

We shape a better world

Our desire to shape a better world is fundamental to everything that we do. Most importantly, it drives our approach to our clients across key areas of influence:

Digital

Digital is disrupting our approaches to rethink how cities and businesses operate, compete, and shape our built environment. From artificial intelligence to virtual and augmented reality, we integrate cutting-edge technologies to create new experiences, products and services.

Cities

With more than half our population living in cities, we are committed to finding solutions to the challenges facing urban environments, continually asking what the future holds and how our work can deliver smart, thriving, inclusive cities.

Mobility

Shaping a better world involves helping people and communities to live and work together more effectively through transport and infrastructure – low carbon vehicles, cross-border links or smart airports – to support continued social and economic development.

Sustainable development

Sustainable development is going to reshape the world around us. Using our design and advisory skills, we are aligning every aspect of our business with the United Nations Sustainable Development Goals to find a better way to our safe, sustainable, and resilient future.

Who we are

Arup is the creative force at the heart of many of the world’s most prominent projects in the built environment and across industry.

Working in more than 140 countries, the firm’s designers, engineers, architects, planners, consultants and technical specialists work with our clients on innovative projects of the highest quality and impact.

Founded in 1946 with an enduring set of values, our unique trust ownership fosters a distinctive culture and an intellectual independence that encourages collaborative working. This is reflected in everything we do, allowing us to develop meaningful ideas, help shape agendas and deliver results that frequently surpass the expectations of our clients.

The people at Arup are driven to find a better way and to deliver better solutions for our clients.

Advisory Services

Strategy and insights
Assets and operations
Finance and economics
People and organisations
Programmes and projects
Sustainable futures

Buildings

Accessible environments
Architecture
Building design
Building information modelling
Building physics
Building retrofit
Building services engineering
Commissioning and building performance evaluation
Electrical engineering
Facade engineering
Facilities management
Fire
Mechanical engineering
Public health engineering
Structural engineering
Sustainable building design
Vertical transport design

Digital

Building Information Modelling (BIM)
Data insights and analytics
Geographic information systems
ICT infrastructure design
Software products
Visualisation

Infrastructure

Airport planning
Bridge engineering
Civil engineering
Infrastructure design
Maritime engineering
Rail engineering
Sustainable infrastructure
Tunnel design
Waste management strategies
Waste to energy solutions
Water engineering

Planning

Economic planning
Environmental consulting
Flood risk management
International development
Landscape architecture
Master planning
Planning policy advice
Resilience security and risk
Smart cities
Smart mobility
Town planning

Technical Consulting

Acoustic consulting
Advanced technology and research
Audio visual and multimedia
Fluid dynamics
Geographic information systems
Geotechnics
Hydrogeology
ICT infrastructure design
Intelligent transport solutions
Lighting design
Materials
Product design
Quantity surveying
Seismic design
Software products
Technology operations and project management
Theatre consulting
Transport consulting
Vibration engineering
Wind engineering

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Space Needle renovation, Seattle, US

The internal systems of this symbol of Seattle built in 1962 was upgraded to meet modern seismic demands, energy codes, and provide more usable public space.



181 Fremont, San Francisco, US

We employed a holistic resilience-based seismic design approach for this third tallest building in San Francisco, making it the most resilient tall building on the US West Coast.



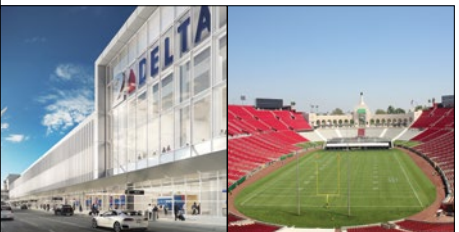
Long Beach Civic Center, Long Beach, US

We made a public-private procurement deal possible to assist the city government to transfer all the financial risk while providing better amenities for the community.



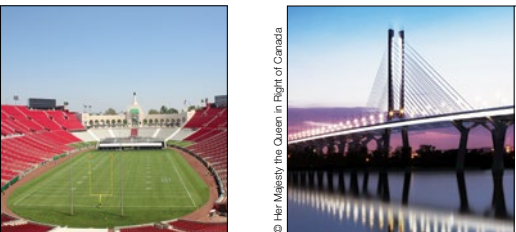
Texas Central High-Speed Train, Texas, US

This top strategic infrastructure projects will shorten the journey between Houston and Dallas from a 4-5 hours car ride to less than 90 minutes.



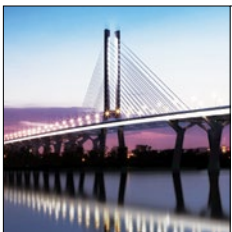
Delta T2 & T3 modernisation, Los Angeles, US

Arup is part of a modernisation project for Delta Air Lines' T2 and T3 at the Los Angeles International Airport to offer passengers a more streamlined and pleasant travel experience.



Los Angeles Memorial Coliseum, Los Angeles, US

We delivered multidisciplinary services to modernise this national historic stadium, allowing for an upgraded fan experience for major sporting and cultural events.



Samuel De Champlain Bridge, Montreal, Canada

We helped the Government of Canada achieve its objective of creating a world-class icon with a useful lifespan of 125 years, almost double the country's normal standard.



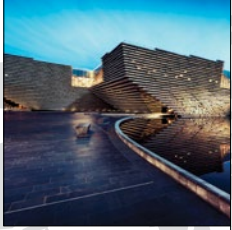
Transpennine route upgrade, UK

We were involved in the systems upgrades to deliver faster, more frequent and more reliable rail services across the north of England.



Queensferry Crossing, Edinburgh, UK

We engineered the Scotland's largest infrastructure project for a generation and the longest three-tower, cable-stayed bridge in the world.



V&A Dundee, Dundee, UK

We used 3D modelling and analysis tools for the unique and complex structure with twisting, folding exterior walls of this first design museum in the UK outside of London.



Coal Drops Yard, London, UK

We brought new life to Coal Drops Yard, a Victorian coal yard which is now home to over 50 stores, restaurants and cafés, alongside new public spaces.



LocHal, Tilburg, The Netherlands

Driven by sustainability and adaptability, we transformed a former rail depot into a mixed-use knowledge hub for public to meet, learn and enjoy.



A303 Stonehenge, Wiltshire, UK

From technical services to public consultation, we are upgrading a single carriageway road to a dual carriageway to restore the landscape of the famous World Heritage Site.



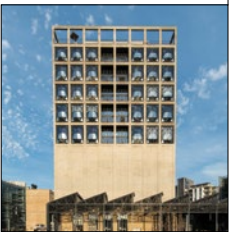
Agora Bogotá, Bogotá, Colombia

We realised this first sustainable convention centre in Colombia, turning the country's capital into a landmark of major events and an attractive business tourism destination in the world.



Sagrada Familia, Barcelona, Spain

Using a new generation of digital tools, we are working with the La Sagrada Familia Foundation to complete Antonio Gaudi's masterpiece which began to build in 1883.



V&A Grain Silo Complex, Cape Town, South Africa

Arup transformed an abandoned 90-year-old grain silo complex into a cultural hub featuring an contemporary African art gallery with hotel, office and dining facilities.



Dubai International Airport, Dubai, UAE

Our technology experts developed a cost-effective digital solution for one of the world's busiest airport to streamline operations and improve passenger experience.



Camp Adventure Tower, Zealand, Denmark

This 45m spiralling tower with boundary-pushing design by parametric design modelling offers breath-taking panoramic views of the surrounding protected forest.



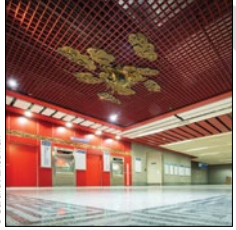
Cityringen Metro, Copenhagen, Denmark

As technical advisor, we helped enhance Copenhagen's award-winning metro by introducing 17 new underground rail stations connecting key areas of the capital.



Raffles City Chongqing, China

We provided structural solutions for all design stages for this super scale development which includes a 250m-high sky bridge linking six of its eight skyscrapers.



MRT Blue Line extension, Bangkok, Thailand

We provided full multidisciplinary support for extending Bangkok's first MRT system line, including unique, intricate designs for the new stations.



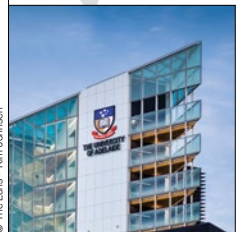
Marina Bay Sands®, Singapore

Innovative engineering approaches and 3D modelling realised the world's longest public cantilever which sits 200m high straddling three 55-storey luxury hotel towers.



Optus Stadium, Perth, Australia

This third largest venue in Australia with a capacity for 60,000 delivers an exceptional atmosphere and experience for sporting and entertainment events.



Adelaide Health and Medical Sciences Building, Adelaide, Australia

This state-of-the-art laboratory, teaching, research and clinical facility will attract and retain talents while providing a long-term contribution to the health sector.



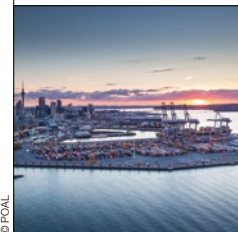
Sydney Opera House, Sydney, Australia

We originally engineered this iconic structure in the 1960s and upgraded it in collaboration with the original architect's family to maintain the symbol of Australia for decades to come.



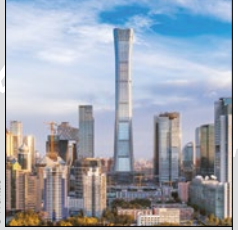
Brisbane International Cruise Terminal, Brisbane, Australia

Our design will allow the world's largest cruise ships to visit Brisbane and grow the number of international and domestic visitors to the region.



Ports of Auckland hydrogen energy facility, Auckland, New Zealand

The first green hydrogen production and refuelling facility in New Zealand will assist the Ports of Auckland to achieve its 'zero emission port' target by 2040.



CITIC Tower (China Zun), Beijing, China

Inspired by the ancient Chinese ritual vessel, Zun, our structural engineers realised the building's intriguing profile and set a new standard for tall buildings in a high seismic zone.



Amorepacific Headquarters, Seoul, South Korea

The cubic building has a distinctive central void and three large openings that maximise natural ventilation and daylight while also providing arresting views.



Tai Kwun, Hong Kong, China

Our multidisciplinary engineering services have successfully retained, strengthened and transformed an over 170-year-old heritage gem into a new art and cultural landmark.



Harbour Area Treatment Scheme Stage 2A, Hong Kong, China

Hong Kong's largest ever sewerage infrastructure project improves water quality for 5 million people from both sides of the Victoria Harbour.



Hong Kong-Zhuhai-Macau Bridge, China

This first major combined, bridge and tunnel sea-crossing in China becomes a vital link to prosperity in the Greater Bay Area which consists of 11 Southern China cities.



Landmark 81, Ho Chi Minh City, Vietnam

Soaring 461m into the air, we overcame challenging soil conditions to fast-track the design and construction of this tallest building at the banks of the River Saigon.



Mactan-Cebu International Airport, Cebu, The Philippines

We created a BIM-lite environment to overcome budget and labour constraints and delivered a new terminal for the second largest airport in the Philippines.



Lujiazui Harbour City, Shanghai, China

Arup brought signature structures to revitalise the old Shanghai Shipyard site, whose history dates back to 1862, into an iconic landmark comprising commercial buildings and cultural facilities.



Qianhai infrastructure consultancy, Shenzhen, China

We provided comprehensive strategies for a 15km² state-endorsed development zone that will create 800,000 jobs and house 300,000 people.

Cover

Mt. Fuji World Heritage Centre, Shizuoka, Japan

We helped create the daring inverted mountain-shaped structure designed by Prizkter Prize winner Shigeru Ban under high seismicity to pay homage to the World Heritage Site.

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