

# SUCCESS STORIES

06.02.2024

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## SISSEC

### SECURE INDUSTRIAL SEMANTIC SENSOR CLOUD

The R&D project [SISSEC](#) Secure Industrial Semantic Sensor started in 2018 Cloud and will run until September 2022. The project started when six partners from the then ZIM network (Central Innovation Program for SMEs) [SISEN](#) Secure Industrial Systems Enabling Network joined forces to develop a central cloud environment for manufacturing SMEs. This should enable data from industrial sensors to be securely recorded, processed and profitably exploited.



The Cluster Mobility & Logistics (former IT-Logistikcluster) supervised the entire process from idea generation, preparation of the project outline, submission of the complete application, processing of the additional requirements to the grant and the following research and development work. For example, a meeting with a representative of the VDI/VDE-IT Munich was organized at the beginning for a pre-review of the project outline, which was immediately followed by positive feedback. In addition, the cluster was able to support the procurement of new project partners due to its huge network and thus helped to organize a change of project partners shortly before the submission of the full proposal.



The project was finally initiated from the ZIM network [SeDiPeT](#) Secure Digital Performance Twin (follow-up network of SISEN) and has been funded by the BMWi (Federal Ministry for Economic Affairs and Energy) since its approval in November 2019. The consortium consists of **four companies**, Hofmann Leiterplatten GmbH, Schindler & Schill GmbH, Segusoft GmbH and TG alpha GmbH, and **two research institutions**, TH Deggendorf and University of Regensburg. In regular consortium meetings the current project status has been discussed and the project progress has been monitored. At the end of the project in September 2022, SMEs should be supported by the solution developed in the project on their way to Industry 4.0 and thus remain competitive in the future.

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## SI-CM3S

### **SECURE INDUSTRIAL CONDITION MONITORING WITH HIGH FUNCTIONAL SECURITY**

In November 2019, the [SeDiPeT](#) **Secure Digital Performance Twin** network came up with the idea of developing a new type of system to reduce machine downtimes in production through condition monitoring.



In several meetings initiated by the Cluster Mobility & Logistics (former IT Logistics Cluster), the topic focus was further defined and a consortium was formed out of **two companies**, Schindler & Schill GmbH and SYSTEMA GmbH, as well as **two research institutions**, TH Deggendorf and TU Munich. In June 2020, the first project outline was submitted to the funding body of the ZIM program and received immediately positive feedback. Following this positive news, the consortium began to prepare the entire application with the help of the network manager. Despite summer vacations and the many tasks of the day-to-day business, the consortium managed through very good cooperation to complete the application in November 2020.

With the project [SI-CM3S](#) **Secure Industrial Condition Monitoring** with high functional security, the project partners built on the results of their previous project I2P-MobiCM in the area of network analysis and data recording. They complemented the results with aspects necessary for broad industrial use, such as data protection, data security, compliance with labor law and prevention of industrial espionage. The aim is to develop a secure and practical condition monitoring system architecture with a high level of functional and data security.

After fulfilling various additional requirements, the application was finally approved in September 2021. By initiating such projects, the Cluster Mobility & Logistics is able to sustainably shape the innovation field of logistics.



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## EMDENETZ

### ENERGY MANAGEMENT SYSTEM FOR REGULATING DECENTRALIZED ENERGY GRIDS

The [EmDeNetz](#) energy management system for the regulation of decentralized energy networks was funded as part of the ZIM network [IntelliZell](#). In the project plan, a system with decentralized operating regulation is developed for energy producers and consumers. This will facilitate cluster members to further extend their technical lead in the region.



By using neural networks to forecast heat and electricity consumption, schedules for decentralized power generation are built in advance and are continuously optimized. Supervised learning algorithms are used to transfer the findings to efficient on-site operations. Using peer-to-peer communication, the decentralized units are connected and they exchange important key data. According to the project partners Arno Friedrich (Optimus Meine Energie GmbH) and Achim Scheidl (SCH.E.I.D.L GmbH) there are to be different products for stable network operation in the future, which have shorter lead times to provide controlling power range. The cluster supports the cooperation with the participating companies and universities. The OTH Regensburg (Prof. Oliver Brückl) and the TH Deggendorf Campus Freyung (Prof. Wolfgang Dorner) intend to develop an energy management system that enables low-resource edge devices (energy managers in the field) to be equipped with AI and used as control elements in micro grids, which consist, e. g., of several consumers and producers in one building. Using a demonstrator, the function of the energy management system will be shown on the company premises of project partner EDV und Elektrotechnik Hardy Barth GmbH as use case in a micro grid and it will be presented to the players in the energy sector within the scope of the cluster.



## NIEMOB

### **GRID-SERVING INTEGRAL ELECTRIC MOBILITY - ENERGY MANAGEMENT SYSTEM FOR DECENTRAL ENERGY SUPPLY SYSTEMS**

The R&D project [NiEMob](#), Grid-Serving Integral Electromobility - energy management system for decentralized energy supply systems, is conducted as part of the ZIM network [IntelliZell](#).

The focus of the cluster management is the development of concepts for intelligent energy distribution that lead to a reduction in the load on the grid at cell level. The aim of the cluster is to use renewable energies, especially in electromobility, to achieve a significantly better energy and cost efficiency in the electrical distribution networks. Klaus Nagl, founder and Managing Director of project partner Consolinno Energy, adds "it is a future-proof tool for the provision of network and system services from the low-voltage level and thus an economical alternative to conventional network expansion or transformer construction."



**IntelliZell**

Netzwerk Intelligente Energieverteilung  
zur Netzentlastung auf Zellebene

With the support of the cluster, the project partner OTH Regensburg is paying particular attention to the development of a network energy manager. Based on comprehensive load flow simulations, the device will identify the degrees of freedom (voltage and power sensitivities) in the operation of the distribution network. "It will investigate which network and system services, such as the improvement of the voltage quality or the provision of reactive power from e-charging stations can be provided and what effects are to be expected from this on charging strategies," explains Prof. Oliver Brückl, who collaborates with his department in the ZIM project. For the BMWi, he is currently determining how much the need for reactive power in the entire German power grid will be in the future.



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Consulting. Solutions. Innovations

## goAIR

### ARTIFICIAL INTELLIGENCE REGENSBURG

Artificial intelligence is one of the most important future technologies and an essential building block for ensuring the competitiveness and innovative strength of German companies in the future. To enable small and medium-sized enterprises to better benefit from the advantages of AI-based solutions, the **cross-cluster project [goAir Artificial Intelligence Regensburg](#)** is creating a cross-cluster and cross-domain service portfolio for artificial intelligence.

By bundling expertise from the areas of mobility, sensor technology, biotechnology and IT security, a broad range of services is provided for the members of the cluster. This tailor-made proposition enables them to recognise and use the value creation potential of AI.

The Mobility & Logistics cluster has a clear innovation-oriented focus and aims at interdisciplinary interfaces between different partners and members. It is precisely this innovative approach that is consistently developed and implemented by the goAir project. Through the targeted support of the members on the topic of AI, existing obstacles to innovation are reduced and the implementation of AI-based projects become possible. This strengthening of the competitiveness of the cluster members builds the foundation for future, sustainable and successful cluster cooperation.



### ARTIFICIAL INTELLIGENCE REGENSBURG

## The Connect-Transport Scanner

### **LOGICS SOFTWARE IN COOPERATION WITH H.G.L.® GMBH**

The [Connect-Transport-Scanner](#) is a products based on a successful collaboration between cluster members [H.G.L.® GmbH](#) and [Logics Software](#).

"First on the Last Mile" was the claim. Customers rely on Connect-Transport to efficiently digitize their individual workflows.

The native app developed by Logics Software for Android and iOS devices is used by drivers as well as by warehouse employees on their mobile devices. If the smartphone or tablet has a camera, the barcodes of packages can be scanned, for example, to check the completeness of a tour or shipment. However, commercially available smartphones and tablets can often not cope with the challenges of continuous professional use. A long battery life with replaceable battery packs, splash water protection, robustness against drop damage and fast scanning of many barcodes are requirements that are not fulfilled by the usual consumer devices. The goal was to be able to offer to customers exactly the Connect Transport hardware that would meet these challenges and thus provide an optimal user experience while working.

Due to the membership in the Cluster Mobility & Logistics (former IT-Logistics Cluster) Logics Software was able to find a suitable partner in H.G.L.® GmbH, which was able to provide competent advice due to its many years of expertise in the field of identification solutions and hardware.

Together with H.G.L.® GmbH, a specialized Android smartphone with an integrated bar code scanner was extensively tested as a reference device for Connect Transport and also field-tested. The device is already very well suited as an all-rounder for most workflows with Connect Transport, but can be further specialized, especially in conjunction with the extensive range of accessories available.

Ideally, every digitized workflow also includes the right hardware. That's why the two companies are convinced that customers will continue to benefit from the cooperation between H.G.L. and Logics Software in the future.



## Multirange

### **ULTRA-FAST CHARGING SYSTEM FOR ELECTRIC VEHICLES**

Due to the increasing number of electric cars, new developments are also required on the infrastructure side in order to be able to recharge as much range as possible in as little time as possible. One achievable goal is a charging stop at which 500 km can be charged in 14 minutes. To achieve this, it is necessary to develop technologies for ultra-fast charging of electric vehicles.

The companies [AVL Software and Functions GmbH](#) and [Prettl Elektrik Automotive GmbH](#) developed together this ultra-fast charging system for electric vehicles at the Regensburg site. It is modular in design, incorporates established standards and charging powers and can charge up to 500kW. By comparison, Tesla Superchargers have so far reached 90kW, while the latest ones "only" reach 145kW charging power. In addition, this project includes a bidirectional connection to the smart grid. This will develop a multifunctional, comprehensive and thus future-proof charging concept.

The project was planned together with the Cluster Mobility & Logistics and was implemented until the end of 2020. It was funded by the Bavarian State Ministry of Economic Affairs, Regional Development and Energy as part of the "Electromobility and Innovative Drive Technologies for Mobile Applications (BayEMA)" program.



## RECIPROCITY

### REPLICATION OF INNOVATIVE CONCEPTS FOR PERI-URBAN, RURAL OR INNER-CITY MOBILITY

It was the first time that a Horizon 2020 project was initialized and set up with the cluster as a leadpartner: Project [RECIPROCITY](#).



The aim of the project is to identify innovative mobility concepts for rural, peri-urban and inner-city areas and to replicate them elsewhere. The cluster steers the activities of the consortium of ten partners from all over Europe. The project is funded in H2020" program with approximately 1.5 million euros. The official start of the project is 1<sup>st</sup> December 2021. The consortium consists of 10 partners – clusters and research institutions from all over Europe.

With this project, the cluster has developed the capacity to initiate and lead projects at European level. The capacity and experience gained from this project, as well as the new additional international networking opportunities, are now available to all cluster members and can also be used by other cluster members.



## HY2.ZERO

### *R&D network – Mobility needs hydrogen*

An R&D-ZIM innovation network has been established by the Mobility & Logistics Cluster: [HY2.ZERO – Mobility needs hydrogen](#). SMEs work together with research institutions, large companies and users in the network. The network consists of about 30 members.



HY2.ZERO aims to support the industrialization of hydrogen and fuel cell technologies through new and improved solutions and is thus part of the market ramp-up. The network brings together specialists from different fields in joint R&D projects to develop innovative solutions. The particular challenge in setting up and establishing the network was that no physical meetings could take place due to corona. A personal meeting as an element of confidence building could not take place until now. However, the cluster has developed methods and procedures as well as experience that can also be used for virtual meetings with cluster members. From a technical point of view, the network makes a significant contribution to the innovation orientation of the cluster.

## IAA Mobility 2021

### Joint cluster stand

The Mobility & Logistics Cluster had a joint [cluster stand for the first time at the world's largest automotive trade fair in 2021](#). This was from 6 to 12 Sept. 21 at the IAA Mobility in Munich with a 125 m2 stand and 10 co-exhibitors. Visitors were able to see the Emil electric innovation bus from Regensburg, as well as find out about the R&D projects and products in the field of sustainable and connected mobility from the co-exhibitors.



The costs of the stand amounted to approx. 100.000 Euro and were borne by the city of Regensburg and the co-exhibitors. There was a considerable risk in advance whether the fair would take place or not. It was therefore difficult to win co-exhibitors, and many of the necessary organizational measures were required at very short notice.

By participating in the fair, the cluster was able to present itself to a large audience. The city of Regensburg was also able to present itself as an active and innovative region through the innovation bus EMIL (real laboratory). A CXC cluster exchange with Dutch companies took place within the framework of the EU project Recipe4Mobility.



## Accelerator program DGO BaseCamp

### *PickWerk GmbH*

As part of the close cooperation between the Digital Startup Initiative Oberpfalz and the Cluster Mobility & Logistics, the cluster member PickWerk GmbH participated in the [DGO's BaseCamp](#) in 2021.

In this intensive program, the PickWerk team benefited not only from a variety of workshops and individual training sessions, but also from the exchange with an experienced mentor. Throughout the entire period, the team was accompanied by the BaseCamp crew (consisting of representatives from the DGO, the O/HUB and BayStartUP coaches), who constantly provided feedback and established valuable contacts during milestone presentations and discussions. Regular individual coaching sessions rounded out the support program.



#### *About BaseCamp (Rafael Psiuk):*

*"BaseCamp is a great format where we were able to continuously exchange ideas with various precisely fitting experts on any business issues. Moreover, BaseCamp has opened quite a few hard-to-reach doors for us through its broad network."*

DGO BaseCamp is for those who want more. For teams that want to reach first customers and approach potential investors. For teams that know what they want and are willing to work hard for it. In short: the highflyers of tomorrow!

For seven months, selected founding teams and startups from the field of digitization (including Artificial Intelligence, Big Data, Predictive Maintenance, Automotive & Internet of Things) receive targeted and collaborative support to take their startup to the next level.



## Successful introduction of an intralogistics solution in medical technology

### *SEP Logistik AG in cooperation with H.G.L. GmbH*

The company **SMS medipool** works as a distributor in the health care sector and supplies medical practices and hospitals throughout Germany. The market for medical technology and consumables is very much characterized by price pressure and competition. Reliable and cost-optimized intralogistics are absolute requirements and an important pillar in order to be able to offer services and products to hospitals in a competitive way. Special legal regulations and rules apply as well to hospital logistics, which must also be covered by a software solution.

[SEP Logistik AG](#) was commissioned to find a solution for the main location in Reichertshofen (north of Munich) that could also be exercised at other locations. In addition to the conceptual design of suitable process flows, the scope of the order also included the procurement and provision of suitable hardware as well as the implementation of the solution during ongoing operations.

Thanks to its membership in the cluster, the [H.G.L. GmbH](#) has been a hardware partner of SEP Logistik AG for many years.

Together with the customer, the requirements for the hardware in question were discussed and a first rough selection of potential hardware was determined. This was presented to the customer in a workshop, so that the employees could get an idea of the appearance and handling of the devices directly on site. After the workshop, the hardware and the software solution was delivered to the customer on time and at the best possible price-performance ratio.

The commissioning of the order-picking solution with the use of more than 30 devices was largely trouble-free thanks to the on-site support provided by employees of H.G.L. GmbH and SEP Logistik AG. Even change requests to the software that presented themselves - whether through setting options or additional programming - were implemented immediately. "It is of utmost importance for us to work with partners and suppliers we can rely on 100%", stated Christian Grams, CEO of SMS medipool AG, in a later survey.

Since the introduction of the solution at the company SMS medipool, 3 years have already passed. Thanks to our order picking solution consisting of software and hardware, the processes in warehouse logistics have been sustainably improved. SMS medipool is currently expanding throughout Germany. One location near Leipzig has already successfully gone live with the equipment of SEP Logistik AG and H.G.L. GmbH. Further locations in the Frankfurt area and in Dortmund are planned for this year.



## OptWare participation in the AdaProQ project

### *Adaptive process chains to increase production quality and efficiency*

Since 1 October 2021, OptWare GmbH from Regensburg has been working on the joint project AdaProQ together with twelve partners in a consortium led by Grammer AG. The aim of the project is to develop and evaluate generic methods for increasing manufacturing quality within complex process chains. For this purpose, a hybrid self-learning approach consisting of artificial intelligence and mathematical optimization is being developed in addition to investigations into ideal sensor- and actuator technology.



Cluster Mobility&Logistics informed its members about the project in January 2021. After a brief exchange with the cluster, OptWare was able to establish contact with one of the initiators, the Fraunhofer Institute for Machine Tools and Forming Technology (IWU) in Dresden, and created key points right from the start. OptWare took over the management of the AI and optimization sub-project at the beginning of the project.

The project is one of the first to be funded by the federal ministry for economic affairs and energy under the funding framework "Future investments in vehicle manufacturers and the supplier industry" for the funding guideline "Digitalization of vehicle manufacturers and the supplier industry".

For more information: [OptWare.de](https://www.optware.de) and [AdaProQ.de](https://www.ada-pro-q.de)

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aufgrund eines Beschlusses  
des Deutschen Bundestages



## Autonomous People Mover Regensburg

### *Das Stadtwerk.Mobilität*

As part of a two-year pilot project, das Stadtwerk.Mobilität sent two autonomous vehicles on a route in the Regensburg industrial park to explore automated passenger transportation in practice. The two buses, called Emilia, will drive a 1.1 kilometer ring route with seven stops. On weekdays between 10 am and 2 pm, passengers can use the shuttle service for free at intervals of 5-10 minutes. At the beginning of 2021, the routes were measured with test drives in cooperation with the vehicle manufacturer Navya and TÜV Nord.



On this route, Emilia achieves a maximum speed of 18 km/h. Due to legal requirements, an employee must currently still be on board the buses. Despite autonomous driving, the employee has the possibility to intervene in emergencies with the help of a controller.

The **Cluster Mobility & Logistics** has co-initiated the Autonomous People Mover Regensburg project. The goal is to use the People Mover as a platform for automation, digitization and acceptance for autonomous passenger transport. In doing so, data and experiences are continuously collected and shared with other partners. In addition, the project set itself the goal of identifying and improving current problems in the development of automation technologies.

[Watch the image film](#) about the pilot project Autonomous People Mover Regensburg.



## EMIL electric bus

### *Research and development platform*

Since 2017, exclusively EMIL electric buses have served Regensburg’s old town. In addition to sustainable and quiet passenger transport, they offer local companies and universities a research and development platform.

As a project partner and member of the Cluster Mobility & Logistics, the technology specialist **Bertrandt** has taken the opportunity to use this platform for a broad build-up of expertise. On the old city route, raw sensor data is collected using LIDAR image processing and is further processed for central research fields such as object recognition. These will support autonomous driving in urban environments in the future.



The company **AVL Software & Functions**, in cooperation with the **Ostbayerische Technische Hochschule**, equipped one of the five Emil buses with an alternative drive concept and received financial support for this project from the **Stadt Regensburg**.

The Regensburg-based company **Dyphox** was also able to use the electric buses as a development platform for a new line of business. Surfaces in the buses that are touched by hands are coated with a disinfectant developed in-house to combat bacteria and viruses. Originally developed for use in clinics, doctors' offices and care facilities, Dyphox now wants to use the special coating of the same name in other public areas.



## Regensburg's first tangential bus line

### *Das Stadtwerk.Mobilität*

Regensburg's first tangential bus line went into operation on April 11, 2022. The new bus line 39 connects the north of the city via Burgweinting station with the east of the city as far as Neutraubling and is operated purely electrically with green energy.

The new tangential bus line 39 connects the densely populated north of the city directly - without a detour to the city center - with the Regensburg industrial park and the business parks located southeast in the city. In the future, the line will run from Wutzlhofen via Burgweinting station to Neutraubling, thus linking the numerous employers along this route. In addition, the new bus line will be locally CO2-free, as the electric buses used will run on 100 percent green electricity from REWAG.



This large-scale project was planned and implemented by **das Stadtwerk.Mobilität** together with the **Stadt Regensburg**, the Office of Economics and Science and several Regensburg companies.



## transform.r

### *Transformation of the automotive industry in Regensburg*

The ongoing transformation of the automotive and supplier industry particularly affects the automotive region of Regensburg: The phasing out of old combustion engine technologies poses major challenges, especially for small and medium-sized enterprises. To ensure that the transformation causes as few job losses as possible, Bundesministerium für Wirtschaft und Klima (BMWK) is promoting transformation networks throughout Germany.



In the Regensburg region, the two clusters „Mobility & Logistics“ und „Sensorik“ are responsible for setting up such a network and will receive funding of 2.3 million euros for this purpose. "Become fit for the future" is the motto of the joint project „[transform.r](#)“, in which a large number of new qualification, cooperation and networking opportunities should be created by the end of 2025 to secure the region's skilled workforce.

Companies and their employees are facing major challenges: New job profiles are emerging for a successful transition to electromobility. The capacities of small and medium-sized companies are often not sufficient to make themselves fit independently, especially to acquire the qualifications required in the future - insofar as they are already known at all - through internal trainings.



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des Deutschen Bundestages

## Cross-cluster project goAIR successfully completed

### *Important step in building a leading artificial intelligence ecosystem in the Regensburg area*

After exactly 12 months, the goAIR cross-cluster project was successfully completed.

The cross-cluster collaboration of the four Regensburg cluster Mobility & Logistics, BioPark Regensburg GmbH, IT-Sicherheitscluster e.V. and Strategische Partnerschaft Sensorik e.V., which was accelerated as part of the project, enabled another important step to be taken towards establishing a leading AI ecosystem. The project, which was funded as part of the "go-cluster" initiative of the Bundesministeriums für Wirtschaft und Klimaschutz, was able to compile and publish an interesting collection of regional best practice examples in addition to a detailed listing of AI experts from various thematic focus areas.



The main goal of the project was to set the course for even better and closer cooperation on the topic of artificial intelligence. In order to fulfill this goal, scenarios for a future business and collaboration model of the AIR (Artificial Intelligence Regensburg) initiative were developed within a series of workshops by the four organizations and in close exchange with the city of Regensburg. Building on these results, further steps can now be taken to strengthen and push forward the Regensburg region in the field of AI.

In addition, the Cluster Mobility & Logistics has prepared a feasibility study for the implementation of an Urban Mobility Data Hub in which the needs, risks and opportunities of a database for regional mobility data were evaluated.

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## European Cluster Conference Prague 2022

### ***Cluster Mobility & Logistics with REMOBILISE among the top 3 EUROPEAN CLUSTER PARTNERSHIPS 2022***

From 26 to 27 September 2022, representatives of the Cluster Mobility & Logistics and the Economic Development of the City of Regensburg participated in the European Cluster Conference 2022 in Prague (Czech Republic). This was organized by the Czech Ministry of Industry and Trade under the Czech Presidency of the Council of the EU and the European Commission. With the European Cluster Conference, now in its eighth edition, a unique opportunity was provided to bring together cluster policy makers, cluster managers, practitioners and other stakeholders with the support of the European Cluster Collaboration Platform (ECCP).



The event focused on cluster initiatives that enable the concrete implementation of green and digital transformation in European value chains and strengthen their resistance. It was also an opportunity to discuss how clusters can help to introduce transition pathways in different industrial ecosystems.

The conference also offered the Cluster Mobility & Logistics the opportunity to present the two EU projects [RECIPROCITY](#) and [REMOBILISE](#) at an exhibition. In addition, the REMOBILISE project was selected among the three best EUROPEAN CLUSTER PARTNERSHIPS 2022. Click here for the [application video](#).



## REMOBILISE

### *REgrouping MOBILity clusters to develop Skills and Exchange*

With the official kick-off meeting of the consortium in mid-February 2022, the REMOBILISE project has been launched. The 24-month project aims to strengthen cluster management expertise while establishing strategic links between clusters, ecosystems and cities across Europe in the field of mobility. The Mobility & Logistics cluster is part of the international consortium.

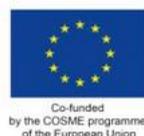


REMOBILISE activities focus on the topic of safe and sustainable mobility in cities. By developing new competences, innovative services, competitive networks and resource-efficient solutions, the clusters will support the expansion of European ecosystems and cities, in particular by increasing the competitiveness of European SMEs.

The REMOBILISE consortium is composed of five European clusters: [RAI Automotive Industry NL](#) (Netherlands), [Cluster Mobility & Logistics](#) (Germany), [Mobinov](#) (Portugal), [NextMove](#) (France) and [Zone Cluster](#) (Hungary).

The REMOBILISE project has the following 4 main objectives:

1. Promoting collaboration, networking and learning among the cluster organizations and their members.
2. Supporting cluster organizations and their members in acquiring necessary skills and in developing and implementing new solutions in terms of smart and sustainable mobility.
3. Implementation of the mobility program [ClusterXchange](#)
4. Outreach and awareness activities



## Establishment of the Working Group AI in Mobility & Energy

*Gaining new impulses through expert presentations and the presentation of use cases*

In this Working Group, the exchange of knowledge, technology, contacts and ideas in the field of AI in energy and mobility is to be supported and promoted. The objective is the exchange between researchers, companies and users in the field of AI in energy and mobility, networking and cooperation within the working group and the initiation of new projects.



AI (artificial intelligence) combines a number of subfields of computer science and mathematics with the aim of solving complex tasks. AI now offers a wide range of applications and is opening up cross-sector opportunities for companies in the energy and mobility industries. Nevertheless, the technology is far from having arrived. Energy and mobility with their widely ramified networks form an ideal application area for artificial intelligence. For example, the intelligent analysis of data can be used to manage the future integration of electromobility via AI-driven energy managers in microgrids.

The project was initiated in the network "IntelliZell Intelligent energy distribution for grid relief on cell level" of the Cluster Mobility & Logistics.



## transform.by

### *Bavaria wide network*

Digitization, de-carbonization, e-mobility - the transformation in the automotive industry is a central task for social and industrial policy. The Bavarian automotive industry is a key industry for employment, growth and innovation. It generates more than a quarter of the sales of the German automotive industry as a whole.



The aim of transform.by is to support the transformation process in the Bavarian automotive industry with analyses and qualification offers.

The [transform.r](#) project of the Cluster Mobility & Logistics provides information for the Bavaria wide network that is developing a pan-Bavarian strategic approach under the leadership of "[Bayern Innovativ](#)". The Ingolstadt region, the Nuremberg metropolitan region and the Mainfranken regiopolitan region are also involved.

Duration: 01.07.2022 - 30.06.2025

<https://www.transformation.bayern/>

bayern  innovativ

 TRANSFORM,R

 TRANSFORM,10

 TRANSFORM,RMF

 TRANSFORM,EMN

## Funding booklet

### *Current funding programs and funding guidelines*

Since 31.03.2023 the [transform.r](#) funding booklet is online!

In the funding booklet you will find all current funding programs and funding guidelines in the areas of mobility and logistics or those that are technology-focused or open-topic.

Transparency on suitable funding instruments helps to find suitable funding to advance innovation projects.

The funding booklet is regularly updated for you with the latest changes.



[Download PDF](#)

## Working Group Digital Logistics – DigitLog

### Merging of the Working Group AI in Logistics and Working Group Digitization to Digital Logistics (DigitLog)

Due to the high overlap in both topics and members, the decision was made to officially merge the two Working Groups "AI in Logistics" and "Digitalization". The new Working Group is now called Digital Logistics ("DigitLog"). The Working Group "DigitLog" will continue to deal with the topics AI in logistics and digitalization in production logistics.



[Digital Logistics \(DigitLog\)](#) refers to the application of digital technologies and data analysis tools to improve efficiency and transparency in the supply chain. The goal of digital logistics is to optimize logistics operations by capturing and analyzing data in real time. The focus of this Working Group will be on digital production logistics and AI in logistics.

The aim of this working group is to support and promote the exchange of knowledge, technology, contacts and ideas in the field of digital logistics. The objective is the exchange between researchers, companies and users, networking and cooperation within the working group as well as the initiation of new projects.

The project was initiated in the SeDiPeT Secure Digital Performance Twin network of the Cluster Mobility & Logistics.



## The DInO has started successfully!

*Successful project kick-off of the Digital Innovation Ostbayern (DInO) project*

What is "DInO"? The [Digital Innovation Ostbayern \(DInO\)](#) project is one of three European Digital Innovation Hubs (EDIH) in Bavaria. The project focuses on the digital transformation of SMEs and public administrations. The project is coordinated by Deggendorf Institute of Technology, other partners are R-Tech GmbH ("Digitale Gründerinitiative Oberpfalz" and "Cluster Mobility & Logistics"), OTH Regensburg and the Bavarian AI agency "baiosphere" in Munich. As part of DInO, the Mobility & Logistics Cluster provides support for the "Innovation Ecosystem & Networking" and "Support to Find Financing and Investment" services.



The DInO journey began in June 2023 with the aim of shaping the region's digital future. For a strong business location in Eastern Bavaria. DInO supports public institutions and SMEs in digitalization, the development of innovative ideas and the automation of business processes and products. The program includes a series of qualification workshops and networking events with a focus on technology transfer, targeted matchmaking and knowledge building for industry cooperation.

At the kick-off event on November 6, 2023 at the TechBase in Regensburg, all project partners presented the consulting and training services as well as the available laboratories and technologies.



## A full house at JOBTECH 2023

*Doubling the number of visitors*

For the second time, small and large companies from the region presented themselves as attractive employers with concrete job offers at the TechBase job exhibition, the JOBTECH. Sunshine and 48 attractive exhibitors attracted around 1,000 students from OTH and the University of Regensburg to TechBase. The students had the opportunity to talk to potential future employers and exchange ideas in a relaxed atmosphere. Popcorn, pretzels and a competition sweetened the visit to the exhibition.



The visit of the Bavarian Minister of State for Digital Affairs, Judith Gerlach, also underlined the importance of the exhibition.

The job exhibition in 2023 was supported by Bertrandt AG, Continental Automotive Technologies GmbH, intive automotive GmbH and Wolf GmbH.

JOBTECH is the ideal platform for bringing students and future graduates together with companies from the region, which is why it will be back again in 2024!



## EU-Project RECIPROCITY

*Replication of innovative concepts for peri-urban, rural or inner-city mobility*

It was the first time that a Horizon 2020 project was initialized and set up with the cluster as a leadpartner: Project [RECIPROCITY](#).



The aim of the project was to identify innovative mobility concepts for rural, peri-urban and inner-city areas and to replicate them elsewhere. Therefore, cities and municipalities of varying size, location, degree of urbanization and mobility demands were equipped with essential tools, knowledge and contacts to accelerate the implementation of innovative mobility solutions. The cluster steered the activities of the consortium of ten partners from all over Europe. The project was funded in H2020" program with approximately 1.5 million euros in the time period 01/02/2021-30/09/2023. The consortium consisted of 10 partners – clusters and research institutions from all over Europe.

With this project, the cluster has developed the capacity to initiate and lead projects at European level. The capacity and experience gained from this project, as well as the new additional international networking opportunities, are now available to all cluster members and can also be used by other cluster members.

### Highlights of the Project:

- [Catalogue of mobility solutions - best practices](#) and +45 [use cases](#)
- [Policy recommendations](#) and position papers on [drones](#), [hydrogen](#) and [MaaS](#)
- [Business Model Report](#) on Multimodal Digital Mobility Services, Connected, cooperative & autonomous mobility, and Electric and H2 Vehicles
- [Replication Handbook](#): Manual for replicating innovative mobility solutions.
- [ARRIVAL Platform](#): multifunctional, automated matchmaking platform

Further project results, training materials and information on the project are freely available in the [RECIPROCITY Knowledge Center](#).

