



**For Immediate Release**

**Media Release**

## **BuildTech Asia 2016 offers new technological insights to the building and construction sector**

**Singapore, 18 October 2016** – BuildTech Asia 2016, the region’s leading trade show for the building and construction industry and a hallmark event of the Singapore Construction Productivity Week (SCPW), is officially opened this morning by Mr Lawrence Wong, Minister for National Development and Second Minister for Finance. The sixth edition of BuildTech Asia is organised by Sphere Exhibits and is hosted by the Building and Construction Authority (BCA). A three-day trade exhibition, BuildTech Asia is held from 18 to 20 October at Singapore Expo Hall 3 and MAX Atria.

The Asian building technology market could be valued as high as \$1,036 billion by 2020, creating opportunities for development and adoption in the region. In Singapore, average construction demand will likely sustain between \$26 billion and \$35 billion in 2017 and 2018. Integrating technology into buildings contributes to an increase in building function productivity of 3.8%. Leveraging this development, BuildTech Asia 2016 aims to showcase a variety of smart building and construction technologies required to enhance productivity and efficiency in the built environment sector across its varied verticals. The programme includes an exhibition, guided tours, conferences, workshops, productivity awards and networking opportunities.

Over 100 exhibiting brands representing 15 countries - Austria, Australia, Canada, China, France, Hong Kong, Ireland, Japan, Malaysia, New Zealand, Singapore, South Korea, Taiwan, USA and Vietnam, will be showcasing smart building and construction technologies. Key exhibitors include ACME Equipment, Chun Hoe, DiHub, Eastern Pretech, Hebei Jinbiao Construction Materials, Hume Cemboard, Peikko, Samwoh, Splice Sleeve, Terralite and USG Boral, among others.



At BuildTech Asia, the Infocomm Media Development Authority (IMDA) is one of six government agencies that will be showcasing smart technology solutions to empower SMEs in the construction sector to achieve greater competitiveness. In partnership with BCA to bring smart technology to the built environment sector, IMDA will be showcasing solutions such as Finalcad's BIM-enabled applications, GPS Land's LiDAR-as-a-service for site surveys, Hubble's workforce management tool with predictive data analytics and Lean Station's lean construction planning tool for workforce and project management. These solutions are mapped to the workflow of construction companies so that SMEs' workforce can readily use them in daily operations.

Mr. Chua Wee Phong, Chairman of Sphere Exhibits Pte Ltd says, "BuildTech Asia 2016 underscores the impact that technology has on the built environment sector. Smart construction technologies improve productivity and help vendors to compete in the sector. This year, for the first time, we are introducing the industry to Internet of Things technology as it applies to building. As the region's leading trade show for the built environment, BuildTech Asia seeks to inform practitioners of the latest materials and construction methods using smart building technology, to showcase industry best practices and provides an opportunity for practitioners to meet, network with and learn from peers who visit Singapore from across the region."

Over 6,000 attendees are anticipated across the Asia region over the three trade days. BuildTech Asia is supported by the governments and trade associations of Canada, Indonesia, Malaysia, Myanmar, United Kingdom and Vietnam, as well as trade delegations from Australia, Canada, India, Indonesia, Japan, Malaysia, Pakistan and Thailand.

In essence, BuildTech Asia enables industry stakeholders to explore and discuss ideas that integrate technology and building. The exhibition and ancillary events within the Singapore Construction Productivity Week are designed to gather professionals from many nations on a common platform to meet potential business partners, build new relationships and exchange learning on a common business platform.



### Highlights of BuildTech Asia 2016:

- Organised by HOMEDEX Corporation and Sphere Exhibits, a two-day **B-IoT Asia Exhibition and Conference** aims to educate participants on the best practices for and how to apply internet of things technology into construction and building. Incorporating smart technology into architecture, construction as well as the materials of a building, the B-IoT Asia Conference features local and international experts who will discuss the building IoT landscape in Singapore, promote an understanding on the SMART eco-system from design to construction and operations, explore the realms of safety and security, big data and analytics as well as productive methods in IoT to achieve operational efficiency in buildings. The Building IoT Exhibition will feature a dedicated pavilion consisting of companies showcasing IoT platforms, IoT applications, devices and services.
- The Singapore Contractors Association has organised the **7<sup>th</sup> SCAL Environment Sustainability Conference** on 20 October. In line with the government efforts to promote sustainable development, the one-day conference with the theme “Think Green, Build Green” will provide a platform for sharing of environmentally sustainable practices. Besides raising greater awareness among contractors on green building practices, the conference will provide up-to-date information on the government schemes and helps steer the industry towards minimising environment impact and increase the economic sustainability of businesses.
- The inaugural **SCAL Productivity and Innovation Awards (PIA) 2016** is an industry-led initiative to raise productivity in the construction sector through a ground-up approach for innovative ideas that aims to result in significant improvements at the workplace. Ten finalists for the Awards have been shortlisted by a panel of judges and visitors to BuildTech Asia will have a stake in selecting the first PIA winners. The first 1,000 visitors to the show on 18 and 19 October will cast their votes that will contribute towards deciding the winners. The top three winners to the PIA will be presented at the SCAL



Environmental Sustainability Conference held in conjunction with BuildTech Asia on 20 October.

For more information on BuildTech Asia 2016, visit <http://www.buildtechasia.com/>

For more information on Singapore Construction Productivity Week, visit [www.scpw.sg](http://www.scpw.sg).

For more information on the B-IoT Conference, visit <http://www.buildingiotasia.com>

For more information on the SCAL Environmental Sustainability Conference, visit <http://www.scal-academy.com.sg/seminars/oct-20-environment-sustainability-conference-on-think-green-build-green-830am-445pm>

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### About BuildTech Asia 2016

Hosted by Building Construction Authority of Singapore (BCA), and held during the Singapore Construction Productivity Week (SCPW), BuildTech Asia 2016 is now into its 6th edition focuses on technologies that address the challenges of building and construction across different vertical industries. BuildTech Asia 2016 is 3-day trade event dedicated to make a difference to the future of the industry. For more information, please visit [www.buildtechasia.com](http://www.buildtechasia.com)

### About the Singapore Construction Productivity Week (SCPW)

Organised by the Building and Construction Authority of Singapore (BCA), the Singapore Construction Productivity Week (SCPW) is an industry hallmark event for developers, architects, consultants, builders and suppliers to exchange ideas on construction productivity, as well as share the latest developments in new productive technologies, best practices and success stories. Held from 18 – 21 October 2016, key events this year include the BuildTech Asia Exhibition, Build Smart Conference, Skilled Builders Project, inaugural SCAL Productivity Innovation Competition and Awards, Experiential Workshop, as well as the Productivity Workshop, Productivity Challenge and Productivity Race to engage tertiary students on construction productivity concepts.

For more information, please visit [www.scpw.sg](http://www.scpw.sg)

### About Sphere Exhibits Pte Ltd

A wholly owned subsidiary of Singapore Press Holdings (SPH), Sphere Exhibits, which stands for "SPH Events, Roadshows and Exhibitions", aims to be the leading events company catering to a diverse mix of trade and consumer clientele. Backed by a committed and experienced team of professionals and SPH's comprehensive range of media platforms, Sphere Exhibits' shows, events and exhibitions centre on unique concepts that attract local audiences and regional participants. Among the 20 Sphere Exhibits' events are The IT Show, COMEX, Licence2Play, Asian Masters and Kidz Academy. Leveraging on its expertise in event conceptualisation, planning and execution, Sphere Exhibits delivers memorable and quality events that meet the objectives of its clientele and partners.

For more information, please visit [www.sphereexhibits.com.sg](http://www.sphereexhibits.com.sg)

### About Singapore Press Holdings Ltd

Incorporated in 1984, main board-listed Singapore Press Holdings Ltd (SPH) is Asia's leading media organisation, engaging minds and enriching lives across multiple languages and platforms, ranging from print, digital, radio and out-of-home media.

SPH owns award-winning newspapers, magazines and best-selling books in both print and digital editions, as well as online classified businesses in the region. In addition, SPH has two English radio stations and one Chinese radio station, an out-of-home digital advertising unit, a regional events and conferences arm, and runs a chain of modern retail convenience stores. SPH also has a 20 per cent stake in MediaCorp TV Holdings Pte Ltd, which operates free-to-air channels 5, 8 and U, and a 40 per cent stake in MediaCorp Press Limited, which publishes the free newspaper, Today.

SPH REIT comprises Paragon, a premier upscale retail mall and medical suite/office property in Orchard Road and The Clementi Mall, a mid-market suburban mall. SPH's latest retail development is The Seletar Mall located in Sengkang.

For more information, please visit [www.sph.com.sg](http://www.sph.com.sg)



## ANNEX A: OVERVIEW OF SCPW 2016



### Singapore Construction Productivity Week

*'Transforming the way we build through innovation'*

The **Opening Ceremony of the 6<sup>th</sup> SCPW** will be held on 18 October 2016, during which the **BIM Awards (Project level)** will be presented.

#### Anchor Events

- **BuildTech Asia (BTA) 2016** is a three-day trade exhibition organised by Sphere Exhibits, a subsidiary of Singapore Press Holdings. It is the region's leading tradeshow that focuses on productive and smart technologies addressing the challenges across the value chain in the built environment sector in Asia. **Guided tours at the BTA** will be organised for industry leaders, public agencies and students from Institutes of Higher Learning.
  - The BCA Pavilion at the BTA will feature productive and innovative showcases that chart the latest developments in the transformation of the construction industry into one that is productive and innovative. This year, BCA will also be partnering other agencies to showcase government's effort in driving productivity.
- The **Skilled Builders Project** is a platform for industry practitioners to display their skills in handling cross laminated timber (CLT) and glued laminated timber (Glulam).
- The **Build Smart Conference** is a two-day conference which provides a platform to share ideas and technologies to advance construction productivity, targeted at industry practitioners. Topics on DfMA, lean construction and VDC/BIM will be covered.
- The **Experiential Workshop** featured an experience sharing session including site visits to local projects adopting game changing technologies.

#### New Event

- The inaugural **SCAL Productivity & Innovation Awards (PIA) Competition 2016**, which is a ground-up initiative by SCAL, is an open competition for industry firms to showcase their innovative ideas. Winners will receive their prizes at the **SCAL Conference**.



## Institutes of Higher Learning (IHL) Events

- The **Productivity Challenge & Productivity Race** aim to engage Institutes of Higher Learning (IHL) students on construction productivity concepts.
- The **Productivity Guided Tours and Workshops** are catered to reach out to the IHL students and lecturers to enhance their understanding on the built-environment industry.
- **International Building Information Modelling (BIM) Competition** - A competition targeting the tertiary students to demonstrate their BIM skills under the mentorship of industry practitioners.
- **BIM Shoot-Out** – A competition targeting IHL students to demonstrate their individual BIM modelling and documentation skills within a given time frame.

## Other Events

- **International Panel of Experts (IPE) Meeting on Construction Productivity and Prefabrication Technology** comprising local and overseas experts to explore ways to further improve construction productivity in Singapore.



## **ANNEX B: HIGHLIGHTS AT BUILDTECH ASIA 2016**

Productive technologies on show include BIM, Construction IT and DfMA.

Highlighted exhibiting companies include:

- CS Global Group, who will exhibit mobile technology to improve productivity at construction sites; DiHUb, who are introducing a BIM library of real building materials;
- Allanamics International for their StatRapid materials that are designed to replace the heavy concrete blocks which are stacked to test for pile capability, with a faster, lighter version; Peikko Singapore will exhibit a large selection of concrete connections and composite structures;
- Synergix Technologies on their software that is a facial biometric device which links to a payroll module;
- Halfen-Moment will showcase their HS Protect, an air drying coating that protects building materials during construction and transportation.

Some key highlights on building materials and architectural solutions include access and automation systems, hardware and tools, electrical and safety elements, alongside landscape, roofing and façade materials. A dedicated showcase of quality finishes will be presented in a unique way that illustrates how, for example, architectural coverings, ceiling systems, doors and windows, lighting, walls, partitions and flooring systems can be applied.

Highlighted exhibiting companies include:

- Eastern Pretech, who will exhibit their precast pre-stressed hollow-core slab, which can be used for a wide range of applications requiring floor or roof systems in residential, institutional, commercial, industrial or construction projects.
- Splice Sleeve, for their butt-splicing reinforcing bars system which is used throughout the world for connection of rebars in the precast building method as well as for cast-in-place method. When tested with Splice Sleeves, full-size, precast column-beam members show if the connections are equal or superior in both structural strength and ductility to monolithically poured concrete columns.
- USG Boral will showcase their USG Boral Logix™ Integrated Ceiling System.





Key exhibitor highlights from on-site construction machinery and equipment are:

- Terra Lite which will be displaying their 1 tonne overhead travelling crane, which is powered by software based Intelligent control systems and its standard model comes with 18 intelligent features include anti-sway, anti-overload, anti-side pull.
- ACME Equipment Pte Ltd will showcase their VSE500 system which enhances productivity and improves efficiency. The VSE500 can mix and convey sand and/or mortar materials for hundreds of metres, allowing for the transfer of materials to locations that may have difficult access. Driven by an environmental friendly electrical motor, which produces no pollutants, the VSE500 features pneumatic conveying of materials which enables zero wastage of materials so that the construction site can be green and achieve productivity.
- Hebei Jinbiao Construction Materials (Singapore) Pte Ltd, a multimillion dollar Chinese manufacturer, provides products such as mesh fencing, noise reduction products and gabion to several government agencies in Singapore including HDB, LTA and URA.

BuildTech Asia 2016 has earned increased regional support this year from South East Asia's building and construction sector. As in previous years, local and international associations have embraced the opportunity to collaborate with BuildTech Asia 2016 to network with industry colleagues in pursuit of their business goals. This year, the Asia Cloud Computing Association; ASIS International ( Singapore Chapter); Association of Industrial Engineering and Management Industry of Indonesia (ISTMI); Association of Consulting Engineers Singapore; Association of Electronic Industries Singapore ; Association of Property and Facility Managers; Building Owners & Managers Association, Indonesia ; Construction Industry Joint Council; The Institution of Engineers, Singapore ; Indonesia Engineers Association ; International Facility Management Singapore Chapter; International Powered Access Federation; IoT SG Meetup, Jakarta Chamber of Commerce & Industry, Malaysia Heavy Construction Equipment Owners Association; Master Builders Association of Malaysia; Malaysian Association of Facilities Management; Myanmar Construction Entrepreneurs Association, National Association of Indonesian Consultants ; NUS Department of Building , School of Design & Environment; Renovation and Decoration Advisory Centre (RADAC); Real Estate Developers' Association of Singapore; Royal Institution of Chartered Surveyors (RICS); Singapore Contractors Association Ltd (SCAL); Singapore Cranes Association; Singapore Institute of Building Limited; Singapore Institute of Surveyors & Valuers; Singapore Institution



of Safety Officers; Singapore Business Federation , Apex Chapter, Singapore Manufacturing Federation; Society of Project Managers Singapore, The Institution of Engineers, Malaysia, Vietnam Association of Building Materials; Vietnam Ceramic Association, Vietnam Electronic Industries Association, Vietnam Federation of Civil Engineers Association and Workplace Safety and Health Asia are supporting BuildTech Asia 2016.

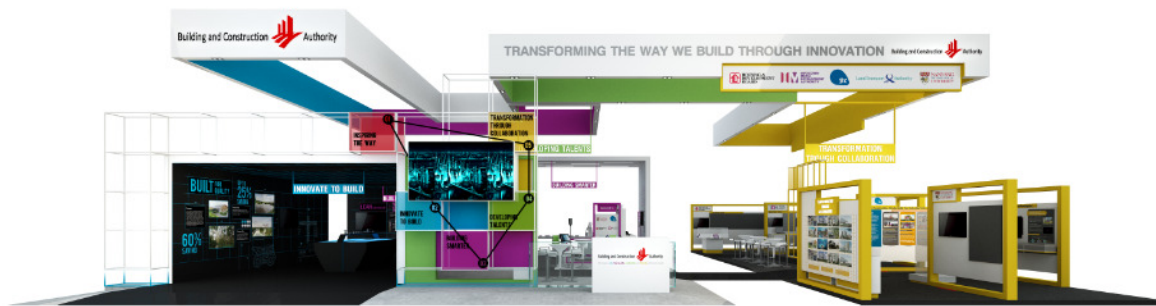
**Co-located Conferences & Activities at BuildTech Asia 2016:**

1. Organised by HOMEDEX Corporation and Sphere Exhibits in conjunction with BuildTech Asia 2016, the Building IoT Exhibition takes place from 18 – 20 October and will feature a dedicated pavilion consisting of companies showcasing IoT platforms, IoT applications, devices and services;
2. The B-IoT Asia Conference features local and international experts who discuss safety and security, big data and analytics, and how to use IoT to achieve operational efficiency in buildings



## ANNEX C: Factsheet on Public Sector Co-ordinated Pavilion

For the first time, five local government agencies including NTU, JTC, HDB, LTA and IMDA are participating in an exhibition pavilion with BCA. Together, the agencies will showcase how the public sector has been taking the lead in driving productivity and their future plans in adopting productive technologies for their projects.



### BCA

In line with the theme of this year's SCPW – **“Transforming the Way We Build Through Innovation”**, the Building and Construction Authority (BCA) will feature key productive and innovative initiatives and the latest technologies that will help to boost construction productivity for the built environment sector, focusing on Design for Manufacturing and Assembly (DfMA) as well as Virtual Design and Construction (VDC). There will be a live demonstration of a 3D concrete printer, which can potentially transform the way we build.

### IMDA

The Infocomm Media Development Authority (IMDA) is showcasing smart technology solutions to empower construction sector SMEs to achieve greater competitiveness. In partnership with BCA to bring smart technology to the built environment sector, IMDA will be showcasing solutions such as Finalcad's BIM-enabled applications, GPS Land's LiDAR-as-a-service for site surveys, Hubble's workforce management tool with predictive data analytics and Lean Station's lean construction planning tool for workforce and project management. These solutions are mapped to the workflow of construction companies so that SMEs have confidence that their workforce can more readily use them in daily operations.

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## JTC

At their booth, JTC will showcase their collaboration with NTU at the NTU-JTC I3 Centre, to develop new and innovative solutions to enhance productivity in its industrial infrastructure projects. The innovations include the bendable concrete (ConFlexPave), spray painting robot (PictoBot) and quality assessment robot (QuicaBot). JTC will also feature the adoption of productive construction technologies, materials and processes such as Prefabricated Pre-finished Volumetric Construction (PPVC) for the construction of workers' dormitories at JTC Space @ Tuas, Mass Engineered Timber (MET) and Structural Steel for the construction of Blk 81 and Blk 75 respectively, in Phase 2 of the JTC LaunchPad @ one-north.

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## HDB

HDB is promoting the use of prefabrication to increase productivity and reduce manual labour. At the booth, visitors can learn about HDB's productivity journey, which includes initiatives in standardisation, mechanisation on site and new construction materials and technologies.

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## LTA

Visitors can learn more about LTA's three-pronged approach to productivity - mandating more skilled and experienced workers in LTA projects, adopting innovative designs and high impact productive technologies, and implementing more projects through the Design Development & Build model. In addition, LTA's exhibits will feature various innovative designs as well as high-impact productive technologies adopted for rail and road projects.

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## NTU

A champion in sustainable construction, NTU will be sharing their experience in building Singapore's first high-rise residential buildings constructed using Prefabricated Pre-finished Volumetric Construction and the region's first sports hall using Mass Engineered Timber.

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## **ANNEX D: FACTSHEET ON SCAL PRODUCTIVITY AND INNOVATIONS AWARDS 2016**

### **About SCAL PIA**

The Singapore Contractors Association Ltd's (SCAL) inaugural Productivity and Innovation Awards is a ground-up approach to promote innovative ideas for construction.

PIA 2016, jointly supported by BCA and the Housing and Development Board (HDB), encourages the built environment sector to innovate and create products and/or processes that will improve productivity for construction work.

### **Top ten submissions**

Out of 26 entries, the top ten were selected after the preliminary round of judging by industry experts.

These top entries will be displayed for public voting on 18 and 19 October 2016 at BuildTech Asia, a key event in the Singapore Construction Productivity Week. The top three winners will be announced on 20 October 2016 at SCAL's Environment Sustainability Conference.

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#### **Chip Eng Seng Contractors' Environment, Health and Safety (EHS) Barricade Post for Precast Plank Installation**

This innovative barricade post enhances safety protection for workers carrying out precast plank installation. Portable, light weight, and easy to install, this barricade also doubles as a travel restraint system and is thus an added safety measure to prevent falls from height.





**Gammon Construction Limited's Re-engineering Reinforcement Works using Carpet Reinforcement**

By using pre-tied rebars that are tied in the form of a carpet, the workers on site will only need to roll the carpet of rebar into position. This greatly saves time and improves productivity.

**Gammon Construction Limited's Re-engineering Slope Protection Using Concrete Canvas**

Concreting slope usually involves a lot of formwork. There are also challenges in maintaining the quality of the concreting. This innovation is a special concrete canvas that can be spread on slopes without needing labour-intensive formwork.



**Lian Soon Construction's iDrain – The Durable and Reusable Earth Control Measures (ECM) Drain**

Implementing ECM at construction sites is required to prevent the pollution of waterways. The conventional drains made from C7 concrete have to be demolished at a certain point of the project. These C7 drains are heavy, hard to install and prone to damages. With the durable and reusable iDrain, these issues are resolved.

### Samwoh Corporation's Productive Sustainable Solution for Pavement Re-texturing and Spillage Removal

The ultra-high pressure water-blasting add-on for the oil spill cleaning equipment reduces the time and effort needed to remove oil on road pavements.



### SC Ang Consortium's Global Navigation Satellite System (GNSS) for Piling

Conventional surveying requires a lot of time to be set up. More time is spent when pegging the location before the piling begins. The GNSS system, added on piling machines, enables the machine operator to identify the exact locations for pegging with a high rate of precision and accuracy.

### Straits Construction's Cement Waste Water System

A downpipe is installed on the external wall of the building, with several inlet points for workers to dispose their cement waste. This eliminates delays and abortive works as it reduces the reliance on the traditional passenger hoist and prevents improper disposal into sanitary pipes.







### Straits Construction's Passenger - Material Hoist Call Button

Drawing inspiration from the service call button in food establishments, this innovation allows the on-site operator for the hoist system to easily identify callers for his service.

### Straits Construction's Rolling Tape

A simple innovative tool to ensure accurate alignment of masking tape used to protect floor edges from stains. It simplifies the conventional work process to achieve better quality.



### Teambuild's iSAFE

Teambuild's iSAFE system enables non-conformances to be easily flagged. One simply has to snap a picture using iSAFE. The system will then generate an email and send it to the relevant party for rectification. Overall reports and statistics can also be generated.