

# EXPO HIGHLIGHTS



**SMART  
RAIL**  
CONGRESS &  
EXPO

**ASIA'S LARGEST RAIL  
AND METRO TECHNOLOGY EXHIBITION**  
26-27 November 2015, Bangkok, Thailand

## A15

### Shanghai SUYU Railway Material Co.,Ltd.



SUYU is a leading manufacturer of railway materials base in China. We manufacture all kind of railway fastening systems, including elastic clips, shoulders, insulator or angle guide plate, rail pads, screw spike, baseplate, etc. and rail joint materials like fishplate with jointing bolts, etc.. Which mainly are supplied for rails BS80A, BS100A, UIC54, UIC60.

## A17

### Jinzhou Tiegong Railway Maintenance Machinery Co.,Ltd.



Jinzhou Tiegong is a factory mechanically processing and manufacturing railway dedicated devices and testing-inspection equipment. Our main products have rail cutting machine, rail drilling machine, rail tensor, rail grinding machine, ballast tamping machine, bolt wrench, grinding wheel, drill bits and so on.

## B02

### Bombardier Transportation

**BOMBARDIER**  
the evolution of mobility

Bombardier Transportation offers the broadest portfolio in the rail industry and delivers innovative products and services that set new standards in sustainable mobility. Our division, Rail Control Solutions is a global leader in delivering state-of-the-art, safe rail control solutions. From high density mass transit systems to intercity, or long distance passenger and freight operations, from cross-border solutions to regional and low density industrial lines, Bombardier's highly proven signalling solutions have been installed in over 50 countries and are adaptable to suit all needs.

## B09

### Chakradhar Industries LLP



CIL is a welding solutions provider and specializes in Aluminothermic (AT) Rail Welding. We actively assist our clients with services, materials, machinery, and expert knowhow on AT Welding.

# B11

## Qinhuangdao City Shanhaiguan Gongwu Equipment Factory (GWQC)



"GWQC is the largest private manufacturer of railway turnout in China. The annually productivity is 5,500 sets of turnout, 18,000 pcs of switch rail, 9,000 pcs of solid manganese frog and 30,000 tons of accessories. GWQC can design and produce various of turnouts and accessories based on the clients' needs, such as the rail type 43Kg, 50Kg, 60Kg, 75Kg, 60 lb, 70 lb, 80 lb, BS80A/100A, BS60R/80R, UIC54, UIC60, ASCE60, ASCE70 From 1:3 to 1:18 simple turnout, scissors crossover turnout, double slip switch turnout etc."

# B12

## Kontron



"Kontron, a global leader in embedded computing technology and trusted advisor in IoT, works closely with its customers, allowing them to focus on their core competencies by offering a complete and integrated portfolio of hardware, software and services designed to help them make the most of their applications. With a significant percentage of employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms; bringing to life numerous technologies and applications that touch millions of lives. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading-edge, highest reliability embedded technology."

Kontron is a listed company. Its shares are traded in the Prime Standard segment of the Frankfurt Stock Exchange and on other exchanges under the symbol "KBC".

# C02

## AMR Asia Co.,Ltd.



AMR Asia specializes in IT, Telecommunication; Voice, Video and Data Communications; Transmission; SCADA; Electronics; Computer Network and Security Systems. We provide Total Systems Solutions as well as Turn-key Solutions including: system design, equipment supply, installation services, maintenance services and consulting services. AMR Asia is flexible enough to provide any combination of these services suit the needs of our customers.

# C3

## FLIR



FLIR Systems, a worldwide leader in thermal imaging cameras, has been active for many years in the security and transportation markets. FLIR thermal cameras can detect obstacles or pedestrians by providing a clear image in any lighting condition, day or night. FLIR video smoke detection can save lives and infrastructure in trains or on platforms by detecting smoke within 10 to 60 seconds. FLIR solutions can be deployed to ensure safety at unguarded railway crossings, metro, tramway, train tunnels and platforms, waterways,

# C05



## Rohill

Rohill is a Dutch manufacturer of mission-critical TETRA communication infrastructure and control room applications with over 40 years experience. Rohill has full technology ownership and develops all software and hardware in-house allowing Rohill to lead the market on Total Cost of Ownership (TCO) and to offer a wide range of customer-specific solutions. Rohill's next-generation TetraNode solution supports a multi-vendor environment and is IOP tested, which guarantees that clients are free to choose any terminal in the market. Rohill guarantees interoperability to their clients to ensure the lowest TCO and long-term security in a changing marketplace. In addition, Rohill works closely with professional, often local, system integrators and value-adding resellers, providing the extra mile in ensuring quality services.

# C06



## Prover Technology

"Aviation, trucking and cars bring oil dependence and pollution. Trains are faster, more economical, safer and greener. At Prover Technology, we are committed to doing our part. We supply solutions for engineering the safety critical systems that control trains, signals and switches.

Our PiSPEC™ and Prover iLock™ solutions are used to specify, code, simulate and formally verify a wide variety of systems, including interlocking, CBTC, ERTMS, ATP and PTC. We also provide the software IP and training needed to enable our customers to meet strict certification requirements at reasonable cost."

# C18



## Axiomtek Co.,Ltd.

Axiomtek is one of the world's leading designers and manufacturers of PC-based industrial computer products. From our roots as a turnkey systems integrator specializing in data acquisition and control systems, Axiomtek has mirrored the PC evolution in various industries by shifting our focus toward the design and manufacture of PC-based industrial automation solutions. Axiomtek established in 1990, has more than 60 distributor partners globally. Axiomtek offers Industrial PCs (IPC), Embedded Computing Platforms (ECP), Rugged Embedded System (tBOX, rBOX and eBOX), Touch Panel Computers (TPC), Medical PCs (MPC), Human Machine Interface (HMI), Digital Signage Solution (DS), and Network Appliances (NA).

# C19



## EDA International

"EDA International Ltd. is a specialist in Automation and Control Systems. Our policy is to create customer satisfaction by helping the customers for the best solution supporting, verifying, projects planning and correcting. With more than 15 years experiences we are a one stop service of engineering and automation & control solution. At the same time, we are also the distributors of well known automation & control products. Leading products brand such as ICONICs , Graph On, ABB , M-system , PR Electronics , Smiths Power Group , Brodersen , etc."

# C22



## PRQA | PROGRAMMING RESEARCH

Established in 1985, PRQA, ISO 9001 and TickIT certified, is recognised throughout the industry as a pioneer in static analysis, championing automated coding standard inspection and defect detection, delivering its expertise through industry-leading software inspection and standards enforcement technology.

PRQA's industry-leading tools, QA-C, QA-C++ and QA-Verify, offer the closest possible examination of C and C++ code. All contain powerful, proprietary parsing engines combined with deep accurate dataflow which deliver high fidelity language analysis and comprehension. They identify problems caused by language usage that is dangerous, overly complex, non-portable or difficult to maintain. Plus, they provide a mechanism for coding standard enforcement.

PRQA has corporate offices in UK, USA, India, Ireland and Netherlands, complemented by a worldwide distribution network.



D02

## East Japan Railway Company (JR East)



"East Japan Railway Company (JR East) is the largest passenger railway company in Japan. JR East covers the eastern half of Honshu island, which includes Tokyo metropolitan area. We provide transportation services via our Shinkansen network, which connects Tokyo with regional cities in five directions, as well as conventional lines in Kanto area and other networks. Our networks combine to cover 7,458.2 km and provide safe and reliable transport services for 17 million passengers daily.

In addition to railway business, JR East Group operates a range of businesses, the railway-related business in our stations, IT & Suica business and railcar manufacturing business."

D04

## Schneider Electric

Life Is On



Schneider Electric is the global specialist in energy management and automation. With revenues of €25 billion in FY2014, our 170,000 employees serve customers in over 100 countries, helping them to manage their energy and process in ways that are safe, reliable, efficient and sustainable. From the simplest of switches to complex operational systems, our technology, software and services improve the way our customers manage and automate their operations. Our connected technologies will reshape industries, transform cities and enrich lives.

D10

## LSIS



As a global railway system provider uncompromising for Customer's safety, LSIS has a wide range of experiences in Korea. Regarding the Automatic Train Control system in the field of High Speed Railway market, LSIS firstly implemented in section 1 (Seoul-Daegu) and section 2 (Daegu-Busan) of Gyeongbu High Speed Railway project. Subsequently, LSIS was awarded the Honam High Speed Railway (Osong-Gwangju) section in 2012. In addition, LSIS formed a consortium with foreign railway rolling stock manufacturers to install Korea's first unmanned light rail transit system at Incheon International Airport. In overseas market, LSIS has a broad range of references by delivering railway signalling and telecommunication systems such as Centralised Traffic Control and Electronic Interlocking System on a turnkey basis including design, supply, installation, testing and commissioning in Thailand, Bangladesh and Taiwan.

G10

## Voestalpine



ONE STEP AHEAD.

voestalpine VAE (the global market leader in turnout systems solutions) and voestalpine Schienen (the European rail market leader and among the largest producers of heat-treated premium rails worldwide) offer outstanding track solutions for all kind of applications and transportation segments. The combination of premium rails, turnout systems including signalling solutions and services around the total product lifecycle maximize track availability and make rail infrastructure providers more successful in the operation of their networks. Several production and sales locations in Asia as part of our global networks maximise customer proximity and guarantee knowledge of local demand and conditions. voestalpine – One step ahead

G25

## Maurer AG



MAURER

"The MAURER Group is a leading specialist in mechanical engineering and steel construction with over 1,000 employees worldwide. The company is the market leader in the areas of structural protection systems, (bridge bearings, expansion joints, seismic devices). It also develops and produces professional roller coasters and Ferris wheels as well as special structures in steelwork.

Among the most notable large projects are the entire technological bridging equipment for the Russky Bridge in Wladiwostok, the world's largest cable-stayed bridge. When it comes to steelwork, our showpieces include the BMW World and Munich's Airport Terminal 2."

# ASEAN RAIL SUMMIT



## ASIA'S LARGEST RAIL AND METRO TECHNOLOGY EXHIBITION

### 26<sup>th</sup> November

09:20	<p><b>Official SmartRail Asia Exhibition Opening Addresses</b> The region's largest rail technology show will be inaugurated by the exhibition supporters and Government officials</p> <p>Arkhom Termpittayapaisith, Minister of Transport, Thailand Ministry of Transport   Rajawongse Sukhumbhand Paribatra, Governor Bangkok, BMA   Peerayudh Singpatanaku   Governor, MRTA   State Railway of Thailand   Bangkok Metro Public Co.,Ltd   SRT Electrified Train   Bangkok Mass Transit System Public Co.,Ltd   Office of Transport and Traffic Policy &amp; Planning</p>
10:00	<p><b>Exhibition ribbon cutting</b></p>
	<p><b>ASEAN Rail Summit</b> The ASEAN rail summit invites senior experts, Government and leading railways and metros to join the SmartRail Asia sponsors for two days of C level keynotes panels and sponsor led private wokshops.</p> <p><b>Open Session Morning Plenary: Investment and development</b> There is over \$93 billion worth of planned investment in ASEAN rail and metro technology and infrastructure. This session is open to all attendees and looks at financing and investment strategies for new projects as well as upgrades to the existing network. With capital expenditure increasing in the region, uncover best practice to finance projects successfully and collaborate to ensure solid investment and ASEAN wide network growth.</p>
10:15	<p><b>Session Moderator Introduction: Funding and delivering rail projects. Oliver Redrup, Director, PwC</b></p>
10:25	<p>Investment and development to meet the needs of a growing Thailand infrastructure <b>Arkhom Termpittayapaisith, Minister of Transport, Thailand Ministry of Transport</b></p>
10:40	<p>Investing in transport infrastructure successfully <b>Azmi Abdul Aziz, Group Managing Director, Prasarana Malaysia Behad</b></p>
10:55	<p>Developing and investing in Global rail to ensure intelligent mobility <b>Catapult</b></p>
11:10 -11:45	<p><b>Expert panel: Investing in transport systems and development plans</b> Oliver Redrup, Director, PwC   Arkhom Termpittay apaisith, Minister of Transport, Thailand Ministry of Transport   Azmi Abdul Aziz, Group Managing Director, Prasarana Malaysia Behad   Peerayudh Singpatanaku, Governor, MRTA   Rajawongse Sukhumbhand Paribatra, Governor Bangkok, BMA   Office of Transport and Traffic Policy &amp; Planning   Catapult</p>
12:00 -13:00	<p>Sponsor Workshop : <b>Prover Technology</b> <b>Arne Borlav. CEO President, Prover Technology</b></p>
13:10 -14:10	<p><b>Expert Interactive Discussion: Developing rail networks and modernising systems</b> Session Moderator: Joffrey Lauthier, Head of Sales, Asia Pacific, Bombardier Transportation</p> <p>Introductory presentation: Developing and modernising rail networks   John Guiry, CEO, Toll, Cambodia Railway</p> <p>An open discussion with our expert panel on development plans for emarging rail networks and key upcoming projects John Guiry, CEO, Toll, Cambodia Railway   Vinod Bhatia, Director Planning, Ministry of Railways India   Myanmar Railway   Vietnam Railway   Lao Railway Authority   KAI Indonesian Railways (Kereta API)   State Railway of Thailand   SRT Electrified Train</p>
	<p><b>Plenary session: Project Planning and Delivery</b> There are over 6,737 km of upcoming rail projects planned &amp; announced throughout the region. With large investment taking place to build the connected ASEAN rail network of tomorrow, project management of these greefield and brownfield projects is key to enable succesful delivery on time &amp; at cost. This session highlights how collaboration can ensure not only a connected Asian rail netwok but also, one that connects the ASEAN community to the rest of the world. Session Moderator: TC Chew, Managing Director, Chew Transit Consultancy Limited</p>
14:30	<p><b>Implenting rail and metro projects successfully on time and on budget</b> CC Chang, Commissioner, Taiwan Railway Supervision Task Force, Ministry of Transportation and Communication R.O.C</p>
14:45	<p><b>Effective project management to ensure long term success</b> Melvyn Thong, Director Rail Services, Land Transport Authority</p>
15:00	<p><b>Successful Engagement of stakeholders in effective delivery of network upgrades</b> Sudath Amaratunga, Manager Alliances, Sydney Light Rail, Transport for NSW</p>

15:15	<b>A collaborative approach to project planning and project delivery</b> Reserved for <b>Mitsubishi</b>
15:30 -16:10	<b>Expert Panel: Effective project management to upgrade networks</b> State Railway of Thailand Reserved for Mitsubishi CC Chang, Commissioner, Taiwan Railway Supervision Task Force, Ministry of Transportation and Communication R.O.C Melvyn Thong, Director Rail Services, Land Transport Authority Sudath Amaratunga, Manager Alliances, Sydney Light Rail, Transport for NSW Bangkok Metro Public Co, Ltd Prof. Chae, IlKwon, Advisor, South Korean Ministry of Land, Infrastructure and Transport Dr Chaisak Srisethanil, Project and Engineering Director, BTS
16:30 -17:30	<b>Closed Session: SmartRail Government and State Authority Working Group:</b> This closed, invitation only workshop will invite senior executives from Government, state authorities and research bodies to discuss the ongoing rail developments. The discussions will be confidential and all invited participants will receive: •Free networking lunch •Full show guide and guided exhibition tour •Invitation to the drinks reception •Subscription to SmartRail Ebooks <b>Confirmed to take part:</b> CC Chang, Commissioner, Taiwan Railway Supervision Task Force, Ministry of Transportation and Communication R.O.C   Sudath Amaratunga, Manager Alliances, Sydney Light Rail, Transport for NSW   Prof. Chae, IlKwon, Advisor, South Korean Ministry of Land, Infrastructure and Transport   Vinod Bhatia, Director Planning, Ministry of Railways India   Arkhom Termittayapaisith, Minister of Transport, Thailand Ministry of Transport   Rajawongse Sukhumbhand Paribatra, Governor Bangkok, BMA   Office of Transport and Traffic Policy & Planning   Mass Rapid Transit Authority of Thailand

## 27<sup>th</sup> November

### Open Session Morning Plenary: Project operations

With \$93 billion being spent across nearly 7,000 km of rail network, it is not only crucial that the projects are carried out on time and on budget, but that long term operations are safe, effective and scalable. This session highlights how can technology and asset management can ensure a reliable service that meets growing capacity requirements, reduces cost and enhances lifecycle. **Session Moderator:** TC Chew, Managing Director, Chew Transit Consultancy Limited

10:00	<b>Using effective asset management systems to improve long term reliability of operation and reduce cost</b> Richard Wong, Principal fellow of Systems, SMRT   Mario Albert Favais, Senior Vice President Engineering, SMRT
10:20	<b>Managing assets and revenue to ensure long term success</b> Rommel Gavieta, Vice President, Manila Metro Rail Transit System
10:40	<b>Meeting challenges of carrying 100 Million commuters in first 400 days of Mumbai Metro Line</b> Abhay Mishra, CEO, Mumbai Metro One
11:00	<b>Operating reliably and increasing scale</b> Somprasong Suttayamully, Director Technical Division, Mass Rapid Transport Authority of Thailand
11:20	<b>Ensuring effective operations for the passenger</b> Noormah Mohd Noor, CEO, Express Rail Link (KLIA Ekspres and KLIA Transit)
11:20 -12:00	<b>Expert Panel: Ensuring reliable, safe and low cost operations</b> Richard Wong, Principal fellow of Systems, SMRT   Rommel Gavieta, Vice President, Manila Metro Rail Transit System   Somprasong Suttayamully, Director Technical Division, Mass Rapid Transport Authority of Thailand   Noormah Mohd Noor, CEO, Express Rail Link (KLIA Ekspres and KLIA Transit)   TC Chew, Managing Director, Chew Transit Consultancy Limited   Abhay Mishra, CEO, Mumbai Metro One   Mario Albert Favais, Senior Vice President Engineering, SMRT
12:30 -13:30	<b>Sponsor Workshop: Bombardier Transportation</b> Joffrey Lauthier, Head of Sales, Asia Pacific, Bombardier Transportation
14:00 -15:00	<b>Closed Session: SmartRail Metro Operator Working Group</b> This closed, invitation only workshop will invite senior executives from metro operators to discuss the ongoing rail developments. The discussions will be confidential and all invited participants will receive: • Free networking lunch • Full show guide and guided exhibition tour • Invitation to the drinks reception • Subscription to SmartRail Ebooks <b>Confirmed to take part:</b> Sim Wee Meng, Senior Group Director, Rail, Land Transport Authority   Melvyn Thong, Director Rail Services, Land Transport Authority   Richard Wong, Principal fellow of Systems, SMRT   Azmi Abdul Aziz, Group Managing Director, Prasarana Malaysia Behad   Mario Albert Favais, Senior Vice President Engineering, SMRT   Rommel Gavieta, Vice President, Manila Metro Rail Transit System   Abhay Mishra, CEO, Mumbai Metro One   Dr Chaisak Srisethanil, Project and Engineering Director, BTS   Bangkok Metro Public Co, Ltd   Bangkok Mass Transit System Public Co. Ltd   Sanjeev Sharma, Head of Systems, Hyderabad Metro
15:30 -16:30	<b>Closed Session: SmartRail Rail Operator Working Group</b> This closed, invitation only workshop will invite senior executives from rail operators to discuss the ongoing rail developments. The discussions will be confidential and all invited participants will receive: • Free networking lunch • Full show guide and guided exhibition tour • Invitation to the drinks reception • Subscription to SmartRail Ebooks <b>Confirmed to take part:</b> John Guiry, CEO, Toll, Cambodia Railway   Punit Agrawal, Chief Project Manager, Dedicated Freight Corridor Corporation of India Limited   Prof. Chae, IlKwon, Advisor, South Korean Ministry of Land, Infrastructure and Transport   State Railway of Thailand   Myanmar Railway   Vietnam Railway   Lao Railway Authority   SRT Electrified Train   KAI Indonesian Railways (Kereta API)
16:45	<b>End of SmartRail Asia</b>

# SMARTRAIL SEMINAR

## 26<sup>th</sup> November

**09:30** **Official SmartRail Asia Exhibition Opening Addresses**  
The region's largest rail technology show will be inaugurated by the exhibition supporters and Government officials

### Exhibition ribbon cutting

**10:00** **SmartRail Theatre**  
The SmartRail theatre is completely free to attend and features key case studies and lessons learned from the region's key projects, alongside exclusive product launches and innovation sessions from the shows cutting edge exhibitors.

**14:45** **Opening Moderator Presentation: Developing a competitive rail network** Andrea Giuricin, Managing Director, CRIET

### Engineering & Construction

**12:10** **Building and extending modern and reliable railway services in Japan** : East Japan Railway Company

**12:30** **Engineering new systems for public transportation** : Reserved for Mitsubishi

**12:50** **How to intergate rail networks with other transport mode for HSR in Korea**  
Prof. Chae, IlKwon, Advisor, South Korean Ministry of Land, Infrastructure and Transport

### Signalling and Telecoms

**13:10** **Upgrading conventional lines to ERTMS level 3**  
• improving safety through automatic train protection • increasing capacity thanks to moving block operations  
• reducing OPEX with radio-based signalling Moa Svensson Senior Expert, Vehicle & System Integration, Bombardier Transportation

**13:30** **Cetrification for rail technology Arne Boralv. CEO President, Prover Technology**

**13:50** **Integrating systems for better performance Sanjeev Sharma, Head of Systems, Hyderabad Metro**

### IT & Asset Management

**16:00** **Integrated Command & Control Software for Smart Rail Network** : Dr Habib Rehman, Director, Asia Pacific, Iconics

**16:30** **MEN MIKRO**

**16:50** **Axiomtek**

## 27<sup>th</sup> November

### Project Upgrades

**12:00** **Improving light rail systems in Asia: new vehicle, traction power, and train control technologies**  
introducing low-floor tramways for better urban integration and faster mode transfersboosting safety and aesthetic with catenary-free operationsdeveloping fast, high-frequency feeder to metro lines while optimising rolling stock investments  
Joffrey Lauthier, Head of Sales, Asia Pacific, Bombardier Transportation

**12:20** **The impact of IT to enhance control, improve passenger engagement and reduce cost** : James Toh, Sales Director, Kontron

**12:40** **Mission Critical Communication integration in rail projects** : Mario Schouten, Regional Sales Director, Rohill

### Rolling Stock

**13:30** **Developing advanced Rolling Stock** : Reserved for Mitsubishi

**13:50** **Developing modern rolling stock for a growing Rail Network** : East Japan Railway Company

**14:10** **Reserved for exhibitor**

### Control, Safety and Security

**15:00** **LSIS**

**15:20** **FLIR**

**15:40** **Schneider Electric**

# Come and Meet us at SmartRail Asia 2015

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the evolution of mobility

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JR-EAST

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and many more... !!

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**ASIA'S LARGEST RAIL  
AND METRO TECHNOLOGY  
EXHIBITION**

**24-26 NOVEMBER**

**2016**

**Bangkok, Thailand**

[www.SmartRailAsia.com](http://www.SmartRailAsia.com)



4TH ANNUAL SHOW



# SMART RAIL

CONGRESS & EXPO

**ASEAN RISING**  
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# 26-27 NOVEMBER 2015

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