, for a key project meeting hosted by Curt Nicolin Gymnasiet. This strategic gathering marked a crucial step as the initiative enters its final phase, with partners aligning on the next steps for Work Packages (WPs) and laying the groundwork for the final project stages.



Celje (Slovenia)



Finspång (Sweden)

Read more

PEOPLE IN FOCUS

STAKEHOLDERS

> **"TRUE INNOVATION IN TRAINING HAPPENS WHEN SMES, VET PROVIDERS, AND CIVIL SOCIETY COME TOGETHER—NOT JUST TO DELIVER KNOWLEDGE, BUT TO CO-DESIGN LEARNING ECOSYSTEMS THAT ARE INCLUSIVE, AGILE, AND BUILT FOR THE FUTURE OF WORK. THIS IS EXACTLY THE KIND OF COLLABORATION LCAMP MAKES POSSIBLE."**

Daniela De Lucia, Director of Rold Academy, shares her insights with LCAMP on the evolving landscape of training in advanced manufacturing and the importance of lifelong learning and collaboration in building resilient learning ecosystems.



Daniela de Lucia

Director of Rold Academy
(Lombardy Region, Italy)

Rold Academy's main mission is to foster lifelong learning and deliver high-quality, inclusive training for employees, students, and SMEs. It promotes knowledge exchange and collaboration to enhance skills, drive innovation, and boost the competitiveness of local businesses. The Academy aims to be a leading reference for future-focused training in advanced manufacturing.

Read more

ACTIVITIES

- a skills and jobs observatory on Advanced Manufacturing tendencies from a VET perspective
- an open innovation community of best practices to articulate applied research actions
- learner-centric training for advanced manufacturing
- collaborative learning factories
- SME – VET connection

Read more

POLICY RECOMMENDATIONS (II) Enhancing Learning Factories in VET

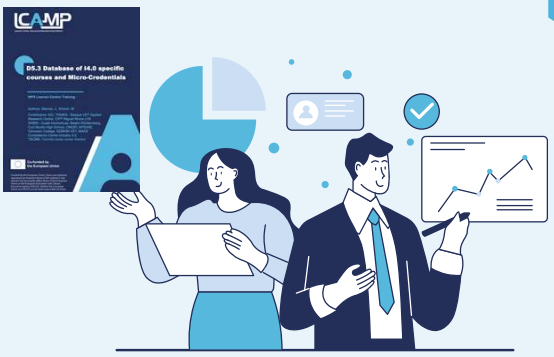
The second LCAMP policy brief presents key insights into the design, implementation, and international collaboration of Learning Factories in vocational education and training (VET). Targeted primarily at EU-level policymakers, though relevant at national and regional levels, it underscores the need for a skilled workforce, state-of-the-art training facilities, and active learning methodologies. These findings, based on LCAMP's in-depth research (Work Package 6), offer actionable recommendations for strengthening VET systems across EQF levels 3 to 6.



Read the recommendations here

MICRO-CREDENTIALS AND I4.0 IN VET: NEW LCAMP REPORT

This LCAMP report explores how micro-credentials can support flexible, future-ready learning in European VET systems. It highlights the LCAMP Database of I4.0-specific courses and outlines key standards for designing digital credentials aligned with Industry 4.0 and lifelong learning goals.



Read the report here

NEW LCAMP REPORT: SME DIGITAL TRANSFORMATION CASE STUDIES

This report showcases how the LCAMP project applied the ADMA methodology to assess and support digital transformation in manufacturing SMEs across Europe. It highlights key findings from company scans and the development of tailored implementation plans, reflecting diverse needs in innovation, operations, and sustainability.



Read the report here

HIGHLIGHTS

LCAMP AT THE FOREFRONT OF ADVANCED MANUFACTURING SKILLS DEVELOPMENT



On 19 March 2025, the LCAMP Alliance, in collaboration with EARLALL, organised the webinar “Advanced Manufacturing Skills Analysis: Understanding Skills Challenges and Opportunities in AM Sectors across European Regions.”

This event, part of EARLALL’s sector-focused skills analysis series, highlighted the importance of skills development in Advanced Manufacturing (AM) and showcased LCAMP’s work in supporting Vocational Education and Training (VET) centres across Europe.

Read more

EXTENDING EDUCATIONAL PARTNERSHIPS BEYOND LCAMP



We're thrilled to share a powerful story of global collaboration, sparked by the LCAMP 2024 conference in Aalen, Germany.

In a new article, Imtehaze Heerah from Camosun College (Victoria, BC, Canada) reflects on how one presentation led to an unexpected and inspiring partnership with CIFP Tartanga LHII in the Basque Country.

Read more

LCAMP RECOGNISED AT THE ORTAK YARINLAR 2024 REWARD PROGRAMME IN TÜRKIYE



The LCAMP project was honoured with a prestigious award at the Ortak Yarınlar 2024 Reward Programme, hosted by the Turkish Confederation of Employer Associations (TİSK). This national-level event served as a significant platform to promote LCAMP to a wide audience, reaching hundreds of thousands of people across Türkiye.

Read more

LCAMP AROUND THE WORLD

PARTNERS ARE SHARING THE LCAMP PROJECT AT LOCAL ADVANCED MANUFACTURING AND VET EVENTS

BASQUE COUNTRY



Blended Intensive Programme "Towards the Learning Factory" Completed.

The programme combined online sessions (held on March 25 and April 11) with an intensive in-person week (March 31–April 4), offering participants both theoretical insights and hands-on experience.



LCAMP at the VET Summit 2025 in Bilbao. More than 300 participants from across Europe gathered in Bilbao from 8–10 April for the VET Summit 2025 – Keys to a Global, Digital, Inclusive, and Sustainable Future.

MALTA



The EU4Dual Annual Conference 2025, held under the inspiring theme "Greener Visions, Brighter Futures", gathered over 300 participants from more than 15 countries to explore the future of Dual Higher Education, the Green Economy, and the Future of Work. Among the key contributors was Prof. Klaus-Dieter Rupp (DHBW-Heidenheim), representing LCAMP

CASTILLA Y LEÓN



On April 8–9, more than 400 education professionals, policymakers, and European stakeholders came together in Valladolid for the 4th Vocational Training Forum of Castilla y León, hosted by the region's Department of Education in parallel with its regional Skills Competition. The event, supported by EARLALL, spotlighted the critical role of vocational education and training (VET) in driving regional innovation, inclusion, and excellence.

SOUTH AFRICA



LCAMP partners recently participated in the 15th Conference on Learning Factories (CLF 2025), held from March 25 to 28 in Stellenbosch, South Africa.

LCAMP AROUND THE WORLD

BASQUE COUNTRY - SWEDEN



In February 2025, students from Miguel Altuna traveled to Sweden for a reciprocal visit to Curt Nicolin Gymnasiet.

During this visit, the Basque students worked alongside Swedish students, learning about Swedish installation techniques and gaining practical experience in electrical installations. They also had the opportunity to explore basic PLC programming and work with digital twin technology using Simumatik software. The exchange included visits to two companies specializing in these areas, offering the students further exposure to industry practices.

FRANCE

Mecanic Vallée Companies Embrace Advanced Manufacturing 4.0.

So far, Mecanic Vallée has conducted audits for 16 companies, with support from students in work-study programs from IUT Limoges (GMP – Mechanical and Production Engineering) and IUT Rodez (QLIO – Industrial Logistics and Quality). Four companies have now moved on to the next phase of their transformation journey

GERMANY



Practical Knowledge for Vocational Education: Insights from LCAMP Workshop.

At the end of February, FORCAM hosted a workshop as part of the LCAMP Project. Their mission within the project is to collaboratively design a practice-oriented curriculum that equips students with the essential skills for working in globally connected discrete manufacturing environments.

EU LEVEL



LCAMP actively participated in the third edition of the European Employment and Social Rights Forum, held on 5-6 March 2025 in Brussels. Represented by EARLALL and TKNIKA, LCAMP brought its consortium's voice to key discussions, continuing its engagement from previous editions.

MEET THE TEAM



The LCAMP consortium is composed of 19 **full partners from 11 countries**, of which **9 are educational organisations**, **7 are industrial companies** and **4 are VET and industrial associations**. The consortium is also supported by 61 associated partners.

Meet the team

FOLLOW US

Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.