

infra BIM OPEN

T A M P E R E
2023

JAN 30 – FEB 1

Monday, January 30

14.00–16.00
14.40–17.00
15.00–16.30
15.00–16.30
15.00–16.30

Excursions
DEVELOPING THE TAMPERE RAILWAY STATION AREA - PROJECT
DIGITAL CONSTRUCTION BY XSITE® - NOVATRON FACTORY VISIT
VEKTOR.IO PRE-EVENT: LIVE DEMOS, CUSTOMER CASES AND DISCUSSIONS
TAMPERE DECK AND EVENT ARENA
INFRAKIT IBO PRE-SESSION

19.00–21.00 Get together at Tampere Hall

Tuesday, January 31

9:00

Opening session 

Chaired by: Annina Lehtikainen & Tarmo Savolainen, buildingSMART Finland

Venue: Park Hall

09:00 OPENING OF THE INFRABIM OPEN 2023 CONFERENCE

09:15 Keynote
Jon Brede Dukan, Bane NOR

09:45 PANEL DISCUSSION
DIGITIZING EUROPEAN PROCUREMENT WITH OPENBIM

Ilektra Papadaki, European Commission
Jon Brede Dukan, Bane NOR
Xavier Neuchwander, FNTF (the french National Federation of Public Works)

Moderated by Jaan Saar, Estonian Ministry of Economic Affairs & Communications



10:15 Coffee

10:45	Session 1 	Session 2 Lifecycle Data	Session 3 New Innovations
Chaired by: Jaan Saar, Ministry of Economic Affairs and Communication, Estonia Venue: Park Hall	Jim Plume, buildingSMART Australasia, Australia Sonaatti 1	Dominique Chevillard, FNTF, France Sonaatti 2	
10:45 LOOKING FOR THE NEXT BIM STEP – TRAFIKVERKET SETS DOWN THE FOOT (SOFTLY) Dr. Peter Axelsson, Karin Andersson & Anna Neidenström, Trafikverket Sweden	MINND - BIM AND RECORDS MANAGEMENT – A FOCUS OF INFORMATION & ARCHIVIST PROFESSIONALS Chantal Pasquier, Egis SA & Estelle Pichat, Systra, France	SELF-LEARNING PROCESS IN BRIDGE DESIGN AND FABRICATION UTILIZING FEEDBACK LOOPS: A CASE STUDY Prof. Antti Peltokorpi, Aalto University, Finland	
11:15 FINNISH TRANSPORT INFRASTRUCTURE AGENCY’S INFRABIM REQUIREMENT GUIDELINE 2022 Tarmo Savolainen & Jenna Ikonen, Finnish Transport Infrastructure Agency, Finland	REPRESENTATION OF TOLERANCES AND UNCERTAINTIES IN AN INFRASTRUCTURE DIGITAL MODEL Pierre Benning, BOUYGUES TP, France	PLANTING DESIGN ON LARGE INFRASTRUCTURE PROJECT, A NEW APPROACH COMBINING BIM, CAD, GIS AND REALISTIC RENDERING FOR BETTER DESIGN AND FACILITATED MAINTENANCE. Alexandre Prats & Killian Rolland, Setec, France	
11:45 IMPLEMENTATION OF RPA AND PYTHON TOOLS IN BIM COORDINATION OF RAIL BALTICA PROJECT Dmitri Garbuzenko, RB Rail, Estonia	AVOIDANCE OF INFORMATION LOSS BY IMPLEMENTING AN IFC-BASED PROCESS IN THE LIFE CYCLE OF SEWAGE SYSTEMS Stefan Schemionek, FBS - Fachvereinigung Betonrohre und Stahlbetonrohre e.V., Bernhard Bock, member of the buildingSMART Germany, Mario Bodenbender, Finger Baustoffe GmbH, Lukas Schrode, MTS Schrode AG,	JOIN US FOR A VIRTUAL ON-SITE MEETING OF A SWISS TRACK RENEWAL PROJECT Marc Pingoud, Rosenthaler + Partner AG & David Holdener, Rhomberg Sersa Rail Group, Switzerland	

12:15 Lunch

13:15	Session 4 	Session 5 Case Examples: Bridge Design	Session 6 Sustainability
Chaired by: Tarmo Savolainen, Finnish Transport Infrastructure Agency, Finland Venue: Park Hall	Christophe Castaing, MINnD, France Sonaatti 1	Annina Lehtikainen, buildingSMART Finland Sonaatti 2	
13:15 HOW TO USE THE BUILDINGSMART DATA DICTIONARY TO EXTEND IFC FOR YOUR NEEDS Léon van Berlo, buildingSMART International, United Kingdom	AUTOMATED DATABASE DRIVEN DESIGN OF THE KRUUNUVUORI BRIDGE STEEL STRUCTURE: STATE OF THE ART WORKFLOW FROM FABRICATION TO SITE INSTALLATION AND QUALITY CONTROL Aki Kopra, Kreate, Eero Särkkä, Ramboll Finland & Atte Mikkonen, SOFIN Consulting, Finland	THE PROPOSALS FROM MINND TO LEVERAGE ITS IMPORTANT OUTCOMES SINCE 2014 TO MAKE THE DIGITAL CONTINUITY SERVE THE MAJOR TRANSITIONS ? Vincent Keller, Egis/MINnD, France	
13:45 HOW TO UTILIZE BSDD IN INFRASTRUCTURE OWNERS PERSPECTIVE - CASE FINNISH TRANSPORT INFRASTRUCTURE AGENCY Niki Tapper, Ramboll Finland & Teea Kantojärvi, Finnish Transport Infrastructure Agency, Finland	FRIDOLINSBRÜCKE CASE STUDY Tomasz Kuchna & Leda Calgeer, Basler Hofmann, Switzerland	CARBON IMPACT OF DIGITAL TOOLS USED IN AN INFRASTRUCTURE PROJECT Pierre Benning, BOUYGUES TP, France	
14:15 USING IFC4.3 WITH BSDD FOR RAILWAY Giulia Minnucci, Engisis, Italy	DRONES & GAME ENGINES IN BRIDGE DESIGN Anthony Little & Niklas Niemi, Afry, Finland	BIM – COLLABORATION AND OPEN INFORMATION FLOW FOR SUSTAINABLE DEVELOPMENT IN A DESIGN PROJECT Hanna Leskinen, ARKANCE, Finland & Nicolas Miravalls, ORIS, France	

14:45 Coffee

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15:15

Session 7 LIVE Case Examples: Construction

Chaired by: Petteri Palviainen, Novatron, Finland

Venue: Park Hall

15:15 **EMPOWERING COMPANY'S OPENBIM ADOPTION**

Jero Juujärvi, YIT Finland, Finland

15:45 **KALASATAMA TRAMWAY ALLIANCE PROJECT - DEVELOPMENT OF CO-OPERATION OF PLANNING MANAGEMENT AND BIM-CONSTRUCTION ALSO LOOKING FOR TOOLS FOR INCREASING SUSTAINABILITY**

Marko Virtanen, Destia &
Valtteri Brotherus, WSP Finland, Finland

16:15 **OPEN BIM IN CROWN BRIDGES LIGHT RAIL ALLIANCE**

Jari Pelkonen, YIT Finland / Crown Bridges Alliance &
Slava Ivanov, NRC Group Finland / Crown Bridges Alliance, Finland

16:45 **Keynote**

Mandating BIM for Infrastructure and Construction DX in Japan
Nobuyoshi Yabuki, Osaka University

Session 8 BIM & GIS

Juha Liukas, Sitowise, Finland

Sonaatti 1

OPEN BIM FOR AREA DEVELOPMENT - CASE HIEDANRANTA

Jarkko Sireeni, xD Visuals, Finland
Veli-Pekka Koskela, Ramboll Finland, Finland

USE OF BIM-GIS METHODOLOGY FOR PREVENTION OF HYDROLOGICAL INSTABILITY IN ALPINE VALLEYS

Davide Lorenzo Dino Aschieri &
Anna Osello, Politecnico di Torino, Italy

ARKANCE - PLATINUM PARTNER PRESENTATION

Session 9 IFC Implementation

Richard Kelly, buildingSMART International, United Kingdom
Sonaatti 2

WHY AND HOW THE IMPLEMENTATION OF THE IFC4.3 FOR INFRASTRUCTURES IS A CRUCIAL STEP TOWARDS THE DIGITAL TWIN AND DIGITAL CONVERGENCE IN THE RAIL INDUSTRY ?

Vincent Keller, Egis/MINnD, Etienne Pansart, SYSTRA, &
Edouard Chabanier, SNCF Réseau, France

ENHANCING PROJECT FLOW WITH QUALITY ASSURANCE: TAPPING INTO DATA

Štefan Jaud, The Hard Code, Germany

VEKTORIO - PLATINUM PARTNER PRESENTATION



17:30

Bus transportation to Tampere City Hall

18.00–19:30

Tampere City Reception

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Wednesday, February 1

09:00	Session 10 Design Optimization	Session 11 Digital Asset Management 1	Session 12 Initial Data
Chaired by: Venue:	Jim Plume, buildingSMART Australasia, Australia Park Hall	Jaana Saar, Ministry of Economic Affairs and Communication, Estonia Sonaatti 1	Jesper Pelby, Sund og Bælt, Denmark Sonaatti 2
09:00	OPTIMIZED INFRASTRUCTURE DESIGN PROCESS IN AN OPEN BIM ENVIRONMENT Mewail Gidey, Allplan Infrastructure, Austria	METHODOLOGY FOR DATA-SUSTAINABLE BIM-MODELS Ronald Bergs, Gobar Consulting Group, Netherlands Theo Kremer, Municipality of Amsterdam, Netherlands	SNCF/ARKANCE SYSTEMS : AUTOMATIC MODELING OF THE EXISTING CONDITION ENVIRONMENT IN BIM FOR PROJECT CONTEXTUALIZATION Lancien Nolwenn, ARKANCE, Benjamin Lehrer, ARKANCE & Judicael Dehotin Adourno, SNCF, France
09:30	STRUCTURAL INDUSTRIALIZATION OF REINFORCED CONCRETE BRIDGES WITH VIRTUAL DESIGN AND CONSTRUCTION (VDC) Felipe Quiroz, TSC Innovation, Peru	CCI-EE: TOWARDS DEVELOPMENT OF STANDARDS-BASED CONSTRUCTION CLASSIFICATION SYSTEM FOR BIM-ENABLED BUILT ENVIRONMENT Prof. Raimo Puust, Tallinn University of Technology, Estonia	INTRODUCING GROUND PENETRATING RADAR FINDINGS TO BIM-MODELS OF TRAIN TRACKS Julia Wolf, DB Engineering & Consulting, Germany
10:00	THE DEVELOPMENT OF A SYSTEM FOR GENERATING PROCUREMENT AND CUTTING PLANS OF REBAR FROM BIM MODELS USING AN OPTIMIZATION TECHNIQUE Sheng Lian, Shimizu Corporation, Japan	PRODIGAL CASE KUOPIO - INFORMATION FLOW OVER THE LIFE CYCLE OF AN INFRASTRUCTURE PROJECT Juha Liukas, Sitowise, Finland	DIGITAL GEOTECHNICAL DATA MANAGEMENT CONCEPT - FOR UTILIZATION IN AN LC C PERSPECTIVE Dr. Mats Svensson, Tyréns, Sweden
10:30	AI IN CORRIDOR DESIGN Tuomo Palomaa, Ramboll Finland, Finland	TRIMBLE - PLATINUM PARTNER PRESENTATION	GEOLOGICAL BIM MODELLING FOR DESIGNING ROADS BASED ON GEOLOGICAL AND GEOPHYSICAL SURVEYS – A CASE STUDY Dr. Kazunori Takahashi, OYO Corporation, Japan
10:45		SYMETRI - PLATINUM PARTNER PRESENTATION	

11:00 Lunch

12:00	Session 13 Future Goals	Session 14 Digital Asset Management 2	Session 15 openBIM as Business Enabler
Chaired by: Venue:	Tarmo Savolainen, Finnish Transport Infrastructure Agency, Finland Park Hall	Peter Axelsson, Trafikverket, Sweden Sonaatti 1	Eivind Pagander Tysnes, Bane NOR, Norway Sonaatti 2
12:00	BIM-ENABLED LEARNING ENVIRONMENT AS AN EDUCATIONAL SOLUTION Prof. Kalle Kahkonen, Tampere University, Finland & Prof. Raimo Puust, Tallinn University of Technology, Estonia	INFORMATION AND THE INFRASTRUCTURE. AND HOW WE PRESERVE THAT INFORMATION FOR THE FUTURE Dr. Göran Samuelsson, Trafikverket Sweden, Sweden	IFC4.X IMPLEMENTERS FORUM - THE BSI INITIATIVE TO BRING IFC 4.3 INTO SOFTWARE Evandro Alfieri, buildingSMART International, Netherlands
12:30	SUPPORTING AUTOMATED MOBILITY WITH DIGITAL TWIN Ville Kilpiö & Jarkko Männistö, Sitowise, Finland	AIM-SOLUTION FOR NYE VEIER TRØNDELAG Jan Erik Hoel, Trimble & Emil Nesvoll Maana, Triona, Norway	COST MANAGEMENT AND OPENBIM Anni Heilala, Ihku-alliance, Finland
13:00	CURRENT STATE OF DIGITAL TWINS IN INDUSTRY Piotr Smolira, Technical University of Denmark, Denmark	AN OPEN BIM WORKFLOW FOR BRIDGE MONITORING Alfonso Perna, ACCA software, Italy	NEW 3D BIM MODELLING METHODS FOR ROAD AND RAIL INFRASTRUCTURE Leon Leban, CGS Labs, Slovenia
13:30	MAKING OPEN BIM ACHIEVABLE FOR THE ENTIRE BUILT ENVIRONMENT LIFE CYCLE Annina Lehtikainen & Meeri Smolander, buildingSMART Finland, Finland	XSITE MACHINE CONTROL - PLATINUM PARTNER PRESENTATION	ROAD DESIGN WITH INFORMATION MODELING ADOPTING IFC 4X3 Alessio Gori, Politecnica Ingegneria ed Architettura Soc. Coop., Mauro Coletto, SierraSoft Srl, Italy
13:45		INFRAKIT - PLATINUM PARTNER PRESENTATION	

14:00 Coffee

14:30	Closing Session
Chaired by: Venue:	Tiina Perttula, Ramboll, Finland Park Hall
14:30	ROLE OF OPEN STANDARDS AND BIM (MODEL BASED INFORMATION) IN THE CONSTRUCTION INDUSTRY WORKFLOW Leif Granholm, Trimble Solutions, Finland
15:00	AN OVERVIEW OF IFC 4.3 INFRASTRUCTURE EXTENSIONS AND WHAT THEN? Tiina Perttula, Ramboll Finland, Finland
15:30	END OF INFRABIM OPEN 2023

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