

# AlpTransit-Depot, Sigrino

Alp Transit is presently building high speed tunnels to link Italy with northern Europe. In one of the tunnel projects, 3.7 millions cubic meters of inert stone material from the Sotto Ceneri mountain range will be amassed on the Sigrino site. The depot, located 5 kilometres to the north of Lugano, will face directly the small village of Sigrino on the old St. Gotthard Road. The site abuts a significant nature zone and is

visible from the major highway and train line that crosses Switzerland towards Italy. Because of its sensitive location, the exceptionally large quantity of material to be stored and the commitment to preserve tourism and environmental quality, the client understood the requirement to add, from the onset, a landscape architect to the design team. The stepped and faceted morphology of the depot provides a system of water collection

and paths for visitors. 3D topographical analysis as well as visualisation technology was used extensively, due to the complexity & scale of the project. For its political approval, visions of the evolution and integration of the Depot in the site were key communication tools. Animation films were created from the 3D model to aid in understanding the volume in situ. Construction will be completed by 2020.

**Design:**  
Christophe Girot  
Atelier Girot GmbH  
with ITC & IFEC Eng.

**Client:**  
Alp Transit San Gottardo

**Project Phase:**  
Construction

## Selected Projects

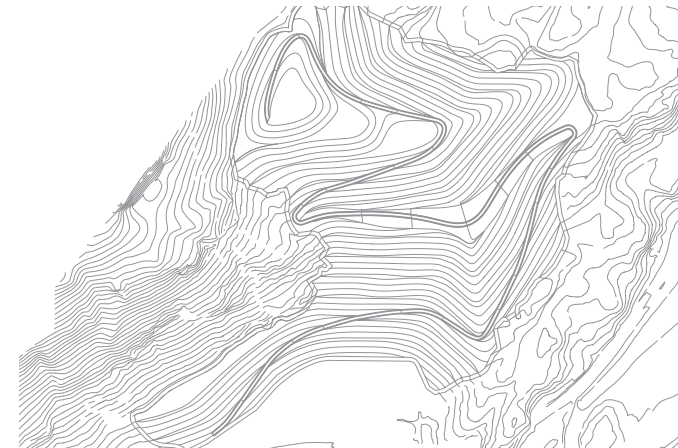
**Surface:**  
Ground 19 ha  
Volume 3.7 million m<sup>3</sup>

**Dates:**  
Study 2003-2008  
Project Phase 2009-2011  
Construction 2009-2020

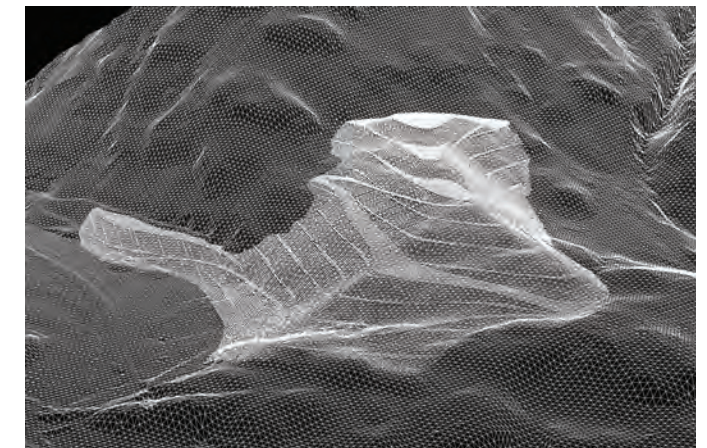
**Budget:**  
20 million Euros



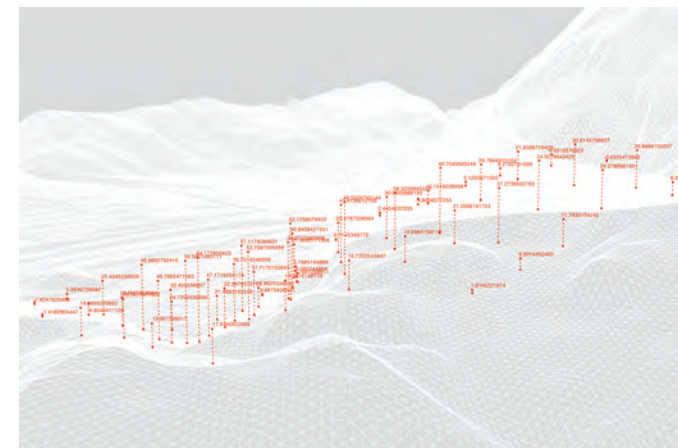
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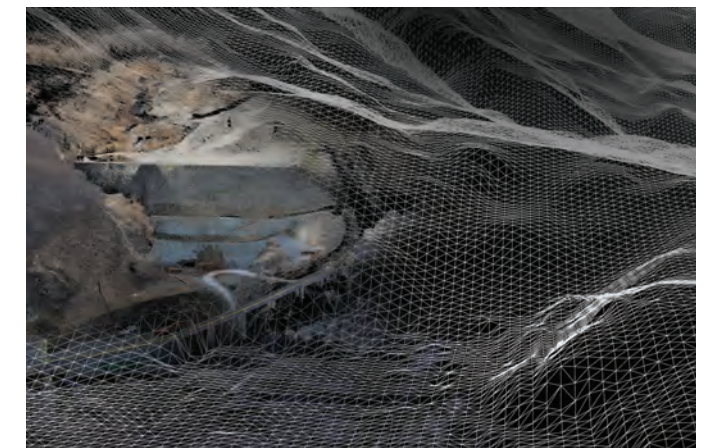
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- 1 Final phase plan - with 40 years growth
- 2-4 Site pictures during construction
- 5 Topographic plan of the Depot
- 6 3D/GIS visualisation
- 7 Z-depth analysis
- 8 Georeferenced point and photo visualisation
- 9 Site location viewed from Mt. Tamaro
- 10 Vegetation test strips



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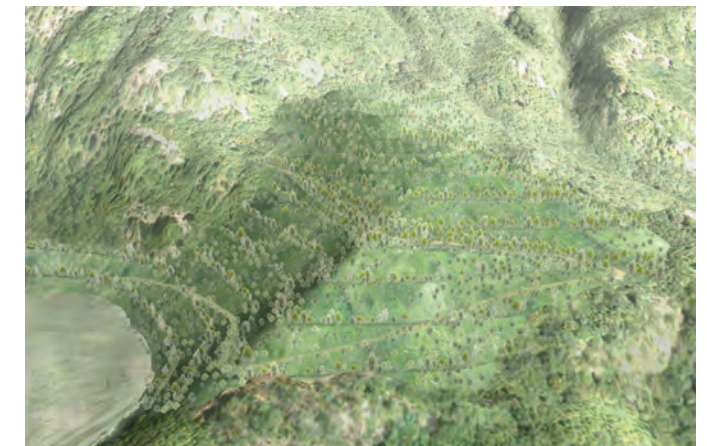




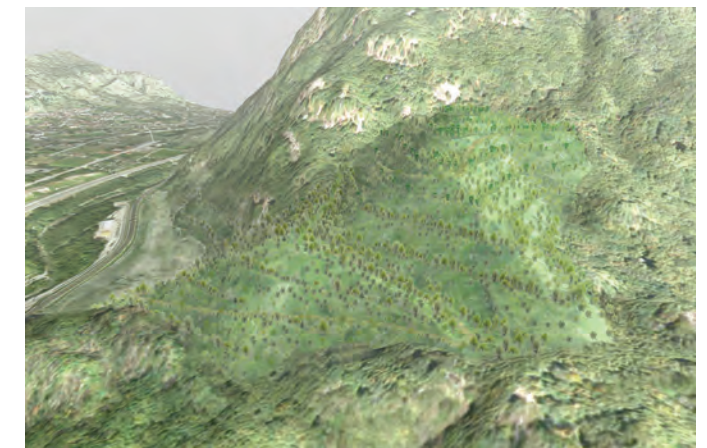
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- 1 View from road bend
- 2 View from the west
- 3 View from the south west
- 4 View from the south