



THE CENTRE FOR TUNNEL STUDIES

www.cetu.developpement-durable.gouv.fr



50 years of expertise at the service of the tunnelling community

WHO ARE WE?

CETU, the Centre for Tunnel Studies, is a technical body of the French Ministry in charge of transport. It is both a resource and research centre, based in Bron, near Lyon.

For over 50 years, the CETU has been supporting professionals in the tunnelling and underground space sector: tunnel owners, operators, engineering consultants and contractors.

In addition to its technical and advisory work, the CETU facilitates exchanges within the professional community and plays a major role in the dissemination of knowledge and best practices in France and at an international level.

KEY FIGURES

80

staff
members

70

guidelines and
technical documents
published

40

underground works
projects supported
each year



WHAT DO WE DO?

The CETU's purpose is to deliver specialised technical expertise and provide the best possible support to those involved in the underground sector.

The CETU is multidisciplinary and is involved in all project phases, from the design stage through to construction, operation and asset management.

Its expertise encompasses tunnel safety, equipment and civil engineering matters and covers all categories of transport tunnels and underground spaces.

7 TECHNICAL DEPARTMENTS

-  Engineering geology and geotechnical design
-  Construction methods, contracts and works
-  Materials, structures and tunnel durability
-  Electrical and operational equipment
-  Ventilation and environmental issues
-  Safety
-  Operations

What are **our** missions?



Establish standards of professional practice

THROUGH ITS INSTITUTIONAL ROLE AND EXTENSIVE EXPERIENCE IN SUPPORTING PROJECTS, the CETU develops regulations, standards and technical guidelines applicable to underground works.

Attentive to the requirements of all stakeholders, it contributes to the development of professional practices and ensures their dissemination, understanding and use.

- 🌱 Participation in standardisation work
- 🌱 Production of recommendations and guidelines
- 🌱 Contribution to the development of regulations
- 🌱 Participation in the work of national and international associations
- 🌱 Dissemination of regulatory texts and professional standards



Improve knowledge

RESEARCH AND KNOWLEDGE DEVELOPMENT CONSTITUTE A MAJOR PART OF THE CETU'S ACTIVITIES, with permanent feedback from stakeholders channelling R & D actions. Our objective: to improve techniques and methods, drive innovation and stay abreast of the profession's needs.

- 🌱 Comprehensive understanding of current and emerging issues
- 🌱 Active participation in applied research activities
- 🌱 Support for innovations that drive ecological transition
- 🌱 In-depth knowledge of underground assets and activities





Coordinate professional networks

AS A REPRESENTATIVE OF THE STATE WITHIN THE TUNNELLING COMMUNITY, the CETU helps to bring together stakeholders at a national and international level. It facilitates collaborations, trains professionals, makes its experience and skills available to its partners and actively contributes to the technical output of professional networks.

- 🌟 Spokesbody for the French State in regulatory authorities
- 🌟 Promotion of French expertise and know-how around the globe
- 🌟 Active participation in networks and associations
- 🌟 Contribution to the improvement of professional skills
- 🌟 Driving force behind new practices that promote an ecological transition





Aid underground projects and support tunnels in service

DRAWING ON ITS MULTIPLE SKILLS IN ENGINEERING, the CETU is involved in tunnel construction and refurbishment projects. It also contributes to underground asset management and the safe operation of tunnels.

- Decisional aid to public authorities
- Support for tunnel owners, project managers, tunnel operators and contractors
- Assistance in the development of asset management policies
- Inspections to assess the condition of tunnels
- Safety audits





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