

SURPRIS

Austrian Technology Days 2021

INGLY

May 25 – 27, 2021 www.advantageaustria.org

INGENIOUS



AUSTRIAN TECHNOLOGY DAYS PARTICIPANTS

AS PER APRIL 28, 2021

To book an 1:1 video meeting with any of the participants or to learn more about them, please register at <https://atd-hong-kong.b2match.io/> or contact ADVANTAGE AUSTRIA Hong Kong
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NAME | CONTACT | PRODUCT

FACTS

LOOKING FOR

1

AIT Austrian Institute of Technology GmbH

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OFFER

Austria's largest research and technology organisation. It's "City Intelligence Lab" aims to become an international model for the urban planning processes of the future.

The AIT Austrian Institute of Technology, with over 1,300 employees, is one of the European leading research and technology organisations focusing on key infrastructure topics of the future.

AIT provides research and technological development for the next generation of infrastructure related technologies in the fields of Energy, Mobility Systems, Low-Emission Transport, Health & Bio Resources, Digital Safety & Security, Vision, Automation & Control and Technology Experience.

In addition to research, AIT provides a network of independent, urban expertise and develops cutting-edge urban management and planning solutions. They combine innovative processes with the latest digital planning tools using big data and Artificial Intelligence.

Research partners and customers for applied research and proven urban tech solutions.

AIT is Austria's largest research institute with proven solutions for urban challenges including urban planning tools (also applied in Singapore), solutions to analyze and optimise pedestrian

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alchemy-nova

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PRODUCTS

a) indoor / facade bound (vertical) green walls for wastewater treatment to reach quality of service water, including nutrient recovery in biomass, potential combination with PV;

b) plant-based indoor air quality treatment units

c) plant-based unisex urinal for public spaces, including nutrient recovery.

d) consultancy services for companies/cities on circular economy

alchemy-nova has an interdisciplinary team of experts which develops concepts and brings products to the market for a circular economy. Solutions for households and communities. Company also takes part in EU research projects.

Reference projects include office and residential buildings, as well as tourist facilities in Austria, Spain, UK and Switzerland.

vertECO: Vertical indoor or outdoor ecosystem: Wastewater is treated in a green wall to reach the quality of service water. Nutrients are recovered in plant biomass. Service water can be reused for irrigation, toilet flush, facility/textile cleaning and is odorless.

GRETA: Green Walls for Water Treatment is a modular facade bound green wall. Irrigation and fertilisation can be organised via grey water and/or rain water. GRETA can be designed to evaporate water (and act as cooling urban heat island).

Building developers/owners/urban planners and companies with an interest in circular economy.

Alchemy Nova works on R&D in circular economy with nature-based solutions; bio-based industry.

3

Celantur

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PRODUCT

Privacy-compliant Images and Videos - Automatic Blurring (Faces, License Plates, ...), AI-based.

Celantur is a default image & video anonymization solution that helps companies, organizations and cities to comply with data privacy laws.

Their industry-grade technology, based on Deep Learning, can automatically detect and blur objects such as faces, bodies, license plates, vehicles and facades while making this process cost-effectively.

Hong Kong distribution partner: Star Vision Ltd.

Customers require Image Anonymization as a Service on Celantur's cloud platform OR as an installable on-premise software.

Celantur offers an automated image blurring solution for photo and video.

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Cree

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PRODUCT

Timber Hybrid Building System
for buildings up to 100 Metres.

Cree is an international technology and consultancy firm, dedicated to sustainable and healthy buildings using prefabricated timber-based components.

Building Types and sweet spots:

- Heights of up to 30 floors
- Commercial, residential or mixed-use large volume buildings
- Projects starting at 30,000 sqf

Track record of several major building projects erected across Europe, Asia and North America including:

LCT One: how it was build

<https://www.youtube.com/watch?v=Crc5ciSeSNA>

New 370,000 sqf Headquarter of Vattenfall (Berlin, Germany):

<https://vimeo.com/497935215/987386321b>

New 37,000 sft office building in Germany:

<https://www.youtube.com/watch?v=hFJW7E9Ds-g>

Developers or construction companies interested in multi-floor or large volume timber-hybrid construction projects. Cree can provide the technology.

Cree provides
technology for Timber
Hybrid Buildings for up
to 30 floors.

5

Doppelmayr Cable Car

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PRODUCT

Cable Cars, People Movers,
Diverse Transport Solutions.

As a market leader in ropeway engineering, Doppelmayr / Garaventa Group is the ideal partner for implementation of diverse transport solutions. In close collaboration with the customers, Doppelmayr develops high-performance passenger transport systems for summer and winter tourism regions as well as for urban applications.

Doppelmayr's innovative ropeway systems can solve many traffic problems. As a feeder to bus, train and MRT lines, they fill gaps in the infrastructure, bridge topographic obstacles and create new traffic networks in urban areas. High capacity, low space requirement and short construction period are other features of this proven ropeway technology. Together with the Chinese University of Hong Kong, Doppelmayr has some suggestions for the use of cable cars "for non-touristic" purpose in Hong Kong.

Applications for cable cars and automated people movers in Hong Kong.

Doppelmayr is an
international
manufacturer of
ropeways and people
movers in urban
transportation.

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LOOKING FOR

6 **Galler Consulting**
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PRODUCT

Concept Solution for Personal Rapid Transportation as an alternative to conventional mass transit systems.

Galler Consulting, together with their sister company in the U.S., offers a solution for cost efficient mass transit system which able to compete with the features of a car.

Sky Web Express is a concept for a Personal Rapid Transportation System, which allows passengers to travel in small, private vehicles. Powered by Austrian technology, vehicles glide on elevated guideways, which decreases traffic congestion and allows faster transportation.

Potential local contacts/partner in the Greater Bay Area to implement a Sky Web Express.

Galler Consulting offers a concept for a personal rapid transportation system co personal rapid mass transit solutions.

7 **Getzner Werkstoffe**
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PRODUCT

Polyurethane materials for applications in the railway, construction and industry sectors to reduce vibrations and noise.

Getzner manufactures polyurethane materials for applications in railways, construction sites and industrial sectors. Their solution would reduce vibrations, noise, improve service life of bedded components and thereby minimise the needs for repair and maintenance on tracks, vehicles, structures and machines.

Material can also used for vibration mitigation when buildings are built on metro line.

The company is located in Austria and has an engineering and sales office in Beijing and a production site in Kunshan.

Partners/experts in the rail and construction industry with an interest in acoustic and vibration mitigation.

Getzner manufactures high-tech anti-vibration and anti-noise materials for use in the rail and construction industry.

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Kapsch TrafficCom

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PRODUCT

Software and hardware solutions for: Tolling (highways, inner city, road pricing systems), Traffic management (city traffic, highway management, bridges, tunnels) and Smart mobility (autonomous vehicles, traffic identification systems).

The Kapsch Group is a globally operating technology corporation headquartered in Vienna. Kapsch TrafficCom is a provider of intelligent transportation systems in the fields of tolling, traffic management, smart urban mobility, traffic safety and security and connected vehicles.

As a one-stop solutions provider, Kapsch TrafficCom offers end-to-end solutions covering the entire value creation chain for its customers, from components and design to the implementation and operation of systems.

Cooperation partners for projects in Hong Kong, Government agencies, Knowledge exchange.

Kapsch is a globally operating tech corporation that offers smart software and hardware solutions for multi-lane tolling (e.g. for tunnels) and city-tolling.

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MUT Austria Maschinen-Umwelttechnik- Transportanlagen GmbH

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PRODUCT

Vehicles for waste collection and street cleaning.

MUT is an Austrian company offering solutions in the field of conveying, sorting, treatment and utilization of waste as well as the treatment of water and wastewater.

MUT produces modern special bodies for waste collection for street and sewer cleaning.

Cooperation opportunities for waste management and street cleaning technology projects.

MUT provides technology for waste collection and street cleaning ranging from large open spaces to very dense urban areas.

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LOOKING FOR

¹⁰ NEUBAU best.energy

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PRODUCT

Consultancy services for building energy efficiency, passive houses and carbon-neutral construction solutions.

NEUBAU best.energy is a globally active energy-design office based in Vienna supporting developers, building owners, architects and engineers in their efforts towards building optimization. The world's most energy-efficient buildings are part of their references - e.g. projects in Kazakhstan and China where they supported the construction of the first real passive house according to the Austrian Building Standard.

NEUBAU draws on years of experience, cooperation with universities and technical skills in cutting-edge technologies. The integration of their international customers, local planners and producers into on-site processes enables cost-effective and efficient solutions.

Clients or partners for consultancy services for energy efficiency in buildings (developers, building owners, architects and engineers).

NEUBAU best.energy is a developer of passive houses: the world's most energy-efficient buildings

¹¹ Neuron Consult

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PRODUCT

BaulInspect video creation software/app for underground engineering projects.

Neuron Consult is a consultancy company specialised in civil engineering sector. "BaulInspect" is a software application for smartphones to create videos to show the status and conditions of civil and underground engineering infrastructures such as tunnels. Structures such as motorways, railways, subways or even urban transport lines depreciate due to wear and tear. Any loss of value at critical points can be recorded with your phone by using the "BaulInspect" application. Then videos will be evaluated and transferred directly to the office. Also, technical measures and costs for necessary maintenance can be analysed.

Company's CEO Mr. Davorin KOLIC has also worked before as a consultant for projects in Hong Kong.

Distribution partners in China and Hong Kong who can adopt the solutions according to local requirements. Also interest in potential investors.

Neuron Consult offers a BaulInspect video creation software/app for underground engineering project

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LOOKING FOR

12 PrintStones/BAUBOT

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PRODUCT

Construction Robots. Fully mobile robotic systems to perform various tasks on construction sites and manufacturing facilities.

Printstones is focused as a startup on the development of digital production processes and mobile robotics solution. It currently offers the only truly mobile construction robotic systems where everything is on-board and no cables or stationary components are required. Baubot solutions are compact, and can drive through doors, climb stairs and use elevators. The Baubot ecosystem is designed for several applications including concrete 3d printing, formwork milling, micro-trenching, plasma cutting and sanding. Their open platform allows 3rd parties to develop and monetize their own hardware tools and application.

Printstones has completed the initial development and is now in a market-entry phase after completing numerous pilot-projects. Watch the video at:

<https://www.linkedin.com/feed/update/urn:li:activity:6787297150012317697/>

They look for commercialization and development partners for mobile construction robots. Investors are also welcome.

Printstones offers a fully mobile robotic systems to perform various tasks on construction sites and manufacturing facilities.

13 RIEGL Laser Measurement Systems

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PRODUCT

Innovative 3D laser scanning solutions for mobile, terrestrial, aerial, industrial and unmanned applications.

Applications include topography, mining, surveying, architecture, archaeology, monitoring, civil engineering and city modeling.

RIEGL is an international leading provider of cutting-edge technology in airborne, mobile, terrestrial, industrial and unmanned laser scanning solutions.

RIEGL has been producing LiDAR systems commercially and focuses on pulsed time-of-flight laser radar technology in multiple wavelengths.

RIEGL's core technology, the digitization of LiDAR signals ("Waveform LiDAR"), provides a unique methodology for resolving range ambiguities, multiple targets per laser shots, optimum distribution of measurements, calibrated amplitudes and reflectance estimates, as well as the seamless integration and calibration of systems.

RIEGL's Ultimate LiDARTM 3D scanners offer a wide array of performance characteristics and serve as a platform for continuing Innovation in 3D for the LiDAR industry.

RIEGL already has reference projects in Hong Kong.

End-users in public and private sector for 3D-laser measurement.

RIEGL's terrestrial laser scanners provide detailed and highly accurate 3D data rapidly and efficiently.

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LOOKING FOR

14 S::CAN

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PRODUCT

Water quality measurement systems (sensors and terminals).

s::can develops online water quality measurement since their foundation 21 years ago. Their Product range covers state of the water quality measuring and monitoring systems for each individual parameter for typical applications in the areas of water, wastewater, environmental monitoring, and industrial applications. Whether it is a simple pH sensor or a complex spectral probe, s::can measuring instruments are intelligent and compatible with each other in s::can systems and with third-party systems.

With over 10,000 systems sold, s::can is the global leader in online optical water monitoring systems. s::can sensors and terminals are distributed in over 50 countries to the private and the municipal water industry.

s::can has sales and support office in China.

Clients in public and private sector for water/waste water applications, universities and research institutes, water engineering and consulting companies.

S::CAN water provides monitoring systems and software for drinking-, environmental-, waste-, and industrial water applications.

15 Vienna University of Technology (TU Wien) / CD Research Institute for Chemo-Mechanical Analysis of Bituminous Substances

Univ. Prof. Dr. Hinrich Grothe

President of CPG

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PRODUCTS

New laboratory on quality control mechanism for bitumen, research on additives to improve the bitumen quality. Also a prototype for florescence scanner to check quality of bituminous materials.

Christian Doppler Research Institute at TU Wien for Chemo-Mechanical Analysis of Bituminous Substances.

<https://www.cdg.ac.at/en/research-units/labor/chemo-mechanische-analyse-von-bituminoesen-stoffen>

The bitumen laboratory works on quality control mechanism for bitumen and does research on additives to improve the bitumen quality. The main goal of the CD Laboratory is to gain a fundamental understanding of the interplay between the composition, structure and mechanical behavior of bitumen and develop a comprehensive chemo-mechanical analysis tool.

The Institute invented and patented a florescence scanner that can quickly and easily determine the aging status and quality of bituminous materials. The Institute is interested in testing this scanner under real conditions and is finding a commercial partner.

Industry and academic partners for bitumen research.

Testing and commercialization partners for the patented bitumen quality scanner (prototype developed).

The Institute of Materials Chemistry runs a Laboratory for for the "Chemo-Mechanical Analysis of Bituminous Materials" and also has a prototype for a bitumen quality scanner.

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FACTS

LOOKING FOR

¹⁶ **VWMS Vienna Water Monitoring Solutions**

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PRODUCT

ColiMinder Rapid Microbiology –
Bacterial Contamination Monitoring
– Online.

The ColiMinder provides fully automated measurement of bacterial contamination in water (microbiological water quality) in 15 min time to result. Providing microbiological water quality in real-time helps to drastically improve process efficiency and safety.

Reliability, stability and robustness of the ColiMinder analyser is proven since 2014 in different applications and customer installations around the globe including in Hong Kong.

Potential users (drinking water utilities, wastewater utilities, mineral water bottling/food and beverage industry, port authorities, environmental organisations, universities).

**VWMS provides
online bacteria
analyzing monitoring
the water quality, 15
min to result**

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