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## Sustainable Construction of Underground Transport Infrastructures (SCOUT)



### A new approach to cut-and-cover tunnels

Cut-and-cover method is a cost-effective alternative to build tunnels, and the best option when the tunnel is relatively shallow (max depth < 20 m) and surface is free from buildings. It is therefore a vital part for the construction of transport infrastructures which is needed for the development of the TEN-T Network.

SCOUT has developed a new approach for sustainable construction of “cut-and-cover” tunnels, that improves safety, optimizes life-cycle costs and drastically reduces the environmental impact:

- new tools for the implementation of the Observational Method, providing full control of construction safety, costs and delays;
- new design tools for the optimization of structural design, providing savings on construction materials;
- new, breakthrough construction equipment suitable for “cut-and-cover” sites of all sizes,
- new fiber concrete composite materials for cut-and-cover tunnels, validated by full-size structural tests.



*The SCOUT project is a FP6 STREP, (January 2005 to December 2007). The Consortium, led by SOLETANCHE BACHY (France), comprises 9 partners – 3 large companies, 2 SMEs, and 4 research and academic organisations - from 8 European countries (France, Poland, UK, Sweden, Austria, Romania, Spain, Latvia).*

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