A1 motorway, Gdańsk – Toruń is one of the most important transportation routes in Poland and throughout Europe. It will become part of the Trans-European Transport Route, leading from Gdańsk, Poland to Vienna, Austria via Katowice, Poland and Brno, Czech Republic. It is a project of strategic and economic importance, creating numerous new investment opportunities.

The Skanska-NDI joint venture is responsible for designing and constructing the entire 152km (95 miles) stretch linking Rusocin near Gdańsk to Czerniewice near Toruń.

In December 2007 the northern part of the first phase of the highway – 25km (16 miles) long – was handed over more than a year ahead of schedule. In October 2008 the team finished the construction of the remaining 65km (40 miles) between Swaróźyn and Nowe Marzy – this time two months ahead of schedule. In spring 2009 Skanska-NDI started the second phase of the project that covers the remaining 62km (39 miles) of fully-equipped motorway.

At a project of this scale it was essential to allocate heavy equipment to different areas of the site depending on the weather conditions and actual needs. 3-D systems have helped in this task because operators have access to the entire 3-D model of motorway and can promptly respond to the needs of site managers.

The precision of work plus savings in time, quality issues and great flexibility of machine usage led the team to the conclusion that BIM will be implemented on upcoming projects. Using experience gained on the A1 motorway, Gdańsk – Toruń and trained and experienced people, the team is able to deliver a high-quality product to the client.

"Machines working with 3-D machine guidance systems increase the efficiency of construction works on the site and facilitate planning and compliance with the schedule, which is very tight on a project as big as Gdańsk – Toruń motorway. Thanks to the machines equipped with the 3-D system we are certain that irrespective of fast rate the works are completed precisely. To be literal – down to the exact millimeter."

Torbjörn Nohrstedt
President of the Management Board,
Gdańsk Transport Company

**A1 Motorway, Gdańsk – Toruń**

**Total length** 152km (95 miles), Phase I – 90km (56 miles), Phase II – 62km (39 miles)

**Client** Gdańsk Transport Company S.A.

**Contract value** EUR 1.25 billion (USD 1.6 billion)