

Webinar on

DIGITALISATION OF THE BUILT ENVIRONMENT SECTOR – The Helsinki Experience

23 Feb 2021 (Tue), 2.00pm - 5.00pm (SGT)

The webinar will provide an opportunity to learn about the transformational efforts and achievements of Helsinki, the capital of Finland.

Helsinki and Singapore are considered to be two smartest cities in the world.

Considerable strides have been made in Helsinki towards the digital transformation of the Built Environment, leveraging on a number of digital tools, including the application of Digital Twins.

In particular, the City of Helsinki won the Year in Infrastructure 2020 Award, under the Digital Cities category, for the project 'Digital City of Synergy', at the Year in Infrastructure 2020 Awards, organised by Bentley Systems Incorporated, a leading infrastructure engineering software company, and held late last year.

Speakers



Ms Irma Ylikangas Senior Business Advisor Helsinki Business Hub Finland



Mr Jarmo SuomistoProject Manager, Helsinki
3D+, City Executive Office
of Helsinki, Finland



Mr Phil ChristensenVice President, Reality +
Spatial Modeling, Digital
Cities, Bentley Systems,
Australia

Fees

IES Members: \$26.75

RE & RTOs, Members of CIJC

Associations: \$32.10
Non-Members: \$42.80
(all prices are inclusive of GST)

Organiser





Register Here

PROGRAMME

Time	Topic	Speaker
1400	Opening and Welcome	
1405	Digital tools in Smart Cities	Ms Irma Ylikangas Senior Business Advisor Helsinki Business Hub
1455	Helsinki Digital Twins	Mr Jarmo Suomisto Project Manager, Helsinki 3D+ City Executive Office, City of Helsinki
1545	Shaping cities via Digital Twins	Mr Phil Christensen Vice President, Reality + Spatial Modeling, Digital Cities, Bentley Systems
1640	Q&A	
1700	End of Webinar	

SYNOPSES



Ms Irma Ylikangas Senior Business Advisor Helsinki Business Hub Finland

Digital tools in Smart Cities

The presentation will reveal innovative digital tools that can help to improve information-sharing and engagement with stakeholders during the design and lifecycle processes of a building, and will also highlight the methods that can be used to collect feedback from community stakeholders. The presentation will also provide a glimpse into the circular economy developments in the construction industry.

About the speaker

Ms Irma Ylikangas has over 20 years of international business-to-business experience, covering all continents. Over the years, she has acquired strong knowledge in the development of global corporate strategy, product line strategy and business-to-business development, in both the private and public sectors.

In her current position, Irma is engaged in creating new, international business platforms to enable companies in the Helsinki region in Finland to export and find partners abroad, especially in the US, Singapore, Germany and China. She also helps foreign companies to set-up their businesses, grow and develop in Helsinki, by providing the right information and contacts.

Particular areas of interest to Irma are digital solutions for the Built Environment as well as Smart and Clean Technologies including different energy-efficient and sustainable solutions for Buildings and Cities.

SYNOPSES



Mr Jarmo Suomisto
Project Manager,
Helsinki 3D+,
City Executive Office,
City of Helsinki, Finland

Helsinki Digital Twins

Helsinki City Models are made for public good, to support good everyday life and generate benefits at several levels. These include combining data storages and virtual worlds to create the digital twin platforms and by integration to processes and services. Through such innovation with open data, the efforts can generate cases to support a city's strategic goals.

Take for example, the Helsinki Energy and Climate Atlas. It is a free, public, interactive 3D map application which contains an abundance of energy-specific information, including data relating to energy and repair work, water heating and electricity consumption, CO₂-simulations, and solar and geothermal potential services. The data collected is used in the drive to achieve a carbon-neutral Helsinki by 2035.

About the speaker

Mr Jarmo Suomisto is Manager of Helsinki 3D+. He is responsible for creating, maintaining and delivering virtual models for the whole city of Helsinki in Finland. Multi-award-winning 3D+ also integrates new technology and workflows to processes and city services. Jarmo is currently engaged in the production of the Helsinki Energy and Climate Atlas, Digital Twin use cases, and new services on 3D-platforms.

With over 25 years of experience in the application of 3D and GIS in building design and city planning, he has a clear understanding of the great potential benefits that can be obtained through 3D applications.

Jarmo is an Architect and holds an MSc degree in Civil Engineering from Helsinki University of Technology, Helsinki, Finland.



Mr Phil Christensen
Vice President, Reality
+ Spatial Modeling,
Digital Cities, Bentley
Systems, Australia

Shaping cities via Digital Twins

The urban environment has a significant effect on the quality of life of its residents. Digital twins developed and maintained at city-scale are proving to be valuable in helping to evolve the physical fabric of urban areas so that they are more sustainable and resilient while continuing to foster prosperity. But what are city digital twins exactly, how do we get started in creating them, and how do we evolve and apply them in ways that deliver tangible benefits to residents in both the short and long term? This presentation will look at some of the foundational data principles of city digital twins, explore some examples of their application from cities in Asia and Europe, and look to what the future might hold for more automated creation and evolution of urban digital twins.

About the speaker

Phil Christensen joined Bentley in 2011 after the company's acquisition of FormSys, Fremantle, Western Australia, where he was Founder and CEO. He was named Vice President of Reality and Spatial Modeling in 2020 and is responsible for both technical and business aspects of the company's portfolio of reality modeling and mapping software within the Digital Cities business group. His prior roles at Bentley include Vice President of Cloud Services, Analytical Modeling, and Offshore Engineering.

Phil holds a BE degree in Engineering (Theoretical & Applied Mechanics) from the University of Auckland, New Zealand, and an MEngSc degree in Engineering Science from the University of Western Australia.

TERMS & CONDITIONS

Registration

Registration will be on a first-come-first-served basis and will only be confirmed upon receipt of full payment, unless otherwise invoiced. All registrations must be submitted with the completed on-line Registration Form.

Closing Date & Payment

The closing date for registering for the seminar shall be by Friday, 19 February 2021. Payment via credit card, PayPal and invoice should be settled at least 1 business day before the event.

Confirmation of Registration

Confirmation of registration will be given at least 1 business day prior to the seminar, or earlier where possible, via email. We reserve the right to allow only confirmed registrants to attend the event.

Refunds

No refunds will be made for withdrawals. Replacements will be allowed only if written notice is received by us at least 3 business days before the seminar. However, when an IES member is replaced by a non-member, the participant shall pay the difference in the relevant fees at least 3 business days before the seminar.

Cancellation/Postponement

Changes in venue, date, time and speakers for the events can occur due to unforeseen circumstances. The organiser reserves the full right to cancel or postpone the event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if the Event is cancelled by the organiser.

Enquiries

For more information, please email: desmond@iesnet.org.sg or jiayu@iesnet.org.sg