

TLS and Building Information Modeling (BIM) - The BIM Project Central Railway Station Hannover

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SUMMARY

The central Station of Hannover is an important railway junction for northern Germany. It serves for more than 250000 passengers a day. To continuously offer a modern and barrier-free railway station all platforms, platform roofs and the subterranean shopping area will be refurbished in the next years. The Deutsche Bahn (German Railway) and its subsidiary companies agreed to manage this project with BIM. From the very beginning of the project the information management of the operating phase was taken into account. Measured surveys and GIS are highly valued due to their coordinating role in BIM. This comprises the geodetic reference system, precise and complete point clouds from terrestrial laserscanning (TLS), 2D/3D-CAD data management and, last but not least, the well organised and parameterised creation of a virtual building elements for BIM.

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