



Carrying the Urban Dream
and Building a Better Life





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About STECS

Established in 1996, Shanghai Tunnel Engineering Singapore (STECS) is a leading civil engineering and construction firm in Singapore. Since our first project in Singapore as a subcontractor in LTA North-East Line project, we have grown to become one of the top civil main contractors in Singapore.

Over the years, we have been trusted by our clients to construct many of the major civil projects in Singapore. Today, we have successfully undertaken and completed projects for Land Transport Authority (LTA), Public Utilities Board (PUB) and Marina Bay Sands (MBS).

Our involvement in all the major MRT lines, from North East Line to the current Thomson East Coast Line, is a testament to our client's confidence in our technical capabilities and extensive experience in handling large infrastructure projects.







Leading the Industry
Setting New Standards
Growing with our Clients

Milestones



1996

Established in Singapore



1998

Awarded LTA Subcontracts

North-East Line C703, C704,
C708 and C810



2000

**First Project as a Design & Build
Main Contractor in Singapore**

PUB Deep Tunnel Sewerage
System (DTSS) T-01



2001

**First LTA Project as a
Main Contractor in Singapore**

Circle Line Stage 1 C825



2002 - 2004

**Awarded 1 LTA Subcontract
and 2 LTA Joint Venture
Main Contracts**

- » Circle Line Stage 2 C822
- » Circle Line Stage 3 C852
- » Circle Line Stage 4 & 5 C855



2008

**First Project as an
Independent Main Contractor**

Marina Bay Sands Integrated Resort
P8402 Bayfront Infrastructure Project



2009 - 2011

**Awarded 4 LTA Main Contracts.
First Viaduct Project in Singapore.**

- » Downtown Line Stage 2 C920
- » Downtown Line Stage 3 C923A
- » North-East Line C713
- » Tuas West Extension C1688



2013 - 2017

**Awarded 1 PUB Contract
and 4 LTA Main Contracts**

- » Thomson-East Coast Line
T206, T225, T305 and T310
- » PUB DTSS T-11



2018 - 2021

**Awarded 1 PUB Contract
and 3 LTA Main Contracts**

- » North South Corridor N109A
- » Jurong Region Line J102
- » Underground Infrastructure at
Changi Airport T316
- » PUB TWRP Contract 1

MAJOR PROJECTS





DTSS T-01

Deep Tunnel Sewerage System

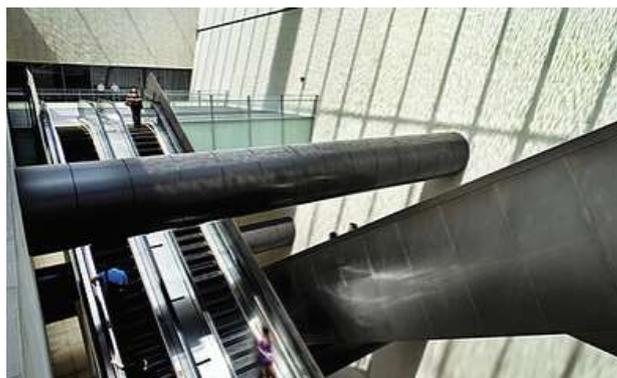
Client: **Public Utilities Board**

The first design and build project which STECS undertook in a joint venture with Woh Hup. Using New Austrian tunneling method and tunnel boring method, this project featured a 7.2 m diameter EPB machine to construct the bored tunnels.

Tunnel: **6m diameter and total length of 5.8 km**

Contract Value: **S\$80.6 million**

Contract Period: **Jan 2000 – Jan 2005**



C825

Promenade, Esplanade, Bras Basah and Dhoby Ghaut Stations

Client: **Land Transport Authority**

Featuring 3.2 km TBM tunnels, 0.6 km C&C tunnel and 110 m overrun tunnel using SCL method, the project utilized two 6.35 m diameter mix face EPB machines to construct the bored tunnels. The project was situated in the heart of urban Singapore, close to iconic landmarks such as Raffles Hotel, Chijmes, office and shopping buildings along Raffles Boulevard, as well as existing MRT stations and tunnels.

Tunnel: **5.8m dia. and total length of 3.2 km**

Contract Value: **S\$343.94 million**

Contract Period: **Aug 2001 – Mar 2008**



C852

Serangoon Interchange Station

Client: **Land Transport Authority**

A build only project in a joint venture with Woh Hup and Alpine Mayreder. The project includes construction of the underground station and interconnecting tunnels to Lorong Chuan station and to Bartley Station. Two 6.35 m diameter EPB machines were used to construct the bored tunnels.

Tunnel: **5.8m dia. and total length of 3.8 km**

Contract Value: **S\$155.95 million**

Contract Period: **Aug 2003 – Aug 2008**



C855

Holland Village, Buona Vista, Kent Ridge and One North Stations

Client: **Land Transport Authority**

A design and build project under a joint venture with Woh Hup and Alpine Mayreder which includes the construction of 4 underground stations for Circle Line Stage 4 along with 8.25km TBM tunnels and 0.35km C&C tunnel. The bored tunnels were constructed using two 6.35m diameter EPB machines and two 6.35m diameter slurry machines.

Tunnel: **5.8m dia. and total length of 8.25 km**

Contract Value: **S\$399.91 million**

Contract Period: **Aug 2004 – Dec 2009**



P8402

Marina Bay Sands Integrated Resort Development

Client: **Marina Bay Sands Pte Ltd**

The project comprises of the construction of basement retail concourse, car park and two-directional, two-line MRT section tunnels underneath.

Contract Value: **S\$167.9 million**

Contract Period: **Jun 2008 – Jun 2010**



C902

Promenade Station

Client: **Land Transport Authority**

The design and build project includes the extension of existing Promenade Station and construction of 1.12km interconnection tunnels. One 6.35m diameter EPB machine was used to construct the bored tunnels. Project C902 won the first place in the Safety Competition for Downtown Line Projects held by the Land Transport Authority (LTA)

Tunnel: **5.8m dia. and total length of 1.12 km**

Contract Value: **S\$230.97 million**

Contract Period: **Apr 2008 – Sep 2013**



C713

North East Line Extension

Client: **Land Transport Authority**

This project comprises of a 48m C&C tunnel and a two-tier box tunnel linked to the existing parking tunnel. The works include traffic turn pouring, the design and construction of temporary retaining structures, soil excavation and support, tunnels and the main structure, and the connection of existing water pumps, pipe, fire hose and emergency contact system to the new tunnels and other auxiliary work.

Tunnel: **48 m Cut & Cover Tunnel**

Contract Value: **S\$8.16 million**

Contract Period: **Oct 2011 – Dec 2014**



C920

Newton Station

Client: **Land Transport Authority**

This design and build project involves the construction of the underground Newton Station and four tunnels that connect to Little India Station and Stevens Station as well as a Cable Tunnel using pipe jacking method. Four 6.35m diameter EPS machines were used to construct the bored tunnels

Tunnel: **5.8 m dia. and total length of 5.32 km**

Contract Value: **S\$355.7 million**

Contract Period: **Sep 2009 – Jul 2015**



T206

Thomson Line Tunnels

Client: **Land Transport Authority**

Design and construction of mainline bored tunnels between Woodlands Station & Woodlands South Station and between Woodlands South Station and Sembawang Airbase. T206 also includes reception bored tunnels between Mandai Depot and crossover tunnels at Sembawang Airbase, associated four launching shafts, two escape shafts and four cross passages. Three 6.35m diameter EPB machines and two 6.35m diameter slurry TBMs were used to construct the bored tunnels.

Tunnel: **5.8 m dia. and total length of 6.15 km**

Contract Value: **S\$421.58 million**

Contract Period: **Jul 2013 – Sep 2019**



T225

Shenton Way Station

Client: **Land Transport Authority**

Construction of a 5-storey underground Shenton Way Station. Bored tunnels between Shenton Way and Maxwell Station and between Shenton Way and Marina Bay Station. The station features three entrances and new passageway links connecting to adjacent buildings. Two 6.35m diameter EPB machines were used to construct the bored tunnels.

Tunnel: **5.8 dia. and total length of 2.28 km**

Contract Value: **S\$368.16 million**

Contract Period: **May 2014 – Dec 2020**



C923A

Downtown Line Stage 3 Tunnels

Client: **Land Transport Authority**

Construction of tunnels between Tampines East and Upper Changi Stations, a TBM launching shaft and eight cross passages. Two 6.35m diameter EPB machines were used to construct the bored tunnels.

Tunnel: **5.8 m dia. and total length of 4.76 km**

Contract Value: **S\$91.3 million**

Contract Period: **Aug 2011 – Dec 2016**



C1688

Tuas West Extension

Client: **Land Transport Authority**

STEC's first viaduct project in Singapore, C1688 entails the construction of one elevated 3-storey interchange station Gul Circle and 3.05km of elevated MRT viaduct. In addition, a further 600m of elevated viaduct for the Tuas South Extension (TSE) were constructed.

Contract Value: **S\$190.0 million**

Contract Period: **Nov 2011 – Jul 2016**



T310

Bayshore Station

Client: **Land Transport Authority**

Undertaken as a joint venture with Woh Hup, this project includes the construction of underground Bayshore Station with five entrances, bored tunnels between Bayshore and Siglap Station and between Bayshore and Bedok South Station, along with one escape shaft and one cross passage. Three 6.35m diameter EPB machines are used to construct the bored tunnels.

Tunnel: **5.8 dia. and total length of 3.55 km**

Contract Value: **S\$295.86 million**

Contract Period: **Mar 2016 – Feb 2023**



T305

Katong Park Station

Client: **Land Transport Authority**

Construction of underground Katong Park Station with two entrances, bored tunnels between Katong Park and Tanjong Rhu Station and between Katong Park and Amber Station and two cross passages. Two 6.35m diameter EPB machines are used to construct the bored tunnels.

Tunnel: **5.8 m dia. and total length of 3.6 km**

Contract Value: **S\$293.45 million**

Contract Period: **2016 – 2023**



Funan UPL

Funan Underground Pedestrian Linkway

Client: **Woh Hup – Obayashi Joint Venture**

The construction of a 108m long tunnel that connects Funan Mall with the existing basement of Capitol Piazza. Consisting of 68 segments, the tunnel was built using Rectangular Pipe Jacking Methodology (RPJM) which improves construction productivity while minimizing disruption and environmental impact. It is STEC's first commercial Underground Pedestrian Link Project with RPJM Method. One 7630 x 6430 Rectangular Pipe Jacking Machine was used to construct the tunnel.

Contract Value: **S\$21.2 million**

Contract Period: **2017 – 2021**



DTSS T-11

Deep Tunnel Sewerage System Phase 2

Client: **Public Utilities Board**

The project consists of the design and construction of a 6 km South Main Sewerage Tunnel, a 5.5 km South Linkway Sewerage Tunnel, fifteen working shafts and related facilities. Two 3.0m diameter slurry TBMs and three 3.3m diameter slurry TBMs are used to construct the bored tunnels.

Contract Value: **S\$472.17 million**

Contract Period: **Nov 2017 – Mar 2023**



T316

Changi Airport Underground Infrastructure

Client: **Land Transport Authority**

T316 encompasses the construction and completion of twin bored tunnels from Changi Airport Terminal 5 (T5) development towards Changi Airport (CGA) Station Terminal 2 (T2) North Finger Pier. It also includes construction and completion of associated cross passages, launch shaft, underground infrastructure, tunnels low point sumps and the associated ancillary works.

Contract Value: **S\$321.7 million**

Contract Period: **Oct 2019 – Sept 2026**



J102

Jurong Region Line Stations

Client: **Land Transport Authority**

Jurong Region Line J102 project comprises the design and construction of Choa Chu Kang, Choa Chu Kang West and Tengah Stations with a 4.3 km viaduct between Choa Chu Kang and Tengah along Choa Chu Kang Ave 3. This project includes addition and alteration works to the existing Choa Chu Kang station on the North-South Line, to integrate it with the new JRL station.

Contract Value: **S\$465.1 million**

Contract Period: **Sep 2019 – Feb 2026**



N109A

North-South Corridor

Client: **Land Transport Authority**

Construction of an 800 m long road tunnel featuring a pair of three-lane roads which will be integrated with Teck Ghee Station on the future Cross Island Line. The project also involves the construction of an MRT station box – an underground structure that lays the foundation for a future station – and commuter facilities, including pedestrian overhead bridges, bus stops, sheltered walkways, and cycling paths. N109A is a part of the North-South Corridor, a 21.5km expressway which will connect towns in the north to the city centre.

Contract Value: **S\$615.90 million**

Contract Period: **Jan 2019 – Feb 2028**



TWRP C1

Tuas Water Reclamation Plant Contract 1

Client: **Public Utilities Board**

PUB TWRP Contract 1 comprises of a construction of 6m internal diameter tunnel from the proposed Tuas Water Reclamation Plant (TWRP) / Tuas NEWater Factory to existing network in Jurong Island, construction of tunnel launching and receiving shafts and the installation of twin 2200mm and 1200mm diameter pipelines within the tunnel, pipelaying by cut and cover method, installation of pipeline appurtenances and construction of associated chambers.

Contract Value: **S\$116 million**

Contract Period: **2021 – 2024**



We are devoted to building a more intelligent city through quality projects that **broaden spaces, reduce distances and connect people.**





Quality Management

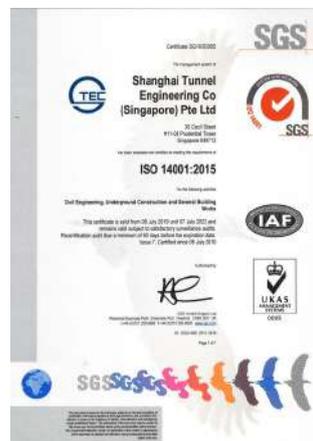
STEC is dedicated to deliver projects in a high-quality standard. This means cultivating a strong quality culture in our organization and continuously enhancing the features and characteristics of our services to increase efficiency and effectiveness during the production and delivery of each project.

STEC's commitment is to never compromise on the quality and compliance of our products and services. This requires every individual to understand their responsibility in achieving our quality objectives and to be empowered to protect our clients and our brand. We have adopted an Integrated Quality Management approach involving the client, sub-contractors and suppliers, coupled with an efficient in-house Quality Assessment System that has led to greater efficiency during construction.



QUALITY MANAGEMENT CERTIFICATIONS

The company is registered with the SGS International Certification Services Singapore Pte Ltd in the Mechanical and Electrical works, Civil Engineering, Underground Construction, General Building Works and Tendering. In 2018, STECS was awarded the ISO 9001-2015 by the SGS International Certification Services Singapore Pte Ltd.





Our construction teams are trained to understand and apply the requirements to ensure consistent delivery of high standard of workmanship. Quality is an integral part of STECS's business principles which guide our actions to deliver high-quality services to our clients. They are the core element of our pursuit of being recognized and trusted as a leading construction company. STECS performs continuous quality improvement program to improve services and products.

We use a structured process to identify problems and areas in the project delivery system that need improvement, develop and implement improvement strategies and study its effectiveness. We are committed in the evaluation and enhancement of the processes we use to provide quality services and products that meet the needs and exceeds the expectations of our clients.

QUALITY AWARDS

STECS has received quality awards from government agencies such as Building Construction Authority and Land Transport Authority. These awards demonstrate our work ethic, dedication, specialty and highly developed systems.

2019

LTA Excellence Award Best Managed Rail/Road Infrastructure Project Partner - C1688

BCA Green and Gracious Star Champion Award - Corporate

TUCSS Project of the Year Merit Award - T225

2018

BCA Construction Excellence Award - C1688

2017

BCA Construction Excellence Award - C920

2014

BCA Green and Gracious Star Award - Corporate

2013

BCA Construction Excellence Award - C855





WSHE Management

TOTAL WORKPLACE SAFETY, HEALTH AND ENVIRONMENT (WSHE)

A safe and healthy workplace is one that has workers and managers collaborating in a constant improvement process to protect and promote the health, safety, and well-being of all workers and the sustainability of the workplace. Integrating programs that control risks in the workplace together with the promotion of health can result in improved productivity and performance, reduction in sickness absence, employee retention, financial performance, return on investment and better quality of life.

A STRONG WSHE CULTURE

At STECS, our goal for safety is as clear and simple as our workplace safety slogan: **Zero Accident and Zero Harm for Everyone**. We accomplish that by integrating workplace safety and health management into our planning, design and construction process. STECS is committed to eliminate and prevent all workplace injuries and provide an environment where all employees go home in the same shape as when they came to work through effective implementation of safety management rules and policy.



WSHE MANAGEMENT SYSTEM

We employ safety officers in all projects, led by a corporate safety manager who directly reports to the managing director. The safety professionals are part of a core team responsible for the effective implementation of Project Safety, Health and Environmental Management System.



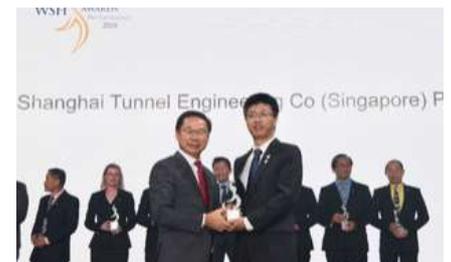
VISUALIZATION TECHNOLOGY IN WSHE TRAINING

STECS establishes WSHE training facilities in all project sites and enhances them with Virtual Reality (VR) technology which provides realistic simulations of various site-specific hazards. With VR training in areas such as work-at-height, electrical and lifting safety, STECS ensures that site personnel are equipped with heightened situational awareness and skills to prevent accidents.



PROMOTING WSHE AWARENESS

To realise an accident-free workplace, promoting WSH awareness is of paramount importance. Our managing director together with WSHE Committee conduct monthly inspection for all projects. On top of that, we hold an annual Corporate WSHE Campaign to raise awareness as well as recognize individual safety efforts and performance. We fully support MOM's 'VISION ZERO' and LTA's 'ZERO ACCIDENT MOVEMENT', which can be achieved through the strong commitment of the company's top management and active participation of supervisory staffs and workers.



WSHE AWARDS

Over the years, our consistent efforts as a WSHE role model have been recognized by authorities in the industry.

2021

WSH Performance (Silver) Award – Corporate
 WSH Performance (SHARP) Awards – T225, T305, T310, T316, J102, N109A, T11

2020

WSH Performance (Silver) Award – Corporate
 WSH Performance (SHARP) Awards – T225, T305, N109A, T11
 LTA Annual Safety Award Convention (ASAC) Safety Merit Award – T305

2019

WSH Performance (Silver) Award – Corporate
 WSH Performance (SHARP) Awards – T305 & T11
 LTA ASAC Construction Safety Innovation Award – T305





Social Responsibility

STEC is committed to being a positive contributor to the local community. Our activities are focused on benefiting the places where we live and work, increasing knowledge in areas ranging from arts to geosciences, and creating a sustainable environment. Our employees actively participate in our outreach events, improving everything from green spaces to public education and more, all done with the belief that our efforts will make an impact and build a more resilient society.

COMMUNITY

Our outreach activities contribute to building safe, healthy and strong communities. Our employees, along with their families and friends, volunteer their time and enthusiasm to help us make a difference.





KNOWLEDGE

Our support for educational initiatives is part of a corporate commitment to programs that enhance understanding of science, arts, literature and more. Whether it's developing the talents of our youth or creating a bridge for cross-cultural learning, we work with organizations whose efforts pique curiosity and bring about new points of view.

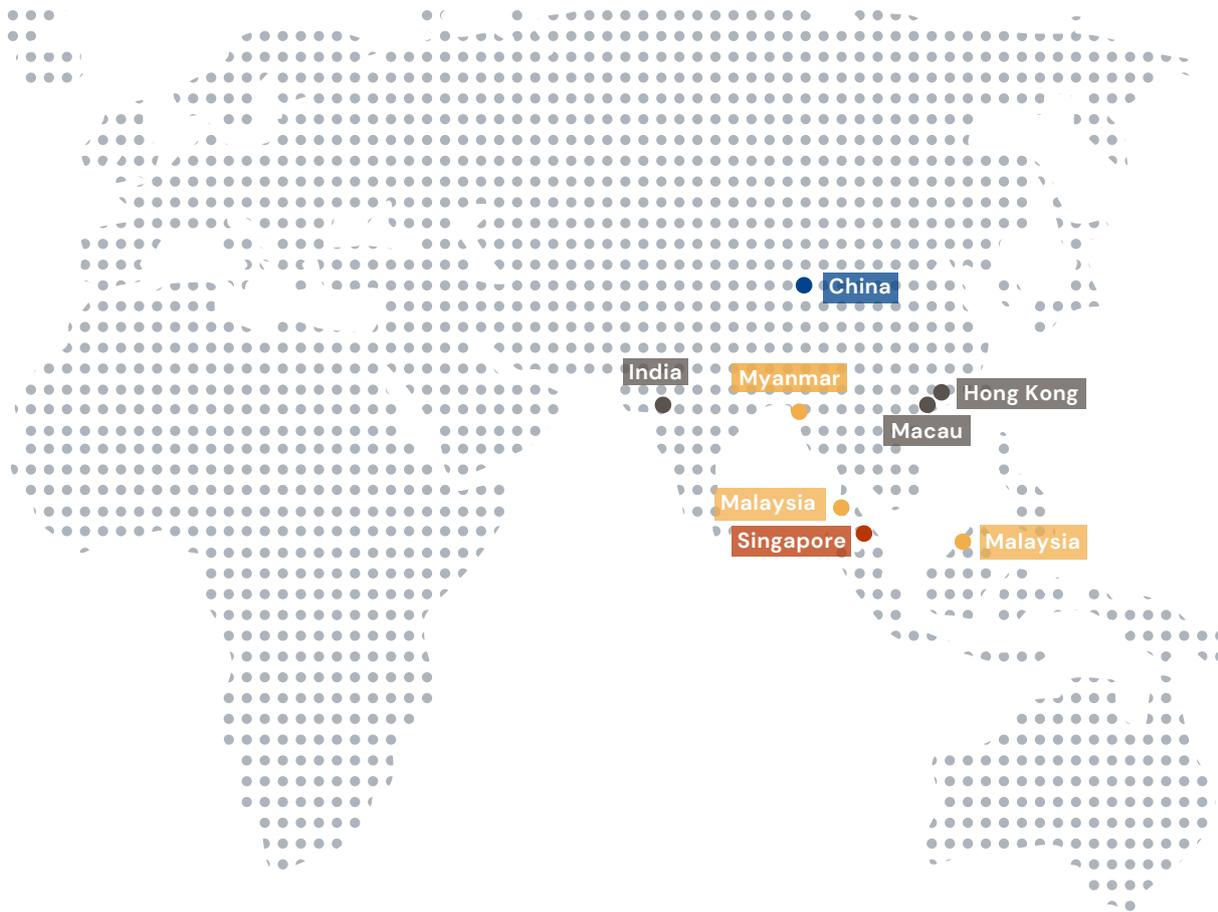


ENVIRONMENT

We team with non-profits dedicated to a range of environmental initiatives. Our sponsorships and employee volunteering efforts support conservation, rehabilitation and more. In the spirit of innovation, STECS also partners with organizations that leverage new technologies to improve the way we care for the environment.

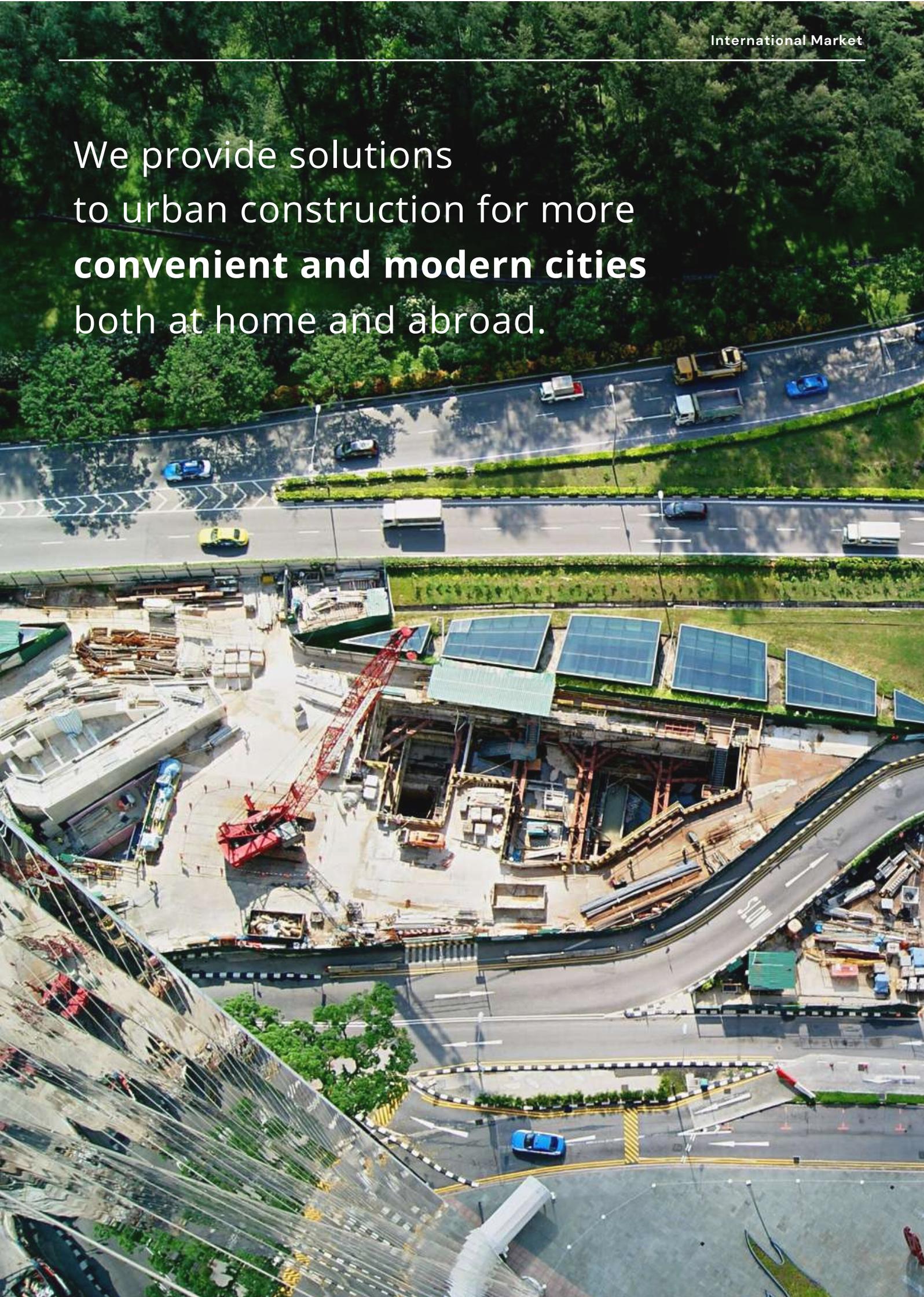


International Markets



-  STEC Headquarter
-  STEC Singapore
-  STEC Singapore Subsidiaries
-  Operated under STEC Singapore

We provide solutions
to urban construction for more
convenient and modern cities
both at home and abroad.







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