BIM for Railways: Enhancing Design Efficiency, Sustainability and Decision Quality at Rail Baltica Project



SPEAKERS





Infrastructure BIM Manager BIM Manager at Estonian sections Sustainability Lead in Railway Systems

Working at IDOM for 5 years. Civil engineer looking to bring BIM and sustainability goals together. Always in the look for implementing new technologies in infrastructures.



Infrastructure BIM Manager BIM Manager at Lithuanian sections

Working at IDOM for 3 years. Civil engineer passionate about finding the right tools and defining optimized workflows to simplify design processes

ABOUT IDOM

We are an **association of independent professionals** working in the fields of Consulting, Engineering and Architecture, sharing common objectives and work practices, at the service of our clients.

> 65 years

125 countries

4,000 professionals

850 partners



IDOm

SPANISH DESIGN FIRM

#94 🜆

GLOBAL DESIGN FIRMS

Our Soul



THE CLIENT

The centre of our activity. Assuming the needs and difficulties of our clients as our own.



We believe in the power of human relationships as a motivating force to overcome difficulties



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PROFESSIONAL DEVELOPMENT

Our team seeks excellence, taking on challenges with enthusiasm



RAIL BALTICA





DOM THE MOST AMBITIUS RAILWAY PROJECT IN EUROPE Bentley

Advancing Infrastructure





COMMON DATA ENVIROMENT



IDOM - Rail Baltica Team



DATA MODELLING

Bentley

Advancing Infrastructure



DESIGN AND VISUALIZATION



LumenRT

CONNECT Edition



POINT CLOUD AND DESIGN INTEGRATION













FROM DESIGN TO CONSTRUCTION





SUSTAINABILITY ANGLE

Bentley Advancing Infrastructure



CLIMATE CHANGE MITIGATION

- Reduction in 18.3% in air pollution
- Reduction in 4.5% noise reduction



Special passages for wildlife will be built to MINIMISE THE IMPACT ON THE NATURAL HABITATS and migratory routes



New participants with **DIFFERENT VALUE PERPESTIVES** among affected communities are.

SUSTAINABLE JOB OPPORTUNITIES

European Commission to include Baltic Countries within **NEXT GENERATION EU FOUNDS**



RETURN OF INVESTMENT



REDUCING TIME lapses between project stages

and making TIGHTER COST ESTIMATIONS

HIGH TRAIN SPEED

- Tallin-Riga in 1 hour and 40 minutes (4 hours by car)
- Tallin-Vilnius in **3 hours and 38 minutes** (7 hours and 40 minutes by car)

HIGH EFICIENCY

- Saving 5,3 million passenger hours every year
- Saving 2.9 billing € in transport freights transport
- Saving 7.1 billion € in climate change costs

Rail baltica's measurable **SOCIOECONOMIC BENEFITS** will tally up to **16.2 BILLION EUROS** compared to 5.8 billion euros for its cost.

HIGH TRAIN FRECUENCY

- Tallin-Wasaw 4 times a day
- Vilnius- Warsaw 10 times a day
- Night trains to Berlin

HIGH CAPABILITY

5 million passengers and 16 tons of cargo a year

*Based on Rail Baltica 2017 Cost-Benefit Analysis (CBA)

OUR COMMITENT, YOUR SUCCESS



Rail Baltica