



IN COORDINATION WITH

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Indonesia Infrastructure Week 2016  
bringing together Indonesia's Infrastructure markets  
9-11 NOVEMBER 2016 | JAKARTA CONVENTION CENTER

AS Per 2 November 2016

# EXPO COMM<sup>TM</sup> INDONESIA 2016

BROADBAND – CYBER SECURITY – SMART CITY INFRASTRUCTURE

9<sup>th</sup>-11<sup>th</sup> NOV 2016 | JAKARTA CONVENTION CENTER

EXTENDING BROADBAND ROLLOUT  
TO ENABLE THE DELIVERY OF  
SECURE DIGITAL SERVICES AND  
SMART TECHNOLOGIES

HELD IN CONJUNCTION WITH

## ASEAN G2B INFRASTRUCTURE INVESTMENT FORUM

8<sup>th</sup> NOVEMBER 2016 | SHANGRI-LA HOTEL, JAKARTA

IIW OFFICIAL  
SMART INFRASTRUCTURE PARTNER



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INFRASTRUCTURE



CONSTRUCTION



AIRPORT



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## THE EXPO COMM CONFERENCE

This year's conference will examine the opportunities presented to the infrastructure sector by the use of smart technologies. In order to meet the challenge of urban growth and to create sustainable cities, Governments – both local and national – are increasingly considering the use of smart technologies to deliver better city infrastructure.

The broadband rollout currently being implemented across Indonesia, along with the delivery of 4G and 5G (from 2020) networks can be major enablers of increased smart technology usage. They present an enormous opportunity to city planners to incorporate smart technology in urban infrastructure design, which will herald the arrival of the smart city revolution across Indonesia.

## INDONESIA INFRASTRUCTURE WEEK 2016

In 2015, IIW - Indonesia Infrastructure Week – brought together under one roof more than 13,500 leading infrastructure stakeholders, including 288 exhibiting companies and 969 conference delegates, to discuss, plan and deliver against the Indonesian national infrastructure agenda.

With over US \$450bn earmarked by the government for infrastructure development over the next 5 years, the Indonesian market offers a rich pool of opportunity for infrastructure players to access major development projects, as the country accelerates its plans for delivering on national infrastructure from roads to rail and ports to airports as well as energy, water and industrial zones.

The five separate exhibitions at IIW focus on airports, communications, infrastructure, heavy construction and commercial & residential building, each with its own individual conference stream focusing on major topics relevant to the sector. These two-day senior level business conferences will gather key industry professionals, government policy makers, investors, lawyers, consultants, and key stakeholders to discuss the very latest opportunities and challenges for their industry.

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## OFFICIAL OPENING CEREMONY

**Wednesday, 9th November 2016**

- 09.10 – 09.20 **Rosan P. Roeslani**, Chairman of Indonesian Chamber of Commerce & Industry
- 09.20 – 09.30 **Thomas Lembong**, Chairman of Investment Coordinating Board RI
- 09.30 – 09.40 **Rudiantara**, Minister of Communication and Information Technology RI
- 09.40 – 09.50 **Basuki Hadimuljono**, Minister of Public Works and Housing RI
- 09.50 – 10.00 **Bambang Brodjonegoro**, Minister of National Development Planning RI
- 10.00 – 10.20 HE. H. Ir. **Joko Widodo**, President of the Republic of Indonesia\*
- 10.10 – 11.00 VIP Exhibition Walkthrough

## PROGRAMME AT A GLANCE

### Day 1 - Wednesday, 9 November 2016

- 13.00 Session 1 : ASEAN keynote on Connectivity The ASEAN ICT Masterplan 2015 and its role in delivering increased ICT access and encouraging take up and usage
- 15.00 Coffee Break
- 15.30 Session 2 : Harnessing the benefits of Indonesia's broadband rollout of 4G and 5G networks to provide smart services and increase economic growth
- 17.00 End of Day 1

### Day 2 - Thursday, 10 November 2016

- 09.30 Session 3 : Using the extension of the Broadband network to deliver new ICT services
- 11.00 Coffee Break
- 11.30 Session 4 : The power of Big Data and cloud services and their value to business
- 13.00 Lunch
- 14.00 Session 5 : How smart societies and a digital economy drive economic development and improve urban living
- 15.30 Session 6 : The increasing role for innovation and smart technology in delivering sustainable city transport and energy solutions
- 17.00 End of Day 2

### Day 3 - Friday, 11 November 2016

#### **Protecting Indonesia's Critical National Infrastructure (CNI) from Cyber Security Attacks**

##### **Educating those responsible for CNI security and building awareness of the potential threat**

The 3rd day of the Expo Comm Conference will examine the issue of **cyber security** and how to protect both broadband network and critical national infrastructure from cyber threats and hacking. Preventing cyber threats is a major global challenge and Indonesia has its part to play in incorporating the latest security features and technologies that will make networks safe for users.

## | CRITICAL ISSUES TO BE ADDRESSED AND DEBATED :

The Expo Comm Indonesia conference will cover all aspects of the development and future of smart cities, exploring the ecosystem in which smart cities are constructed as well as the social and societal requirements needed for their successful rollout.

- Critical success factors in the creation of smart cities
- The role that ICT plays in the transformation to low-carbon cities of the future.
- How smart societies and a digital economy can change urban commerce and living
- Intelligent transport systems and traffic management
- Smart grids for sustainable power supply and energy saving
- The benefits of broadband rollout & the rapid growth of ICT infrastructure
- Supporting the development of national OTT services
- Using IoT technologies to enhance and improve city infrastructures
- Government initiatives to push fibre and 4G coverage nationwide

**Day 1 - Wednesday**

9 November 2016

**Session 1: 13.00 – 15.00**

Venue: Merak 2, Lower Lobby, JCC

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## **ASEAN KEYNOTE ON CONNECTIVITY: The ASEAN ICT Masterplan 2015 and its role in delivering increased ICT access and encouraging take up and usage**

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- Towards an Empowering and Transformational ICT
- What have been the achievements to date of ASEAN co-operation in the ICT sector?
- Bridging the digital divide
- Working collaboratively to maximise ICT access and adoption across ASEAN
- ICT as a key driver of economic and social transformation

Governments, both national and local, as well as critical service providers consider infrastructure networks as individual and unrelated, so much global infrastructure operates in isolation. This leads to resource inefficiencies and operational risks. Creating integrated infrastructure networks allows better management of limited resources brings greater synergy.

Traction towards sustainable cities is gathering speed and the development of city infrastructure requires a new way of thinking on the part of government, business and the public. Successful integration of automation and control systems, smart devices and data analytics across physical infrastructure within smart cities presents enormous opportunity. Smart Integrated Infrastructure offers the change to more effectively managing the power, water and telecom networks that impact urban living each day.

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### **Moderator:**

Ilham Habibie, Chairman - National ICT Council (WanTIKnas)

### **Speakers:**

- HE Rudiantara, Minister of Communication and Information Technology RI
- Mike Sicilia, Senior Vice President & General Manager, Oracle Construction & Engineering
- Merza Fachys, Chairman - Association of Indonesian Telecommunication Providers (ATSI)
- Alex Janangkih Sinaga, President Director – PT Telekomunikasi Indonesia Tbk
- Alexander Rusli, President Director – PT Indosat Ooredoo Tbk

**Discussion and Q&A**

**Coffee Break**

**Day 1 - Wednesday**

9 November 2016

**Session 2: 15.30 – 17.00**

Venue: Merak 2, Lower Lobby, JCC

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## **Harnessing the benefits of Indonesia's broadband rollout of 4G and 5G networks to provide smart services and increase economic growth**

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- Delivering ICT connectivity throughout the country in a cyber secure environment
- Government initiatives to push fibre and 4G coverage nationwide
- Recognising the positive effects of regulatory change and operator restructuring
- What have been the achievements to date of the Indonesia Broadband Plan?
- Liberalising the sector and sharing the network to speed up broadband rollout
- Building in a more efficient way, sharing the spectrum and increasing health competition to meet the increasing demand for data
- Devising a pricing mechanism for network sharing
- Getting Indonesia ready for launch of a 5G network in 2020
- Digital services in Indonesia – is the ecosystem ready yet?

Delivering complete 4G coverage with the possibility of 5G by the year 2020, will put Indonesia at the forefront of the ICT revolution, but these services have to be delivered securely. Increased connectivity throughout the country, within a cyber-secure environment is a key objective.

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### **Moderator:**

Henri Kasyfi Soemartono, Secretary general of Indonesia Internet Service Provider Association (APJII)

### **Speakers:**

- Ismail, Director General of Post and Telecommunication, Ministry of Communication and Information Technology
- Eddy Satriya, Assistant Deputy for Telematics and Utilities – Coordinating Ministry for Economic Affairs
- Ririek Adriansyah, CEO PT Telkomsel
- Wong Tjin Tak, Managing Director – Communication, Media & Technology Lead, Accenture Indonesia
- David Fernando Audy, President Director of PT Media Nusantara Citra Tbk

### **Discussion and Q&A**

End of Day 1

**Day 2 - Thursday**  
10 November 2016

**Session 3: 09.30 – 11.00**  
Venue: Merak 2, Lower Lobby, JCC

## Using the extension of the Broadband network to deliver new ICT services

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### **Building an Internet of Things (IoT) network**

- Is Indonesia set to connect to IoT?
- Recognising the opportunities presented by high mobile penetration and increasing mobile connectivity as enablers of IoT development
- Effective collection, management and exchange of data
- Using IoT technologies to enhance and improve city infrastructures

### **Delivery of Over The Top (OTT) services**

- Reviewing the licensing framework for OTT service providers.
- The OTT Services regulation
- Creating a level playing field for international and locally owned OTT players
- Obligations for OTT service providers – ensuring compliance with the regulation
- Supporting the development of national OTT services to encourage the growth of telecommunication and information industries and boost the economy.

The broadband rollout currently taking shape across the Indonesian archipelago presents a big opportunity for offering additional smart services that will push Indonesia further along the road towards a fully digital economy.

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#### **Moderator:**

- Onno W. Purbo, Expert in ICT and Broadband

#### **Speakers:**

- Hammam Riza, Deputy Chairman for ICT - Agency for the Assessment and Application of Technology (BPPT)
- Samuel A. Pangerapan, Director General for Informatics Applications, Ministry of Communication and Information Technology\*
- Rama Raditya, Founder and CEO Qlue
- Mochammad Arfan, CEO PT Dunia Catfish Kreatif Media
- Sama Nwana, Executive Director of the Dynamic Spectrum Alliance, Founder and Director at Atlantic Telecoms and Media

Discussion and Q&A

Coffee Break

**Day 2 - Thursday**

10 November 2016

**Session 4: 11.30 – 13.00**

Venue: Merak 2, Lower Lobby, JCC

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## **The power of Big Data and cloud services and their value to business**

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- The technology revolution leading to a business revolution
  - Managing effectively the large volumes of data generated
  - Big data as an enabler of business insights
  - The economics of services
  - Developing a clear competitive advantage with Big Data
  - Using cloud services to gain insight into business and operational environments
  - Gaining coherence and economies of scale from cloud computing
  - Convergence between the Internet of things, Big Data and Cloud Analytics
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### **Moderator:**

Rudi Rusdiah, Chairman, Indonesian Big Data Community – Komit.id

### **Speakers:**

- Donny B. U, Founder of Indonesian ICT Watch
- Fajar Muharandy, Chief Solution Architect of Teradata Indonesia
- Sutedjo Tjahjadi, Managing Director, PT Datacomm Diangraha
- Komang Aryasa, Deputy Research and Big Data, PT Telkom Indonesia
- Kenny Sng, Staff Solution Architect, Industry Solutions Group, Intel

**Discussion and Q&A**

**Lunch Break**

**Day 2 - Thursday**

10 November 2016

**Session 5: 14.00 – 15.30**

Venue: Merak 2, Lower Lobby, JCC

## **How smart societies and a digital economy drive economic development and improve urban living**

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- The drivers of smart cities: managing rapid urban growth
- Making the case for smart cities and smart solutions
- Designing sustainable city infrastructure
- Using smart city concepts to enhance the performance and interactivity of urban services
- Reducing costs and resource consumption
- Improving communication channels
- Service innovation and design to support smart cities
- Safety, security and privacy in smart cities
- Integrated smart city management

Population growth across Indonesia combined with the trend of moving from rural to urban living, presents a major challenge for government planners. Indonesia has 27 cities with populations in excess on half a million residents, which are growing fast and are facing critical challenges in the field of energy, transport, water, waste and housing. Governments, cities, companies and individuals need to embrace the principles of smart cities to deal with these major challenges.

If cities are to become sustainable and 'liveable', planners and builders of city infrastructure need to look at the opportunities presented by technology to meet the challenge and ensure city infrastructure works for the benefit of the city's inhabitants. Smart integrated infrastructure offers the chance to better manage the power, water and telecom networks that impact urban living.

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### **Moderator:**

Suhono Supangkat, Professor – Bandung Institute of Technology

### **Speakers:**

- Azhar Hasyim, Director E-business APTIKA - Ministry of Communication and Information Technology RI
- Hari Sungkari, Deputy 3 (Deputy of Infrastructure) of the Indonesian Creative Economy Agency
- Lukman Adjam, Chairman of Association of Telecommunication Network Organizer (APJATEL)
- Setiaji, Head of Jakarta Smart City
- Harry K. Nugraha, Rest of Asia Director (acting), Regional Sales Group, APJ, Intel Country Manager, Intel Indonesia
- Tony Keusgen, Country Director - Google Indonesia

**Discussion and Q&A**

**Coffee Break**

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## **The increasing role for innovation and smart technology in delivering sustainable city transport and energy solutions**

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### **Smart transport**

- Reform of urban transit – what are the public transit priorities?
- What is the business value of intelligent transport mobility?
- Increasing transportation safety, efficiency and quality of service
- Improving traffic management with real time information
- Smart ticketing, transport tracking and information gathering
- GO-JEK: a pioneer in smart transportation?

### **Smart Energy**

- Satisfying the energy needs of a complex society using smart concepts to transform power hungry urban centres into low-carbon cities of the future
- Using smart city concepts to overcome the challenges of climate change, population growth, demographic change, urbanisation and resource depletion
- Combining sustainable energy solutions with operational efficiency, reliability and stability
- Encouraging energy savings and efficiency on an ongoing basis
- Smart energy measurement, smart connections and smart storage

According to the World Economic Forum, the reform of urban mobility remains one of the biggest challenges confronting policy makers around the world. The social, economic and environmental costs of congestion are profound and impact on global GDP. In congested cities, smart mobility systems are compelling and city leaders are increasingly recognising the role of smart technologies in delivering sustainable transport networks.

Additionally, Indonesia needs to develop smart cities, to control energy cost and usage and meet requirements for a more sustainable city environment. The critical infrastructure delivering power and water is complex and new technology can significantly improve performance and feedback data to better manage and maintain it. Creating low-carbon cities is a major global challenge to be addressed.

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### **Moderator:**

Garuda Sugardo, Executive Team - National ICT Council (WanTIKnas)

### **Speakers:**

- Pudji Hartanto Iskandar, Director General for Land Transportation – Ministry of Transportation\*
- Bima Arya Sugiarto, Mayor of Bogor City
- Sutanto Soehodho, Deputy Governor for Trade, Industry and Transportation, DKI Jakarta
- Sarimun Hadisaputra, Executive Director Association of Indonesian Municipalities (APEKSI)
- Igtiander Purba, Head of Digital Grid, Siemens
- Kenny Sng, Staff Solution Architect, Industry Solutions Group, Intel

End of Day 2

## **Day 3 - Friday**

11 November 2016 Venue:  
Merak 2, Lower Lobby, JCC

# **Cyber Security Forum: Protecting Indonesia's Critical National Infrastructure (CNI) from Cyber Security Attacks**

## **Session 1: 09.00 – 09.45**

### **The current cyber security landscape within the Critical National Infrastructure (CNI) sector**

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- The unique challenge presented by the connectivity of CNI control systems
- Recognising the essential necessity of protecting CNI from cyber threats
- Ensuring CNI systems are adequately protected - the scale of the challenge facing Government, SOEs and organisations that manage CNI
- Who are the perpetrators of cyber attacks against CNI?

#### **Moderator:**

Jamalul Izza, Chairman of Indonesia Internet Service Provider Association (APJII)

#### **Speakers:**

- Dr. H. Wiranto H, Coordinator Minister for Political, Legal and Security Affairs\*
- Dr. Djoko Setiadi, M.Si, Head of State Cryptography Agency (LEMSANEG)
- Rudi Rusdiah, Head of Industrial and Manufacturing, Indonesia ICT Society (MASTEL)
- Ivan Goh, CEO and Co-Founder of ARIM Technologies
- Letjen TNI M.Munir, Secretary General of National Security Council (WANTANNAS)\*

## **10.15 – 10.30**

### **Break for coffee**

## **Session 2: 09.45 – 10.30**

### **Types of cyber attacks and the threats they pose to CNI**

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- Newly emerging cyber threats to CNI
- What is the potential for large-scale attacks on national infrastructure?
- The implications of significant cyber events for:
  - electricity distribution grids
  - transport networks
  - telecom networks
  - the economy and financial sector
- The type and complexity of cyber threats facing organisations managing CNI
- The constantly evolving nature of the cyber security threat

#### **Moderator:**

Jamalul Izza, Chairman of Indonesia Internet Service Provider Association (APJII)

#### **Speakers:**

- Rudi Lumanto, Chair Person, Indonesia Security Incident Response Team on Internet Infrastructure/ Coordination Center (Id-SIRTII/CC)
- Yessie Yosetya, Network Director XL Axiata Tbk – ATSI Caretaker
- Senior Representative, PT NEC Indonesia
- Prof. Eko Indrajit, Chairman of Indonesian Banks Association (PERBANAS)\*

## **10.30 – 10.45**

### **Break for coffee**

### Session 3: 10.45 – 11.30

## Security Planning – ensuring preparedness for the protection of CNI and implementing a strong cyber defence measures

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- Protecting CNI – who is responsible?
- Identifying the vulnerabilities within your IT infrastructure and enhancing organizational defences against evolving cyber threats
- Ensuring constant preparedness for cyber threats: improving resilience, security and knowledge in both industry and government.
- Detecting possible attacks and responding in an appropriate manner to minimise impact
- Avoiding CNI paralysis resulting from online attacks - preventing damage to an organisation resulting from disruption caused by a significant cyber event:
  - Reputation of the organization's brand
  - Revenue loss
- Protecting the public in the event of a security breach: making the population aware of the issue whilst ensuring public safety, reassurance and co-operation
- Recognising that the cyber threat and responding with robust cyber security is a continuously evolving process

#### **Moderator:**

Jamalul Izza, Chairman of Indonesia Internet Service Provider Association (APJII)

#### **Speakers:**

- Sylvia W. Sumarlin, Advisor to Ministry of Defense for Cyber Security
- Idam Wasiadi, Head of Subdirectorate IT & Cyber Crime Indonesian National Police (BARESKRIM POLRI)
- Setiadi Yazid, Ph.D. Researcher from University of Indonesia – WANTIKNAS
- Komjen Pol. Drs. Suhardi Alius, M.H, Head of National Counterterrorism Agency (BNPT)\*

### 11.30

#### **End of Cyber Security Forum**