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AUSTRIA TEC WEEK CHINA

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The AIT Austrian Institute of Technology has a partnership with the People's Republic of China stretching back several years. In the areas of energy, mobility and foresight processes in particular, our researchers have been working closely with experts from this growing world economic power for a long time.

The recently completed re-orientation of the AIT is the basis for entirely new scientific partnership opportunities and joint technology developments for the Chinese market. We have, after all, opted to focus on precisely those research areas which, under the "Smart Cities" umbrella, also play an important role in the People's Republic of China.

Austria Tec Week China, which will take place during Expo 2010 in Shanghai, will provide the perfect opportunity to identify areas for new, joint projects and to demonstrate our technical expertise to municipalities and local authorities on site. What we – in many areas from the vantage point of a European technology leader – have to offer the Chinese market is a portfolio which ranges from the development of sustainable energy systems, smart network solutions and molecular sensing technologies to safe and green mobility concepts.

At the same time, however, the purpose of Austria Tec Week China is also to stimulate a reciprocal technology and knowledge transfer. Especially in the context of "sustainable cities" all of us can benefit from jointly exploiting technological know-how as well as a broad spectrum of experiences made in Austria and China. I am confident that by the end of a week full of opportunities we will have identified several new research projects which will enable us to start paving the way for a prosperous future right now. Tomorrow Today.

A handwritten signature in black ink, appearing to read 'W. Knoll', written in a cursive style.

Wolfgang Knoll – AIT Managing Director

Expo 2010 Shanghai China is being held in the People's Republic of China from May to October. Some 70 million visitors (380,000 per day) are expected to flock to the 5.28 km² Expo exhibition site. The exhibition is playing host to 227 participating countries as well as numerous cities and organisations. The theme of this year's world expo is "Better City, Better Life", the focus being on the realisation of sustainable cities of the future. There are also various theme forums which enable world fair participants to share their visions. Given that research and development as well as innovation are the cornerstones of economic and human prosperity, one of these forums will focus on science, technology and innovation.

During the world fair, the Federal Ministry for Transport, Innovation and Technology (BMVIT), the AIT Austrian Institute of Technology and the Austrian Chamber of Commerce are planning to stage Austria Tec Week China from October 11 to 15. In line with the motto of the world expo, the AIT is organising symposia and workshops on current topics relating to sustainable cities and issues of innovation policy. These topics – mobility for sustainable cities, energy for sustainable cities and science-industry relations – are closely linked to the overall focus of the world expo. Taking part in the individual events staged during the week will be Austrian and Chinese researchers and representatives of Chinese and Austrian companies as well as innovation and technology policy-makers from Austria and China.

The aim of Austria Tec Week China is, firstly, to promote a reciprocal understanding of Austrian and Chinese technology and research competence in the selected areas; secondly, to initiate the sharing of experiences in the conception and implementation of sustainable cities as well as technology and innovation policy initiatives; thirdly, to instigate partnerships between Austrian and Chinese companies, universities and non-university research institutes in the relevant areas.

In this context, the motto for days 1 to 3 of Austria Tec Week China is "sustainable cities". Days 1 and 2 are devoted to "Energy for Sustainable Cities", the aim being to initiate joint projects for realising sustainable cities. Day 3 – "Mobility for Sustainable Cities" – will focus on future mobility concepts,

with the emphasis on electric mobility and potential areas of collaboration. On day 4 there will be a symposium entitled "Strengthening science industry relations: A joint initiative between China and Austria".

WS1: Energy for sustainable cities (11. – 12. 10. 2010)

WS2: Mobility for sustainable cities (13. 10. 2010)

WS3: Science-Industry Relations (14. 10. 2010)

THE AIT AUSTRIAN INSTITUTE OF TECHNOLOGY – TOMORROW TODAY

An efficient, powerful and environmentally friendly infrastructure is the cornerstone of both the quality of life and the economic success of a country. This area is currently going through a period of fundamental change. The demand for new technological solutions is high and there are new opportunities for innovative companies and public institutions.

The AIT Austrian Institute of Technology is an "Ingenious Partner" to these companies and public institutions. Today we are already researching and developing the technologies, techniques and tools of tomorrow for the innovations of the day after tomorrow.

PIVOTAL ROLE IN FUTURE INFRASTRUCTURE ISSUES

The AIT Austrian Institute of Technology plays a leading role in Austria. Beyond Austria, primarily at European level, we are a major player among those research and technology institutes specialising in key infrastructure issues. These issues are also reflected in the organisational structure of the AIT Austrian Institute of Technology. The four technology-oriented AIT departments focus on Energy, Mobility, Health & Environment and Safety & Security. The fifth arm, the Foresight & Policy Development Department, is dedicated to those innovation systems and foresight processes which are crucial to innovation, technology and infrastructure policy.



BORN OF THE BIGGEST CHANGE PROCESS IN THE COMPANY'S HISTORY

The AIT Austrian Institute of Technology was formed through the restructuring of the largest non-university research institute in Austria, Austrian Research Centers (ARC). As part of a fundamental change process, the ownership structure, the management, organisational structure, governance system and strategic orientation were completely redefined. The new AIT Austrian Institute of Technology and its two subsidiaries, Seibersdorf Laboratories and Nuclear Engineering Seibersdorf, officially opened their doors for business in 2009.

INGENIOUS PARTNER TO OUR CUSTOMERS

The AIT Austrian Institute of Technology is an Ingenious Partner to national and international companies. Which means we are there for our customers in the long term, providing expertise which will enable them to rise to the major challenges of the next five years which require specific solutions. We place

a premium on collaborative partnerships based on trust and flexibility – all in the name of Customer Intimacy.

Our customers are therefore able to focus on their core competence and the immediate future, while our outstanding researchers develop the tools and technologies of tomorrow as a precursor to the specific solutions of the day after tomorrow.

STRATEGIC THINKING AND RISK MANAGEMENT

The AIT Austrian Institute of Technology possesses a thorough knowledge of ongoing international research efforts in the respective areas. At the same time, we are focused on identifying future challenges and system gaps. Correspondingly, we develop appropriate technologies and tools, creating a future-driven development landscape for companies. Thus the AIT Austrian Institute of Technology can make a key contribution to risk management in industry and the development of new markets.

AUSTRIA AS A CENTRE OF INNOVATION

The AIT Austrian Institute of Technology is a research institution with a European format whose roots and future are inextricably linked with Austria. Consistent with the strategies of our owners, the Federal Ministry for Transport, Innovation and Technology (BMVIT) and the Federation of Austrian Industries (IV), the AIT Austrian Institute of Technology stands for Austria's commitment to more research and to cementing Austria's position as a centre of innovation.

At the same time, the AIT Austrian Institute of Technology is a formidable partner in the relevant national and international research networks and alliances. This allows us to help shape European research strategies and encourage the initiation and establishment of cross-sector strategic partnerships.

DRIVEN BY EXCELLENCE AND A DESIRE FOR UNRIVALLED QUALITY

Emulating the world's leading research institutes, the AIT Austrian Institute of Technology has a commitment to excellence. Our high standards are reflected in the expertise of our researchers and the institute's modern research infrastructure in the relevant research areas. They are underlined by our research results, which enable our partners in industry and the public sector to realise innovative products and services.

THE AIT AUSTRIAN INSTITUTE OF TECHNOLOGY'S KEY RESEARCH AREAS

In the European research community, the AIT Austrian Institute of Technology positions itself as a specialist in infrastructure issues. This positioning is instantly recognisable in the orientation of its four technology-led departments.

ENERGY

The Energy Department specialises in technologies for energy-efficient buildings and systems for secure and sustainable energy supply.

The "Electric Energy Infrastructure" Research Area focuses on the design and optimisation of new management concepts for smart transmission and distribution networks, so-called smart grids, and their network components. As a cornerstone of future energy supply, new photovoltaic technologies are being developed.

The "Energy for the Built Environment" Research Area is dedicated to new concepts for the energy management of cities and city districts, and sustainable buildings which make use of efficient thermal components for future building applications.

MOBILITY

The Mobility Department develops technologies and tools geared towards efficient and secure mobility.

The primary focus of the "Transportation and Infrastructure Solutions" Research Area is technologies and solutions for environmentally-friendly, efficient and secure transport systems as well as transport infrastructures, with the aim of developing future mobility solutions.

In the "Future Integrated Vehicle Concepts" Research Area, we deal mainly with innovative electric drives and lightweight construction technologies for new vehicle concepts.

HEALTH & ENVIRONMENT

The focus of the Health & Environment Department is the sustainable use of natural and biological resources for environmental and medical applications based in particular on the use of nanotechnologies and molecular sensing technologies. The "Sensing Life" Research Area is dedicated to molecular technologies for more efficient and personalised

diagnostic and therapy techniques and systems. In the "Sensing Nature" Research Area we develop molecular technologies for the analysis, monitoring and assessment of biological processes, thereby laying the foundations for the sustainable use of natural resources.

SAFETY & SECURITY

The Safety & Security Department conducts research into IT-based solutions for a secure communication infrastructure, Computer Vision and security systems.

The "Future Networks & Services" Research Area is dedicated to research into new technologies and concepts for secure ICT networks, with a particular emphasis on the use of quantum technology, the development and evaluation of eHealth systems for telemedical applications as well as new concepts for secure communication in distributed systems.

The "Intelligent Vision Systems" Research Area is focused on the development of algorithms and sensors for high-performance image processing, visual surveillance systems and 3D vision for autonomous systems.

The "Highly Reliable Software and Systems" Research Area develops new methods and tools for validation and verification of security-critical, autonomous systems as well as relevant software standards.

FORESIGHT & POLICY DEVELOPMENT

The Foresight & Policy Development Department is focused on the development of foresight processes and the analysis of innovation systems and resulting measures for technology, innovation and infrastructure policy.

The focus of the "Monitoring & Analysis Technology-Economy-Environment" Research Area is the development and deployment of models and instruments for the analysis of complex systems, innovation processes and Data Mining.

In the "Foresight Processes & Governance" Research Area, we are focused on the development of techniques for shaping a desirable future and on techniques and models for companies and politics geared towards redirecting systems towards a desirable future.

CONTACT

Michael Hlava
Head of Corporate and Marketing Communications
AIT Austrian Institute of Technology
T +43(0) 50550-2046 | F +43(0) 50550-4000
michael.hlava@ait.ac.at | <http://www.ait.ac.at>