

# Messe News

## Industrial Automation



Industrial  
Automation



February 2012

NEW TECHNOLOGY FIRST  
23 – 27 April 2012 · Hannover · Germany

### New display in Hall 17: power transmission systems for factory automation

Deutsche Messe and the German Engineering Federation (VDMA) have created a new special exhibition platform in Hall 17. The display, which will be a regular feature at future Industrial Automation fairs, is focused on pneumatics, linear technology, geared motors and their out-sourced components, along with electrical power transmission components. Included in this new exhibition space is a 200 square meter (2,150 sq.ft) VDMA pavilion for SMEs. This year's pavilion will reflect the official HANNOVER MESSE 2012 motto, "greentelligence," and feature a captivating range of exhibits that show the way ahead for innovative automation technologies. See pages 2 to 4 for more information on this year's robotics and power transmission displays.

### Metropolitan Solutions goes international

Following its highly successful debut at HANNOVER MESSE 2011, the Metropolitan Solutions exhibition area will now also be featured at two foreign trade fairs. It will also form the subject of a global congress and a year-round program of conferences, workshops, seminars and lectures. See page 6 for full details.

### Exclusive exhibitor interviews

For an insight into the importance of HANNOVER MESSE for many exhibitors, the innovative products they will be showcasing in 2012 and the key trends for our industrial future, read the seven exclusive interviews.

## 2012 showcase now spans eight halls

The full range of automation technology solutions: Industrial Automation asserts pole position as innovation driver for industry.



### Worldwide demand for automation technology on the rise

Good news from the German mechanical engineering, robotics and image processing sectors: the German Engineering Federation (VDMA) has reported strong growth in 2011, and expects that trend to continue in the current year. According to VDMA, the Federal Republic's mechanical engineering sector is forecasting a four percent increase in total production in 2012. Sales in Germany's industrial image processing sector are expected to climb by five percent, while Germany's robotics and automation industry is expected to grow by as much as seven percent.

These figures point to excellent prospects for the Industrial Automation fair, which will span eight halls in 2012. In the words of Industrial Automation director Thomas Rilke: "This flagship fair offers industry decision makers an international platform that's quite unique, with valuable synergies arising from easy on-site access to all other key technology sectors. Our concept also provides all the flexibility our exhibitors need. This year, for example, we have created an additional exhibition area in Hall 17 as a central space for all

automation component suppliers, right in the heart of the Exhibition Grounds." See pages 2 and 3 for more information.

All facets of the Industrial Automation show – the world's leading trade fair for process, factory and building automation systems and solutions – strongly reflect the keynote theme for this year's HANNOVER MESSE, "greentelligence."

Trend themes for 2012 include the Robotics & Automation Application Park and Mobile Robots and Autonomous Systems (see pages 3-5), along with Wireless Automation/M2M; Industrial IT; and Identification, Tracking & Tracing (see pages 6 and 7).

To stay competitive, companies need to keep abreast of the latest market developments. Industrial Automation is both an innovation driver and a window on the future. Don't miss this major highlight at HANNOVER MESSE 2012!

Further information:  
[hannovermesse.de/en/  
industrialautomation](http://hannovermesse.de/en/industrialautomation)

## IVAM product market relocates to Hall 17



Heinz-Peter Hippler, CEO of the IVAM Microtechnology Network, Dortmund

The IVAM "Micro, Nano, Materials" product market gives international exhibitors a space of around 650 square meters (7,000 sq.ft) to showcase their latest products and applied research results. The focus will be on multi-sector innovations drawing on many different facets of high technology. This year, the product market will be located in the new "MicroTechnology – Smart Systems for Automation" special exhibition area in Hall 17.

According to Heinz-Peter Hippler, CEO of the IVAM Microtechnology Network, „Integrating microtechnology into the industrial automation environment is a logical step towards creating the high-efficiency industries of tomorrow.“

Mini interview:

### What trends and highlights do you see for 2012?

Hippler: "Key themes for the future from the industry perspective include energy harvesting, printed electronics & intelligence, green microsystems and condition monitoring. The incorporation of microtechnology into the industrial automation thematic environment opens up myriad additional synergies between industrial production and core micro and nano technologies."

### How important is HANNOVER MESSE for your industry?

Hippler: "HANNOVER MESSE is one of the world's largest industrial tradeshows. The event's high international profile is the main draw card for microtechnology companies, IVAM members and IVAM product market exhibitors. Our sector is also looking to form close relationships with plant manufacturers and system integrators, who are extremely well represented at HANNOVER MESSE."

## "The future is all about efficiency"

Innovative drive technologies save electricity and cut costs

### Mr. Spanier, what is the significance of power transmission technologies in your industry?

"For us as a leading manufacturer of robot solutions for industrial automation, these technologies play a vital role in what we do. They have a major impact on the power consumption and productivity of our solutions."



Volker Spanier, Head of Factory Automation of Epson Deutschland GmbH

### What trends do you see for 2012?

"Even more than in 2011, customers will be focused on products that are precisely tailored to their automation needs. There will also be an even greater interest in solutions that deliver clear power and, therefore, cost savings. This will apply particularly in the fast-growing East European markets, where there is a strong demand for solutions with a relatively low entry investment."

### Why is HANNOVER MESSE so important for your business?

"HANNOVER MESSE gives us an outstanding platform for presenting our industrial automation expertise to a wide and truly global audience."



## Power transmission technologies move to annual exhibition cycle

There is an accelerating trend towards the convergence of different sectors of industry - for example power transmission systems (PTS) are increasingly becoming a key part of factory automation. Through the addition of a new exhibition area in Hall 17, Deutsche Messe has now given PTS companies an annual platform for showcasing their innovations and exchanging ideas. In the words of Tilman

Bechem, CEO of the German-based company Camozzi GmbH, "Given the key importance of pneumatic control systems in the industrial automation arena, as from 2012, we plan to be back every year. New developments for industrial applications are now coming on stream so quickly that Camozzi has to keep telling the market about our latest products and solutions."

## "Innovations for industry" experts' forum

MicroTechnology highlights include the "Innovations for Industry" forum, where renowned experts will discuss miniaturized industrial solutions, innovations from the microtechnology sector and laser systems for micromaterial processing.

Keynote topics include:

- Energy Harvesting
- Green Microsystems
- Condition Monitoring
- Printed Electronics



# Güdel: Robots are the key to a competitive edge

"The value of this fair lies in the strong international visitor presence and the high quality of the professional dialogue we see here. Many lasting business relationships have started right here."



Rudolf Güdel,  
CEO and owner,  
Güdel AG

## Why does the theme of linear robotics have such a high profile?

"People have always had strong feelings about robotics, one way or the other. In past years robots were seen as stealing our jobs, but now they are recognized as an essential part of the everyday work environment. They enable manufacturing businesses to remain competitive, even in high-cost countries, and help to create viable jobs for the future."

## How is your company contributing to this trend?

"We manufacture linear and rotary axis systems. Combinations of these systems, supported by robots in some cases, can provide greater versatility and the rigidity and precision required for almost unlimited automation capability, particularly in rapidly growing market segments such as energy, communications, transport and logistics."

## What makes your company an industry leader?

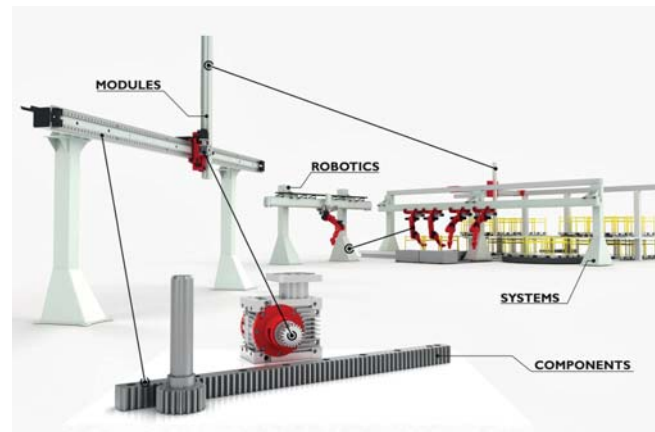
"We see ourselves as the industry leader for linear axes and system solutions for heavy-duty applications. Güdel applies the vertical integration principle by designing and manufacturing key components in-house. Our international group companies operate as know-how transfer points, enabling us to provide excellent service locally. Our goal is to deliver high earnings potential for our customers from their Güdel system solutions."

## What industry trends and developments do you expect in 2012?

"We think that 2012 will be a relatively quiet year. China will continue to grow, but an upswing in Europe and America is not expected until mid-2013. We operate in niche markets where we see good opportunities for our products. Renewables will remain high on the agenda and the automotive sector will expand its production operations."

## What does HANNOVER MESSE mean for your company?

"I feel a strong emotional attachment to HANNOVER MESSE. I set up our very first stand here back in 1978. The value of this fair lies in the strong international visitor presence and the excellent quality of the dialogue between industry professionals. Many lasting business relationships have started right here. We will be back this year to present our innovations and to inspire trade visitors with our solutions."



## New robotics and automation platform

### Welcome to the Robotics & Automation Network!

HANNOVER MESSE and the Robotation Academy offer a wide range of events and services across every aspect of robotics and automation. Services offered include professional development & training, seminars & conferences, advisory services and professional networking - 365 days a year!

Visit the new network platform for details of all event dates and the full range of Robotation Academy services at a glance.

Get the information you need on the latest trends and developments in the industry and enhance your networks with valuable new contacts.

#### Further information:

[automationsnetzwerk.de/home](http://automationsnetzwerk.de/home)

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## Underwater robots:

### Lower Saxony launches technology competition at HANNOVER MESSE 2012

The Lower Saxony Ministry for Economics, Employment and Transport will launch a new technology competition for underwater robots at HANNOVER MESSE 2012. Entrants are required to design an autonomous system for the performance of a specified task under water.

There are two phases in the competition: a design phase and a live face-off to find the best performing robot. The event is open to robotics experts from the German state of Lower Saxony.

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## ROBOTICS AWARD – Experience the future today

These days, robots are being put to work in virtually every sector. Even in SMEs they are now playing their part in reducing costs and making production processes more efficient. To highlight the importance of applied robot solutions, HANNOVER MESSE 2012, in partnership with the *Industrieanzeiger* trade journal and the Robotation Academy, will be presenting the second ROBOTICS AWARD. The prize-giving ceremony will kick off at 4 p.m. on 24 April. It will be held in the Forum Robotics, Automation & Vision in hall 17, booth C38.

The patron of the award is Jörg Bode, Lower Saxony's Minister for Economics, Employment and Transport. All companies and institutions from Germany and abroad are welcome to participate, irrespective of whether they are exhibiting at HANNOVER MESSE. A jury of industry experts will select the best entries. The award is presented for projects, products and technology innovations that make a pioneering contribution to robot-supported solutions in industrial automation, mobile robots or autonomous systems. Entries must be submitted by 20 February 2012.

[automationsnetzwerk.de/en/robotics-award](http://automationsnetzwerk.de/en/robotics-award)

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## Mobile robots a clear highlight

The incredible skills and versatility displayed by mobile robots makes them a firm favorite with visitors and exhibitors alike, year after year.

This year's "Mobile Robots & Autonomous Systems" exhibition area in Hall 17 is once again set to be a major visitor magnet, thanks to its live displays of the impressive capabilities of intelligent mobile systems and components in industrial production contexts as well as in public and home settings. Since its debut in 2008, "Mobile Robots & Autonomous Systems" has ranked among the big HANNOVER MESSE highlights.

Automated guided vehicle systems are an essential part of logistics today, as indispensable assistants for transport, warehousing and packaging operations. Mobile systems can also help out with cleaning solar modules and make everyday life easier for people living with physical handicaps. Robots

now interact with employees on the factory floor, and even with each other. In Hall 17, visitors will be able to see how these captivating technologies work in practice, and get an overview of the full spectrum of mobile solutions, from sensor systems to indoor navigation and non-contact energy transmission.

The robot as a helpful service guide, a cleaning machine or a conveyor system: in the "Mobile Area," the live action space within the exhibition area, these devices will be able to show off their many and varied uses. The Mobile Area is a unique opportunity for exhibitors to put together high-impact user-focused displays, because it will be the focus of attention for visitors and exhibitors alike.



## More sponsorship opportunities

Deutsche Messe is offering a broader range of sponsorship options. Companies now have more opportunities to sponsor lounges, conferences and keynote talks. Across the gamut of tradeshow activities - VIP events, exhibitors' evening functions, educational conferences, corporate events, press services, program brochures or the electronic visitor information system - there are myriad opportunities to raise your profile at the fair: WoMenPower, Metropolitan Solutions, Night of Innovations, German-Japanese Business Forum, Chief Executive Club, Hermes Award, Opening Ceremony.

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## IBG – Sights set on eMobility

"One of the hot topics for us is the development of new manufacturing concepts for series production."



Matthias Goeke,  
Managing Director  
IBG Automation GmbH

"As a development partner and producer of innovative robotics and automation solutions, we see energy-efficient power transmission technologies as a key element of creating cost-effective and resource-conserving production technologies for our customers.

eMobility will be high on our agenda this year, including the development of new concepts for the series production of electric

vehicles and their components.

So IBG will be back at this year's HANNOVER MESSE to present more pioneering automated solutions for the cost-effective and energy-efficient production of CFP components, energy storage media and assembly modules.

As automation becomes increasingly important in all industry sectors, it's important that companies develop strategies that facilitate the seamless integration of future technologies into their development and production processes.

Our focus is on offering holistic concepts that also address resource and green technology issues."

# Resource-efficient production

“The efficient use of materials can also play a part in reducing energy inputs for raw materials production, manufacturing, transport, product use and recycling.”



Prof. Fritz Klocke,  
Spokesperson for the Fraunhofer  
Production Cluster

The lead theme of HANNOVER MESSE 2012 is “greentelligence.” How does the Fraunhofer Production Cluster tie its “resource-efficient production” theme into this overarching idea?

“Our understanding of ‘resource-efficient production’ is actually based on the same kind of thinking that underpins the ‘greentelligence’ theme adopted for HANNOVER MESSE 2012. The global population is already using more resources than nature can supply without harm to the environment. And Germany as a high-tech production location has only a fraction of the resources that will become increasingly crucial for continued prosperity. Effective recycling,

looking to reduce the energy consumption of its production operations will be confronted sooner or later with the issue of resource efficiency. It will have to look at its energy supply, efficient air-conditioning and material flows, its process design and its use of technology. Ultimately the outcome will be not just a new kind of factory, but a fundamentally different approach to manufacturing.”

**What sorts of processes can be integrated into such approaches?**

“Rather than just looking at individual technologies and processes, we prefer to think in terms of entire process chains - because resource-efficient production has to be implemented at all levels. The story begins right back at the stage of planning the factory and its production processes. For example, the efficient use of materials can also lead to reduced energy inputs for raw materials production, manufacturing operations,

experience enable us to offer businesses comprehensive, holistic and practical solutions and production-focused services for successfully addressing their future manufacturing challenges.”

**Why do you see HANNOVER MESSE as a valuable forum for this purpose?**

“HANNOVER MESSE has traditionally been regarded as the world’s leading meeting place for industry. And the current research priorities of the Fraunhofer Production Cluster are an ideal fit with this year’s lead theme of ‘greentelligence.’ We look forward to engaging in stimulating dialogue with highly motivated trade visitors pondering exactly the same issues, and we hope our work can give them some fresh ideas.”



Lower resource inputs for both production and operation: plastic free-form lenses for the low-energy lighting of large surfaces with LEDs

particularly in industry, the development and deployment of alternative materials and technologies, and smart, low-energy manufacturing operations located close to the customer will be the key to future-proof production concepts. The ‘recycling idea’ needs to penetrate the entire value chain, from the initial product vision, the product’s further development and production, right through to the end of its useful life and subsequent recycling.”

**Why is energy-efficient production so important?**

“Energy-efficient production is one of the starting points for the development of resource-conserving industries. Any business

transport, product use and recycling. A production operation that accommodates resource cycles and can cater for substitute materials may even be able to eliminate the use of primary raw materials altogether, and still meet the highest standards in terms of quality, the environment and economic viability.”

**How can companies benefit from your research results and development initiatives?**

“The Fraunhofer Production Cluster is a group of seven Fraunhofer-Gesellschaft institutes, formed as a vehicle for joint production-oriented research and development for industry. Our bundled know-how and ex-

Efficiency Arena:

## Intelligent energy management halves energy consumption

HANNOVER MESSE exhibitors whose products contribute to lowering energy costs are welcome to book a lecture slot in the Efficiency Arena Forum – a great way of boosting visitor numbers at your stand. But don’t delay. The number of slots available is strictly limited. Contact for further information and registration: [ines.kirsch@messe.de](mailto:ines.kirsch@messe.de)



## Metropolitan Solutions is going global this year, with debut appearances at CeBIT in Hannover, South Africa and Qatar

According to the German Foundation for World Population (DSW), an average of 2.63 people are born every second. And more than half of the constantly growing world population already live in urban environments. Innovative solutions to provide the resources essential for survival, such as drinking water, housing, energy and raw materials, are urgently needed worldwide. The Metropolitan Solutions exhibition area made its successful debut last year, and will return to Hall 26 at HANNOVER MESSE 2012

ples of energy management as the crucial link between the economy and ecology. HANNOVER MESSE 2012 gives us the chance to present ourselves to an international audience as an innovative company with a global perspective."

Christoph Caselitz, Chief of Customer Operations at Rittal in Herborn, Germany, also sees Metropolitan Solutions as a valuable platform: "Cities and their infrastructures are key environments for the deployment of our products and solutions," he says. Key highlights of the exhibition area include a range of beacon projects featuring best-practice examples of contemporary technologies for the cities of the future and the international forum, where experts will discuss the future of urban infrastructures.

And in 2012 these themes are also being picked up for the first time by CeBIT, the world's leading and most international digital industry fair. The next CeBIT fair, which runs from 6 to 10 March 2012 in Hannover, will feature an "Urban Solutions" event. An exhibition area on these issues will also be a key part of the africa infrastructure fair, which is held in Johannesburg from 8 to 11 May 2012. In addition, the newly formed Metropolitan Academy at the Hannover Exhibition Grounds is set to become the world's first year-round event center for metropolitan technology – a platform for

beacon projects and discussion forum for innovative solutions. Finally, in fall 2012, top international decision makers from politics, public administration and business will engage in live debates via global link-ups on key issues surrounding the security and reliability of urban infrastructures.

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### Football World Cup in Qatar seeks "Metropolitan Solutions"



Qatar plans to invest some 100 billion US dollars a year over the next six years in urban and rural infrastructure. Projects large and small are waiting for international firms to take them up. To facilitate this process, the Euro Institute for Information and Technology Transfer (EITEP) is partnering with a number of Qatari government ministries to stage the City Solutions Expo and Conference in Doha from 15 to 16 April 2010.

Deutsche Messe is among the event partners, and will organize a "Metropolitan Solutions" theme pavilion. Since Qatar is to host the Football World Cup 2022, technology aspects of city and infrastructure issues have been included in the conference agenda. Decisions on which technical solutions will be deployed in Qatar's World Cup infrastructures will be made in the near future. If your company is interested in being involved, you still have time to submit a presentation proposal and take part in the exhibition.

Further information: [citysolutionsexpo.com](http://citysolutionsexpo.com)



to address these important themes. Exhibitors, such as Peter Kronenberg, Executive Board member of Imtech Deutschland GmbH & Co KG, see this as a unique opportunity: "Metropolitan cities are going to keep growing, not just in China and India, but also in Europe, including Germany," he said. "We will be displaying some impressive exam-

## Wireless & M2M: industrial wireless solutions a hot topic



Dr. Lutz Rauchhaupt, Technical Manager Wireless Industrial Communication, Institute for Automation and Communication (ifak), Magdeburg

"The use of industrial wireless solutions was once restricted to a few special cases, but those days are long gone. The convergence of communication technology and automation has enabled the targeted development of wireless solutions that meet the special requirements of industrial automation solutions. However, wireless communication still has its own specific challenges. The "Wireless Pavilion" at HANNOVER MESSE provides an ideal platform for presenting solutions which address these challenges. It offers visitors a compact but wide-

ranging display of wireless automation products, from proximity solutions on machines or in factory buildings through to mobile wireless solutions for machine-to-machine (M2M) applications. Typical applications for wireless communications include automated guided vehicle systems, mobile-operated plant and machinery, the replacement of equipment such as towing cables and collector rings, and the long-distance transmission of process data.

While the wireless technologies available on the market are as many and varied as their potential uses, it is possible to discern some standard solution approaches. These include the use of wireless LANs in the IT sector, and special automation developments such as WirelessHART. Stand-out future trends include ultra wideband, software-de-



finned radio and cognitive radio, whose deployment over the next few years is set to open up new application areas in industrial automation."

# Product piracy shaves 4 percent off German companies' earnings!

"Every company should implement effective technical prevention measures to protect its products."



Oliver Winzenried, CEO and founder of Wibu-Systems AG and chairperson of the VDMA's product and intellectual property protection unit (AG Protect-Ing)

## What is the significance of the product protection, identification, tracking and tracing exhibits at Industrial Automation 2012?

"According to a VDMA survey, in 2010, product piracy cost German machine and plant manufacturers the equivalent of four percent of their total revenues. For almost half the re-



spondents this included the illicit replication of entire machines. Accordingly, the automation industry has seen a huge increase in the per-

ceived importance of product and know-how protection. Particularly since Stuxnet, it has been abundantly clear that effective protection against third-party attacks will need to be an integral part of tomorrow's automation systems. Defensive measures include copy protection (making machines more difficult to replicate), know-how protection (protection against reverse engineering) and integrity protection (anti-tamper measures). So along with the organizational and legal measures required to ensure their survival, all companies need to implement effective technical preventive measures to protect their products."

## What has changed?

"We are seeing some major changes in industry requirements and expectations. The closed systems of the past are giving way to inter-linked configurations, which inherently carry a higher risk of third-party tampering. Integrity protection can also be very important from the economic perspective. A wind park operator could be tempted to 'tune' its wind turbines to generate five percent more energy, at the expense of increased wear and potential warranty claims against the manufacturer. Businesses also need robust protection for the know-how that is increasingly often embedded in integrated software, to retain their competitive advantage for as long as possible."

## What do you expect for the future?

"I believe that safety and security are inextricably linked. There is no safety without security. This and the increasing trend towards networking production plant with the cloud will require new approaches to product protection. Industry will also develop new business models, such as pay per use and feature on demand, in order to tailor their plant and machines to customers' needs. That will require machine-compatible licensing systems and integration into sales processes and ERP systems."

## What innovations will you be presenting in 2012?

"Over the last few years at Wibu-Systems we have been working on the development of industry-compatible protection solutions based on our more than 20 years of experience with desktop products. Our anti-product piracy solutions in the plant and mechanical engineering sector took 1st prize in the 2011 Baden-Württemberg Security Awards. At HANNOVER MESSE 2012 we will be displaying our new protection concepts and high-security protection hardware, which can be installed on a tiny USB stick, the CmStick/C, for example, and our CmCard product, which is available as a CF card, DS card and microSD card. Our latest solutions can easily be retrofitted in existing IPC systems and control systems, and meet the toughest requirements in terms of service life, temperature and humidity range, ESD resistance and long-term supply capability. Our CodeMeter solution combines software protection, know-how protection, protection against reverse engineering and integrity protection in a single system. The codes are either kept in a high-security location in the CodeMeter hardware, or in an encrypted file tied to a security feature of the target system, such as a TPM chip. We support a broad range of operating systems, for example the IEC61131 Soft-SPS system CoDeSys und Wind River's VxWorks realtime operating system."

## How is this issue viewed in China as this year's official HANNOVER MESSE Partner Country, and how are your solutions being put to use in that market?

"Chinese companies in particular are developing extremely quickly, and need advanced protection and licensing solutions. Our sales offices in Shanghai and Beijing advise and supply our Chinese customers and also international companies operating in China. Our CodeMeter product is widely used in the People's Republic for software protection and licensing requirements across all industrial sectors."

## Industrial IT Forum – Focus on optimized production and leaner processes

The ability to recognize new trends, keep their finger on the pulse and continuously improve production processes is an essential skill for technical decision-makers in businesses today. Industrial Automation gives companies the opportunity to find out about the latest customer-focused IT solutions for manufacturing operations. Following its successful debut last year, the Industrial IT Forum is back on the program in 2012. The event, which was created by the German Electrical and Electronic Manufacturers' Association (ZVEI) and is supported by the German Engineering Federation (VDMA), has already proven its worth as a valuable discussion platform for visitors and exhibitors alike.

Dr. Reinhard Hüppe, Head of Industry and Automation at the ZVEI, on the significance of industrial IT: "Recent years have seen a rapid increase in the importance of server- and net-based IT solutions for the automation sector, and this trend is ongoing. Fail-safety, efficiency and quality improvements, virtual production and, above all, IT security are the central issues that no production manager or technical decision-maker can afford to ignore. The Industrial IT Forum showcases research-based approaches and solutions developed by professionals, for professionals." Key topics at this year's forum include integration, planning/installation/maintenance, IT technology in production environments and IT security.

## Robotation Academy 2012: year-round platform for knowledge transfer, conferences and networking

The Robotation Academy, which will feature at HANNOVER MESSE 2012 as part of the Industrial Automation fair, is a year-round platform involving up to 20 permanent technology partners. Its purpose is to facilitate knowledge sharing across the entire range of automation and robotics topics. A selection of high-caliber experts use the Academy's varied program of conferences, workshops, training courses and seminars to cover a series of topical themes. Individual

modules address subjects such as "Robotics Basics" and a wide range of downstream topics – the perfect way for beginners to find out about the practical applications of robotics and automation. The Academy also provides professional development opportunities for employees who already use robots on a routine basis, and the chance to build new networks, for example, at the "Networking Robotics Conference," which will be held there on 8 March 2012.



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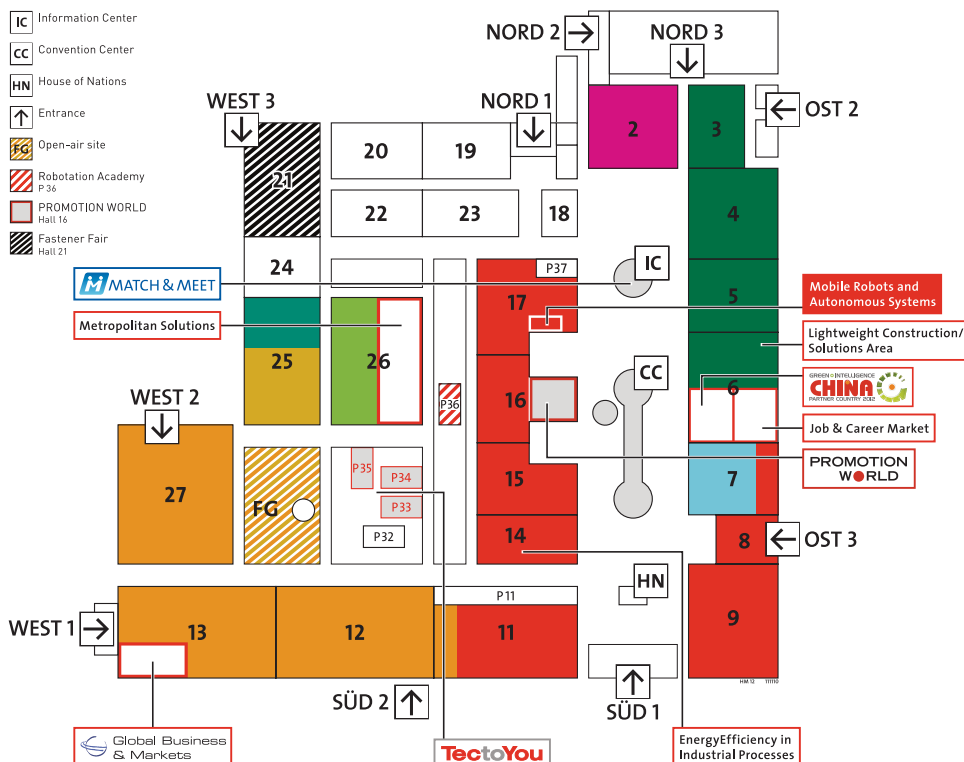
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## Map of the Exhibition Grounds

- Industrial Automation**  
Halls 7-9, 11, 14-17
- MobiliTec**  
Hall 25, FG
- Industrial Supply**  
Halls 3-6
- IndustrialGreenTec**  
Hall 26
- Energy**  
Halls 11-13, 27, FG
- Digital Factory**  
Hall 7
- CoilTechnica**  
Hall 25
- Research & Technology**  
Hall 2



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