

Mining and metals



Turner & Townsend



Maximising your potential

making the **difference**

Mining and metals

The successful delivery of large capital programmes is key to meeting the ever-increasing demand for commodities. These major programmes have become highly complex operations with owners managing schedule, cost and risk to bring product to market as quickly and as safely as possible.



Organisations in the sector are consequently seeking solutions to asset investment challenges that are right for their business, straightforward to implement and yield a quick return.

Major challenges typically include:

- ensuring schedule adherence
- reducing overall capital cost
- achieving sustainability targets in the construction phase
- maintaining a fit for purpose solution

Turner & Townsend has more than 50 years' experience working with organisations associated with the mining and metals industry.

Whilst our clients are among the biggest names in the sector (eg Anglo American, Barrick, BHP Billiton, Rio Tinto, Xstrata), we also work with mid tier and junior mining companies, together with construction, funders and other service providers.

Some of our recent work

Gold project, Western Australia

Client: Major mining company

An underground decline mine situated south east of Kambalda, WA. Turner & Townsend provided a pre-feasibility study and feasibility study whilst also carrying out estimating, scheduling, risk assessment and providing project control and project management services.

Iron ore project, Mauritania

Client: Junior miner *(later acquired)*

Turner & Townsend was asked to supplement the owner's team in the pre-feasibility study and feasibility stages of the structuring of a three-mine complex. Services provided were: assurance and procurement of EPCM contractor; procurement of long lead items; scoping of mining fleet requirements; collating of pre-feasibility study; design of project controls; modelling of the financial options.

Copper and zinc project, Peru

Client: Consortium of major mining companies

This expansion project was running behind schedule and incurring unforeseen costs. The project owner was also struggling to find competent staff and experiencing high employee turnover. Turner & Townsend provided support, assessing contract administration and project controls. We identified opportunities to improve project management and avoid further cost over-runs.

Gold project, Azerbaijan

Client: Junior miner

We supported our client in developing a feasibility study to enable them to process 3,000 tonnes of ore a day. We provided project management support as well as reviewing their internal business processes and procedures to ensure they were ready to implement once the feasibility study was complete.

Copper project, Chile

Client: Global mining company

On behalf of the funder we provided: a review of the EPCM contract between the contractor and owner; an audit of progress, and six-monthly reviews of project milestones. The outcomes of the exercise were contractual recommendations as to improvement areas and an ongoing set of reports that were used by the funder to feedback to its principals.

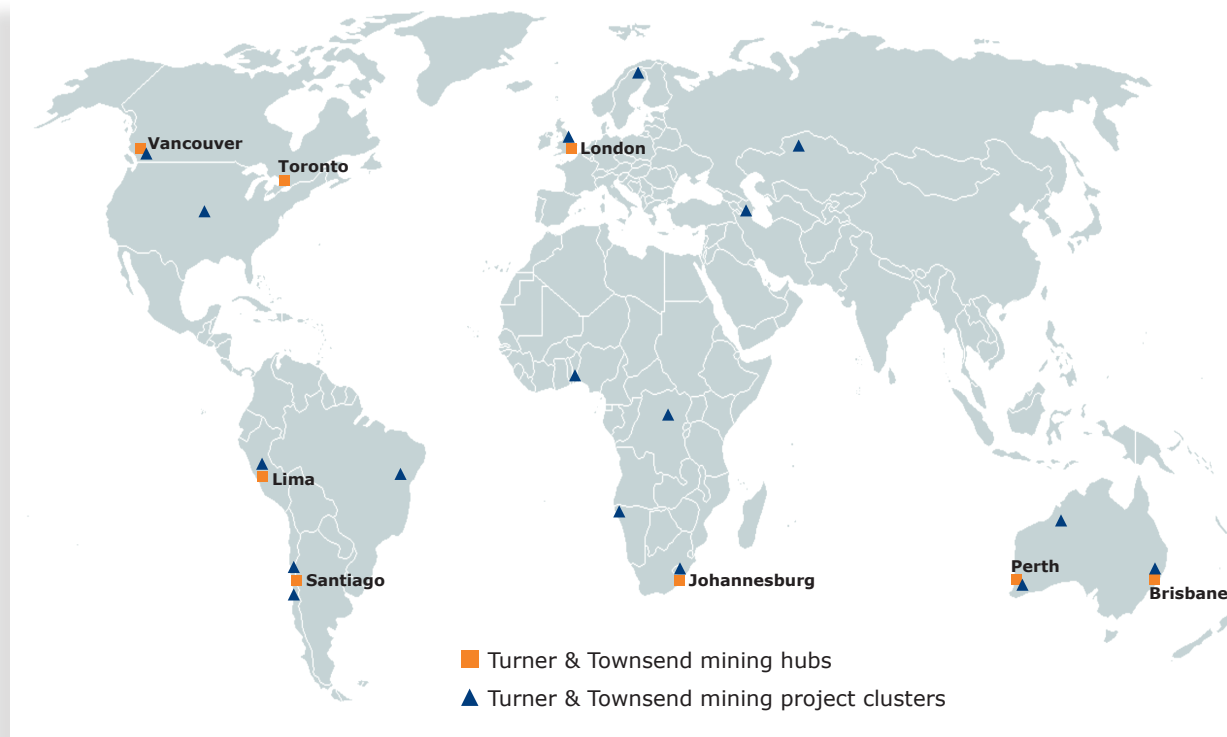
Upgrade of rail link, South Africa

Client: EPCM contractor

The contractor ran a feasibility study into the significant upgrade of a key rail link, with a view to increasing throughput – a long-standing industry issue. Turner & Townsend provided an independent review of the schedule and risks, together with a range analysis on the study conclusions. Sophisticated simulation and analysis was completed to model options, while a comprehensive risk management process was implemented.

Wherever you are...

We have an extensive global reach with 70 offices in 29 countries.



As projects become larger and more complex, the need for presence across many geographical areas has become increasingly important. A key driver of our growth has been our ability to service mega projects from a number of international locations using our wholly owned office network.

Whatever you do...

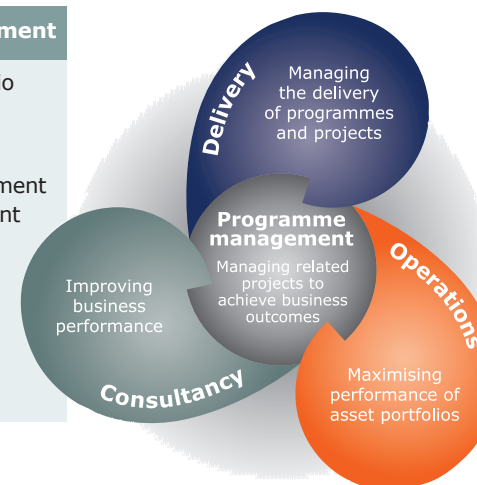
Mining	Mineral processing and materials handling	Infrastructure
Open cut establishment and operation	Washing	Bulk earthworks
Shaft collar construction	Crushing and screening	Rail
Shaft sinking and lining (including sub vertical shafts)	Pelletising	Road
Decline/drift development	Concentrating	Tailings dams
Primary and secondary development	Smelting	Port facilities
Ore and waste pass development	Beneficiation	Housing and recreational facilities
Raise-boring of rock passes and ventilation holes	Blending	Power stations
Underground construction and equipping	Conveying	Dredging
Underground water handling facilities	Ship and train loading facilities	
Drop raising		
Underground support work		
Stoping		
Exploration drilling		

"Turner & Townsend has provided quantity surveying and contract management services to three recent projects... Their team provided a valued project service, expertise and resources in a prompt and efficient manner."

Peter McKenna, Project Director
Xstrata Coal, South Africa

Whatever your challenge... we have a solution

Delivery	Consultancy	Programme management
Estimating	Total value management	Programme and portfolio management
Cost management	Business case development and transaction management	Governance
Cost engineering	Risk assessment and management	Organisational development and change management
Bulk material take-offs	Strategic procurement advice	Project controls
Contract management	Contract advice and drafting	Systems development and implementation
Information management	Performance improvement and management	
Procurement	Benchmarking	
Planning and scheduling	Sustainability	
Change control		



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