

Rueil Malmaison, 10 July 2020

## VINCI Construction wins the contract for the preparatory work on the Avrieux shafts for the Lyon–Turin rail line

- Construction of four 500-metre-deep ventilation shafts, galleries and seven caverns
- A €220 million contract

The owner, TELT (Tunnel Euralpin Lyon Turin), has awarded works package 5A of the Lyon–Turin rail line to a consortium\* led by VINCI Construction Grands Projets. The works package involves preparatory work perpendicular to the future safety site at Modane, near the midpoint of the 57.5-kilometre base tunnel that will connect the international stations in Saint Jean de Maurienne (France) and Susa (Italy).

The €220 million contract for works package 5A involves construction of the four 500-metre-deep Avrieux shafts using raise-boring machines (mechanical excavators operating from the base of the future shafts). This technique optimises work safety, costs and time. The work also involves digging galleries and seven caverns, using conventional methods (explosives), at the foot of the existing Villarodin Bourget–Modane decline, which is up to 22 metres high and 23 metres wide.

The project will employ up to 250 people over the coming 36 months.

The Lyon–Turin line is part of a programme designed to upgrade passenger travel and expand trade in Europe. It is setting in motion a transition that will make transport more sustainable by shifting long-distance freight from roads to rail lines. By 2030, the Lyon–Turin rail line will replace 1 million heavy vehicles on Alpine roads and lower greenhouse gas emissions by about 3 million tonnes of CO<sub>2</sub> equivalent per year.

VINCI Construction is applying its expertise in underground works in several countries, notably on public transport projects aimed at fostering sustainable development in host cities and regions. VINCI Construction subsidiaries are working on several rail transport systems in the United Kingdom (HS2), Ottawa (new LRT system), France (several Grand Paris Express projects), Doha (two metro and LRT lines), New Zealand (Auckland's City Rail Link), Hong Kong and Singapore (Thomson Line).

*\* The consortium encompasses VINCI Construction subsidiaries VINCI Construction Grands Projets (lead), Dodin Campenon Bernard and VINCI Construction France (65%), alongside Webuild (33%) and Bergteamet (2%).*

### About VINCI

VINCI is a global player in concessions and contracting, employing 222,000 people in some 100 countries. We design, finance, build and operate infrastructure and facilities that help improve daily life and mobility for all. Because we believe in all-round performance, above and beyond economic and financial results, we are committed to operating in an environmentally and socially responsible manner. And because our projects are in the public interest, we consider that reaching out to all our stakeholders and engaging in dialogue with them is essential in the conduct of our business activities. VINCI's goal is to create long-term value for its customers, shareholders, employees, and partners and for society at large. [www.vinci.com](http://www.vinci.com)

# Lyon-Turin rail line : VINCI will carry out the preparatory work on the Avrieux shafts

A €220 million  
contract

250 people employed  
at the peak of activity

Works performed  
above the future safety  
site at Modane



**Raise-boring  
excavation**  
of four 500-metre-deep  
shafts

A vertical shaft is shown extending from the ground surface down into the earth. A blue rectangular structure is positioned at the top of the shaft, and a dashed line indicates the shaft's depth.

**Galleries  
and caverns  
digging**

up to 22 metres high  
and 23 metres wide

A large, trapezoidal underground gallery is shown. A yellow rail vehicle is positioned in the center, and three workers in high-visibility gear are standing on the right side. A vertical shaft is visible in the background.

1 million heavy vehicles removed  
from Alpine roads by 2030