BIM for Rail Bootcamp 2024

June 4-5 @SBB, Bern-Worblaufen , Switzerland

Day 1 – Tuesday 4 June 2024

Time	Duration	Program item
9.30 – 10.00	**0:30**	**Walk-in** - **Registration**
10.00 – 10.15	**0:15**	**Welcome and introduction of the program for day 1**
10.15 – 10.45	**0:30**	**Welcome and keynote by SBB, Billal Mahoubi** - **Overview BIM@SBB**
10.45 – 11.00	**0:15**	**Coffee and networking break**
11.00 – 11.30	**0:30**	**Keynote by ProRail, Marjoleine Jonker** - **ProRail's digitalisation vision and the adoption of BIM**
11.30 – 12.00	**0:30**	**Keynote by Birmingham Centre for Railway Research and Education, Paul Plummer**
12.00 – 12.30	**0:30**	**Keynote by buildingSMART Switzerland, Birgitta Schock** - **OpenBIM and IFC4.3 (Update from the Railway Domain)**
12.30 – 13.30	**1:00**	**Lunch and networking break**
13.30 – 14.15	**0:45**	**Workshops round 1** 1 **BIM Implementation in ADIF and CDE deployment** Javier Lozano Lopez, ADIF 2 **Order initiation & base data for as-built BIM projects** Sandra Furrer and David Holdener, Rhomberg Sersa Rail Group 3 **Vision on Digital Asset Management, using digital twins in Irish Rail** Jude Carey, Irish Rail 4 **Deep Dive into IFC Rail** Chi Zhang, SBB
14.15 – 15.00	**0:45**	**Workshops round 2** 1 **Value based collaboration - an investigation into the challenges of a Q-Gate test protocol from an architect's perspective** Birgitta Schock and Igor Karwacki, schockguyan GmbH 2 **Assurance of AI enabled Digital Twins** Pieter Zuiddam and Jorge Aldegunde, DNV 3 **Information Need on the Construction Site** Marie Kronborg Ellemose and Astridur Elin Asgeirsdottir, Aarsleff Rail 4 **Consistency of data requirements from asset management to BIM** Basil Apotheloz, SBB
15.00 – 15.15	**0:15**	**Coffee and networking break**

15.15 – 15.45	**0:30**	**Keynote Linh Truong Hong, GeoNext** - Creation of digital twins from high quality point clouds
15.45 – 16.15	**0:30**	**Review BIM for Rail whitepaper**
16.15 – 17.00	**0:45**	**Workshops round 3** 1 **Implementing AI-Powered Rail Inspections: Best Practices for Control and Governance** Mike Butler and Nick Smith, Cordel 2 **BIM and Point clouds** Kirstin Alphenaar, GeoNext 3 **Use cases for an "as built" 3D-visualisation model, after finishing a railway infrastructure project** Marc Pingoud, Rosenthaler + Partner AG 4 **Concept and realisation of component library** Mercedes Santos, SBB
17.00 – 17.25	**0:25**	**Panel discussion about BIM and Asset Management with the perspective on BIM by asset owners, contractors, engineering companies and railway suppliers**
17.25 – 17.30	**0:05**	**Final remarks of Day 1**
17.30 – 22.00		**Check-in hotels and evening program @Head Quarters SBB, Bern-Wankdorf**

Day 2 – Wednesday 5 June 2024

Time	Duration	Program item
8.30 – 8.45	**0:15**	**Walk-in**
8.45 – 9.00	**0:15**	**Welcome and introduction of the program for day 2**
9.00 – 10.00	**1:00**	**Keynote Samuel Teo, Land and Transport Authority Singapore** - Enterprise architecture as the linking pin in the complex field of building information modelling, asset management and digital twins.
10.00 – 11.00	**1:00**	**Workshops round 4** 1 **BIM for Mobility Hubs: similarities in designing stations and airports** Janek Pfeifer, Deutsche Bahn and Daniël Gmelig Meyling, NACO Netherlands Airport Consultants 2 **Evaluation of BIM deliverables in the Rail Baltica project** Urmas Alber and Jovita Starynina, Rail Baltica 3 **SBB rule sets, binding for creating BIM technical models in IFC format.** André Wegener, SBB

		4 **AI, ML, Big data and Digital Twins – live demo of a digital twin for crowd management at stations** Hans Tönissen, Royal HaskoningDHV
11.00 – 11.15	**0:15**	**Coffee break**
11.15 – 12.00	**0:45**	**Workshops round 5** 1 **Leveraging Ontologies for Object Type Libraries (OTL), Creation: Governance, Use, and Benefits** Karrar Ibrahim, Marco Andersson and Amra Halilovic, Trafikverket 2 **Photogrammetry of railway bridges** Martin Laursen, Banedanmark 3 **The future of digital delivery of designs; an interactive discussion about pragmatic ways of implementing ISO 19650 in the railway supply chain** Ron Rijkers, Movares 4 **Project-based applications of BIM@SBB standards** Fernanda Benezra (GESTE) and Maria Tapia (SBB)
12.00 – 12.45	**0:45**	**Workshops round 6** 1 **Overview of IT implementation at BIM@SBB** Mercedes Santos, SBB 2 **Verification plan and verification rules Data quality** Fabian Wicki, SBB 3 **But what data is actually required? A story of inspiration and failure in working with information requirements and open standards** Jan-Henk Oldenburg, Royal HaskoningDHV 4 **The digital transformation journey of TfL** Attwell Mlilo, Transport for London
12.45 – 13.30	**0:45**	**Lunch and networking**
13.30 – 14.15	**0:45**	**Workshops round 7** 1 **GeoBIM@Zentralbahn** Michael Unterkircher, die Zentralbahn 2 **Change management** Marcel Liniger, SBB 3 **How good is your data?** Joe Preece, Birmingham Centre for Rail Research and Education (BCRRE) 4 **„Real Word challenges BIM blue prints"– BIM-To-Practice transitions within railway infrastructure projects at Deutsche Bahn** Volker Uminski, WSP and Julian Trujillo-Lopez, DB InfraGO
14.15 – 14.45	**0:30**	**Keynote by Christos Papatheologos, SBB** - The BIM implementation approach of SBB: ramp up of project portfolio followed by a panel discussion
14.45 – 15.15	**0:30**	**Closing panel discussion** - Exchange of information regarding the implementation of BIM by Rail Infrastructure Managers

15.15 – 15.30	**0:15**	**- End of Day 2 and closing remarks**
16.00		**- Technical tour Bern Central Station**