

# en*g*eodesy

worldwide engineering and surveying solutions



## wherever you are

en*g*eodesy draws on more than 27 years of global experience in the engineering and construction of roads, railways, bridges, subways, tunnels, pipelines, dams and oil platforms.

We manage data that is critical to the success of your project.  
The success of your project is our success.

[www.engeodesy.com](http://www.engeodesy.com)

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# enGeodesy

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## VISION

To create a tailor-made service for our customers through the acquisition and analysis of spatial and engineering data, from design through to construction.



## MISSION

To use technologies and processes to continually improve our services and customise them to the needs of our clients.

enGeodesy's experienced and skilled team offers technical support, engineering, quantity surveying, and surveying at all project stages.

Our services include but are not limited to:

Surveying      Monitoring      Engineering

Estimation and Project Cost Analysis

Infrastructure Project Services

Quantity Surveying

CAD/BIM

Claims



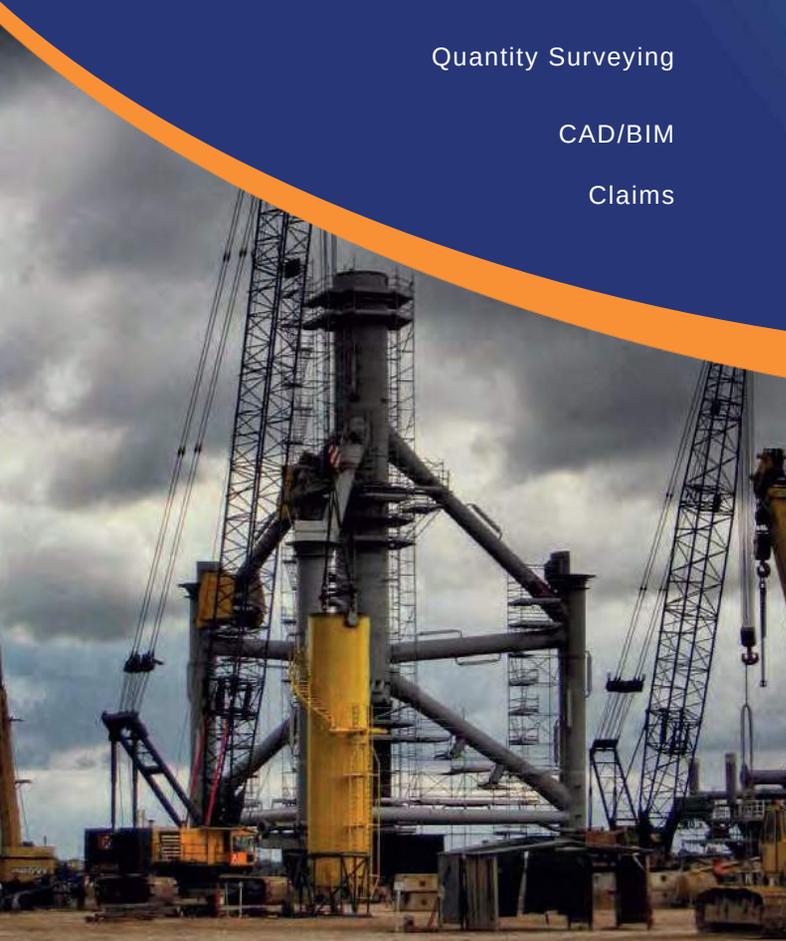
Construction Monitoring



Environmental Monitoring



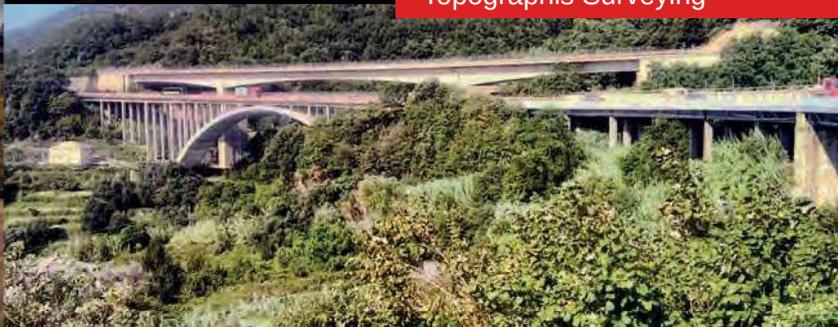
Construction Surveying Services



Dimensional Control



Topographic Surveying





## Surveying

major works carried out

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### 2023-Ongoing. High Speed Railway Verona-Padua - Italy. Cossi, Webuild.

Survey resourcing, survey control, end of the month quantity reporting, modelling, file creation and uploading & calibrating machinery.

### 2023-Ongoing. Tunnel 64 Project, Casalecchio di Reno (Bologna) – Italy. Frantoio Fondovalle SPA and Baraldini Quirino SPA.

Survey resourcing, survey control, end of the month quantity reporting, dimensional control and terrestrial Laser scanning, UAV/Drone, 3D scanning survey/precision, 3D modelling, As-Built models.

### 2020 – 2022. Tunnel laser Scanner services – PORR – PFONS – Austria.

Monitoring and as-built surveying for 15 km tunnel construction.

### 2019 – Ongoing. Topographic Surveying Monitoring Services – Le Grand Paris – France.

New topographic net set-up through GNSS observation and levelling on Line 17, buildings monitoring, figure skating arena construction monitoring, topographic assistance for Line 15 tunnel construction.

### 2019 – Topographic Surveying Service – Saras spa – Sarroch – Italy.

Topographic surveying assistance for a new docking pier for an oil&gas refinery

### 2015 – 2020 Railway surveying. Italy.

Surveying as-built for new noise barrier and new railway construction. Martinsicuro, Alba Adriatica, Rimini, Faenza, and Verona.

### 2015-2016 Surveying coordination and pipeline construction. SICIM spa. Mexico.

Surveyor supervisor supply. Pipeline project. Management surveying teams activities, data processing, for construction and installation 184 km pipeline infrastructure. Los Ramones Fase 2. San Luis Potosi.

### 2014 Topographic Surveying highways design. SPEA spa. Italy.

Carry out and measure GNSS systems, geodetic and topographic networks. Photogrammetric surveying. Highway Passante Nord. Bologna.

### 2013 Topographic surveying. Geo - Metric surveying. SEYMOUR WHITE. Australia.

Stakeout, surveying, data processing, DTM, A6 Flinders Hwy restore. Charters Towers site.

### 2013 Topographic surveying service. GMF Contractors. Australia.

Stakeout, surveying, data processing, DTM. Site Surveying for roads, car parks, buildings construction. Perth WA.

### 2012 Design and coordination GNSS surveying. ELECTROCONSULT spa. Italy.

Management and coordination of surveying for a new electrical line Sirsniik – Deraluk. Kurdistan (Iraq).

### 2006 - 2012 Surveying coordination and surveying teams supply “Experimental project Kashagan Piles & Flares”. SAIPEM spa. Kazakhstan.

Offshore project. Surveying superintendent services, Surveying teams’ management, data processing, construction and installation of oil and gas infrastructures on artificial atolls. D-Island, Caspian Sea, Kazakhstan.

### 2005 - 2012 Topographic Surveying for highways design. SPEA spa – SATAP spa. Italy.

Carry out and measuring by GNSS systems, Total Station, Digital Level, geodetic and topographic networks. Topographic surveying and digital graphic restitution at reference scale 1:500, surveying of primary and secondary structures, photogrammetric surveying. Highway A14, A1, A13, A11, A12, E50, BRE.BE.- MI, A4, A12.

### 2006; 2007; 2008 Subsidence monitoring. AGIP spa. Italy.

High precision levelling of monitoring. KM 1000.

### 2007 Surveying for a pipeline design. SNAM spa. Italy.

Surveying and digital graphic restitution of gas pipeline Poggio Renatico (BO) – Cremona.

### 2006 Topographic surveying road design. ENTE NAZIONALE STRADE FRANCESI. France.

Surveying and digital graphic restitution for extension work at Salon de Provence.

### 2001-2005 Topographic surveying service High Speed Railway Construction. RODANO CONSORTILE srl and MODENA srl Italy.

Topographic surveying for a new railway construction “High speed railway Milano – Bologna”; surveying, stakeout of railway embankment primary and secondary structures, end of month quantity measuring and reporting.

### 2005 Tunnel topographic monitoring. TOTO GROUP spa. Italy.

Construction surveying, topographic monitoring, end of month quantity measuring and reporting. Variante di Valico. Lotto 3. Vado.

### 2004 Surveying about pipeline design. SNAM. Italy.

Topographic surveying for a new gas pipeline design. Forli’ – Faenza.

### 2004 Highway surveying construction service. PAVIMENTAL spa. Italy.

Stakeout and topographic surveying for the A1 Highway extension. Modena – Bologna.

Please note that companies mentioned are the actual concessionaires of the works described



Tunnel Monitoring



Offshore Surveying Services



Railway Monitoring



**2024 – Ongoing. Pitt Town Bypass, NSW. TfNSW**  
Services provided: Quantity Surveying (Take-off quantity, BoQ Independent Verification).

**2024 – Ongoing. Kwinana Sodium Cyanide Plant Expansion, WA. Wesfarmers**  
Services provided: Earned Value Management (cost, time and scope), Progress Claims Management (Progress claim process review and set up).

**2024 – Ongoing. Great Western Highway upgrade between Kelso and Raglan, NSW. TfNSW**  
Services provided: Claims (Claims narrative and quantum calculation, preparation, substantiation and negotiation, Contract & Project documentation analysis), Quantity Surveying (Project costs and quantity analysis).

**2024. Sydney Water Large Pumping Station (LPS), NSW. Sydney Water**  
Services provided: Quantity Surveying and Engineering (Specifications Comparison to identify quantity and cost impact).  
**2023. Sydney Metro, Sydney, NSW. Sydney Metro**  
Services provided: Estimating (SMW Independent Cost Benchmarking Review), Engineering (Review of the SM Digital Engineering Framework Requirements).

**2022. Snowy Hydro 2.0, NSW. Webuild**  
Services provided: Claims (Claims quantum preparation and substantiation), Quantity Surveying (Project costs and quantity analysis).

**2022. Dubbo Regional Rail Project Maintenance Facility, NSW. CPB Contractors**  
Services provided: Claims (Upstream and downstream claim cost heads identification), Quantity Surveying (Project quantity analysis and Take-off), Engineering (Design changes analysis).

**2018 - 2021. The Northern Road Stage 5 and Stage 6, NSW. CPB Contractors**  
Services provided: Quantity Surveying (Project Quantity Analysis and Take-off, BoQ Preparation, Assessment, Preparation, Negotiation of Project Variations), Engineering (Project Design Review, Design Changes Analysis), Infrastructure Project Service (Procurement and Tendering, Construction Contract and Commercial Advisor, Construction and Project Management), Estimating and Project Cost Analysis (Project Cost Estimation, Project Cost Analysis), Claim (Covid-19 Quantum Assessment, Calculation, and Substantiation).

**2017. WestConnex M4 Widening, Stage 1A, Homebush, NSW. CPB Contractors – Rizzani de Eccher JV**  
Services provided: Quantity Surveying (Project Quantity Analysis and Take-off, Assessment and Negotiation of downstream Project Variations, Project Costs Analysis, Costs Forecast Review).

**2010 – 2018. Energy efficiency and solar PV plant projects, design and refurbish projects for residential and commercial buildings, Italy**  
Services provided: Project Services (Construction and Project Management Project Delivery, Construction Contract and Commercial Management, Procurement and Tendering), Engineering (Engineering and Design Management, Project Design, Project Design Review, Construction Engineering, Cost Engineering), Quantity Surveying (Project Quantity Analysis and Take-off, BoQ Preparation), Estimating (Projects Costs Estimation).

**2009. 26 km of New Southern Sydney Freight Line from Cabramatta to MacArthur, NSW. REED Construction Australia**  
Services provided: Infrastructure Project Services (Construction and Project Management, Project Delivery), Engineering (Engineering and Design Management, Project Design Review, Construction Engineering, Design Changes Analysis).

**2007-2008 New Roads and a new underpass, New Sporting Arena, Caltrava's Bridges, Italy. Reggio Emilia Municipality**  
Services provided: Engineering (Feasibility Study, Preliminary Design, Management Plan), Quantity Surveying (Measurements and Quantity Take-off), Estimating (Projects Estimation).

**2003-2006. Calatrava's Projects, Reggio Emilia, Italy. Snamprogetti Eni/CMC Ravenna.**  
Services provided: Engineering (Engineering and Design Management, Structure Design, Project Design Review, Construction Engineering, Cost Engineering, Design Changes Analysis), Quantity Surveying (Project Quantity Analysis and Take-off, BoQ Preparation, Project Variations Preparation), Infrastructure Project Services (Construction and Project Management, Project Delivery, Construction Contract and Commercial Advisory, Procurement and Tendering), Claims (Quantum assessment, calculation, and substantiation, Contract & Project documentation analysis), Estimating and Project Cost Analysis (Project Cost Estimation and Project Cost Analysis).

**2000-2003. 30 Km of New High-Speed Railway between Bologna and Milan, Reggio Emilia, Italy. Snamprogetti Eni/CMC Ravenna**  
Services provided: Engineering (Engineering and Design Management, Project Design Review, Construction Engineering, Cost Engineering, Design Changes Analysis), Quantity Surveying (Project Quantity Analysis and Take-off, BoQ Preparation, Project Variations Preparation), Infrastructure Project Services (Construction and Project Management, Project Delivery, Construction Contract and Commercial Advisory).

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Construction Delivering



Construction Engineering



Rail Tracks Set-Up - Construction Surveying - Laser Scanner





Surveying

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Construction Surveying



Monitoring









Engineering

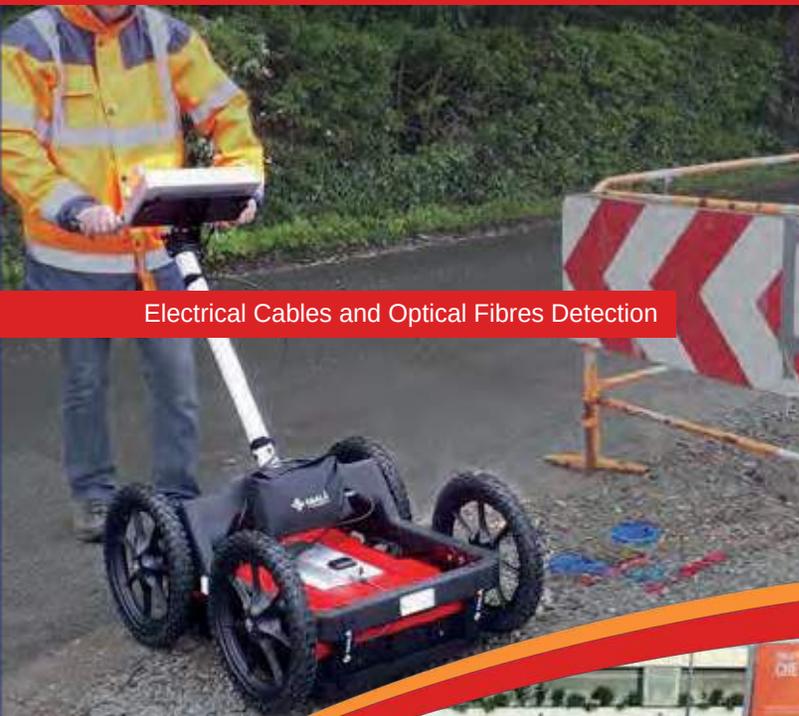
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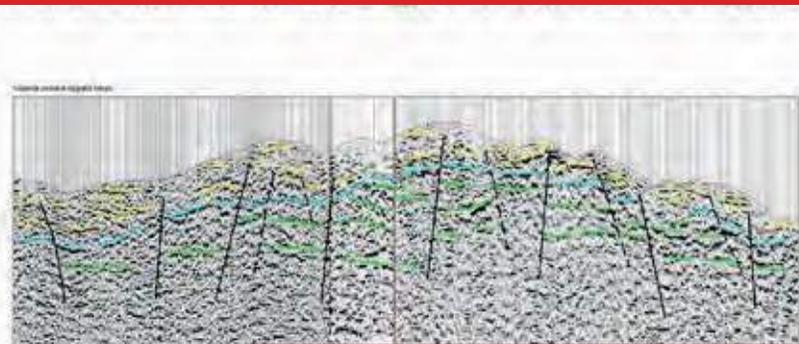


Project Delivering, Engineering, Cost Analysis, Commercial Advising, Quantity Surveying, Estimating, Claims, Variations

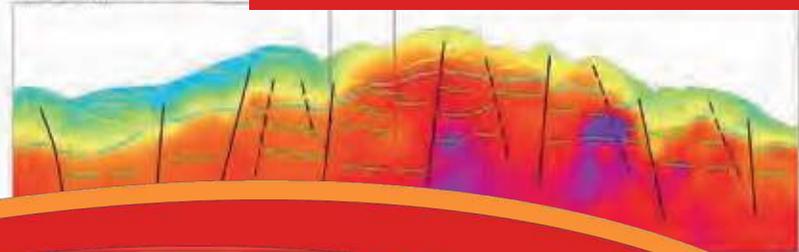




Electrical Cables and Optical Fibres Detection



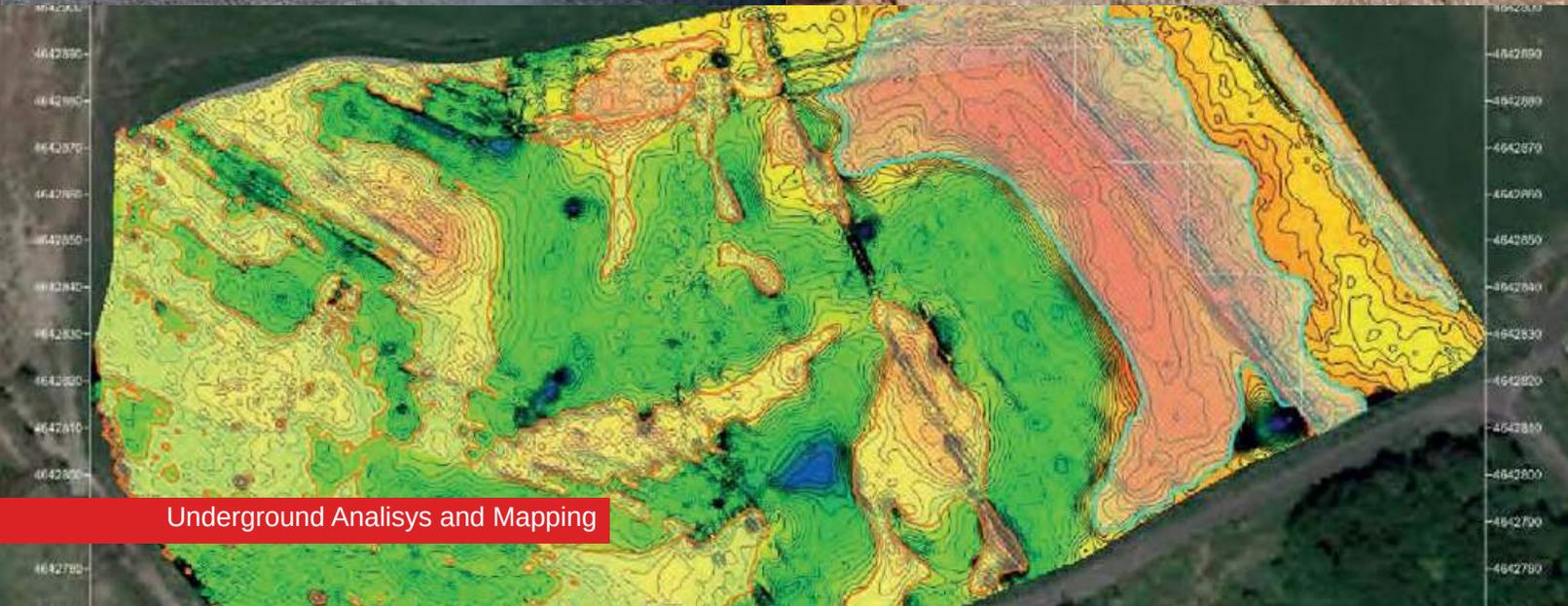
Seismic Terrain Characterization



Georadar Survey



Road Surveying and Ducts Detection



Underground Analysis and Mapping