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International Doctoral Program in Civil and Environmental Engineering

SEMINAR

Digitalization of Rail Baltica Global Project

Raitis Busmanis

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Riga Technical University

Location:

Aula Magna
UNIPG Campus of Engineering
Via G. Duranti, 93, Perugia

Timetable:

February 24th 2025 - 3:00 p.m. (CET)

Abstract

This seminar will introduce you with the *Rail Baltica Global Project* in general and briefly explain the current status of the project. The main focus of the lecture will be about the digital principles, processes and tools used for the implementation of this complex, multi-discipline mega project in all three Baltic Countries.

During the presentation it will be explained how and to what extent *BIM*, *GIS* and asset register is applied for the project, what use cases and requirements there are towards the supply chain for each of the processes. This presentation will give you an understanding and insight what *RB Rail* team is doing in order to achieve the goal of one day having the Digital Twin of Rail Baltica.



Raitis Bušmanis has been working with BIM systems and software for more than 11 years. Started his involvement with BIM systems in an innovative private company in Latvia as an engineer and was a part of the core team responsible for developing the internal BIM standards and quality criteria. From August 2014 continued his career in Finland joining Trimble Solutions Oy (previously Tekla Oy) as Software Specialist supporting clients globally and working tightly with the developers and other stakeholders. Later, as Project Manager, was responsible for testing the latest BIM software's improvements and developments with end-users. Raitis has a Professional Master Degree in Transportation Engineering from Riga Technical University and started his career in this industry as a bridge designer. Joined the RB Rail AS (Rail Baltica Global Project coordinator) team in January 2018 to lead the BIM implementation for the project and later took the position as Head of Virtual Design and Construction department which is responsible for BIM (Building Information Management), GIS (Geographic Information System), AR (Asset Register) system and standard implementation for the Rail Baltica Global Project. Since January 2025 he has joined the Riga Technical University team as Deputy Director for Construction Digitalization in the Institute of Civil Engineering at the Faculty of Civil and Mechanical Engineering while also working in Rail Baltica project as Virtual Design and Construction consultant.

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