

KETs2026 reloaded – EU brokerage event September 24, 2026 (and beyond) | online



Workshop 3 - WS 3 - Artificial Intelligence & ICT

Manuel Spaeth

German Digital NCP (DLR-PT)

Pitches by the Participants

1. Jongbae Kim (ETRI)
2. Franz-Michael Eley (TH Aschaffenburg)
3. Göktuğ Özkan (Maltepe State Hospital)
4. Takashi Kokudo (Japan institute of health security)
5. Mislav Jurić (Mibyte)
6. Max Weber (TH Rosenheim)
7. Bernd Heesen (HS Ansbach)
8. Mari Sekino (QERA)
9. Johann Erath (German Plastics Center)
10. Kazuhiro Matsuda (M Bio Technology)
11. Raziye Demiralay (Alanya Alaaddin Keykubat University)
12. Piotr Nowak (Lukasiewicz Research Network)
13. Tobias Kuhn (Knowledge Pixels)
14. Alma Kolleck (Technical University of Applied Sciences Würzburg-Schweinfurt)
15. Jean-Luc Crebouw (CandyVoice)
16. Mehmet Ali Şenel (EGN POWER)
17. Suneela Sardar (University of Lincoln)
18. Venkata Suresh Vajrala (QPlox Eng)
19. Mariko Kageyama (Tohoku University)

Jongbae Kim (ETRI)

Electronics and Telecommunications Research Institute (ETRI)

- ETRI is a government-funded research institute in the Republic of Korea conducting R&D in information and communication technologies.
- Expertise in theoretical second-order nonlinear optics and nonlinear resonant structures, with a research focus on theoretical modelling and numerical analysis of optical transistors.
- No previous participation in EU-funded projects.
- ETRI at a glance
 - Daejeon, Republic of Korea
 - Relevant research area: photonics and optical devices
 - Website: www.etri.re.kr



Project idea /expertise

- The project builds on a theoretical formulation of an optical transistor based on a nonlinear resonant structure employing cascaded second-order nonlinear interactions.
- Two schemes employing cascaded SHG/iSHG and SHG/OPA, respectively, have been theoretically investigated. Exact analytical solutions and numerical calculations show simultaneous all-optical amplification and digital on/off switching.
- The analysis also predicts a new nonlinear-optical phenomenon, nonlinear transparency, in both schemes.
- The paper “Optical Transistor of the Nonlinear Resonant Structure,” published in JOSA B, reports the theoretical proof-of-principle and provides a peer-reviewed basis for experimental validation.
- The next step is experimental realization of the optical transistor using a nonlinear Fabry–Pérot resonant structure corresponding to the theoretical model.
- The current maturity is around TRL 2, with experimental validation of the theoretical proof-of-principle toward TRL 3.

Contact details

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Franz-Michael Eley (TH Aschaffenburg)

Technische Hochschule Aschaffenburg (THAB)

University of Applied Sciences, Germany

Applied research at the interface of logistics, energy and artificial intelligence

Skills & expertise

Simulation and optimization of logistics and production systems
Vehicle routing, dispatching and scheduling
Combinatorial optimization and metaheuristics
Reinforcement Learning for dynamic decision-making
Energy-aware logistics and smart charging
Discrete-event simulation and simulation-based optimization

Current R&D focus

Integrated routing and charging optimisation for battery-electric heavy-duty vehicle fleets

Our research combines simulation, optimisation and AI to support day-ahead planning and real-time adaptation under operational and energy-related constraints.

Experience

National collaborative R&D projects and applied research with industry

AI-enabled Energy-Flexible Logistics with Battery-Electric Heavy-Duty Fleets

Challenge

Electric truck fleets connect freight logistics and the electricity system.

Routing and charging are often planned separately, limiting operational efficiency and the use of energy flexibility.

Project idea

AI-based integrated optimization of transport operations, charging and energy flexibility for battery-electric heavy-duty fleets.

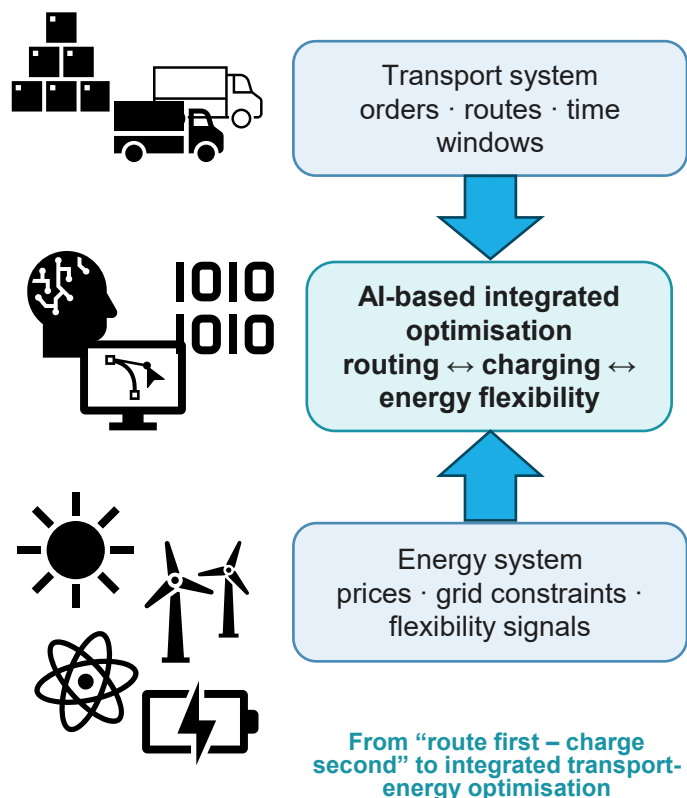
Approach

Day-ahead route and charging optimization

Real-time adaptation to disturbances and energy conditions

Smart charging with prices, grid constraints and vehicle availability

Simulation-based testing and validation



THAB can contribute

Simulation

Combinatorial optimisation

Reinforcement Learning

Integrated routing & charging

We are looking for

Experienced Horizon Europe coordinator
Logistics operators with electric HDV fleets

DSOs / energy utilities / aggregators

Charging infrastructure providers

AI and energy-system research partners

Intended role: Research and technology partner – not overall project coordinator

Contact details

Contact person	Prof. Dr. Franz-Michael Eley
Organisation	Aschaffenburg University of Applied Science Technische Hochschule Aschaffenburg (THAB)
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**Research focus: Logistics Simulation · Optimisation ·
Artificial Intelligence**

Göktuğ Özkan

(Maltepe State Hospital)

SAFE-CLINAI Challenge

- **WHY** — High scores can hide dangerous omissions, unsupported certainty, weak evidence traceability and brittle behaviour.
- **CONCEPT** — A healthcare AI challenge using synthetic, traceable cases; adversarial variants; blinded clinician review; safety, uncertainty, evidence, robustness and workflow-fit KPIs; and repeatable regression tests.
- **RESEARCH SEED** — TurKMedBench: 24 synthetic hematology cases × 5 models = 120 responses. Research-stage only; not clinically validated or deployed.
- **WE OFFER** — Clinical use-case and challenge specifications; synthetic-case design; safety-focused scoring; clinician-review workflows; and evaluation governance.
- **WE SEEK** — An eligible European coordinator with RIA/FSTP experience; healthcare user-industry core partners; AI SMEs and platform/challenge operators; eligible clinical, ethics, regulatory and exploitation partners.
- **TARGET** — HORIZON-CL4-2027-04-DIGITAL-EMERGING-04 | AI & ICT workshop
- **CONTACT** — Göktuğ Özkan, MD | Internal Medicine Specialist & Clinical AI Safety Researcher | drozkan2@gmail.com

Takashi Kokudo

(Japan institute of health security)

Organisation name

- Japan institute for health security
- Hepato-biliary pancreatic surgery
- No experience in EU-funded projects
- Japanese center for disease control and prevention



Project idea /expertise

- Description of your project idea (and why you expect it to be successful)

Treatment allocation for patients with hepatocellular carcinoma through machine learning of the Japanese nationwide liver cancer registry.

- Description of what you can offer to other proposals or request from partners

Validate the utility of Japanese artificial intelligence in Western patients.

A machine learning algorithm for optimizing treatment selection for patients with up to three hepatocellular carcinomas measuring ≤ 3 cm.



Takashi Kokudo, Yasuhide Yamada, Yoshinari Asaoka, Ryosuke Tateishi, Kiyoshi Hasegawa, Yoshinori Kabeya, Sumito Yoshida, Yuma Nakamura, Kengo Yoshimitsu, Hirohisa Yano, Takamichi Murakami, Takumi Fukumoto, Etsuro Hatano, Mitsuo Shimada, Naoya Kato, Hiroko Iijima, Masayuki Kurosaki, Michie Sakamoto, Masatoshi Kudo, Norihiro Kokudo
Japan Institute for Health Security, National Center for Global Health and Medicine, Tokyo, Japan

Background

In the Japanese guidelines liver resection (LR) is equally recommended as radiofrequency ablation (RFA) for up to three hepatocellular carcinomas (HCCs) ≤ 3 cm in size. However, which patient benefits from which treatment is not well known. The aim of the study is to establish a machine learning (ML)-based treatment guidance based on survival outcomes.

Methods

We recruited 18,958 patients with up to three HCCs ≤ 3 cm in size from the nationwide survey of Liver Cancer Study Group of Japan (Fig. 1). In this study, we applied the Recurrent Deep Survival Machines (RDSM) model for deep survival analysis. To evaluate the performance of our model, we employed 10-fold cross-validation. The log-rank test was used to compare survival curves, with a significance threshold of $p < 0.05$. Additionally, to account for potential confounding factors, 1:1 propensity score matching using the nearest neighbor method with logistic regression was performed.

Conflict of Interest Statement

The presenting author declare no conflict of interest.

ML modeling effectively aided treatment allocation for patients with up to three HCCs ≤ 3 cm in size. Our study underscores the potential utilization of ML modeling in terms of treatment allocation in patients for up to three HCCs ≤ 3 cm in size.

Results/Graphs/Data

Fig. 1. Flow diagram of patient selection

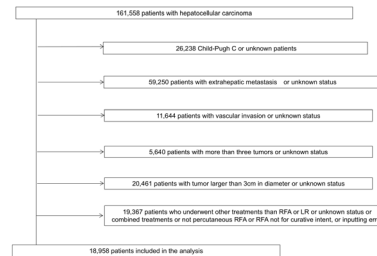


Fig. 3. Overall survival of patients in the recommended and nonrecommended treatment groups

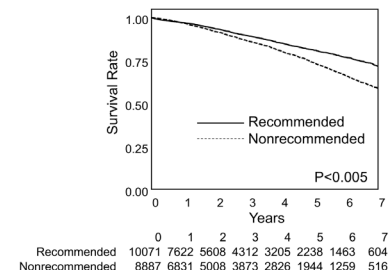


Fig. 2. Overall survival of the entire cohort. RFA: radiofrequency ablation, LR: liver resection.

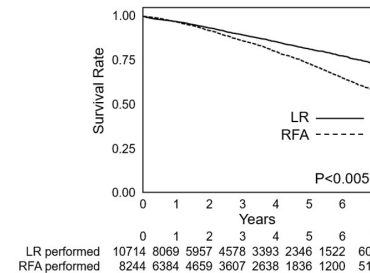
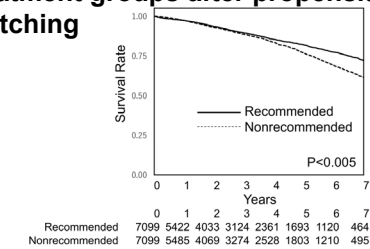


Fig. 4. Overall survival of patients in the recommended and nonrecommended treatment groups after propensity score matching



The OS of patients who underwent LR was significantly longer compared with patients who underwent RFA (5-year survival rate 81.4% vs. 73.1%; $p < 0.005$; Fig. 2). Patients who underwent recommended treatment had significantly longer survival compared with patients who did not undergo the recommended treatment (5-year survival rate 81.2% vs. 73.9%; $p < 0.005$; Fig. 3) which was confirmed even after propensity score matching (81.9% vs. 76.7%; $P < 0.005$; Fig. 4). There were 6,966 patients (84.5%) in the patients who underwent RFA where LR was recommended by the ML modelling especially in patients showing typical imaging patterns (

Contact details

Contact person

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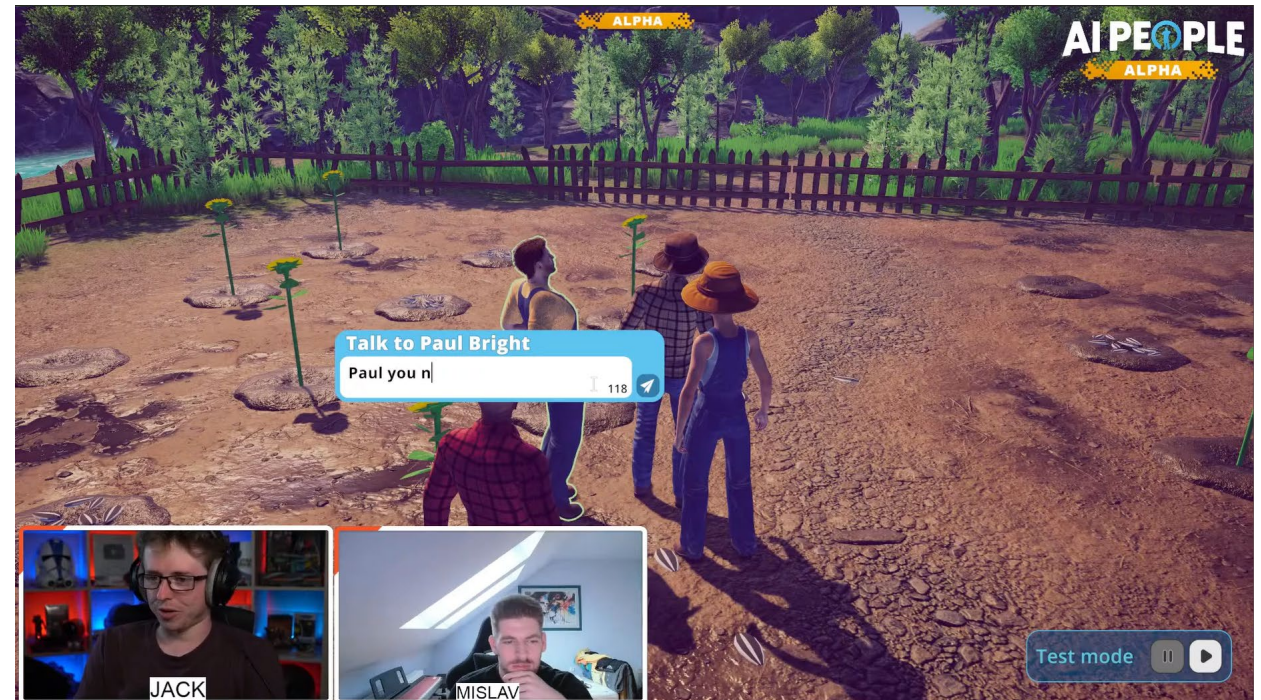
B2Match profile

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Mislav Jurić (Mibyte)

Mibyte

- Croatian SME, founded in 2023
- One senior AI & ML Engineer and Consultant
- Worked with clients from the EU and the US
 - Clients include [GoodAI](#) and [Newfire Global Partners](#)
- MSc, University of Zagreb (FER); three publications
- <https://www.mislavjuric.com/>



AI People (GoodAI) – an LLM-powered computer game

What I bring, and what I am looking for

- I take on the AI work package – as lead, or as part of a larger team
 - Open to any project with an AI component
 - Full lifecycle – from architecture to production deployment
- Domains I worked in:
 - LLMs, agentic AI, generative AI
 - NLP, speech (ASR/TTS)
 - Computer vision, traditional ML
- Industries I worked in:
 - Healthcare, gaming, agriculture, enterprise, advertising
- Looking for:
 - A beneficiary or work-package role in a consortium – not coordination
 - Topic stays open: any topic that needs an AI partner

Contact details

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Max Weber (TH Rosenheim)

SCSC – Seed Center of Statistical Consulting | TH Rosenheim, Germany

Who we are

- Statistical consulting and applied-AI unit of Technische Hochschule Rosenheim (University of Applied Sciences), Bavaria, Germany
- One team spanning statistics, machine learning and industrial domain data – from research question to deployed model
- Works with industry, utilities and public bodies on data-driven decision support

EU-funded projects

- No Horizon Europe participation yet – KETs2026 is our entry point. We bring applied research and industry collaboration experience at national level and are looking for an experienced coordinator to build the consortium with.

Skills and expertise

- Time-series modelling, anomaly detection and condition assessment on industrial sensor data (SCADA, inverter, meteorological)
- Self-supervised representation learning for multivariate time series
- Uncertainty quantification and calibration (conformal prediction), abstention logic
- Evaluation design, benchmarking and statistical validation of ML systems
- Deployment of statistical / ML models as containerised production services

How we contribute to consortia

- Methodology and evaluation partner, or scientific lead for data-centric AI topics

Fault knowledge that survives model changes – annotation-preserving predictive maintenance for energy assets

Workshop: Artificial Intelligence & ICT (Cluster 4) · Application: wind & PV assets (Cluster 5) · RIA, 36 months, TRL 3 → 5

The problem

Condition-monitoring models lose their fault knowledge with every retraining or model change. Rare faults appear in operation long before enough examples exist. Years of maintenance records stay unused. Result: predictive maintenance stays a pilot.

The idea – two contributions

- Annotation-preserving data architecture: fault knowledge is bound to asset + time interval + maintenance report. Models and indices become recomputable artefacts. Entire maintenance histories are annotated retroactively in one pass.
- Retrieval-based diagnosis on self-supervised time-series embeddings (built on normal-behaviour-model residuals from standard 10-min SCADA data): new cases usable without retraining, abstention on unknown states, every output explained by real historical cases.

Why we expect it to succeed

- Builds on established wind-industry practice (NBM residuals, SCADA available at every operator); small data footprint – no large compute needed
- Go/no-go at month 6 with a defined fallback; open benchmark for incremental fault-class integration as a project deliverable

We offer (SCSC)

- Scientific lead: methodology, evaluation, open benchmark
- Data architecture, embedding, report-to-period linking, calibrated inference with abstention

We are looking for

- Wind-farm operators (deep pilot) and PV operators (transfer study): SCADA history, maintenance records, domain experts – ideally from ≥ 2 EU countries
- European condition-monitoring SME: integration into existing platforms, exploitation
- Research partner in time-series machine learning
- Experienced Horizon Europe coordinator

Also open to join other Cluster 4 / 5 proposals as methodology and evaluation partner.

Contact details

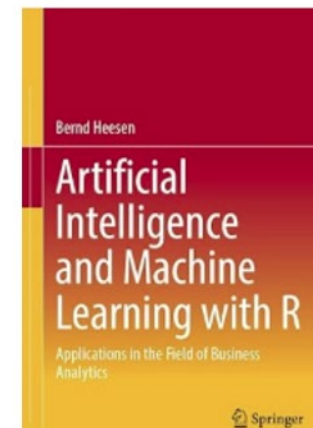
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Bernd Heesen (HS Ansbach)

Prof. Bernd Heesen – Ansbach University of Applied Sciences

Bio:

- 1991 Diplom-Wirtschaftsinformatiker, TU Darmstadt
- 1991-2002 IT-Consulting (Deutschland + USA)
1991-1995 Consultant, Software AG (Deutschland)
1995-1996 Manager, Price Waterhouse (USA)
1996-1997 President & Founder, ICG (USA)
1997-2001 President & Co-Founder, Prescient Consulting (USA)
2001-2002 President, SAP SI America (USA)
- 2002-2004 Director Executive MBA, Hochschule Furtwangen
- 2004 Doctor of Management, University of Phoenix
- 2004... Professor for „Business Applications“
- 2021 Book: Wissenschaftliches Arbeiten
Book: Data Science and Statistic with R
- 2023 Book: Artificial Intelligence and Machine Learning with R
- 2024 Book: Effective Strategy Execution:
Business Intelligence using Microsoft Power BI
- 2025 Book: Künstliche Intelligenz im Business
- 2024 Effective Strategy Execution
Artificial Intelligence and Machine Learning with R



Name of organisation:
Ansbach University of Applied Sciences

City/Country:
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Research Areas:
**Artificial Intelligence & Natural
Language Processing**

Contact

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Chair: **Business Applications & AI**

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Expertise

My potential contributions by offering my skills and support projects with AI and NLP expertise:

Technical and analytical skills:

- **Mathematics & Statistics:** Proficiency in probability and statistics as the foundation for understanding machine learning algorithms.
- **Programming:** Strong coding skills in Python, especially using machine learning libraries like scikit-learn and PyTorch.
- **Data Handling:** Ability to preprocess, clean, and transform data efficiently.
- **Machine Learning Algorithms:** Understanding of supervised, unsupervised, and reinforcement learning techniques.
- **Use of Machine Learning:** Perform classification (predict categories) or regression (predict continuous values), discover hidden patterns or structures (clustering, anomaly detection).
- **Natural Language Processing:** Text Classification, Sentiment Analysis, Text Summarization, Information Extraction and AI agents/Chatbots.
- **Model Evaluation:** Skills in selecting metrics and error analysis to assess model performance.
- **Software Engineering:** Writing modular, reproducible code.

Business skills:

- **Problem-Solving:** Applying ML to real-world problems, selecting the right approach, and iterating based on results.
- **Communication and Coaching:** Explaining technical concepts clearly to both technical and non-technical stakeholders.

Types of Machine Learning



Supervised learning

Target variable known (e.g. correlation of two variables such as price and purchasing behavior)



Unsupervised learning

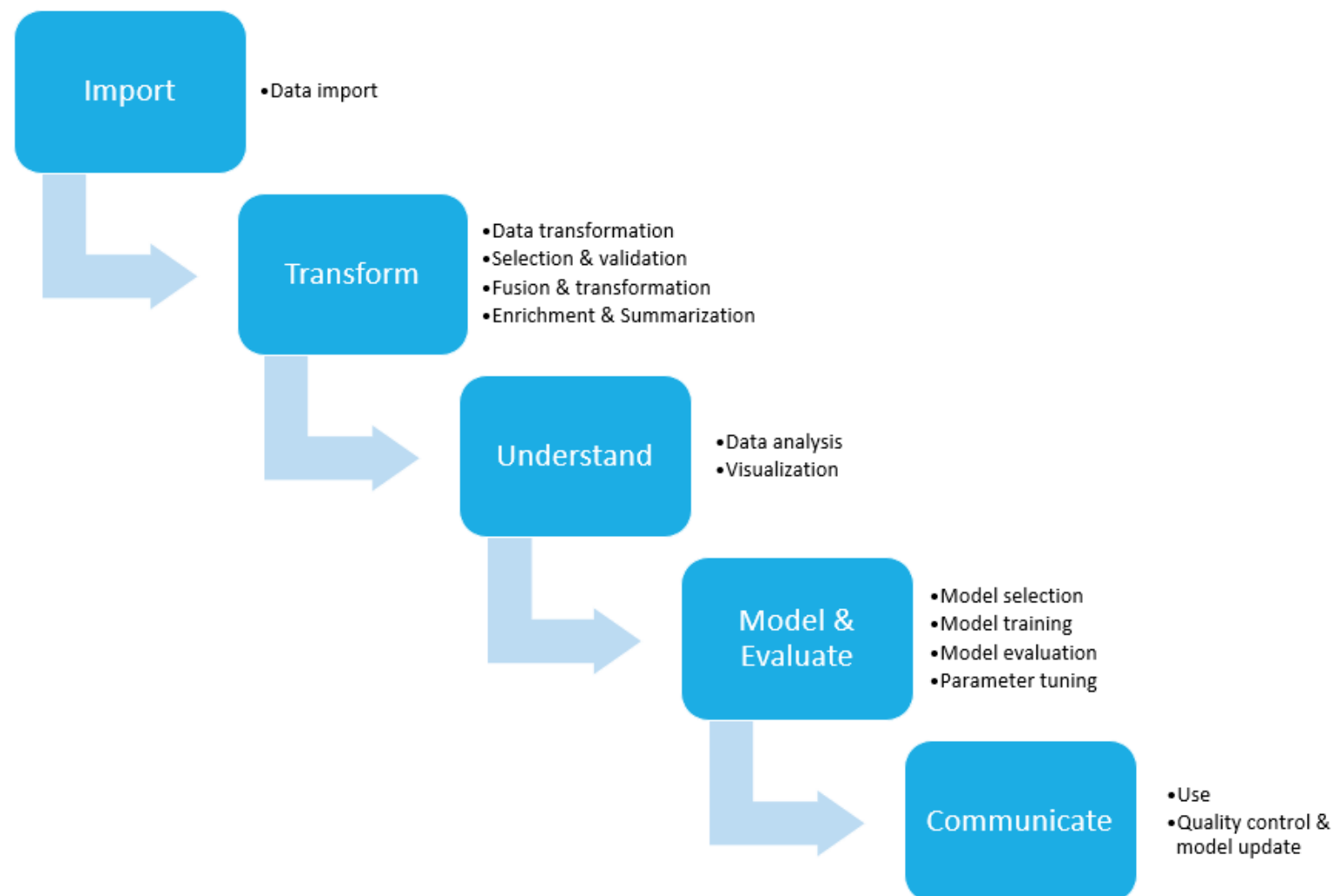
Target variable not specified (e.g. clustering data mining, who buys one and the other together -> purchase recommendation)



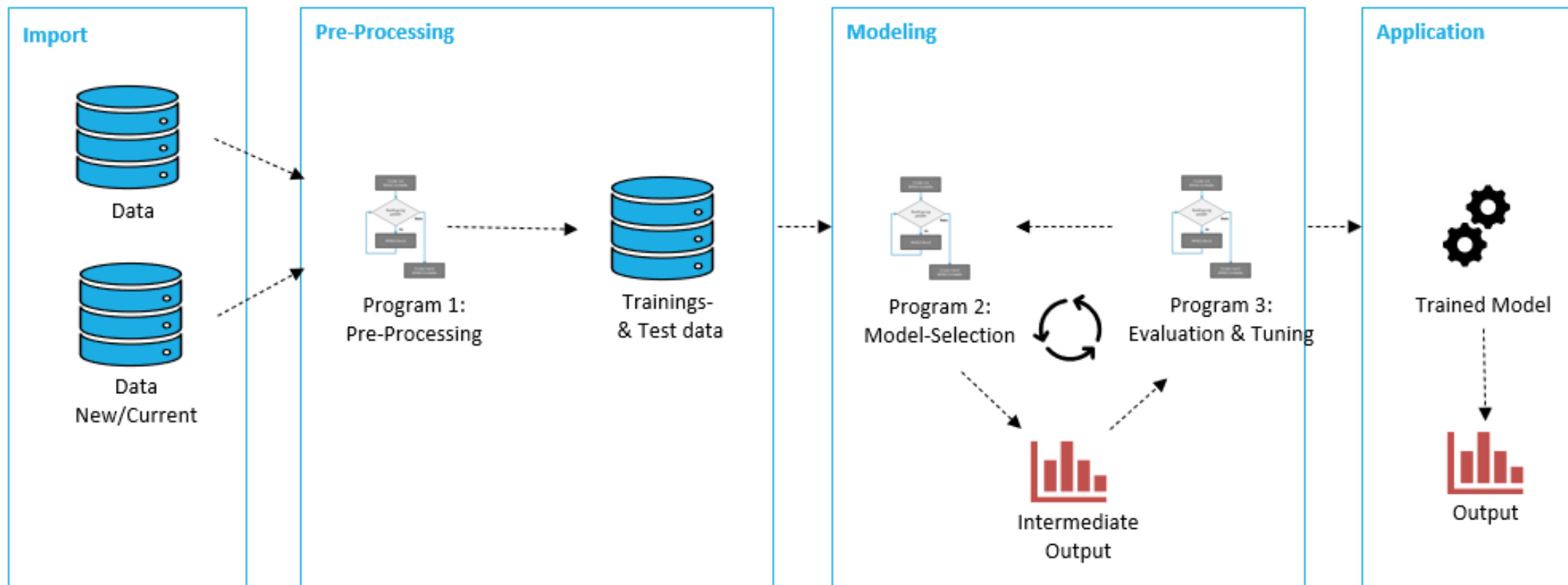
Reinforcement learning

On the basis of **trial-and-error procedures** (trial-and-error method) and **reward system** (e.g. price change -> what leads to more sales and profit)

Machine Learning Process



Machine Learning



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Mari Sekino (QERA)

QERA | AI Adoption, Physical AI & Ecosystem Governance

Focus

AI Adoption & Industrial Deployment

Turning AI capability into workable operating models and real-world adoption

Multi-Agent & Physical AI

AI agents, humans and physical systems operating across organisational boundaries

Ecosystem Governance

Responsibility, interfaces, decision rights and coordination across multiple actors

Application Areas

Smart Factory | Smart City | Mobility | Robotics | Healthcare

What I Bring

Industry perspective /Embedded effectiveness — experience in large-scale transformation and complex operational environments

Cross-boundary systems Framework — connecting AI, organisations, users and physical systems

Research-to-practice perspective /Evaluation Framework — translating governance and system-level questions into deployment and pilot design

Keywords

AI Adoption
| Multi-Agent
| Physical AI
| Robotics
| Human-AI
Collaboration
| Industrial AI
| Ecosystem
Governance



Making AI Deployable Across Organisational and Physical Boundaries

“Can the overall ecosystem operate safely, effectively and at scale?”

I Can Contribute To

1. Use Cases & Deployment

Industrial and real-world use-case design
Translation of business and operational needs into deployment requirements

2. Multi-Actor System Design

Actors, interfaces, dependencies and decision rights
Human–AI–organisation interaction across system boundaries

3. Governance & Responsibility

Responsibility allocation
Decision boundaries and escalation
Governance for distributed AI environments

4. Evaluation & Assurance

What should be evaluated when control is distributed?
Cross-system safety, quality and operational assurance

5. Pilots & Adoption

Pilot and demonstration design
Cross-pilot learning
Industry uptake and scale-up pathways



Contact details

Looking for

Horizon Europe Cluster 4 consortia working on:

AI | Robotics | Physical AI | Multi-Agent Systems | Smart Factory | Smart City | Human–AI Collaboration | Industrial AI

Potential contribution:

WP / Task leadership in adoption, ecosystem integration, governance, pilot design and industry uptake

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Johann Erath (German Plastics Center)

SKZ - German Plastics Center

Shaping the Future of Plastics: materials, processing, testing, circular economy & digitalization



non-profit



130+
developer



50+
trainer



430
industry partners



25.000 m²
laboratories and
technical facilities



600+
industrial
projects pa.



100+
public funded
projects pa.



600+
events pa.



13.000+
event
participants pa.

Material development

e.g. additives and functional fillers, biopolymers, composites, and networked materials

Processing

e.g. compounding, extruding, blow molding, thermoforming, injection molding, additive manufacturing, dispersing, adhesive bonding, welding, and surface technology

Measuring and testing technology

e.g. particle measurement technology, component properties, non-destructive testing, spectroscopy, and surface technology

Circular economy

e.g. recycling, design for recycling, sustainability and life cycle assessment

Digitalisation, e.g. digital infrastructure, data collection, data analysis, AI, simulation



- **3** successfully completed EU Projects
- Partner in **2** ongoing EU-Projects:
 - Batmachine (Boost Europe's sustainable industrial battery cell manufacturing value chain)
 - AUTOLOOP (automated sorting, tracing and closed-loop recycling technologies for textiles)
- **9** contributions to topics in **autumn 2025** in Cluster 4 & 6; **8** contributions to topics in **spring 2026** in Cluster 4
- **Experience** with CORNET, EUROSTARS, EUREKA, IraSME,...

Project idea /expertise

Interested Topics

- HORIZON-CL4-2027-02-DIGITAL-EMERGING-52-two-stage: New approaches for Human/AI collaboration for the workforce of the future (RIA) (Made in Europe and AI, Data and Robotics partnerships)
- HORIZON-CL4-2027-04-DIGITAL-EMERGING-05: Apply AI: AI-Driven Robotics for Industry: Enabling System Integration and Adoption (IA) (Partnership in AI, Data and Robotics)
- HORIZON-CL4-2027-04-DATA-03: New approaches for decentralized, federated and sustainable AI data processing (RIA)

SKZ Expertise in AI, Robotics & Data

🕒	AI-driven manufacturing: AI, digital twins and adaptive automation for plastics, polymer and composite processing
👤	Human-centred industrial AI: Secure and explainable AI for integrated systems and safer workplaces
🔹	Smart factory skills: Training and upskilling for the effective adoption of AI and digital technologies
📋	FAIR materials data ecosystems: Interoperable data workflows connecting materials R&I and industrial value chains
🔗	Decentralized data processing: Secure and energy-efficient dataprocessing of distributed industrial application
🔄	Digital circularity: Digital tools supporting circular value chains
🏭	Industrial validation: Pilot Testing Facilities for demonstrating solutions in real manufacturing environments

Contact details

Johann Erath

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Kazuhiro Matsuda (M Bio Technology)

M Bio Technology Inc. (Tokyo, Japan)

Who we are

Physician-led deep-tech SME, founded 2005. Built on decades of research on Mycoplasma glycolipid antigens by founder & CEO Kazuhiro Matsuda, M.D., Ph.D. (previously NIH, Johns Hopkins University, National Cancer Center Research Institute, AIST), who also runs a specialist outpatient clinic for Mycoplasma infection.

Skills and expertise

- **Human-in-the-loop clinical AI:** agents only draft, a physician signs off; safety rules run outside the LLM; every step is logged
- **Privacy-by-design health data:** pseudonymisation at the hospital edge, zero-trust access per institution
- **Diagnostics:** MID Prism antibody assay with chemically synthesised glycolipid antigens (patents granted in US and EP)

Experience in EU-funded projects

None yet – this will be our first Horizon Europe proposal, which we intend to coordinate. PIC registered; national e-Rad registration completed. Japan is associated to Pillar II from the 2026 budget: eligible for EU funding. Alumnus of JETRO GSAP DeepTech 2024 / Berkeley SkyDeck Batch 19.

1 Measure

MID Prism

Antibody titres against synthetic glycolipid antigens, set up in an ISO 9001 laboratory



2 Orchestrate

M Bio-brain

AI agents draft notes, orders and trial records; rule-based checks; full audit log



3 Decide

Physician

Nothing is final until a physician reviews and e-signs the draft

Project idea / expertise

Coordinator seeking consortium partners – a clinical, human-in-the-loop AI use case

Safety-by-design agents (design)

- AI output is always a draft; a physician e-signature finalises it
- Dose, interaction and protocol checks are deterministic code, not LLM output
- Tamper-evident audit log of every agent action

Privacy-preserving data layer

- Patient identifiers pseudonymised at the hospital edge
- Zero-trust, per-institution access control
- Raw patient data never enters a general-purpose AI model

Real clinical testbed

- MID Prism assay set up at an ISO 9001 lab with partner clinics in Tokyo
- Rare-disease use case: paediatric ADEM / MS; patient registry in set-up
- Regulatory route in Japan planned as SaMD (PMDA)

Partners we are looking for

- Companies and labs in trustworthy / explainable AI and bias evaluation
- Federated, GDPR-compliant health-data platforms
- Brain-MRI quantification software; clinical centres with ADEM / MS cohorts
- Timeline: consortium by end of 2026; stage-1 deadline 13 April 2027

Our role and maturity

- Coordinator of a Cluster 1 proposal on AI-based biomarkers (HORIZON-HLTH-2027-02-TOOL-01) – inviting partners now
- Also a use-case / SME partner for Cluster 4 AI & data and Apply AI proposals
- Status: architecture and core tool definitions completed 2026; prototype in build; assay ready for clinical samples

Contact details

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**Raziye Demiralay
(Alanya Alaaddin Keykubat
University)**

Alanya Alaaddin Keykubat University (ALKU)

- State university in Turkey with strong expertise in computer technologies, vocational education, and digital transformation in learning environments.
 - Artificial Intelligence in Education (AIEd) & Predictive Modeling (Artificial Neural Networks, Machine Learning algorithms).
 - Learning analytics, digital readiness assessment, and educational data mining.
 - Design and evaluation of digital learning tools, information literacy, and blended/flipped learning frameworks.
- Experienced in international academic collaborations, youth mobility projects (Erasmus+), and digital learning research networks.

AI-Driven Early Warning & Decision Support Systems for Digital Learning Environments (EduAI-Predict)

Concept: Developing an ethical, AI-powered analytics framework that processes students' online learning behaviors and digital engagement patterns to predict academic success and mitigate digital risks.

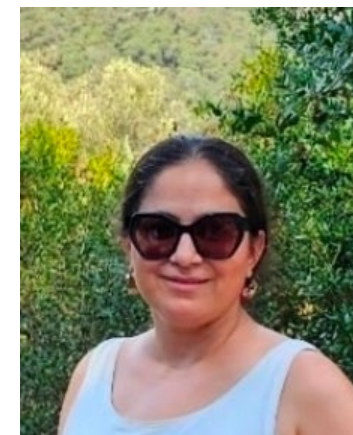
Why successful: Combines robust empirical background in neural network-based student performance estimation with user-centric educational design, ensuring high societal impact and seamless integration into modern Horizon Europe digital education priorities.

Offering: Scientific leadership in learning analytics, AI-based prediction modeling, methodology design, data-driven validation, and educational impact assessment.

Seeking: Consortium partners (universities, research centers, SMEs, and ed-tech developers) specializing in digital platform development, data privacy (GDPR), and large-scale piloting.

Contact details

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B2Match profile	
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Piotr Nowak

(Lukasiewicz Research Network)

Industry Contact Point Digital Transformation in Łukasiewicz – Poznań Institute of Technology, Poland

The aim of the Industry Contact Point in Łukasiewicz-PIT is to support scientists and entrepreneurs from the digital transformation industry in obtaining financing for innovative research and implementation of innovative technologies from the Horizon Europe program.

ICP Digital Transformation covers primarily issues related to the development of technologies, including the Internet of Things (IoT), Artificial Intelligence (AI) or automation contributing to the optimization and improvement of processes. In addition, it focuses on improving communication and information exchange, based on the use of large amounts of data allowing for predictions and better operational planning and relationship building. Carried out activities are aimed at all areas of life and sectors of the economy, and are aimed at the development of intelligent solutions.

Actions

- organization of trainings and workshops,
- organization and participation in matchmaking,
- networking and brokerage events, cooperation with research organizations, units financing research works, public administration units and enterprises,
- cooperation with international organizations

Areas

- intelligent services for citizens and businesses
- data science
- Artificial Intelligence
- digital networking, Internet of Things
- intelligent logistics
- smart cities
- digital farming
- digital education



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education
"Industry Contact Points for the Horizon Europe Research and Innovation
Framework Programme"



Contact details

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Tobias Kuhn (Knowledge Pixels)

knowledge pixels

Who we are

- **We are a Swiss SME**, leading a growing international community around nanopublications.
- **We run the open nanopublication infrastructure**, and build libraries and user interfaces for it.

Skills and expertise

- **Knowledge graphs**: RDF, OWL, SPARQL, SHACL, PROV.
- **FAIR data**: our CEO co-authored the FAIR principles.
- **Provenance**: signed and traceable, also for AI output.
- **AI and agentic workflows**: structured input for AI agents, and a record of what they produce.

Experience in EU and national projects

FAIR2Adapt, EU-PARC, FDO Connect, Mission KI, Science Live (as partner or subcontractor).

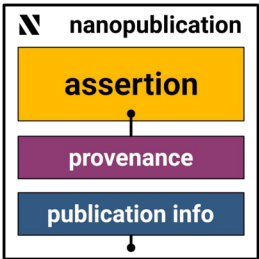


We can offer: a task or a work package as a junior partner, on FAIR data management, knowledge representation, or provenance for AI.

We are looking for: consortia in any cluster that need a partner for FAIR data, knowledge graphs and AI-driven workflows.

Nanopublications: fast and traceable knowledge sharing that powers AI

nanodash.



> 10 million nanopublications
> 700 approved users
decentralized network up and running

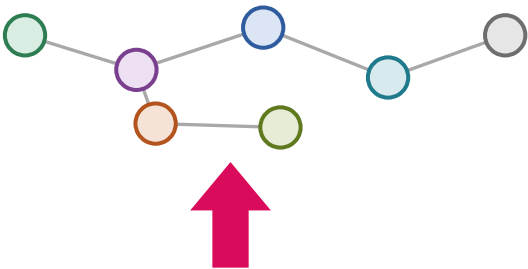
Open science across the project

We can take care of the FAIR and open science aspects that run through your whole project.

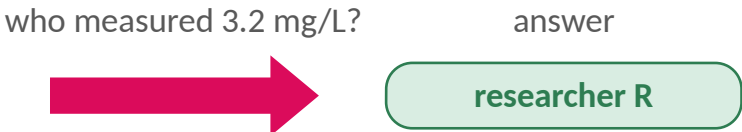
Transparent and trustworthy AI

AI systems get input they can rely on, and everything they produce can be traced back.

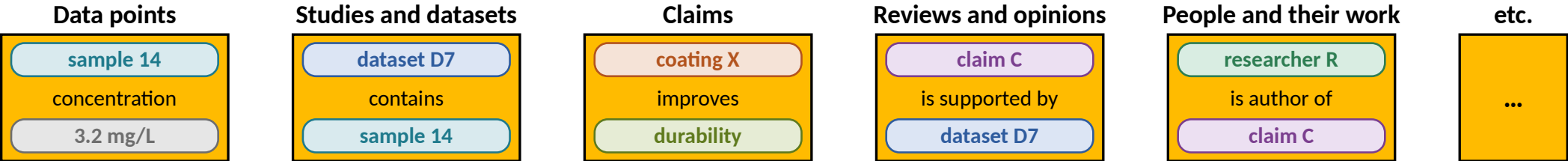
Connected as one graph, project-wide and globally



Cross-cutting precise queries



One format, many kinds of knowledge



Contact details

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knowledge
pixels

Alma Kolleck
(Technical University of Applied
Sciences Würzburg-Schweinfurt)

Technical University of Applied Sciences Würzburg Schweinfurt (THWS)

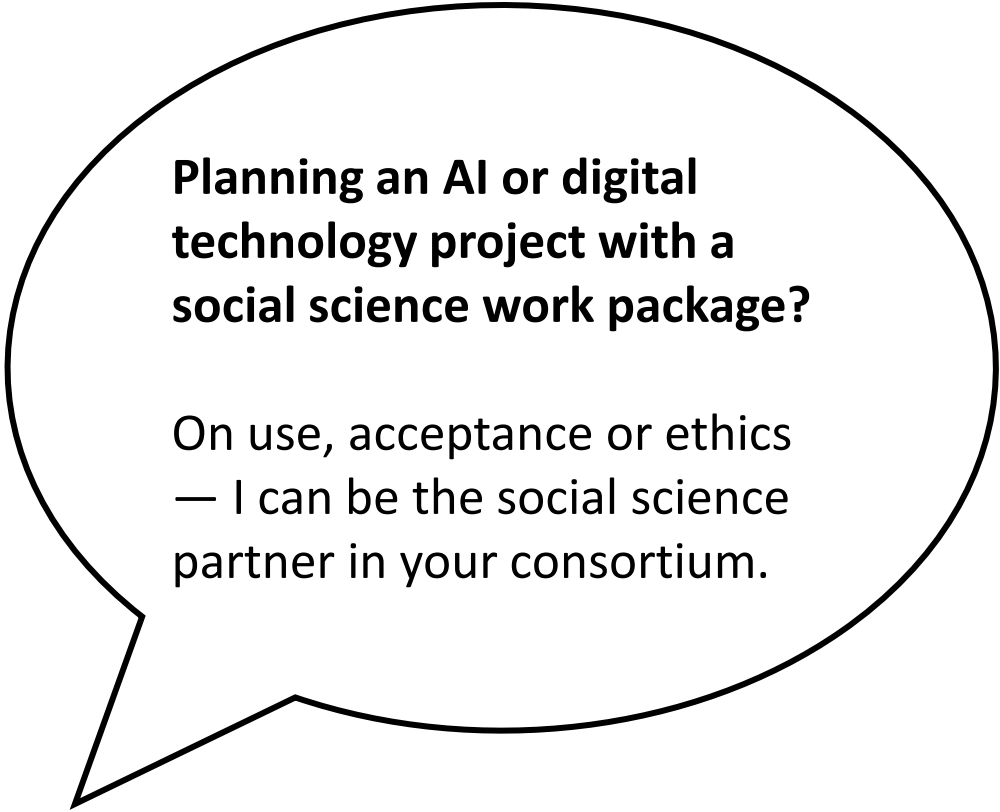
- One of the largest universities of applied sciences in Bavaria
- Strong international ties in Europe and beyond
- Focus on **practice-oriented research** developed in close cooperation with partners from academia, industry, and society
- **Three main areas of research:**
 1. Energy Technology and Energy Efficiency
 2. People and Mobility
 3. Digital and Intelligent Systems
- **My skills and expertise:**
 - Research Professor for Human Factors since 2024
 - long-standing experience in technology assessment for the German Parliament (Deutscher Bundestag)



© Sonja Ehrenfels, THWS

Project expertise: Digitalisation, AI and society

- **My expertise:**
- Long-standing expertise in social science research on technology and in technology assessment
- Focus on the interaction between society, digitalisation and AI — for example, patterns of technology use and the conditions for technology acceptance
- Comprehensive skills in empirical social research (quantitative and qualitative methods — statistics and interviews)



Planning an AI or digital technology project with a social science work package?

On use, acceptance or ethics
— I can be the social science partner in your consortium.

Contact details: Alma Kolleck

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Jean-Luc Crebouw (CandyVoice)



CandyVoice

Real-Time, Resource-Efficient Voice AI for Edge & Distributed Computing



- ▶ French Deep-Tech | Strasbourg, France
- ▶ CandyVoice develops advanced real-time Voice AI and DSP technologies designed to run from constrained embedded hardware to edge and distributed infrastructures.
- ▶ CORE EXPERTISE:
 - Edge AI Speech Enhancement → Real-time speech enhancement on constrained MCU/NPU hardware
 - Resilient Voice Processing → Packet-loss recovery for degraded and network-constrained environments
 - Privacy-Preserving Voice AI → Real-time voice anonymisation protecting biometric identity
 - Trustworthy Voice AI → Real-time voice deepfake detection
 - Embedded & Edge AI Optimisation → Low-latency, resource-efficient AI/DSP implementation on MCU, DSP, NPU and SoC
- ▶ PROVEN PERFORMANCE:
 - 16 ms - Low processing latency
 - 330K - Parameters for embedded speech enhancement
 - 70 ms - Real-time voice anonymisation latency
 - 360 MIPS Voice anonymisation on x86
 - up to 50% packet-loss resilience
 - TRL 6–8 depending on component/use case

Real-Time Voice AI Workloads For Edge & Distributed Computing

▶ TARGET TOPICS:

HORIZON-CL4-2027-04-DATA-03 & HORIZON-CL4-2027-04-DATA-08

- ▶ CandyVoice OFFERS mature, resource-efficient real-time Voice AI workloads for experimentation, integration and validation across heterogeneous edge and distributed computing infrastructures.

For DATA-03 - Decentralized, Federated & Sustainable AI Processing
Resource-efficient real-world AI workloads for evaluating decentralised and federated processing across heterogeneous computing resources, under constraints of compute, latency, energy, connectivity and data privacy.

For DATA-08 - 3C / Telco-Edge-Cloud Pilot Demonstrators

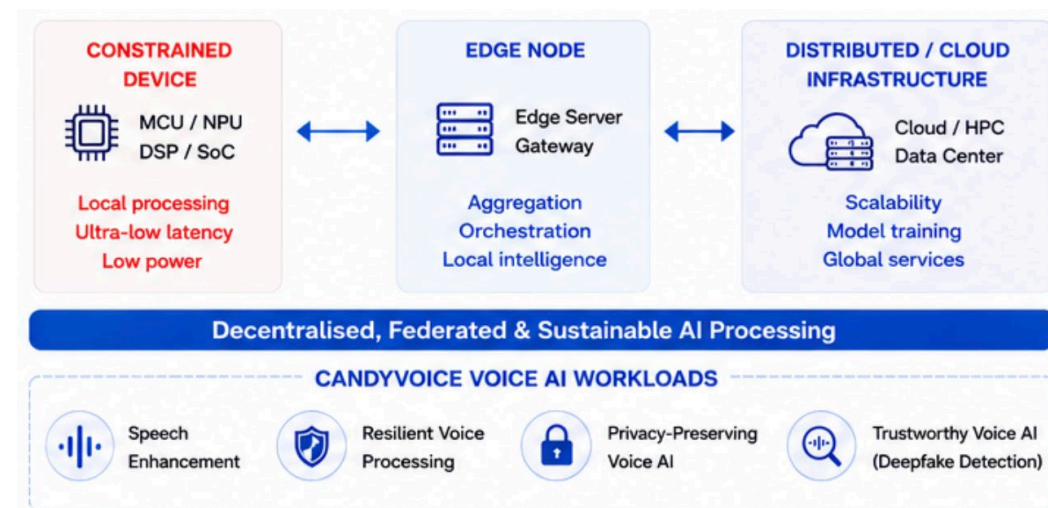
Real-time AI workloads and mature Edge AI components for deployment, orchestration and validation across device–edge–cloud infrastructures under real-world operating constraints.

▶ WE ARE LOOKING FOR:

Coordinators and consortia preparing DATA-03 or DATA-08 proposals; research organisations; edge/cloud and distributed computing platform providers; telco and infrastructure providers; hardware/semiconductor partners; system integrators and industrial end users.

▶ ROLE:

Technology & use-case partner providing mature Voice AI components, embedded/edge integration expertise and demanding real-world workloads for experimentation, benchmarking and validation.





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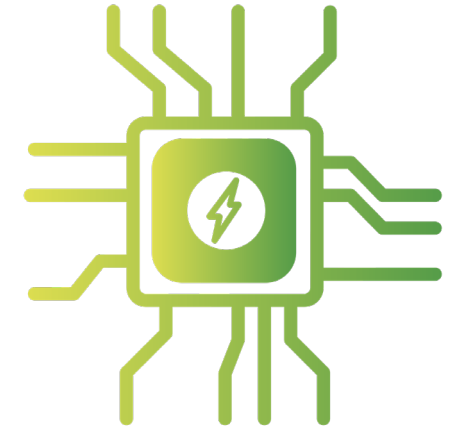
► Demos & Detailed Technical Data Sheets: www.candyvoice.com

Mehmet Ali Şenel

(EGN POWER)

EGN POWER

- Located in İTÜ ARI TEKNOKENT
- Specialized in AI Native Solutions for Energy Sector
- First Product is in Use with Customers
- Dedicated to Provide First of Its Kind Applications in the Domain
- Strong Team with more than 15 years of experience in their domains:
 - Mehmet Ali SENEL – Energy Sector Expert
 - Murat OCAK – Software Application Expert
 - Yasin ULUKIS – AI Expert



EGN POWER

EGN PMS PRO

- EGN PMS PRO is an AI Native Energy Portfolio Management System
- AI-native platform that unifies trading, production planning, asset health and equipment management for power plants and BESS into one system.
- Unlike black-box tools, it optimizes for total value, not just short term profit, by weighing equipment life, O&M costs and replacement expenses while backing every decision, warning and alert with clear reasoning through its XAI Stack.
- Depending on machine learning supported AI Agents, the platform allows users to monitor, plan, act and report the whole value chain.
- All process can be automatized by predefined rule sets allowing agents to decide, or the operator can have strict control and only get recommendations; not for only single items, for the whole energy investment portfolio.

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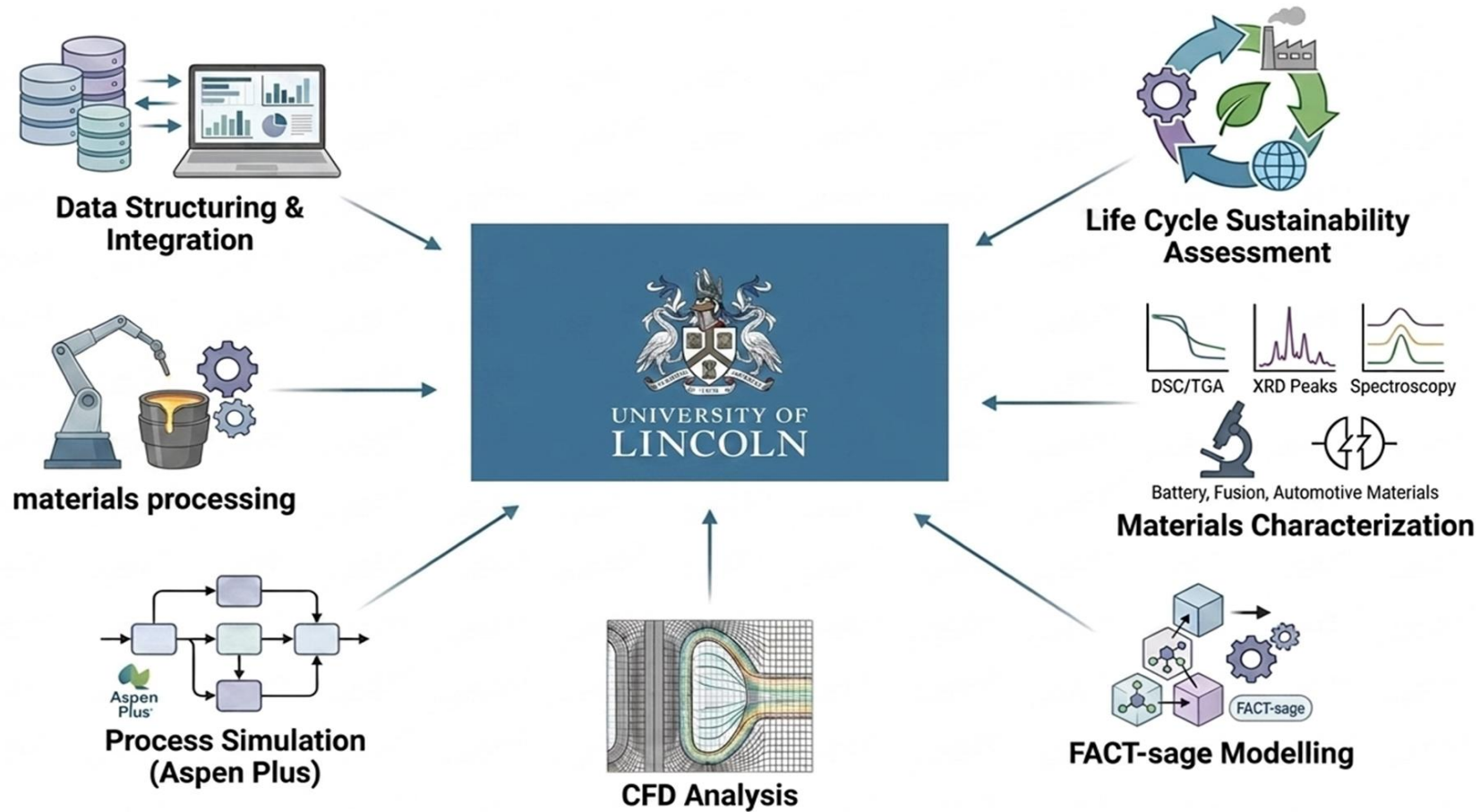
LinkedIn [Linkedin.com/in/mehmetalisenel](https://www.linkedin.com/in/mehmetalisenel)

Suneela Sardar (University of Lincoln)

Organisation name

- School of Engineering and Physical Sciences,

<https://www.lincoln.ac.uk/engphys/> <https://www.lincoln.ac.uk/course/chesusms/>



Project idea /expertise

Proposed approach to call topic:

Approach:

The approach will use straightforward AI models in a simple feedback loop: first, to train models on existing data (from literature values, small-scale simulations or industrial measurements) to predict several properties at once; then to let these models suggest promising new chemical/materials; next, detailed simulations on those candidates to check their behaviour under different process conditions; finally, feed the new simulation results back into the models to improve their accuracy.

Contribution

- Predictive modelling of materials properties through AI/ML
- Process simulation, optimisation and sustainability analysis

What we do:

- AI based prediction of thermophysical properties of materials for different applications
- Process simulation using Aspen plus
- CFD analysis
- FACT-sage modelling of materials properties and behaviour
- Complete characterisation (thermal, structural, spectroscopic, microscopic and conductivity analysis) of materials for battery, fusion energy, automotives etc.
- Life cycle assessment of processes

Previous Experience with HE?

Experienced in submitting the EU and MSCA grants/bids

What we can offer to a consortium:

Expertise:

- Integration of experimental data with modelling
- Process optimisation and sustainability analysis
- Functional materials design for environmental and industrial applications
- Predictive modelling of material properties

Research facilities:

- Modern materials characterisation laboratories, process simulation software, high-performance computing (HPC) resources
- Ability to integrate AI and digital tools with experimental materials research
- Track record of interdisciplinary collaborative research

What we would like to receive from other consortium members:

- Access to high-quality datasets
- Pilot-scale facilities
- Full value-chain integration
- Integration across work packages
- Knowledge exchange to complete the work package

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Venkata Suresh Vajrala

(QPlox Eng)



Engineering System Integration & HT Experimental Intelligence

Please reach us at: suresh.venkata@qplox.com
david.tio.castro@qplox.com

Core Capabilities

QploX Engineering design, integrate, and install customized high-throughput electronic test infrastructure for real-world engineering systems. We support semiconductor, photonics, biotech, and other advanced instrumentation applications, with the capability to ingest and analyse high-throughput experimental and sensor data from 10 MB/s to >1 TB/s. This infrastructure enables AI to learn from, validate, and optimise physical engineering systems.

Four Pillars of Excellence

High-Speed Data Acquisition

LabVIEW, DAQ, Sensors, Instrumentation, Synchronization — capturing real world signals at full fidelity

Automated Test Infrastructure

Test System Design, Integration, Validation, Electronic Test Benches, System Validation,

Engineering Data Intelligence

Python, Large Scale Data Processing, Anomaly Detection, Visualization — extracting insight at scale

Industrial Deployment

Factory Integration, Real Time Analytics, Installation & Commissioning — delivering results in-situ

Application Pull

FROM RAW INSTRUMENTATION and DATA → SYSTEM ACCELERATION → REAL-TIME INSIGHT



Industrial / IoT

System Integration, validation, deployment, real-time anomaly detection, predictive maintenance



Semiconductor

Wafer-level test, parametric measurement, yield analytics, process control



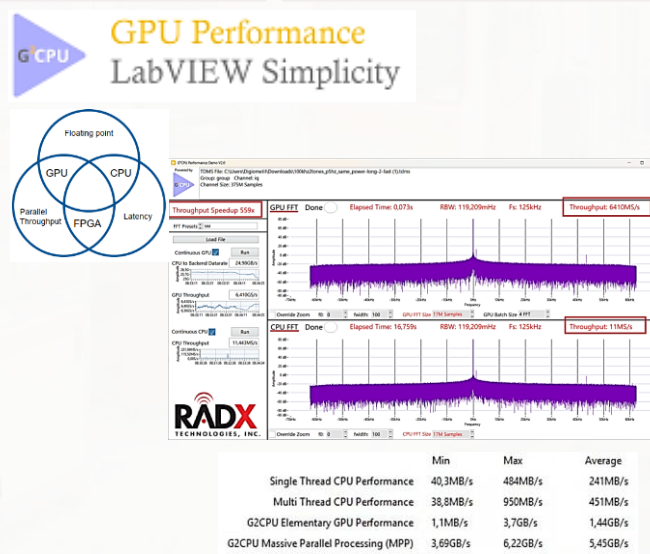
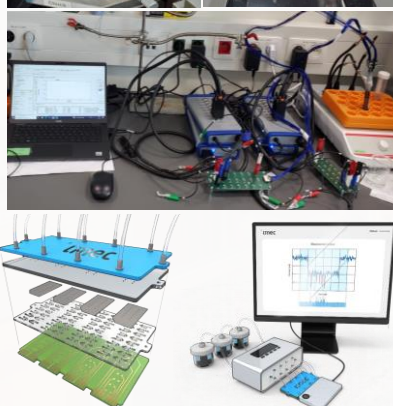
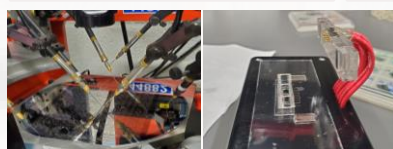
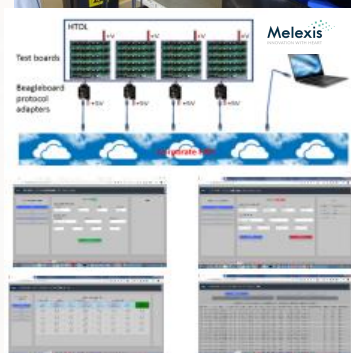
Life Science

High-content imaging, genomics instrumentation, bioassay automation



Automotive/ Telcom/ Aerospace

Structural health monitoring, telemetry ingestion, radiation-tolerant data paths



Industrial Collaborations



Recent EU Project Experience

CHARM Challenging environments tolerant Smart systems for IoT and AI, developing Electronics Components and Systems technologies that tolerate harsh industrial environments across six industry sectors including mining, paper mills, machining, solar panel manufacturing, nuclear power, and digital printing.

This project has received funding from the ECSEL Joint Undertaking (JU) under grant agreement No 876362. The JU receives support from the European Union's Horizon 2020 Research and Innovation program and Finland, Austria, Belgium, Czechia, Germany, Italy, Latvia, Netherlands, Poland, Switzerland



Connect & Collaborate

Mariko Kageyama (Tohoku University)

TOHOKU UNIVERSITY

Your Strategic Partner in Japan for Horizon Europe

Tohoku University combines world-class research strengths with a strong commitment to international collaboration.

With excellence spanning science, engineering, medicine, and interdisciplinary research, the university provides an ideal platform for innovative global partnerships.

As the first university in Japan selected for the **Universities for International Research Excellence** initiative, Tohoku University is uniquely positioned to serve as a strong and reliable partner for **Horizon Europe** collaboration.

Website
tohoku.ac.jp/en/



NanoTerasu:
**3 GeV synchrotron
radiation facility**



Tohoku University is ready for Horizon Europe Pillar II Clusters 4-6

Materials Science



Leading the way in materials science through outstanding research at various research institutes of Tohoku University

- Largest group with 400 researchers



Spintronics



Pioneering spintronics research, advancing global industry collaboration in integrated electronic systems

- Next-generation low-power semiconductor integrated circuits

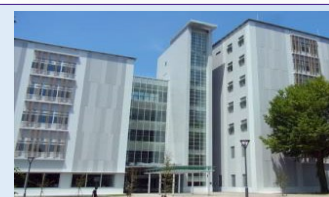


Data-Driven Medicine



Contributing to next-generation medicine by conducting the national flagship cohort & biobank study with 157K participants

- Personalized medicine and healthcare



Disaster Science



Pioneering disaster science as a new interdisciplinary research field

- Global Center for Disaster Statistics with UNDP
- Establishment of one of the world's largest disaster-related databases

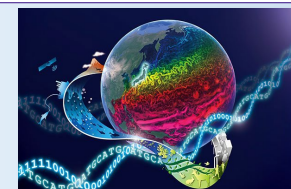


Environmental and Earth Sciences



Elucidating the origin and future of global environmental change through the development of the world's most accurate observation technology, etc.

- Contribution to "planetary stewardship"



Other prominent research clusters

Physics for Universe

Mechanical Engineering

Data Science

Integrated Chemistry

Agriculture and Food Science

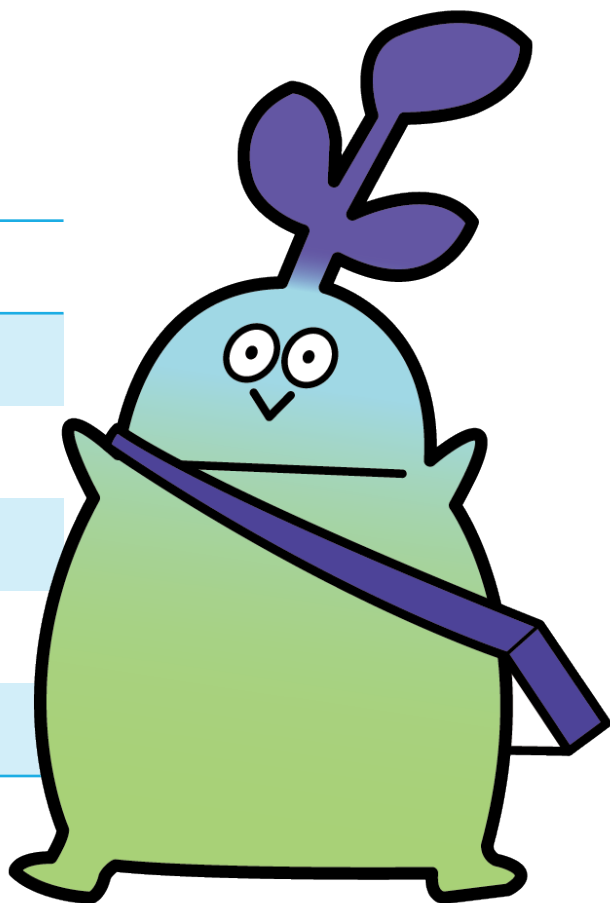
Japanese Studies



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KEN-ICHI 研一 (Research First)