

**User name:** INECO

**Project name:** RBDTD-LV-DS3 design and construction supervision

**Location:** Vangazi, Latvia

**Background:**

- New rail line runs along the Estonian and Latvian border to Vangazi, Latvia.
- It includes 41 overpasses, eight ecoducts, and 17 viaducts, one of which stretches 1,480 meters over the Gauja River.
- INECO is undertaking design and supervision services for constructing the new rail line.

**Challenges:**

- Included a vast amount of assets to be designed and built.
- Had to adhere to the standards of Estonia, Latvia, and the European Union.
- Site contained peatland that created geotechnical issues.

**Solution:**

- The team used ProjectWise to create a connected data environment that allowed them to grant access to a validated source of information.
- OpenRail and OpenRoads helped model hundreds of kilometers of the roads and railways.

**Outcomes:**

- Infrastructure and the professionals responsible for designing, building, and operating it are under pressure from growing demand, limited resources, climate change, and more.
- When complete, the project will help link the Baltic states to the European Union for the first time.
- Estimated to save 5.3 million passenger hours per year, EUR 7.1 billion in climate change costs, and over 400 human lives over the next 30 years.

**Quote:** "From a civil BIM perspective, Bentley's open software is unbeatable, due to its capacities to generate its own models with enough flexibility to generate and integrate associated data." – *Luque Rodriguez, BIM Manager, INECO*

**Image caption/courtesy 1:** INECO used ProjectWise to manage the vast amount of data for the project. *Image courtesy of INECO.*

**Image caption/courtesy 2:** OpenRail and OpenRoads helped model hundreds of kilometers of the roads and railways. *Image courtesy of INECO.*

**Image caption/courtesy 3:** ProjectWise created a connected data environment that allowed INECO to grant access to a validated source of information. *Image courtesy of INECO.*

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