

Alminica AB

Ulrika, Sweden

Research

Innovation

Training

Education



An Innovation Ecosystem

In Ulrika, Sweden

Acting all over the world
using competence and
digitalization



A partnership by place based innovation

Two essential international innovation actors in the innovation ecosystem are Alminica AB and International Association of Advanced Materials (IAAM).

Alminica AB has JMS Center for Research Utilisation as educational division, and ICM Research Institute in research. IAAM has the Institute of Advanced Materials as research and educational acting body.

Together these interact with local actors to create a glocal partnership (global and local context in combination).



Team collaboration
is the essence that
creates progress.
The diversity is
a strength that
facilitates the global
partnerships.

www.ulrikaringen.se
www.alminica.se
www.researchutilisation.eu
www.icmresearchinstitute.se
www.iaamonline.org
www.iaam.se

Courses and Training

Educate the young generation and strengthen active researchers for future impact

The partnership has joint focus to create capacity that can contribute to sustainable development goals. That will mainly happen by next generations and experienced researchers.

- Courses with focus on energy, environment, health, innovation, impact creation, research to business.
- Training online as well as onsite at Stenåkra Business and Competence Center in Ulrika Campus.



The partners have focus on collaborative efforts. This means that any interested individual or organization can get in touch about their interest in research, education, courses, or training. Solutions are tailor-made for each specific partnership and agreement.



Impact

Research to Business

Certificate Training

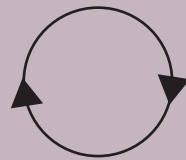
Coordinated by Dr. Mikael Syväjärvi

Training runs continuously
(training circle)

Benefit by impact to own case

Individual feedback

Register any time

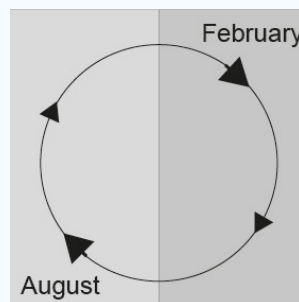


Training Plan:

Attend the transfer of knowledge (ToK) sessions and make research impact assignment. The training program is 6 months. Then next program starts. Anyone can enter at any time and complete training by following the training circle. For example, come in at month 4 and follow 3 months in next part of training circle.

10 ToK sessions per training program.
At each session there is a focus topic.
Topic is discussed at end of session.
Participants are expected to be active.

Research impact assignment by own
business case (specific for your benefit).



Certificate Training

Training content
10 trainings/6 months
Mid Feb-Aug; Mid Aug-Feb
Online mode (Zoom)
Each session 90 minutes



Coordinated by Dr. Mikael Syväjärvi

Certificate by Institute of Advanced Materials, IAAM (Ulrika, Sweden)

<https://www.researchutilisation.eu/research-to-business/>

mikael@alminica.se

Details of Training Plan:

Capacity

There are many unknown factors for research to business and no recipes. It will not happen fast. We will need to create own capacity to facilitate how our research can come to next level. We can build our capacity by sharing experiences, examples and create knowledge transfer.

The training consists of 10 transfer of knowledge topics. These serve as exercises to understand the general principle of business from research cases.

Each participant will have their specific Research impact assignment. This is taken from your own case. You will describe this and build a research towards business roadmap. Each participant will get support and feedback by the lecturer and experts. It will act to build experience in describing potential business roadmap and impact from your research.

About

Dr. Mikael Syväjärvi is Research & Innovation Coordinator at the **Institute of Advanced Materials, IAAM**. He is founder of **Alminica AB** that is an SME providing innovation services and has **ICM Research Institute** as acting research body. He is active in research regarding growth of advanced materials since 1995, such as graphene on silicon carbide, and novel approaches of silicon carbide for new energy applications. Since 2005 active in the entrepreneurial discovery process by creating startups and technology transfer from research and innovation. He has experience from broader contexts for research to market, such as avenues in European research and innovation strategy for smart specialisation for regional economic growth, and strategic national innovation programmes. He is active in global partnerships for promoting impact from research, educating next generation research leaders, and establishing value chains as tool to contribute to sustainable development goals using energy and environmental technologies from advanced materials.

Impact



- Emerging technologies motivation by current technology
- Why publishing needs new approaches for usefulness
- Learn from silicon and silicon carbide generations
- Look into the future today
- The importance of value chain
- Technology alignment with place based innovation
- The entrepreneurial discovery process as career
- Go international from the start
- Disseminate to create partnerships
- Become leading to take lead



Organization

Training and certificate are provided by the **Institute of Advanced Materials, IAAM** which offers advanced education and training programs for career growth and capacity building. We have a global community and act with the belief that collaborations inspire fruitful research and education exchange. This facilitates new methods and technologies in advanced materials towards sustainable approaches in health, energy, and environment.

The **R&D World Links** are based on global network of R&D labs, expert groups and decentralized facilities that strengthen and establish interdisciplinary participation of researchers and students in international Research & Innovation activities. The institute coordinates projects and brings together experts from diverse subject areas.

<https://iaam.se/R&D-world>

The **Training & Education Programmes** are offered to individuals in all stages of their career, as well as to companies.

<https://iaam.se/training-courses>

Capacity building



Onsite

Courses and Training
Research and educational visits
Partnership Meetings
Consortia Building



Onsite including accomodation and full board

From 2023 courses, educational programmes and trainings will be onsite at Ulrika Campus in Stenåkra Business & Competence Center. There will also be planning meetings for building consortia with partnerships. The meetings can be from 2 days (lunch to lunch) to full week (lunch Monday - lunch Friday).

Contact Institute of Advanced Materials for updated information and partnership proposals.

www.iaam.se



International

Asia, Middle East and Africa

For global solutions it is critical to act internationally. Our team of experienced project managers establish partnerships world wide. Below are some examples from various continents.

Africa

Examples of established partnerships are in Training in innovation capacity and transfer of knowledge between local ecosystems for rural developnet and IT.



Christine Makichi Jerin Lubna

Asia

Examples of established partnerships are in courses and education, centres of excellence.



Mohanad Agha

Middle East

Examples of established partnerships are in IT, farming and technologies for the new generation.



The global effect

Transfer of knowledge in international context is the key component for global impact. The young generation is of particular importance to address long-term development and reach 2050 sustainable goals.

Naa Allotey

Sustainability

For global solutions it is necessary to act in sustainable ways. We can not travel to meet physically in the same way as before, especially when it is international and long distance travelling. We have to work in hybrid ways. Physical meetings are important for the long-term partnership over many years and even decades. It is also a way to understand new avenues when meeting young generations, cultures, and factors which matter for creating unexpected ideas. The online meetings are efficient as complementary activity. Overall, we can have fewer physical meetings with more frequent online meetings.

Focus area:

Sustainable Transport and urban planning: the matter of inclusiveness

Transport is central for sustainability. This is studied in various ways all over the world. Often projects do not consider gender aspects and inclusiveness, major influential components of sustainability. These factors are not looked into when the logistics and transport factors are planned. For that purpose we have started training modules and transfer of knowledge courses.

For more information: **Jerin Lubna**, Programme manager
Sustainable Transport and Urban Planning; jerin@alminica.se



Emerging Technologies

linking industry and research
by
partnership creation

From research to business: key drivers for emerging technologies

Innovation capacity

(real) innovation impact from research towards emerging technologies

Advanced Materials

Impact from research

When does an emerging technology go from being emerging to be a technology?

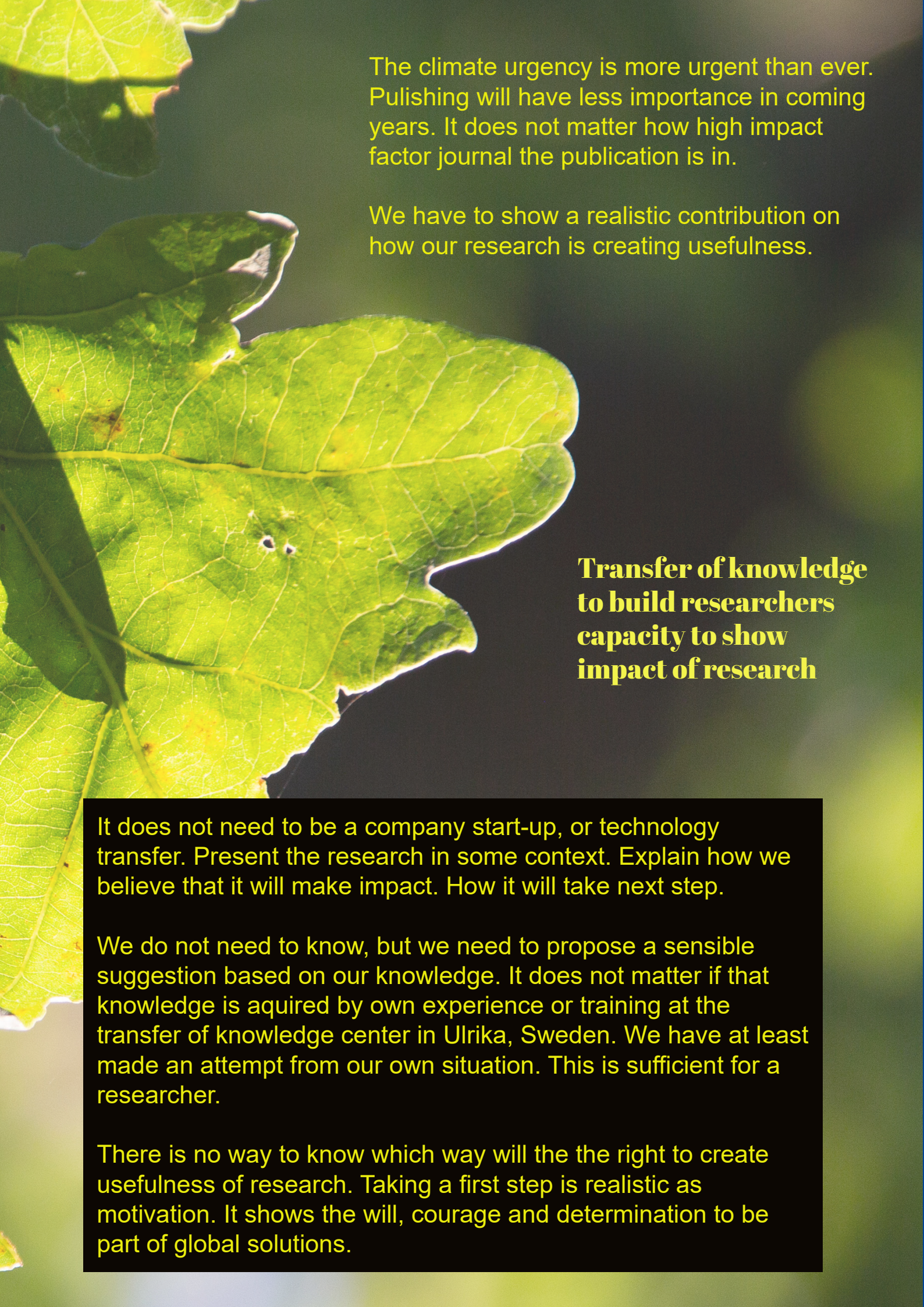
Key enabling technologies

Aspects on bringing the emerging technology to grow new research avenues for potential future (emerging) technologies

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ICM Research Institute | Alminica AB
Ulrika, Sweden

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The climate urgency is more urgent than ever. Publishing will have less importance in coming years. It does not matter how high impact factor journal the publication is in.

We have to show a realistic contribution on how our research is creating usefulness.

**Transfer of knowledge
to build researchers
capacity to show
impact of research**

It does not need to be a company start-up, or technology transfer. Present the research in some context. Explain how we believe that it will make impact. How it will take next step.

We do not need to know, but we need to propose a sensible suggestion based on our knowledge. It does not matter if that knowledge is acquired by own experience or training at the transfer of knowledge center in Ulrika, Sweden. We have at least made an attempt from our own situation. This is sufficient for a researcher.

There is no way to know which way will be the right to create usefulness of research. Taking a first step is realistic as motivation. It shows the will, courage and determination to be part of global solutions.

Part of Erasmus exchange



Student Traineeship Education and Training Staff

Individual training in an ecosystem of partnership organizations
Ulrikaringen Innovation and Digitalization

- Emerging technologies from advanced materials approaches
- Innovation capacity for sustainable exploitation
- Entrepreneurship from research and innovation
- Business approaches for bringing research to market
- International exchange as facilitator for global change
- Knowledge transfer as tool for sustainable implementation
- Digitalization and online training
- Multicultural meetings and experiences
- Culture and nature experiences of Sweden

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www.iaam.se
www.iaamonline.org

ICM Research Institute | Alminica AB
Receiving organization
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Institute of Advanced Materials
International Association of Advanced Materials
Partner organizations

Erasmus+

EU programme for education, training, youth and sport