



Tunnelling and Underground Space

Few people are aware of the increasing importance that tunnels play in their lives - in relation to road and rail transport, water supply and sewerage, power and hydropower, communications and storage. Transportation and water are two of the great issues of the 21st century. The construction of bored tunnels is increasingly the only feasible means of providing such infrastructure, whilst minimising the short and long-term impacts on both the community and the environment.

Cities seek to keep their traffic moving, while countries endeavour to improve their transportation networks to meet the challenges of an increasingly competitive world. The often limited options for surface routes and lack of surface space, combined with a growing environmental awareness, increasingly conspire to bring the tunnelling option to the fore.

Tunnelling plays no less of a role in the essential areas of water supply and sewerage systems, as both the developed and developing worlds strive to improve the quality of their water and the cleanliness of their towns and cities.

The benefits of tunnelling must always be weighed against cost and risk, both of which may be high. Fortunately for client organisations, the art and science of tunnelling has made great strides in recent times, resulting in faster progress, reduced costs, and better identification and management of risks. Full exploitation of modern tunnelling technology requires integration of the design and construction processes within the framework of a skilfully drawn contracting strategy.

Atkins provides expertise in planning, design, assessment and construction supervision of rail, highway, water, power and other tunnels. Tunnelling requires input from a number of disciplines and our group is uniquely positioned to provide a comprehensive range of services in-house for various types of tunnels, caverns and related structures.

Our capabilities include:

- **Railway Tunnels**
- **Road Tunnels**
- **Ventillation & Life Safety**
- **Water Industry**
- **Expert Services & Due Diligence**

Our Expertise

Tunnelling and Underground Space

- soft ground bored tunnelling
- hard rock bored tunnelling
- cavern engineering
- shafts
- ventilation and life safety
- inspection and maintenance
- pipe-jacking, micro-tunnelling & directional drilling

Contact -
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Tunnelling for:

- mass transit & rail transportation
- road transportation
- design-and-build
- water and utilities industries
- expert services

Plan Design Enable

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