



# infraBIM OPEN

TAMPERE 2025 FEB 3-5

## Monday

February 3

- 14:00 - 15:30 Excursion - Developing Tampere railway station area
- 16:00 - 18:00 SOLD OUT - Excursion - Experience the Future of Smart Infrastructure: Vektor.io Projects Launch
- 18:00 Registration opens
- 19:00 - 21:00 Get together at Tampere Hall

PLATINUM PARTNERS



NOVATRON



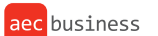
GOLD PARTNERS



SILVER PARTNERS



MEDIA PARTNER





Tuesday, February 4

Park Hall

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2025  
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8:15 Registration opens

9:00 Opening session 

Chair: Annina Lehikoinen, buildingSMART Finland

09:00 **OPENING WORDS**  
Annina Lehikoinen, Ville Alajoki and Tarmo Savolainen buildingSMART Finland

9:15 **Keynote 1 - Ajoy Bhattacharya**  
"Transforming the AEC industry and the built world with Microsoft's technologies"

9:45 **Keynote 2 - Jugal Makwana**  
"Role of Standards and Standardization in the Age of AI"



**AJOY BHATTACHARYA**  
Director, Technology Strategist  
Microsoft



**JUGAL MAKWANA**  
Senior Executive - Industry Transformation  
and Strategic/Open Ecosystem  
Autodesk

## 10:15 Coffee

Park Hall

Duetto 1

Duetto 2

10:45 Session 1  
Owner 

Chair: Tiina Perttula, Ramboll Finland, Finland

10:45 **WHAT'S THE BUSINESS VALUE OF OPEN BIM? REDUCING CONSTRUCTION TIME BY ~40% AND COSTS BY >5% WITH ISO 19650 AND MODEL-BASED BIM PROJECTS – A CASE STUDY OF NORWEGIAN RAIL OWNER, BANE NOR**  
Raoul Lindberg, Novorender and Eivind Pagander, Bane NOR, Norway

11:15 **NEW EU REGULATIONS - DIGITAL PRODUCT PASSPORTS ARE COMING TO OUR INDUSTRY**  
Lars Christian Fredenlund, Cobuilder, Norway

11:45 **DEVELOPING A PROCESS FOR LAND USE PLANNING ECONOMICS USING NATIONAL LOGICAL ZONING DATA MODELS IN FINLAND**  
Heini Raasakka, City of Tampere and Anne-Mari Koivisto, Ramboll Finland, Finland

Session 2  
Future trends and innovations

Chair: Jagannath Mallela, WSP, USA

10:45 **FROM POINT CLOUD INTO IFC USING AUTOMATION AND AI**  
Aleksi Niemela, Ramboll Finland, Finland

11:15 **DIGITALIZATION ON SITE**  
Tomas Polacik, COLAS CZ, Czech Republic

## 12:15 Lunch

13:15 Session 3  
Information flow through lifecycle: Hand over 

Chair: Petteri Palviainen, Novatron, Finland

13:15 **DIGITAL DATA FLOW: A GENERAL CONTRACTOR'S PERSPECTIVE ON RAIL BALTICA BIM AND HANDOVER REQUIREMENTS**  
Miina Karafin, Verston, Estonia

13:45 **BRIDGING THE DATA DIVIDE: UNLOCKING SEAMLESS INFRASTRUCTURE DATA HANDOVER WITH OPEN LINKED DATA**  
Eyosias Guyo, Neanex, Belgium

14:15 **EXPERIENCES AND TAKEAWAYS OF AN INFRASTRUCTURE OWNER (FTIA) TESTING BSDD - A SUCCESS STORY OR MUCH ADO ABOUT NOTHING?**  
Marion Schenkwein, Finnish Transport Infrastructure Agency and Niki Tapper, Ramboll Finland, Finland

Session 4  
Geo and tunnel

Chair: Annina Lehikoinen, buildingSMART Finland, Finland

13:15 **GEOLOGICAL AND GEOTECHNICAL MODELLING OF CENTRAL TOKYO USING PROPOSED IFC4X4 SPECIFICATION EXTENSIONS**  
Dr. Kazunori Takahashi, OYO Corporation, Japan

13:45 **FROM BIM MODELS TO VIRTUAL REALITY TRAINING: APPLICATIONS IN MECHANIZED TUNNELING CONSTRUCTION**  
Daniel Rodriguez Polania, Politecnico di Torino, Italy

14:15-14:30 **PLATINUM PARTNER - NOVATRON - THE NORDIC WAY OF MODEL-BASED INFRA CONSTRUCTION**  
Petri Moisio, Novatron, Finland

14:30-14:45 **PLATINUM PARTNER - VEKTOR.IO - COMBINING BIM, GIS AND REALITY DATA TO DELIVER ACCURATE MEASUREMENTS AND QUANTITIES IN INFRASTRUCTURE PROJECTS**  
Teemu Nivell, Vektor.io, Finland

Session 5  
Domain, use cases


Chair: Juha Liukas, Finland

13:15 **SIGNAGE DATA EXCHANGE WITH IFC**  
Dr. Rico Steyer, AKG Software Consulting, Germany

13:45 **MODEL BASED QUANTITY TAKE OFF AND USE CASES FOR BOQ**  
Tiina Perttula, Ramboll Finland and Kirsi Lijja, City of Helsinki, Finland

14:15 **LANDSCAPE BIM WITH A BIG I**  
Vilma Pylkkö, Symetri and Annina Kukkola, Siowise, Finland

## 14:45 Coffee

15:15 Session 6  
Rail BIM and GIS interoperability 

Chair: Karin Anderson, The Swedish Transport Administration, Sweden

15:15 **THE LONG JOURNEY TOWARDS COMPLETE NETWORK MODELS - FIRST STEPS WITH AN IFC 4.3 SOFTWARE PROTOTYPE BASED ON REAL DATA FROM A LARGE RAIL NETWORK**  
Dr. Andreas Pinzenöhler, IQSOFT, Austria

15:45 **BUILDING OPENCODE - HOW FRENCH REAL-LIFE RAILWAY PROJECTS ARE INNOVATING IN OPENBIM DEPLOYMENT**  
Edouard Chabanier and Alexandre Vautrin, SNCF Réseau, France

16:15 **IFC4.3 ROUTE USE CASE DEFINITION: CASE BUILDINGSMART FINLAND**  
Mikko Vesanen, Novatron and Jari Kainuvaara, Sitowise, Finland

Session 7  
Tunnel and bridges

Chair: Tarmo Savolainen, Finnish Transport Infrastructure Agency, Finland

15:15 **ONTOLOGIES FOR BRIDGE MAINTENANCE**  
Piotr Smolira, Technical University of Denmark, Denmark

15:45 **ADVANCING TUNNEL INFORMATION MANAGEMENT THROUGH OPENBIM IN FINLAND**  
Jenna Ikonen and Niki Tapper, Ramboll Finland, Finland

16:15 **FORMALISING DIGITAL DATA FOR THE INTEROPERABILITY OF TUNNEL ASSETS AND ITS VALUE-ADD POTENTIAL IN HONG KONG**  
Leung Wai Ho and Cheong Ying Fung, HKSAR Government, Hong Kong

Session 8  
People

Chair: Pasi Joensuu, Infrakit, Finland

15:15 **INFORMATION MANAGEMENT IN ASSET LIFECYCLE FOR SUCCESSFUL OPEN BIM IMPLEMENTATION**  
Viivi Siuko, Ramboll CM, Finland

15:45 **LEARNING PATH OF OPENBIM TO CIVIL ENGINEERING STUDENTS**  
Timo Lehtoviita, LAB University of Applied Sciences, Finland

16:15-16:30 **PLATINUM PARTNER - ARKANCE - SOLVING YOUR DESIGN AND CONSTRUCTION CHALLENGES WITH SMART CONNECTIVITY, AUTOMATION, AND EXPERT SERVICES**  
Erno Tiensuu, ARKANCE, Finland

16:55 **Keynote 3 - Samuel Teo**  
"BIM and Integrated Digital Delivery Journey", from the perspective of the Land Transport Authority of Singapore"

17:40 Bus transportation to Tampere city Reception

18:00-19:30 Tampere City Reception



**SAMUEL TEO**  
Deputy Director (Infrastructure Digitalisation  
Techno-Environment)  
Land Transport Authority (LTA), Singapore



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## Wednesday, February 5

### Park Hall

### Duetto 1

8:30 Registration opens

#### Session 9 Collaborative workflows



Chair: Aki Kopra, Kreate, Finland

09:00 **LEVERAGING OPEN BIM FOR PROJECT MANAGEMENT**

Inge Handagard, Norconsult Norge and Jorge Domenech, Bane NOR, Norway

09:30 **EMBRACING OPENBIM WORKFLOWS IN THE DAILY BUSINESS: LESSONS LEARNED DURING THE DEVELOPMENT OF WASTEWATER TREATMENT PLANT PROJECTS USING MULTIPLE AUTHORING TOOLS.**

Davide Barbero, AFRY Schweiz, Switzerland

10:00 **THE BIM IMPLEMENTATION AND THE ROLE OF THE BIM ENGINEER IN DIGITALIZATION - WHAT YOU NEED TO KNOW AND WHAT YOU DIDN'T THINK ABOUT**

Dávid Kathy, Mátyás Bellaagh and Barnabás Óri, Colas Hungary, Hungary

10:30 **RAILWAY SYSTEMS DESIGN AUTOMATION WITH DYNAMO (REVIT + CIVIL3D)**

Ayman Saleh, Colas Rail, France

#### Session 10 Digital twins and BIM advancement

Annina Lehikoinen, buildingSMART Finland, Finland

**DIGITISATION PROCEDURES FOR THE SETTING UP OF INFRASTRUCTURE MONITORING ECO-SYSTEM**

Alfonso Perna, ACCA software, Italy

**EXTENDING EVALUATION, VISUALIZATION, AND ANALYSIS SYSTEM (X-EVA) WHICH REALIZES VERSATILE DATA HANDLING FOR HIGHLY-SOPHISTICATED RIVER MANAGEMENT TOWARD REDUCTION OF EFFORT**

Keiya Fujiwara, The University of Tokyo and Nippon Koei, Japan

**TOWARDS STANDARDIZED VISUALIZATION – DESIGN STRATEGIES FOR 3D-REPRESENTATION OF COMBINED INVISIBLE ENVIRONMENTAL AND SOCIAL ASPECTS IN COMPLEX INFRASTRUCTURE PROJECTS**

Susanne van Raalte, The Swedish Transport Administration and Dr. Beata Stahre Wästberg, Chalmers University of Technology, Sweden

**SWISS CDE BUND: AN OPEN AND ON PREM-PLATFORM FOR OWNERS OF INFRASTRUCTURE AND BUILDINGS**

Guido Biaggio and Dr. Odilo Schoch, Swiss Federal Office (FEDRO) Switzerland

### 11:00 Lunch

#### 12:00 Session 11 Digital twin



Chair: Dominique Chevillard, FNTP and buildingSMART France, France

12:00 **DIGITAL TWINS SERVING TERRITORIES : FROM INITIATIVES TO NEW PROJECTS IN FRANCE**

Dominique Chevillard, FNTP & buildingSMART France and Etienne Pansart, MINnD2050 and buildingSMART France, France

12:30 **DIGITAL TWIN FOR SUSTAINABILITY: THE AMBITIONS OF FRANCE THROUGH MINND2050**

Vincent Keller, Egis and MINnD2050, France

13:00 **DIGITAL-TWIN-ENABLED AND AI SUPPORTED PAVEMENT MAINTENANCE - CHALLENGE FOR MAINTENANCE BIM**

Prof. Rauno Heikkilä, University of Oulu, Finland

13:30 **ADVANCING SUSTAINABLE TRANSPORT INFRASTRUCTURE THROUGH AN OPEN-SOURCE DIGITAL PLATFORM**

Rahul Tomar, DigitalTwin Technology, Germany

#### Session 12 Standards and interoperability

Erno Tiensuu, ARKANACE, Finland

**BIM CLASSES OF INFRASTRUCTURE (BIM Klassen der Verkehrswege)**

Dr. Rico Steyer, AKG Software Consulting, Germany

**CAPTURING IDS INTO BIM AUTHORING TOOLS USING BSDD AS A MAPPING SYSTEM.**

Yoshiyuki Miyauchi, ONESTRUCION and Dr. Yoshihiko Fukuchi, Autodesk, Japan

**USING IFC 4.3 TO VERIFY AND CHECK ROAD COMPLIANCE WITH REGULATORY, FUNCTIONAL AND SAFETY REQUIREMENTS.**

Mauro Coletto, SierraSoft, Italy

### 14:00 Coffee

#### 14:30 Closing session



Chair: Annina Lehikoinen, buildingSMART Finland

14:30 **ADVANCING OPENBIM: A US PERSPECTIVE ON COLLABORATIVE DIGITAL TRANSFORMATION ACROSS SECTORS**

Dr. Jagannath Mallela, WSP, USA

15:00 **NORDIC PERSPECTIVE ON BIM – THE NBC YEARBOOK**

Susanne van Raalte, The Swedish Transport Administration, Sweden, Kristin Lysebo, Bane NOR, Norway and Johan Egholm, The Danish Road Directorate, Denmark

15:30 End of InfraBIM Open 2025

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