



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 02 NOVEMBER 2016



9th-11th NOV 2016 | JAKARTA CONVENTION CENTER

# INNOVATION AND TECHNOLOGY IN CONSTRUCTION AS DRIVERS OF SECTOR GROWTH AND ECONOMIC DEVELOPMENT

HELD IN CONJUNCTION WITH

## ASEAN G2B INFRASTRUCTURE INVESTMENT FORUM

8th NOVEMBER 2016 | SHANGRI-LA HOTEL, JAKARTA

IIW OFFICIAL  
SMART INFRASTRUCTURE PARTNER



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## THE CTI CONSTRUCTION CONFERENCE

IIW's Construction Conference is an ideal platform for sharing the latest ideas, reviewing technologies and learning about emerging trends in the fast growing construction sector. This year's conference will examine opportunities presented to the construction sector by the expansion of Indonesia's toll road network and the increasing adoption of smart construction technologies.

Indonesia's construction sector contributes significantly to the country's annual GDP and conference delegates will discuss how rising investment and major government infrastructure spending make Indonesia one of the most important construction markets in the world. The conference will also examine how the growing adoption of smart technology is changing the face of a sector which has traditionally been hesitant about innovation.

## INDONESIA INFRASTRUCTURE WEEK 2016

In 2015, IIW - Indonesia Infrastructure Week - brought together 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 US \$450bn earmarked by 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 plans for delivering on national infrastructure from roads to rail, 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 conference stream focusing on key topics relevant to the sector. These two-day senior 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, 9 November 2016

- 09.10 – 09.20 **Rosan P. Roeslani**, Chairman of Indonesian Chamber of Commerce & Industry  
09.20 – 09.30 **Rudiantara**, Minister of Communication and Information Technology RI  
09.30 – 09.40 **Basuki Hadimuljono**, Minister of Public Works and Housing RI  
09.40 – 09.50 **Bambang Brodjonegoro**, Minister Bappenas RI  
09.50 – 10.10 **HE. H. Ir. Joko Widodo**, President of the Republic of Indonesia\*  
10.10 – 11.00 **VIP Exhibition Walkthrough**
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## PROGRAMME AT A GLANCE

Day 1 - Wednesday, 9 November 2016

- 13.00 Plenary – Session 1: **Recognising that newly-available technologies and changes in working practices can bring about real change in the construction sector**
- 14.30 Coffee Break
- 14.45 Plenary – Session 2 **Smart construction: demonstrating the benefits of the adoption of innovation and technology by the construction sector**
- 16.15 Coffee Break
- 16.30 Plenary – Session 3 **The increasingly important role of technology in the transformation of the construction sector – Case Study: Building Information Modelling and Precast**
- 17.30 End of Conference
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Day 3 – Friday, 11 November 2016

The agenda for the 3rd day of the *Indonesia Infrastructure Week Construction Conference* will examine a number of key opportunities available those looking to invest in and collaborate with the Indonesian Construction industry. The conference will highlight ways to access the market, take advantage of the growing sector and plan strategies for successful engagement with construction sector stakeholders.

- 09.00 Talk show: Encouraging Private Sector to Support Infrastructure in Ministry of Public Works and Housing
- 11.00 Awarding Construction Indonesia
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## CRITICAL ISSUES TO BE ADDRESSED AT THE INDONESIA INFRASTRUCTURE WEEK CONSTRUCTION CONFERENCE:

The *Indonesia Infrastructure Week Construction Conference* is a dedicated forum for construction technology experts from private, central and regional construction to exclusively promote and present the latest case studies, technology information and best practice examples to support Indonesia's fast growing construction sector.

This year we will focus on innovation and technology in construction sector, consider case studies for innovation and technology for toll roads and examine the progress of the million homes programme, one of the Government's priorities.

- Incorporating sustainable construction sector innovation and technology
- Green construction technology to enhance environmental sustainability
- Developing technologies to promote change in the construction and management of infrastructure assets
- Using BIM to plan, design, construct, operate and maintain diverse physical infrastructures
- Recognising the necessity of Indonesia's growing toll road expansion programme as an economic driver
- Overcoming challenges to the delivery of an improved road network

**Day 1 - Wednesday**

9 November 2016

**Session 1: 13.00 – 14.30**

Venue: Merak 1, Lower Lobby JCC

## **Recognising that newly-available technologies and changes in working practices can bring about real change in the construction sector**

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- Introducing construction sector innovation and technology advances that improve efficiency, safety and environmental impact
  - Confronting and overcoming barriers to the adoption of technology in the construction sector: The need for the global construction sector to be more efficient, less fragmented and quicker to innovate
  - Developing technologies to promoting change in the construction and management of infrastructure assets
  - Investing in people and technology to reduce waste, energy consumption and manufacture and assembly time
  - Ensuring construction quality whilst maintaining safety of employees
  - Employing green construction technology to enhance environmental sustainability
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### **Moderator:**

Fuad Lalean, Managing Director Resources Industry, Accenture Indonesia

### **Keynote Speakers:**

- Yusid Toyib, Director General for Construction Development – Ministry of Public Works & Housing RI
- Erwin Aksa, Vice Chairman for Construction and Infrastructure – Indonesian Chamber of Commerce & Industry
- Fan Yifeng, President Director – China Communications Construction Indonesia
- Desi Arryani, President Director, PT Jasa Marga (Persero) Tbk
- Aunur Rosyidi, Director of Marketing and Supply Chain, PT Semen Indonesia (Persero) Tbk
- Garrett Harley, VP for Engineering and Construction Strategy, Oracle Construction & Engineering

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

### **14.30 – 14.45 Coffee Break**

**Day 1 - Wednesday**

9 November 2016

**Session 2: 14.45 – 16.15**

Venue: Merak 1, Lower Lobby JCC

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## **Smart construction: the fast-growing adoption of innovation and technology by the construction sector**

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- Evaluating the main drivers for the trend in smart construction – is the smart agenda driven to a large extent by technology suppliers?
  - What value can be obtained through the use of smart technology in the construction sector
  - Enabling performance to be constantly monitored and thereby driving substantial efficiency gains in facilities and asset management
  - Delivering smarter designs, requiring less material, reducing carbon and needing less labour for construction.
  - Integrating technologies across different stages of the construction project pipeline
  - Using smart technologies to achieve high-precision construction
  - Shortening the construction timetable by streamlining works before and after the construction phase
  - Connecting construction site information relating to equipment, people and the site through all phases from pre-construction to completion.
  - Using leading-edge ICT in the surveying process: drones in construction
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**Moderator:**

Kirana D. Sastrawijaya, Associate Partner, Hadiputranto, Hadinoto & Partners (Baker McKenzie)

**Speakers:**

- Ari Setiadi Murwanto, DG of Highways – Ministry of Public Works and Housing
- Pratjojo Dewo, President Director, Komatsu Indonesia
- Vasudevan Krishnaswamy, General Manager – International Marketing – Zydex Industries Pvt Limited, Vadodara, Gujarat, India
- I Gusti Ngurah Putra, President Director – PT Hutama Karya (Persero)
- Zachary Sharpe, Counsel, Jones Day

Discussion and Q&A

**16.15 – 16.30 Coffee Break**

**Day 1 - Wednesday**  
9 November 2016**Session 3: 16.30 – 17.30**  
Venue: Merak 1, Lower Lobby JCC

## **The increasingly important role of technology in the transformation of the construction sector – Case Study: Building Information Modelling and Precast**

- Using BIM to plan, design, construct, operate and maintain diverse physical infrastructures
- Delivering sustainable construction rapidly and more efficiently whilst increasing productivity
- BIM throughout the project life-cycle
- Can technological advances and the emergence of new capabilities drive a step change in how we build and how our built environment operates?
- The emergence of new technologies including sensors and data management within assets

### **Moderator:**

Antony Sihombing, Researcher, Center Sustainable Infrastructure Development, Universitas Indonesia

### **Speakers:**

- Danis Sumadilaga, Head of Research and Development – Ministry of Public Works and Housing
- Tumiyana, President Director, PT PP (Persero)
- Agus Wantoro, Director of Engineering and Operations, PT Waskita Beton Precast
- Hari Nurjaman – Secretary General, Indonesian Precast and Prestressed Association (AP3I)
- Brad Sara, Director, Warren and Mahoney Technologies Limited\*

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

**17:30 End of Conference**

### **Disclaimer:**

**\*Preliminary Conference Programme as per 2 November 2016.**

This document and the final rundown of speakers and agenda are subject to changes by the *Indonesia Infrastructure Week Construction Conference* Official Steering Committee who reserve the right to amend the programme as appropriate.