

Road construction: Can it be done faster?

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Civil engineering/ Infrastructure



We at PORR have only one answer to this question: yes. And so we completed the entire bypass in Arad a full four months earlier than planned. And that's how we did it.

It took us just 14 months to build the 11.08-kilometre Arad bypass, the railway overpass, the 1,116-metre bridge over the river Mureş, four roundabouts, the 3-metre-wide and 7-kilometre-long cycle path, and the intelligent lighting system along the bypass. The most spectacular part was the correct positioning of the two 60-metre centre sections of the metal

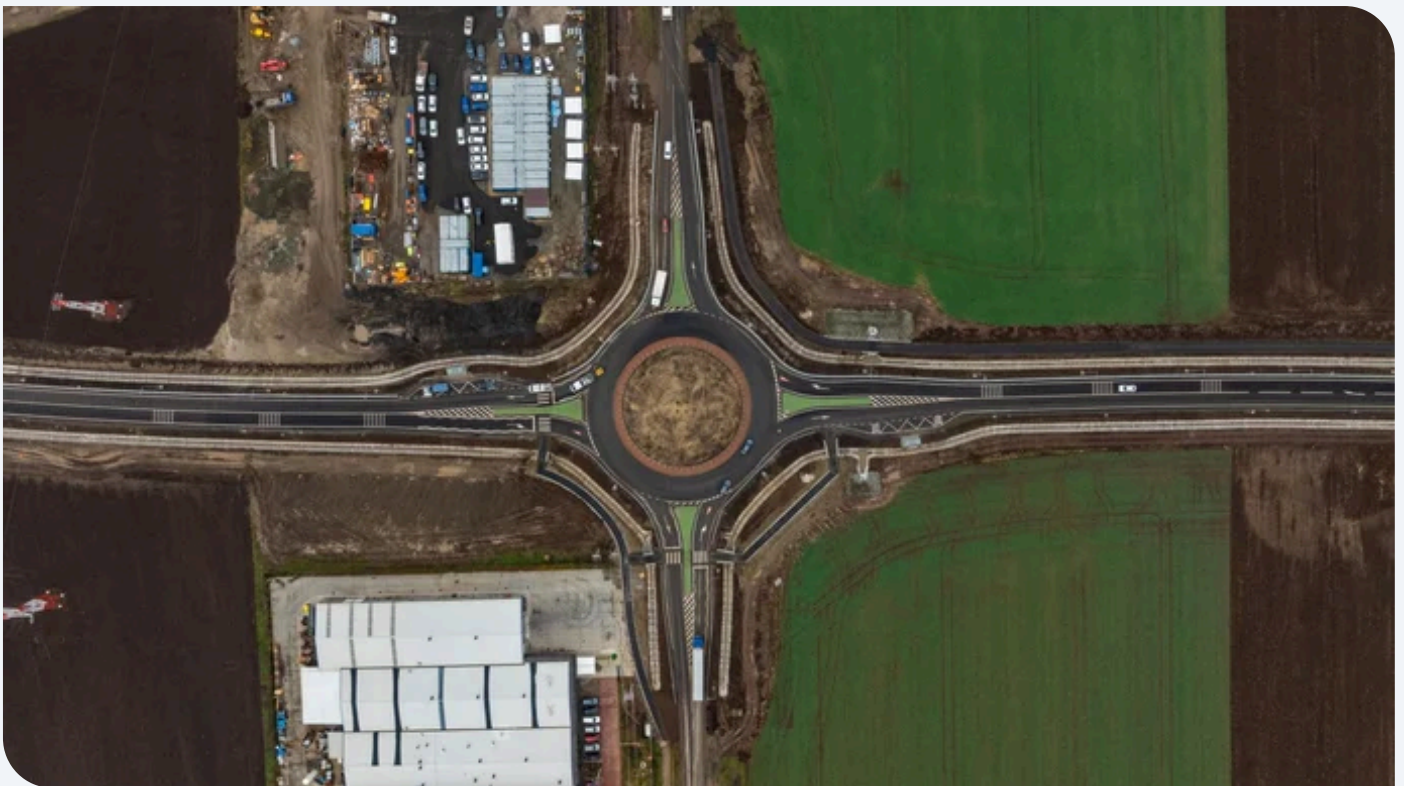
bridge, for which a special heavy-duty crane was used. Together, we have exceeded quality standards, realised a high-quality, long-lasting project in a shorter time, and thus demonstrated that we are on the right track: there is no obstacle that we cannot overcome.



Solutions

We had to wait four months for planning permission. We had to lay the supply lines, which was severely delayed for various reasons. And we had to make up that time. We carried out the subsequent work in extended shifts and completed the laying of a main gas pipeline in mid-October – just two months before acceptance – although this was a

prerequisite for the construction of the nearby roundabout. The discovery of unknown supply lines – such as a gas pipe on the construction site – was also tricky and could have disrupted our schedule once again. But we were always highly motivated and committed. Delivering the project on time and in top quality was our main priority.



Longevity

The warranty period for the work is seven years. We had to take this aspect into account during the execution of the project. That is why we used particularly high-quality and durable materials that exceeded the required quality level. Examples of this include the binder and surface course with asphalt mixtures with modified bitumen, the use of crushed

aggregates for the stabilising ballast layer, the installation of expansion joints with a service life of 25 years, and the corrosion protection for the concrete structures of the railway overpass and the bridge over the Mureş. We are very proud of what we have achieved here. As long as we work shoulder to shoulder, anything is possible