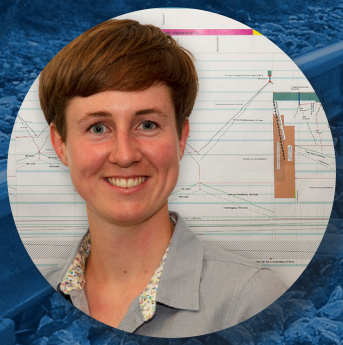

> With Trimble TILOS we have an excellent support tool for making important choices and decisions. I can very easily check and adjust things, and immediately see what cost consequences that might cause
>
> *Andrea Liereng, Norconsult, Norway*

Unique control on big rail and road project with Trimble TILOS

Norway's largest joint venture construction project for road and rail is being planned using a special-purpose infrastructure planning technology to maximize control on progress and costs

Joint venture project

Ringeriksbanen and E16, Sandvika – Hønefoss, Norway

- 40 km of dual-lane railway
- 26 km of railway tunnels
- 2 new railway stations
- 24 km of four-lane euro-standard roads

+ several long bridges

Clients

Bane NOR, Norwegian Public Road Administration

Consulting companies

Norconsult, Aas-Jakobsen, Asplan Viak (project specific company: NAA AS)

Effective planning

In order to carry out the project in terms of volume, complexity and speed, it was crucial for the clients to establish an efficient planning environment and use tools that ensure on-time deliveries and Quality.
It was decided to use Trimble's infrastructure planning tool TILOS. The purpose being to get all subplans coordinated in one overall progress plan that Bane NOR and NAA could use as a management tool.

Holistic planning process

"In the beginning each subproject produced their own progress plans using traditional tools like MS Project and Excel," explains civil engineer and planner Andrea Liereng, Norconsult. "But already in the early stages of the project, when the main progress outlines for each of the sections were ready, we had to start putting the subplans together to get an overview. It is absolutely crucial to see a holistic plan in order to coordinate the progress between the sections. In practice, this did not prove feasible with the traditional tools."

Optimal mass handling

"The first goal was to coordinate the sections in such a way that the overall mass handling became fairly optimal. We worked with this through the winter of 2017 to get a good mass balance between the sections," continues Andrea Liereng.

Cost control

"Also, even the overall cost elements are part of the progress plan," she points out. "In many ways, getting the costs into the tool was an aha-experience. Being able to see what the project will cost per month or year is invaluable, not least for the contractors and the authorities granting the funding."

According to the revised plans the construction start-up will be in 2021-2022 and completion in 2028/2029.

Read the full article on civil.trimble.com