

# Tuesday, 15th January

# infra BIM OPEN TAMPERE 2019

9:00 Registration and Morning Coffee

## 10:00 Opening Session

Chaired by: Tarmo Savolainen (buildingSMART Nordic)  
Venue: Small auditorium

10:00 WELCOME FROM THE ORGANIZING COMMITTEE  
Tarmo Savolainen (buildingSMART Nordic)

10:05 OPENING WORDS  
Kari Wihlman, Finnish Transport Infrastructure Agency

10:30 EU BIM TASK GROUP – THE PUBLIC CLIENTS BIM PUSH  
Ingemar Lewen (The Swedish Transport Administration)

## 11:00 Country reports

Chaired by: Tarmo Savolainen (buildingSMART Nordic)  
Venue: Small auditorium

11:00 ROAD MAP OF DIGITAL DESIGN AND CONSTRUCTION OF THE FEDERAL MINISTRY OF TRANSPORT AND DIGITAL INFRASTRUCTURE - A USE CASE DRIVEN APPROACH  
Thomas Liebich (BIM4INFRA Consortium)

11:20 BANEDANMARK AND THE DANISH ROAD DIRECTORATE COLLABORATE ON THE DIGITAL TRANSFORMATION OF THE DANISH INFRASTRUCTURE INDUSTRY  
Gita Monshizadeh (Banedanmark), Anna Rosenkrantz (Banedanmark)

11:40 COUNTRY REPORT UK  
Philip Jackson (Intra-TeamIT Consultants Ltd)

## 12:15 Lunch, Exhibition and Networking

### 13:30 Asset Management 1

Chaired by: Tiina Perttula (Ramboll Finland Oy)  
Venue: Small auditorium

13:30 COMBINING EXISTING ASSET DATA IN RAILWAY INFRASTRUCTURE WITH BIM AND GEOSPATIAL DATA  
Chi Zhang (applitec GmbH / Ghent University)

14:00 THE EUOTL: ASSET INFORMATION MANAGEMENT FOR EUROPEAN ROADS USING SEMANTIC WEB AND LINKED DATA  
Jan Erik Hoel (Trimble Solutions Sandvika)

14:30 DIGITAL USE CASES FOR BRIDGE FACILITY MANAGEMENT  
Inka Lappalainen (VTI Technical Research Centre of Finland Ltd)

### 13:30 Planning and Design 1

Chaired by: Tomi Henttinen (BuildingSMART Finland / Gravicon Oy)  
Venue: Duetto 1

13:30 JOKERI LIGHT RAIL - INFORMATION MANAGEMENT IN ALLIANCE MODEL  
Liisa Kemppainen (Sito), Juuso Kuusinen (YIT)

14:00 UTILIZATION OF BIM IN DESIGN AND CONSTRUCTION - BLOMINMÄKI WASTEWATER TREATMENT FACILITY  
Lari Metsäpelto (YIT Infra Oy), Tommi Lius (Pöyry Finland Oy)

14:30 BIM IN DEVELOPMENT OF LARGE MULTI-PROJECT AREAS  
Heidi Piironen (City of Helsinki), Jarkko Räsänen (FCG Desing and Engineering Ltd)

### 13:30 Research 1

Chaired by: Rauno Heikkilä (University of Oulu)  
Venue: Duetto 2

13:30 IMPORTANCE OF GEOLOGICAL AND GEOTECHNICAL MODELS IN INFRABIM – CASE STUDIES IN ENGINEERING PROJECTS  
Rie Kudoh (OYO corporation)

14:00 ENHANCING MOTIVATION AND SKILLS DEVELOPMENT IN BUILDING INFORMATION MODELLING FOR INFRASTRUCTURE TOPICS BY USING ACTIVE LEARNING METHODS  
Raido Puust (Tallinn University of Technology / MAGNET Systems Finland)

14:30 VISUALISATION OF RISK INFORMATION IN BIM TO SUPPORT RISK MITIGATION AND COMMUNICATION: CASE STUDIES AND A FRAMEWORK  
Oliver Heinonen (Ramboll CM Oy)

### 13:30 Challenger 1

Chaired by: Erkki Mäkinen (Trimble)  
Venue: Riffi

13:30 REAL VALUE OF CONNECTED CONSTRUCTION  
Erkki Mäkinen (Trimble), Tuomas Hörrkö (Point Group Oy)

13:55 INFORMATION FLOW IN INFRA CONSTRUCTION PROJECT  
Heikki Halttula (MAGNET Systems Finland)

14:20 MACHINE CONTROL DESIGNED FOR OPEN INFRABIM  
Teemu Virtanen (Novatron Oy)

## 15:00 Coffee, Exhibition, Networking // Sponsored by MAGNET Systems Finland

### 15:45 Asset Management 2

Chaired by: Ingemar Lewen (The Swedish Transport Administration)  
Venue: Small auditorium

15:45 INFRABIM AS-BUILT MODEL OF THE TALLINN AIRPORT AIRSIDE AREA DEVELOPMENT PROJECT  
Jüri Pärtna (Reaalprojekt OU), Risto Vahenurm (BIMconsult OU)

16:15 DIGITALISATION FOR WATERWAY INFRASTRUCTURES – FIRST STEPS AND FIRST EXPERIENCES  
Joerg Boedefeld (Federal Waterways Engineering and Research Institute)

16:45 BIG IN SWEDEN - COCLASS FOR ASSET MANAGEMENT  
Mikael Malmkvist (Swedish Building Services), Mikael Törnkvist (The Swedish Transport Administration)

17:15 EDISON - BRIDGE INSPECTION USING UAVS AND ARTIFICIAL INTELLIGENCE  
Peter Furtner (VCE)

### 15:45 Construction 1

Chaired by: Jim Plume (buildingSMART Australasia)  
Venue: Duetto 1

15:45 INFRABIM WORKFLOW ON SITE AT NORWAY AND FINLAND - SUCCESS STORIES AND DIFFERENCES BETWEEN TWO NORDICS  
Petteri Palviainen (Novatron Oy), Trond Huus (Vassbakk & Stol)

16:15 THE NEW METRO » NACKA, SÖDERMALM AND SOUTHERN SUBURBS  
Conrad Malmstedt Ledin (Sweco Civil AB)

16:45 TAMPERE DECK AND ARENA – CONSTRUCTION PROJECT OVER RAILWAYS – PROVIDING THE RIGHT INFORMATION TO MAKE THE RIGHT DECISIONS  
Aki Kopra (Kreate Oy), Eero Särkkä (Ramboll Finland Oy)

17:15 CASE VALTARI – ALLIANCE TO DELIVER NEW ROAD IN LAHTI REGION WITH TIGHT COLLABORATION  
Kyösti Kanerva (Pöyry Finland), Heikki Lehkonen (Skanska Infra)

### 15:45 Digital System 1

Chaired by: Štefan Jaud (Technical University Munich / Obermeyer Planen + Beraten GmbH)  
Venue: Duetto 2

15:45 BIM IMPLEMENTATION FOR THE RAIL BALTICA GLOBAL PROJECT  
Raitis Busmanis (RB Rail AS), Jovita Starynina (RB Rail AS)

16:15 DYNAMO: AN EASY AND HELPFUL TOOL IN THE DESIGN OF A SCENIC FOOTBRIDGE  
Rosa Maria Torra Reventós (Sabadell City Council)

16:45 CREATING BIM »AS BUILT« 3D ROAD ELEMENTS BASED ON EXISTING ROADS POINT CLOUD SCAN DATA  
Leon Leban (CGS Labs d.o.o.)

17:15 FROM DATA TO BRIDGE DESIGN - MAKE THE MOST OF INFRASTRUCTURE OPEN DATA IN BRIDGE DESIGN AND ASSET MANAGEMENT  
Eetu Partala (Sweco)

### 15:45 Challenger 2

Chaired by: Erkki Mäkinen (Trimble)  
Venue: Riffi

15:45 3D INFRASTRUCTURE DATA INTEGRATION IN BIM BASED CONSTRUCTION PROCESSES  
Steffen Rabe (RIB Information Technologies AG), Hans Schulz (RIB Information Technologies AG)

16:10 LOUHI PROJECT DASHBOARD - CASE RAIDE-JOKERI & KRUNUSILLAT PROJECTS  
Arla Hillner (Sitowise)

16:35 INTEROPERABILITY IN INFRASTRUCTURE ASSET MANAGEMENT DURING PLANNING, CONSTRUCTION AND MAINTENANCE LIFECYCLES  
Jussi Laaksonen (Trimble Solutions Corporation)

17:00 WORKSITE COLLABORATION WITH INTERACTIVE DRONE MAPS AND LASER SCANNING DATA  
Lauri Hartikainen (Pointscene.com)

17:25 DATA DRIVEN INFRASTRUCTURE AND AUTOMATED DESIGN  
Phil Langley (Bryden Wood)

## 19:00 Conference Dinner

# Wednesday, 16th January

## 8:00 Registration

### 9:00 Planning and Design 2

Chaired by: Risto Vahenurm (BIMConsult OÜ)  
Venue: Small auditorium

09:00 **FULLY INTEGRATED BIM IN NORWEGIAN RAILWAY PROJECT**  
Simen Riseng Olsen (Norconsult AS)

09:30 **LIFE CYCLE PERFORMANCE FROM BIM FOR MAJOR INFRASTRUCTURE: CASE STUDY HS2, UK**  
Panu Pasanen (Bionova Ltd.)

10:00 **FIRST STEPS IN THE WORLD OF BIM IN ESTONIA**  
Erko Puusaag  
(Estonian Road Administration)

### Digital System 2

Chaired by: Winfried Stix (building SMART Austria)  
Venue: Duetto 1

09:00 **THE ROAD FROM CONNECTED BIM TO OPEN BIM**  
Peter Imbrechts (Neanex)

09:30 **BIM + GIS: THE KEY INGREDIENTS FOR DIGITAL TWIN**  
Jarkko Männistö (Sitowise Oy)

10:00 **INFORMATION FLOW IN DESIGN PHASE CASE YLÄSTÖ CITY OF VANTAA**  
Susanna Leinonen (Ramboll Finland Oy)

### Standards, guidelines, classifications 1

Chaired by: Miika Kostamo (Novatron)  
Venue: Duetto 2

09:00 **IFC INFRA DEVELOPMENT**  
Tiina Perttula (Ramboll Finland Oy)

09:30 **GEOBIM FOR FULL UNDERGROUND BIM DESIGN**  
Mats Svensson (Tyréns AB)

10:00 **THE PASILA-RIIHIMÄKI PROJECT**  
Teppo Rauhala (Novatron Oy),  
Maunu Tast (Sitowise Oy)

### Challenger 3

Chaired by: Teemu Kivimäki (Infrakit)  
Venue: Riffi

09:00 **ALL IN – BIM, CIM AND AIM FOR BUILT ENVIRONMENT**  
Teemu Nivell (Point Group Oy)

09:25 **STANDARDISING PRODUCT DATA FOR DIGITAL USE**  
Lars Chr. Fredenlund (coBuilder AS)

## 10:30 Coffee, Exhibition and Networking

### 11:00 Standards, guidelines, classifications 2

Chaired by: Juha Liukas (Sitowise)  
Venue: Small auditorium

11:00 **BIM IN LANDSCAPE - DEVELOPING LANDSCAPE INFORMATION MODELING**  
Vilma Pylkko (Ramboll Finland Oy)

11:30 **PILOTING MODEL-BASED ADMINISTRATIVE PROCESSING OF ENGINEERING PLANS**  
Majja Ketola (Sitowise Oy)

12:00 **A STUDY ON OPEN DATA FORMATS IN ROAD INFRASTRUCTURE PROJECTS**  
Daniel Söderlindh  
(The Swedish Transport Administration)

### Construction 2

Chaired by: Ville Suntio (Destia)  
Venue: Duetto 1

11:00 **BIM SOLUTION FOR THE WHOLE FACILITY LIFECYCLE**  
Igor Rogachev (S-INFO)

11:30 **HIGHWAY 4 KELLO - RÄINÄNPERÄ ROAD BUILDING PROJECT: DIGITAL QUALITY MANAGEMENT AND DATA HANDLING**  
Olli Planting (Destia Ltd),  
Katja Puolitaival (Welado Ltd)

12:00 **BIM AND SITUATIONAL AWARENESS IN PROJECT MANAGEMENT**  
Jarkko Aittoniemi (Sweco PM),  
Eelon Lappalainen (Sweco PM)

### BIM Competences

Chaired by: Timo Lehtoviita (Saimaa University of Applied Sciences)  
Venue: Duetto 2

11:00 **A "LESS-IS-MORE APPROACH" TO PROCUREMENT FOR INFRASTRUCTURE PROJECTS**  
Odilo Schoch (ETH Zurich / Schoch Arch. Serv. LLC)

11:30 **LET'S WAKE UP - LIMITED THINKING FOR BIM**  
Antti Karjalainen (WSP)

12:00 **TRAINING AND DEVELOPMENT MODEL TO ACHIEVE BIM COMPETENCIES IN CONSTRUCTION AND DESIGN TEAMS**  
Nada Milivojevic (Coventry University)

### Challenger 4

Chaired by: Pasi Joensuu (Infrakit)  
Venue: Riffi

11:00 **INFRACONSTRUCTION IN YEAR 2025**  
Teemu Kivimäki (Infrakit)

11:25 **SPEEDING UP BIM COLLABORATION**  
Kim Nyberg  
(Trimble Solutions Corporation)

11:50 **YOUR REALITY. YOUR WAY.**  
Mikael Svensson (Hexagon Geosystem)

12:15 **RETHINKING THE BUILDING INFORMATION MODEL**  
Henriikka Keskinen (VRT Finland Oy Ltd.)

## 12:30 Lunch, Exhibition and Networking

### 13:30 Co-Operation and Future

Chaired by: Tomi Henttinen (buildingSMART Finland / Gravicon Oy)  
Venue: Small auditorium

13:30 **NORDIC PUBLIC CLIENT'S BIM CO-OPERATION**  
Kristin Lysebo (BANE NOR)

14:00 **IFC RAIL: OVERVIEW AND METHODOLOGY**  
Guy Pagnier (IFC-Rail)

14:30 **NEXT GENERATION INFRABIM GUIDELINES IN FINLAND**  
Josefina Saarnikko (Sitowise Oy), Niki Tapper (Ramboll Finland Oy)

### 15:00 Closing Keynote

Chaired by: Tarmo Savolainen (buildingSMART Nordic)  
Venue: Small auditorium

15:00 **THE TWIN CITY IN HELSINKI-TALLINN AREA WILL BOOST ECONOMIC GROWTH AND OPEN THE DOORS TO EUROPE**  
Jyrki Keinänen (AINS Group)

15:30 **CLOSING ADDRESS**  
Jyrki Keinänen (AINS Group)

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