



**SOOSUNG
ENGINEERING
CO.,LTD.**

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www.soosungeng.com

Beyond your Imagination, SOOSUNG!



Mission

- Human and Technical Integrity
- Enhancement of Company Value through Ensuring the Best Technology
- Contribute to the Company Social Responsibility and Human Happiness

Core Value

- Pure Passion
- Pride of Professional
- Creative Cooperation
- Challenge for the Best

Company History

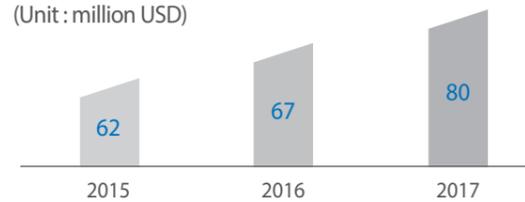
- 2018 Obtained Occupational Health and Safety Management System : ISO 45001:2018
- 2018 Established Armenia Branch Office
- 2017 Established Myanmar Subsidiary Office
- 2016 Established Georgia Branch Office
- 2014 Established Philippines Branch Office
- 2012 Certified Quality Management System (KEPIC-SN) (Certified No. WN-551) / (KEPIC-SN)
- 2012 Established Mozambique Subsidiary Office
- 2009 Established Mongolia Subsidiary Office
- 2004 Obtained for Environmental Management System: KS I ISO 14001:2009 / ISO 14001:2004 (CRK-E2-034)
- 2001 Merged with Doosan Engineering Consultants Co., Ltd.
- 2001 Changed the Corporation name to Soosung Engineering Co.,Ltd.
- 1998 Obtained for Quality Management System : ISO KS Q ISO:9001:2009 / ISO 9001:2008 (CRK-Q4-028)
- 1991 Founded Sebang Technology Group Co., Ltd.

Business Activities & Services

 Road & Highway 04-07	 Railway & Metro 08-11	 Airport 12-13	 Port 14-15	 Traffic Planning & Management 16-17
 Bridge & Structure 18-21	 Tunnel & Geotechnical 22-25	 Water Resource 26-27	 Water Supply & Sewerage 28-29	 Environment 30-31
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Turnover

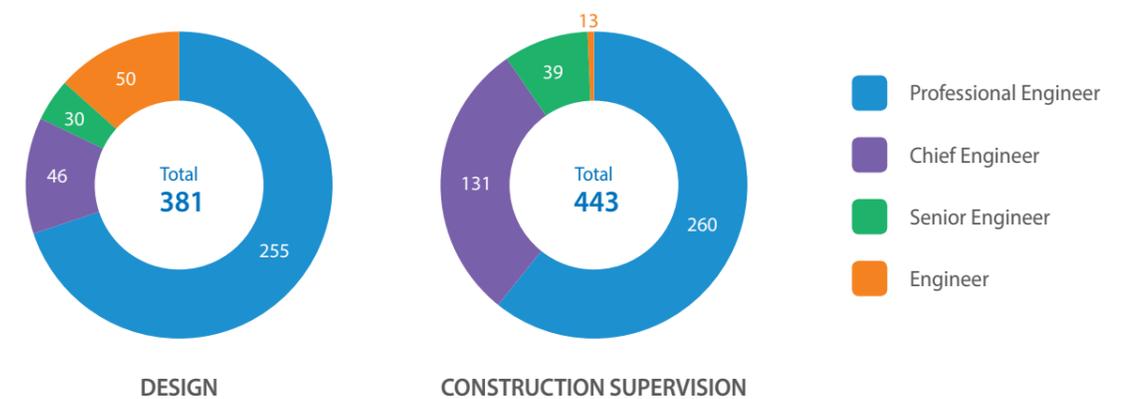
TURNOVER OF THE LAST 3 YEARS
(Unit : million USD)



Scope of Works

- Pre-feasibility study & Feasibility study
- Technical Assistance
- Preliminary & Detailed Engineering Design
- Environmental Impact Assessment
- Social Impact Assessment
- Traffic Impact Assessment
- Road Safety Audit
- Design Review
- Construction Supervision
- Contract & Project Management

Human Resource Status



ROAD & HIGHWAY



The Department of Road & Highway provides transportation civil engineering services in compliance with environmental standards and user needs. We provide the highest quality engineering services from planning, design and maintenance in the field of urban, regional and national highway projects.

Continuously participating in Road projects, we are remarkably contributing to the establishment of the national transportation network and actively playing a key role in overseas projects with highest efficiency and creativity and specifically leading in Africa & CIS market with supreme technology and manpower.

With long-term investment and growth investment, we are advancing to the one of the leading engineering consultants in global market.

SCOPE OF WORKS

- Master Plan & Strategy Development
- Pre-Feasibility & Feasibility Study
- Preliminary & Detailed Engineering Design
- Bidding Document Preparation
- Construction Supervision
- Contract Management & Administration
- Project Management
- Land Acquisition, Resettlement Plan & Support
- Environmental & Social Impact Assessment
- Traffic Impact Assessment & Demand Forecast
- Technology Transfer & Institutional Capacity Building
- Technical Assistance





Feasibility Study and Preliminary Engineering Design for Jemulpo Road Project (2015)

Project Cost : US \$ 250 mil
 Length : L=7.6km, B=40~55m (Urban expressway)
 Cut and Cover : L=2.3km with 4lanes
 Eco-Friendly Area : A=110,000m²



Detailed Engineering Design for Construction of National Expressway No. 4 (Lot No.3)

Project Cost : US \$ 130 mil
 Length : L=5.6km, B=23.4m (Expressway)
 Interchange : 2EA (Geochang JCT, South geochang IC)
 Tunnel : 2EA / L=7,845m



Detailed Engineering Design for Construction of Paju-Yangju-Pocheon Section of National Highway No.400 (Lot No.4)

Project Cost : US \$ 176 mil
 Length : L=4.62km, B=23.4m (Expressway)
 Interchange : 2EA (Deokjeong IC, Yangju IC)
 Bridge : 9EA / L=1,500m
 Tunnel : 1EA / L=376m



Detailed Engineering Design for High-Speed Railway Line No.14 Hamyang ~ Changyeong (Section 9)

Project Cost : US \$ 230 mil
 Length : L=6.42km, B=23.4m (Expressway)
 Bridge : 3EA / L=110+30+30=170m
 Tunnel : 2EA / L=5,856m



Preparation of Detail Project Report of Kathmandu-Terai/Madhesh Fast Track [Expressway] Road Project

Project Cost : US\$ 1.3 bil
 Length : L=67.0km, B=24.0m (4Lanes, Expressway)
 Main Bridges : 7 EA(with long span and high piers)
 Tunnel : 3 EA(with 1.35km length)



Detailed Engineering Design for Construction of Pohang ~ Yeongdeok Expressway Lot No.2 (2015)

Project Cost : US\$ 150 mil
 Length : L=8.18km, B=23.4m (Expressway)
 Interchange : 1EA
 Bridge : 7EA / L=961m
 Tunnel : 1EA / L=2,693m
 SMART TOLLING



Detailed Engineering Design for Road Construction of Sillim ~ Bongcheon Tunnel

Project Cost : US\$ 320 mil
 Length : L=3.1km, B=18.5m
 BOX, U-TYPE : L=1,293m
 Tunnel : L=1,720m



Detailed Engineering Design for Construction of Yangpyeong ~ Icheon Expressway Lot No.1 (2018)

Project Cost : US\$ 120 mil
 Length : L=4.20km, B=23.4m (Expressway)
 Interchange : 2EA
 Bridge : 8EA / L=1,172m
 Tunnel : 1EA / L=1,357m

RAILWAY & METRO



As a strong and integral leader of Korean Railway Renaissance, we have accumulated vast experiences domestically and internationally. While performing a number of projects for high speed rail, conventional railway, underground metro and light rail transit, Soosung has proved its competence in the key service areas of surveys and studies, engineering and design, as well as supervision and project management in the field of Railway & Metro.

In response to the 21st Century, Soosung's Railway and Metro team, we are doing our best to make huge successful improvements with many skilled experts and know-hows to be a reliable and competent partner for your safe and pleasant rail transit development

SCOPE OF WORKS

- Master Plan & Strategy Development
- Pre-Feasibility & Feasibility Study
- Preliminary & Detailed Engineering Design
- Design-Build and PPP(Public Private Partnership)
- Bidding Document Preparation
- Construction Supervision
- Contract Management & Administration
- Project Management Consultancy
- Land Acquisition, Resettlement Plan & Support
- Technology Transfer



Detailed Engineering Design for Construction of Gyeongbu High Speed Railway Lot No. 10-1

Project Cost : US\$ 382.6 mil	Length : L=6.26km
Earth work : L=1.35km	Bridges : L=1.05km(3EA)
Tunnels : L=3.86km(1EA)	Design Speed : 350km/hr

Construction Supervision for Gyeongbu High Speed Railway Section 10-3A, 10-3B Construction (On Going)

Project Cost : US\$ 382.6 mil	Length : L=15.32km
Earth Work : L=12.29km	Bridges : L=1.49km(4EA)
Tunnels : L=1.54km(4EA)	Station : 2EA

Preliminary Engineering Design for Construction of Honam High-Speed Railway Lot No.4

Project Cost : US\$ 477 mil
Length : L=32.7km
Electric Power Supply : L=184.45km
Site Survey : 1,079,200m ² 623Holes
Design Speed : 350km/hr

Construction Supervision for Honam High-Speed Railway Section 4-1, 4-2 Construction

Project Cost : US\$ 477 mil	Length : L=20.42km
Earth Work : L=9.49km	Bridge : L=10.08km(9EA)
Tunnel : L=0.85km(2EA)	

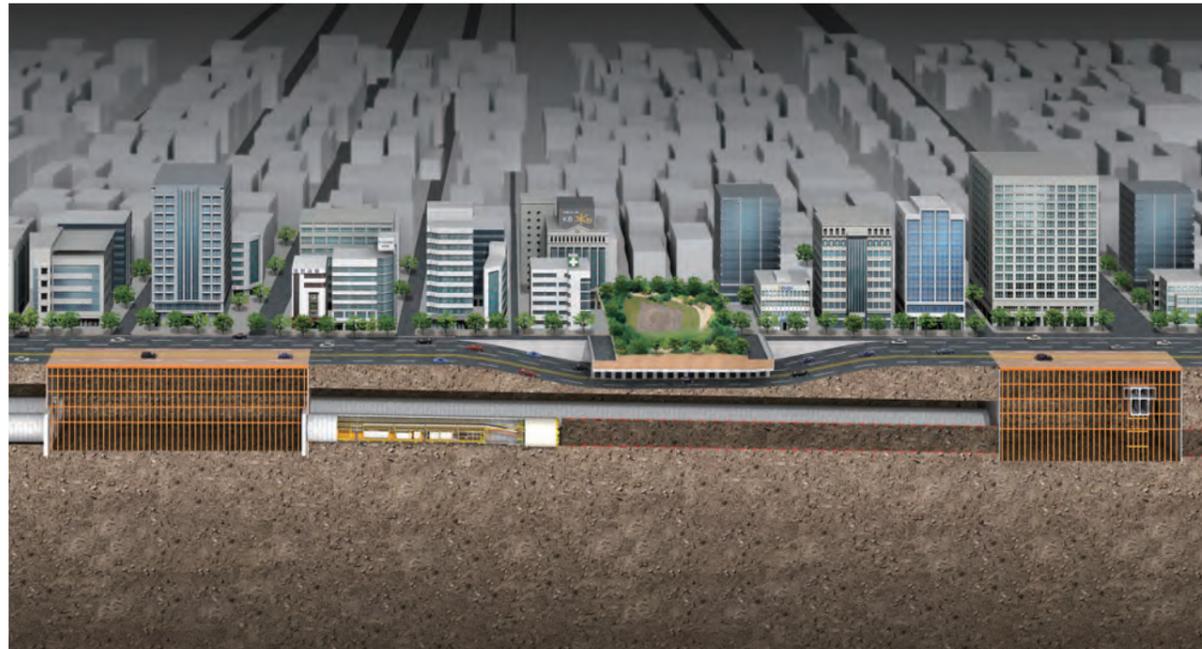
Reference Design Consultant 04 (RDC 04) for the Kuala Lumpur - Singapore High Speed Rail, Malaysia

Project Cost : US\$ 16,200 mil
Length : L=108km
Earthwork : L=79km
Bridge : L=28km
Tunnels : L=1km
Design Speed : V=350km/h



Detailed Engineering Design for Construction of Gimpo Urban Railway Lot No.4

Project Cost : US\$ 120.6 mil
 Length : L=4.26km
 Tunnels : L=4.19km
 Station : 1 EA
 Ventilation Pit : 2 EA
 Design Speed : 80km/hr



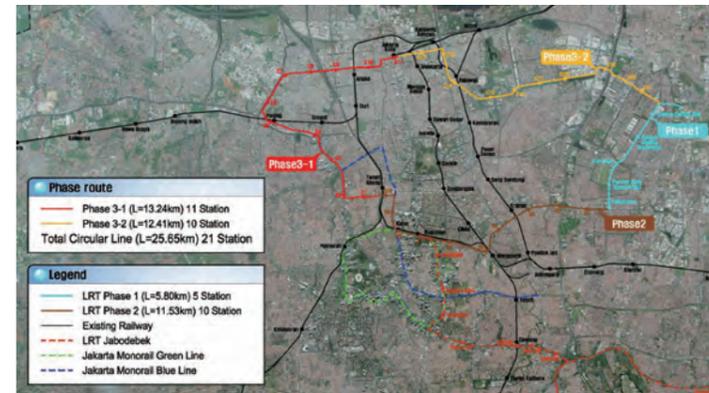
Construction Supervision for Seoul Subway Line 9 Section 919

Project Cost : US\$ 221.9 mil
 Total : L=1.56km
 Station : 2 EA
 Shield TBM Tunnels : L=1.13km



Feasibility Study and Master Plan for Construction of Samseong - Dongtan Great Train Express

Project Cost : US\$ 1,760 mil
 Length : L=9.8km
 Tunnels : L=39.5km
 Station : 3 EA



Indonesia, Jakarta LRT Phase 2&3 Project (On Going)

Project Cost : US\$ 2156.3 mil
 PPP Business : Construction: 4.5years / Operation: 20years / Availability Payment Method
 Scope of Works : Maintenance & Operation of the Whole Vehicle by separate professional firm



Construction Supervision for Seoheha Line Double Track Railway Section 3,4 Construction (On Going)

Project Cost : US\$ 493 mil
 Length : L=19.31km
 Bridge : L=10.16km(6EA)
 Tunnels : L=5.45km(3EA)
 Earthwork : L=3.71km



Construction Supervision Service for Seoul Metropolitan High-Speed Railway Construction (Section 6-2, 7)

Project Cost : US\$ 195.6 mil
 Length : L=13.23km
 Tunnels : L=12.53km(2EA)
 Earthwork : L=0.39km
 Ventilation Pit : 4EA

AIRPORT



The Department of Airport has been playing a leading role by developing and expanding various airport infrastructure facilities. We have actively participated in many international airport projects in Korea and other Asian countries. With the recognized and accumulated technologies from the abundant experiences of Road, Structure and Transport field, we are resolutely expanding those services which can be applied into the Airport Projects.

SCOPE OF WORKS

- Master Plan
- Airport Layout Plan Development
- Airfield Engineering and Design
- Landside & Terminal Access Design
- Heliport Planning and Design
- Airport Pavement Evaluation & Analysis
- Air Navigation Facilities Planning



Design Development for New Ulleung Airport

Project Cost : US\$ 575 mil
 Runway : L=1,200m, W=30m
 Parallel Taxiway
 Passenger Apron : 27,500m²
 Passenger Terminal
 Supporting Facilities



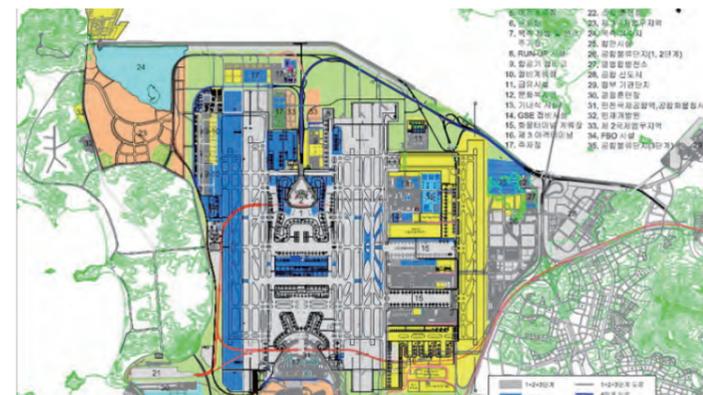
Master Plan and Feasibility Assessment for New Gimhae Intl. Airport

Project Cost : US\$ 6,256 mil
 Runway : L=3,200m, W=60m
 2nd Passenger Terminal
 Passenger Apron : 76 stands
 Supporting Facilities
 Access Road & Rail



Design Development for Incheon Intl. Airport 3rd Phase Airside Construction Project

Project Cost : US\$ 1,600 mil
 Passenger Apron : 56 stands
 IAT(Shuttle Train) : 1.5 km Double Track
 Baggage Handling System : 42 km



Design Development for Incheon Intl. Airport 4th Phase Landside Construction Project

Project Cost : US\$ 211 mil
 Infrastructure
 Utilities
 Landscape
 Power Distribution
 Information & Communication



Design Development for Jeju Intl. Airport Airside Infrastructure Extension

Project Cost : US\$ 52 mil
 Rapid Exit Taxiway : 3 EA
 Holding Bay : 2 EA
 Passenger Apron : 54,798 m²

PORT



The Department of Port has successfully implemented design consulting services for Busan & Incheon New Port, Yeosu Expo Marina Port and Multifunctional Fishing Port and etc.

We are providing the optimal performances to Client by enhanced cutting-edge technology and making renovation of new technology & new construction methods.

We are committed to becoming one of the leading firm who can be able to carry out the best services in port design field.

SCOPE OF WORKS

- Planning and Design of Ports
- Design of Hinterland Development
- Planning and Design of Fishing Port
- Planning of Marina and Port re-development
- Coastal Disaster Prevention
- Overseas Harbor Development
- Research and Development
- Construction Management Service



Preliminary & Detailed Engineering Design for Construction of Site of The Port Hinterland (Phase 1) in Incheon New Port

Project Cost : US\$ 280 mil
 Port Hinterland : 2.1 km²
 P.B.D Method : 7,095 km
 Preloading : 5,210,000 m²
 Water Pipe : 16.8 km
 Rainwater Pipe : 15.3 km
 Sewage Pipe : 14.3 km



Construction Management Service for The Upper Functional Facility Construction of Phase 1 Container Pier (Terminal A) of Incheon New Port

Project Cost : US\$ 66 mil
 Container Terminal A : L=800m / B=600m



Detailed Engineering Design for Marina Port Infrastructure Construction of Yeosu Expo

Project Cost : US\$ 20 mil
 Breakwater : L=450m
 Slipway : L=10 m / B=59m



The Establishment of Master Plan and Preliminary Engineering Design for Development of Multifunction Fishing Port (Fisharena Type) of WiMi and MulGun

Project Cost : US\$ 50mil
 Marina Mooring Facility : 160 berths
 Sea Bridge : L=132m
 Coastal Walkway : L=522m



Construction Management Service for North Breakwater (2nd Section) Construction work of Donghae 3rd Stage

Project Cost : US\$ 3.6 mil
 Breakwater : L=1km (Caisson type 793m, Mound type 207m)



TRAFFIC PLANNING & MANAGEMENT



The Department of Traffic Planning & Management provides traffic demand forecast, economic analysis, transportation impact assessment, Road Safety Audit and Transport Systems Management

We are pursuing to lead the industry in working along the official plans such as Public Transportation Basic Plan, Road Construction Plan, Comprehensive Urban Transport Master Plan and etc. of the central government and respective local governments.

And we have been renowned for its frontier technologies in Intelligent Transportation System, Multi-modal Transit Center & Bus Rapid Transit design.

SCOPE OF WORKS

- Master Plan & Strategy Development
- Pre-Feasibility & Feasibility Study
- Preliminary & Detailed Engineering Design
- Traffic Impact Assessment & Demand Forecast
- Technical Assistance
- Bidding Document Preparation
- Technology Transfer & Institutional Capacity Building



Preliminary & Detailed Engineering Design for Construction of Suwon Station Multi-Modal Transit Center

Project Cost : US\$ 2 mil
 Floors : 2F~B1F
 Land area : 23,377m²
 Underpass : L=56m
 Overpass : L=330m
 ITS : VDS, VMS, DSRC
 BIT & KIOSK



Public Transport Master Plan in Goyang City

Project Cost : US\$ 0.3 mil
 Bus System Overhaul
 Multimodal Transfer Center (KINTEX, Daegok)
 BRT F/S
 Bus Depot : 2 points



Detailed Engineering Design for BRT Between "Naeseong-Seomyeon" Corridor

Project Cost : US\$ 0.2 mil
 Length : L=6.6km, 6~8 lanes
 BRT Station : 24EA
 Multimodal Transfer System
 TSM and BIS/BMS



Development of an Intelligent Transportation System (ITS) Strategy and Action Plan for East-West Highway Corridor

Project Cost : US\$ 0.2 mil
 Length : E60 & E70, L=471km, B=26~27m (4-lane)
 VDS, CCTV, RWIS, ANPR, VMS, VTS, FAST, WIM, TMS, etc.
 ITS Center F/S



Impact Assessment for The Construction of Administrative City in Sejong

Project Cost : US\$ 1.2 mil
 Site Location : Sejong special self-governing city
 Site Area : 72,908,221m²
 Transportation Impact Assessment
 Environmental Impact Assessment
 Preliminary Disaster Impact Inspection

BRIDGE & STRUCTURE



As the Bridge & Structure department has played a key role for Soosung Engineering Co., Ltd., we have the experiences in feasibility study, master plan, design and construction supervision for most high-tech special bridges from extradosed, arch, suspension bridge to cable stayed bridge not only in Korea but in Central Asia, Southeast Asia, Africa, Central and South America and South Pacific.

We continuously develop new technologies in for fourth industrial revolution and provide the customers satisfying services with our fully commitment of our staff members to make the most important companies throughout the world.

Since the establishment of the Soosung Engineering Co., Ltd. our department has extended its operation to various civil engineering fields including bridges, roads, railways, tunnels, water resources, airports, dams, ports, etc. where requires top notch structural skills with total solutions.

We exert our genuine endeavor to facilitate the achievements of sheer aesthetic and technical acumens and economic aspect of structures, in line with fulfilling the demands of both Clients and users by achieving technically zero defect.

SCOPE OF WORKS

- Master Plan & Strategy Development
- Pre-Feasibility & Feasibility Study
- Preliminary & Detailed Engineering Design
- Bidding Document Preparation
- Construction Supervision
- Project Management Consultancy
- Technology Transfer & Institutional Building
- Technical Assistance



Detailed Engineering Design & Construction Supervision for Construction of Korea-Myanmar Friendship (Dala) Bridge

Project Cost : US\$ 1,900 mil
 Dala Bridge : L=1,865m (Main Span=320m), Concrete Cable-stayed & Advanced PSC Beam
 Ramp A : L=468m, Advanced PSC Beam & Steel Box
 Ramp B : L=525m, Advanced PSC Beam & Steel Box



Preliminary & Detailed Engineering Design for Construction of National Highway No.14 (Hamyang – Changnyeong Lot No.11) (TK)

Project Cost : US\$ 2,251 mil
 Uiryeong-Nakdong Grand Bridge : L=1,000m (Main Span=370m)
 Inclined Concrete Cable-Stayed & Advanced PSC Beam : Concrete Cable-stayed & Advanced PSC Beam



Preliminary & Detailed Engineering Design for Construction of Seoul-Sejong Expressway (Anseong – Guri Lot No.14) (TK)

Project Cost : US\$ 3,219 mil
 Guri-Godeok Grand Bridge : L=1,725m (Main Span = 540m)
 Concrete Cable-stayed & PSC Box Girder (Open Cut Steel Composite Girder)



Preliminary & Detailed Engineering Design for Construction of National Highway No.2 (Aphae-Amtae Lot No.1) (TK)

Project Cost : US\$ 2,285 mil
 New Millennium Bridge : L=3,584m (Main Span=510m)
 Composite Cable-stayed & PSC Box Girder(FCM+MSS)



Detailed Engineering Design for Construction of Local Road No. 311 (Yeongdeok – Osan Lot No.2)

Project Cost : US\$ 1,440 mil
 Seocheon Bridge : L=1,350m (Main Span=90m)
 Steel Cable-stayed & Struttred PSC Box Girder



Preliminary & Detailed Engineering Design for Construction of National Highway No.400 (Paju and Yangju-Pocheon Lot No.4) (TK)

Project Cost : US\$ 1,744 mil
 Hoeamcheon Bridge : L=1,276m (Main Span=200m)
 Concrete Cable-stayed & PSC Box Girder(FCM)



Preliminary Design & Detailed Engineering Design for Construction of 2nd Saemangeum North & South Road Phase 1 (Lot No.4) (TK)

Project Cost : US\$ 1,777 mil
 Underpass No.1 : L=603m, Open type
 Underpass No.2 : L=485m, Urban type
 Overpass No.1 : L=90m, Tapered Tied Arch



Preliminary & Detailed Engineering Design for Construction of Main Road No.2-44 in Daegu Metropolitan City (TK)

Project Cost : US\$ 600 mil
 Daegu 1st Bridge : L=477m (Main Span=164m)
 Steel Composite Cable-stayed & Steel Composite Box Girder



Detailed Engineering Design for Construction of Accessway to Incheon Grand Bridge (Lot No.5)

Project Cost : US\$ 824 mil
 Aam Bridge : L=801m (Main Span=140m), Extradosed & PSC Box Girder
 Biryu Bridge : L=680m (Main Span=80m), PSC Box Girder

TUNNEL & GEOTECHNICAL

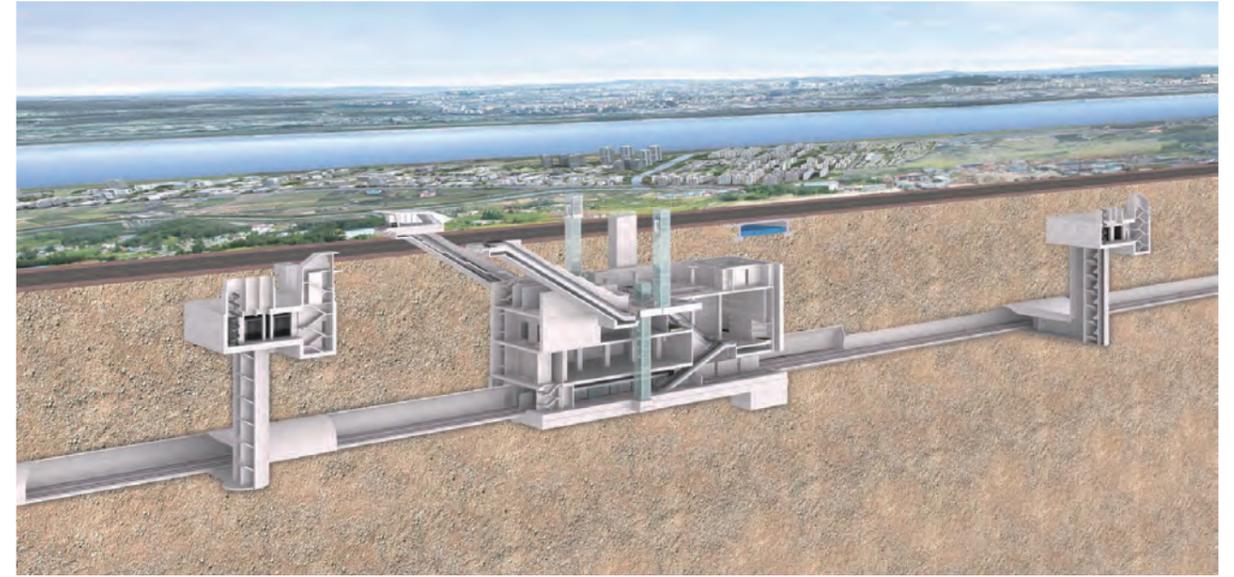


The Department of Tunnel & Geotechnical is a group of specialists renowned for their leading reputations in tunnel & underground designs and supervision.

We have been providing clients with professional and cost-effective solution from planning, feasibility study, preliminary & detailed engineering design to supervision services not only for the construction of various tunnels for infrastructure such as road, railway and subway but also for underground spaces for oil storage and nuclear waste storage.

SCOPE OF WORKS

- Road and Highway Tunnel Design
- Railway and High Speed Railway Tunnel Design
- Subway Tunnel Design
- Waterway and Utility Tunnel Design
- Oil Storage Cavern Design
- Hydropower House Cavern Design
- Nuclear Waste Storage Cavern Design
- All kinds of Tunnel and Cavern Project Management & Supervision
- Soft Ground Improvement Design
- Slope Stability Design
- Bridge and Other Structure foundation Design
- Geotechnical Design of Reservoir and Dam



Preliminary & Detailed Engineering Design for Construction of Kimpo Metro Sub-Base Course (Lot No.4)

Project Cost : US\$ 134.1 mil
 Length : L=4.3km
 NATM Tunnel : L=4.3km
 Station : 1EA, L=68.8m



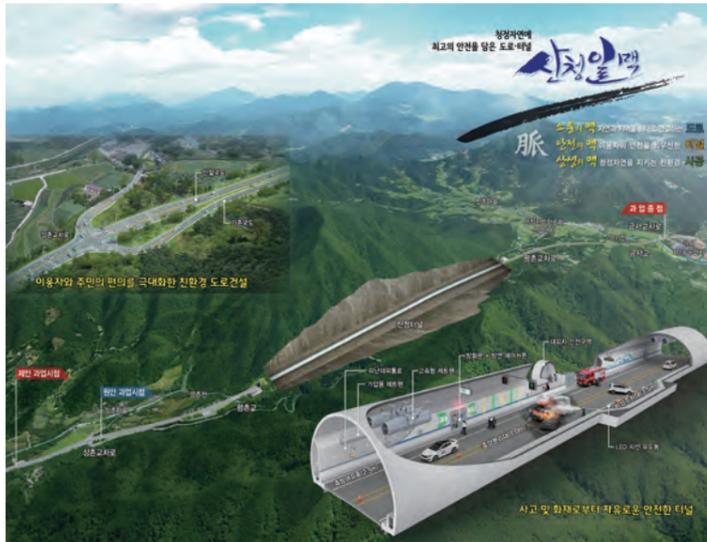
Detailed Engineering Design for Construction of Sangju-Yeongdeok Highway (Lot No. 6&7)

Project Cost : US\$ 98.7 mil
 NATM Tunnel : L=2.3km



Preliminary & Detailed Engineering Design for Construction of Byeollae Line (Amsa-Byeolla) Double Track Railway (Lot No.3)

Project Cost : US\$ 126.7 mil
 Length : L=2.4km
 Tunnel : 2.2km
 Station : 1 EA
 Ventilation Shaft : 3 EA



Preliminary Engineering Design for Construction of Samjang-Sanchung National Road

Project Cost : US\$ 99.9 mil
 Length : L=6.5km
 Design Speed : 60km/hr
 Tunnel (Bi-directional Traffic Tunnel) : 1 EA / L=2,997m
 Bridge : 2EA / L = 110m



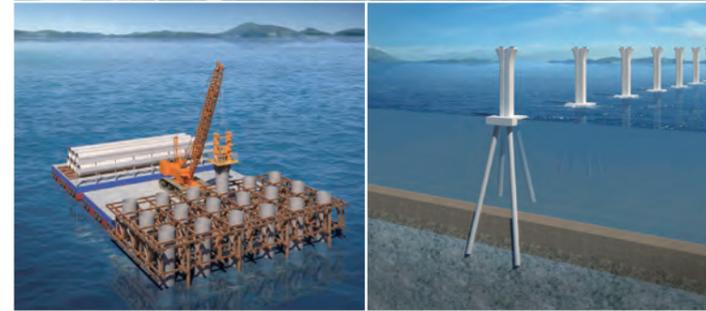
Detailed Engineering Design for Construction of Wonju-Gangneung Railway (Lot No.3)

Project Cost : US \$ 3,8 mil
 Length : L=11.0km
 Bridge : 6EA / L = 0.8km
 Tunnel : 4EA / L=6.9km
 Staion : 1EA



Preliminary & Detailed Engineering Design for Construction of Connection Road of Aphae-Amtae Section

Project Cost : US\$ 261.6 mil
 Length : L=5.1km (Marine Bridge 3.6km / 3EA)
 B=12.5m~17.5m(2-lane, Bridge section)
 Crossroad : 1EA (Grade crossing)



Preliminary Engineering Design for Construction of Flood Control Capacity Expansion Project of Bulgap Reservoir

Project Cost : US\$ 55.8 mil
 Reservoir Capacity : 1,689Mm³
 Length : L=440m, B=140m
 Sluice : Radial Gate (B)9.0x(H)7.4m x 4Bay
 Approach Canal : (B)9.6x(H)9.4m x (L)94.9m x 4Bay
 Controlling Element : (B)9.0x(H)8.9m x (L)10.8m x 4Bay
 Steep Slope Canal : (B)46.9x(H)18.9m x (L)13.7m
 Energy Dissipator : (B)46.9x(H)18.9m x (L)42.0m

WATER RESOURCE



The Department of Water Resource makes most of abundant technologies and experiences in river, dam and hydroelectric power to tackle water shortage issues caused by global warming. For better water supply and waste treatment to preserve environment for the future, we are providing design services for waterworks and waste water treatment and initiating flood control services to maintain public welfare and prevent the potential economic losses and securing favorable quality & quantity of drinking water.

SCOPE OF WORKS

- Master Plan
- Basin Investigation
- Pre-Feasibility & Feasibility Study
- Preliminary & Detailed Engineering Design
- Hydraulic and Hydrological Analysis
- River Training Works
- Dam & Hydropower Project
- Disaster Impact Assessment
- Pumping Station
- Project Management



Preliminary Engineering Design for Geum River Restoration (Zone 5, Booyeo District)

Project Cost : US\$ 126 mil
River Training Works : 9.08km



Detailed Engineering Design for Geum River Restoration (Zone 6, Cheongnam District)

Project Cost : US\$ 288 mil
River Training Works : 17.33 km
Multi-Purpose Weir : 1 Place
Mini-Hydropower Plant : 2.64 MW



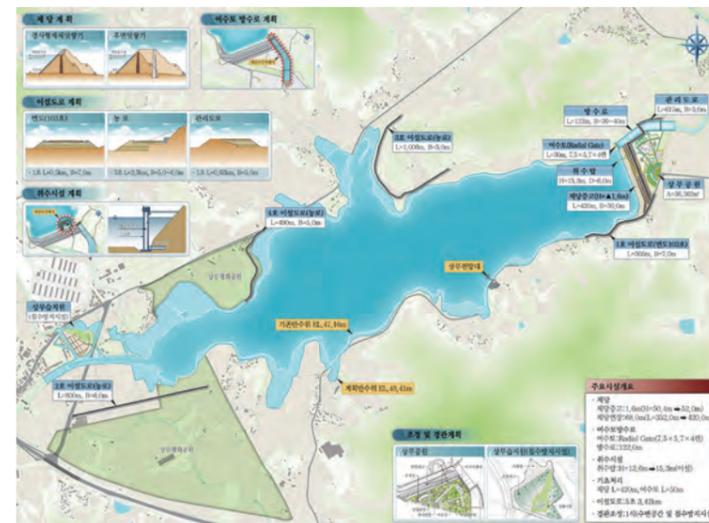
River Maintenance Project for Waterfront of Han River

Project Cost : US\$ 1 mil
Project Area : 399,900 m²
Earth Works, Landscape Works



Detailed Engineering Design for Nakdong River Restoration (Zone 33, Sangju District)

Project Cost : US\$ 163 mil
River Training Works : L = 15.11 km
Pumping and Drainage Station : 2 Places
Multi-Purpose Weir : 1 Place
Small Hydropower Plant : 1.5 MW



Detailed Engineering Design for Agricultural Reservoir Reinforcement Project (7 places in Choongchungnam-do)

Project Cost : US\$ 70 mil
Embankment, Spillway, Relocating Road, Intake Facility for 7 Reservoirs



WATER SUPPLY & SEWERAGE



The Department of Water Supply & Sewerage has been providing engineering services for water/wastewater conveyance, water treatment, wastewater treatment, and urban stormwater systems. For numerous public and private utilities around the country, our team has demonstrated a passion for water, wastewater, stormwater planning and engineering. Our engineers and scientists deliver cost-effective, sustainable, and innovative solutions to meet a wide range of client needs.

SCOPE OF WORKS

- Field Surveying
- Master Planning and Feasibility Studies
- Water/Wastewater System Evaluation
- Water/Wastewater Pipeline Design/Rehabilitation
- Water/Wastewater Treatment & Reuse System Design/Rehabilitation
- Stormwater Management and Facility Design
- Construction Supervision
- Construction Management Consultancy



Detailed Engineering Design for Water Quality Restoration Center and Clean Energy Center(A-2,3,4) Construction in Multifunctional Administrative City

Project Cost : US\$ 83 mil
 Water Quality Restoration Center : Capacity 60,000m³/d
 Clean Energy Center : 30 Tons/d



Preliminary & Detailed Engineering Design for Rehabilitation of Siheung Public Sewage Treatment Facility for Odor Reduction

Project Cost : US\$ 20.1 mil
 Facility Capacity : 279,300m³/d
 Improve Facility : Deodorizer, Tickener, Screen, etc.



Detailed Engineering Design for Expansion of Naeson Distribution Reservoir

Project Cost : US\$ 4.4 mil
 Reservoir : V=4,000m³



Preliminary & Detailed Engineering Design for Expansion of Yeokgok Public Sewage Treatment Facility in Bucheon City

Project Cost : US\$ 55.5 mil
 Wastewater Treatment Plant : Q=65,000m³/d(Extend Q=15,000m³/d)
 Process : DNR + O3 Contactor



Preliminary & Detailed Engineering Design for Sewerage Rehabilitation of Priority Sewerage Management Regions for Flooding Prevention in Gimhae-si, 2016

Project Cost : US\$ 26.3 mil
 Pipe Renewal & Installation : D300~□ 2.8X1.8, L=3,755m
 Pump Station : Q=500m³/min
 Retarding Basin : A=2,700m², V=7,000m³



ENVIRONMENT



The Department of Environment is fully competent for conducting infrastructure locations analysis taking into coordination between environment protection and development. We are providing successful implementation of environmental projects based on the accumulated experiences by carrying out Environmental Impact Assessment and Post Environmental Impact Assessment in the all field of infrastructure.

SCOPE OF WORKS

- Strategic Environmental Impact Assessment
- Environmental Impact Assessment
- Post Environmental Impact Assessment (Monitoring)
- Development Project Consulting (Location Analysis and Proposal)
- Numerical Modeling Technique



Post Environmental Impact Assessment of Jungang Line Dodam ~ Yeongcheon Double Track Train (Andong ~ Yeongcheon)

Project Cost : US\$ 1,680 mil

Length : L=71.300km

Investigate the environmental impact by each field to prevent adverse impact possibly caused by construction of the railway

Natural ecology environment, atmospheric environment, water environment, Land environment, etc.

Design of installation plan on Environmental mitigation facilities

Noise barrier, sand sedimentation pond, non-point pollutant mitigation facilities, etc.



Strategic Environmental Impact & Strategic Environmental Impact Assessment of Saemangeum Ecological Environment Site Development Project

Project Cost : US\$ 70 mil

Area : 810,000 m²

Conduct Environmental Impact Assessment for ESSD (Environmentally Sound and Sustainable Development)

Evaluation and Analysis on Environmental Impact

Establishment of Sustainable Conservation Plan



Environment Impact Assessment of Construction Project of The Second Circulation Highway of The Metropolitan Area of The Metropolitan Area (Paju to Yangju-Pocheon)

Project Cost : US\$ 1.3 bil

Length : L=24.80km, B=23.4m

Bridge : L=4.84km

Tunnel : L=8.13km

Environmental Impact Assessment

Establishment of the mitigation Plan for Environmental Impact on the basis of ecological features

RENEWABLE ENERGY



Renewable Energy refers to the energy which is re-generated when converting the existing fossil fuel or renewable energy such as sun light, water, subterranean heat, precipitation and organism. Also, it is eco-friendly energy that contributes to the reduction of greenhouse gas. We ensure the professionalism with feasibility study at the stage of planning, EPC(Engineering Procurement Construction).

SCOPE OF WORKS

- Master Plan & Strategy Development
- Pre-Feasibility & Feasibility Study
- Bidding Document Preparation
- Contract Management & Administration
- Project Management Consultancy
- EPC (Engineering Procurement Construction)
- Commissioning & Start Up
- Technical Assistance
- Environmental & Social Impact Assessment



Construction of Solar Power Generation Plant

Project Cost : US\$ 0.54 mil
 Roof-top Photovoltaics
 Electricity Generation
 Power generation capacity : 372.36kW
 Fixed type



Construction of Solar Power Generation Plant

Project Cost : US\$ 0.3 mil
 Roof-top Photovoltaics
 Electricity producing
 Power generation capacity : 286.72kW
 Fixed type



Feasibility Study for Wind Farm Project in Kazakhstan

Project Cost : US\$ 0.2 mil
 Review of CDM project related to greenhouse gas emission rights (ACM0002 methodology applied)
 ※ ACM0002 : Consolidated baseline methodology for grid - connected electricity generation from renewable sources



Installation of Heating & Cooling System Using The Ground Water

Project Cost : US\$ 0.1 mil
 Air-conditioning and Heating to gardening facilities
 The temperature difference energy of the ground water supplied to the heating and cooling system by heat pump.



Installation of Waste Heat Recovery Boiler of ESCO Business

Project Cost : US\$ 0.4 mil
 Recovering the waste heat of the exhaust gas from the melting furnace.
 The recovered waste heat produces steam by waste heat boiler(1.3ton/hr).



URBAN PLANNING & DEVELOPMENT & LANDSCAPE



The Department of Urban Planning & Development is leading the urban planning and design to meet from short to long term goals for land development and improve the quality of lifestyle. We are providing efficient consulting services to support the well-balanced development between urban and rural areas to enhance human welfare upon the environmental sustainability. The Department of Landscape Architecture provides an optimized spatial structure and strategies to develop innovative tourist facilities, leisure and theme parks and other amenity facilities to be harmonized with surrounding environment.

SCOPE OF WORKS

- Feasibility Study
- Basic and Detailed Design
- Urban Management Planning
- Metropolitan Urban Planning
- District Unit Planning
- Residential Development
- Industrial Park Development
- Free Economic Zone Development
- Theme Park • Leisure and Resort
- Urban and Natural Park
- Tourism Site Development



Detailed Engineering Design for Free Economic Zone of Incheon Cheongna District

Project Cost : US\$ 6,597 mil
 District Unit Planning Area : 17,886,000m²



Detailed Engineering Design for Nest Housing Development of Hanam Misa District

Project Cost : US\$ 228 mil
 District Unit Planning Area : 5,462,689m²



Detailed Engineering Design for Residential Land Development of Kimpo Masong District

Project Cost : US\$ 57 mil
 District Unit Planning Area : 989,738m²



Development and Detailed Planning for Residential Land Development of Asan Tangeong District

Project Cost : US\$ 3,238 mil
 District Unit Planning Area : 17,642,918m²



Detailed Engineering Design for Residential Land Development of Hanam Poongsan District

Project Cost : US\$ 37 mil
 District Unit Planning Area : 992,000m²



Detailed Engineering Design for Residential Land Development of Namyangju Byeollae District

Project Cost : US\$ 646 mil
 District Unit Planning Area : 5,600,000m²



Detailed Engineering Design for Innovation City of Jincheon-Eumseong Chungbuk

Project Cost : US\$ 430 mil
District Unit Planning Area : 6,911,953m²



Detailed Engineering Design for Infrastructure-Section 5,7 of Incheon Songdo

Project Cost : US\$ 1,731 mil
District Unit Planning Area : 6,453,000m²



Investigation and Design for Residential Land Development of Hwaseong Dongtan 2 District

Project Cost : US\$ 697 mil
District Unit Planning Area : 24,014,896m²



Detailed Engineering Design for Residential Land Development of Seongnam Pangyo District

Project Cost : US\$ 700 mil
District Unit Planning Area : 9,315,000m²



Detailed Engineering Design for Development Planning and Zoning of Siheung-Gunja District

Project Cost : US\$ 220 mil
District Unit Planning Area : 4,906,190m²



Preliminary & Detailed Engineering Design for Site Development Project Stage 2 of Korea International Exhibition Center

Project Cost : US\$ 2,382 mil
District Unit Planning Area : 743,589m²



Detailed Engineering Design for Nest Housing Development of Siheung Eungye District

Project Cost : US\$ 110 mil
District Unit Planning Area : 2,030,881m²



Detailed Engineering Design for Construction of Busan Ecodelta-City Landscape 1st Area

Project Cost : US\$ 0.6 mil
District Unit Planning, Area : 547,224m²



Detailed Engineering Design for Development Planning of Myeongji Urban Open Space System Busan-Jinhae Free Economic Zone

Project Cost : US\$ 1.2 mil
District Unit Planning, Area : 4,476,271m²



Master Plan for Construction of Wangsong Lake Park

Project Cost : US\$ 0.6 mil
District Unit Planning, Area : 975,766m²



Detailed Engineering Design for Development Planning of Dongtan Waterfront

Project Cost : US\$1.1 mil
District Unit Planning, Extension : 3.87km



Detailed Engineering Design for Construction of 2012 Yeosu International Exhibition Site

Project Cost : US\$ 0.8 mil
District Unit Planning, Area : 1,745,539m²



Detailed Engineering Design for Development Planning of Godeok New International Town Development, Phase 1

Project Cost : US\$ 0.9 mil
District Unit Planning, Area : 4,746,594m²



Master Plan for Development Planning of Hwaseong City Coastal Tourist Site

Project Cost : US\$ 0.8 mil
District Unit Planning, Area : 2,347,844m²

CONSTRUCTION MANAGEMENT & SUPERVISION



Construction Management is professional consultancy service which requires specialized project management of planning, design and construction from the beginning to the end to make sure project are being implemented in compliance with Client's needs. The Department of Construction Management & Supervision shares the history of SOOSUNG since its inception of business. As the role of engineer, we prioritize our aim to prevent faulty construction and improve the quality of all infrastructures and facilities which we are engaged. We have been recording in the realm of Construction Management with approximately 300 professional engineers exerting ceaseless endeavor to implement and reach perfection in Quality Assurance and Process & Safety Management.

SCOPE OF WORKS

- Reviewing Design & Construction Drawings
- Monitoring & Supervising Works
- Inspecting Construction Equipment
- Checking "as built" Drawing
- Developing Quality Assurance System
- Project Management



Construction Supervision for Aphae ~ Amtae National Highway Construction Project(Lot No.2)

Project Cost : US\$ 316 mil
 Total Length : 3,640m
 Suspension Bridge : 1EA / L=1,750m
 MSS : 180m
 ILM : 1,710m



1 Construction Supervision for Gunjang Grand Bridge Construction Project

Project Cost : US\$ 238 mil
 Total Length : L= 3,185m
 Nielsenarch : L= 160m, B= 33.8m

2 Construction Supervision for Whayang-Juckum Road Construction Project(Lot No.3)

Project Cost : US\$ 147 mil
 Cable-stayed Bridge/PSC Box Girder : L= 990m, B= 12.5m
 PSC Box Girder : L= 640m, B=12.5m
 NATM Tunnel : L= 364m, B= 12.0m

3 Construction Supervision for Incheon Airport Terminal 2 Front Area Construction Project

Project Cost : US\$ 159 mil
 Integrated construction management service for road, bridge, pipe utility and guide path bridge at Terminal 2 Front Area
 Ascon Pavement : L= 6.3km, B= 7.5~24.5m
 PSC Slab/Steel Box : L= 1.2km, B= 8~38m
 Precom Girder Bridge : L= 108m, B= 61m for [Class F aircraft]
 Precom Girder Bridge : L= 320m, B= 11m for [Aircraft Support Facility]

4 Construction Supervision for Expansion of Cheonho Street(Gwangnanu) Construction Project

Project Cost : US\$ 110 mil
 Underground Road Type : Corrugated Steel Arch / L=260m, B=48.7m

5 Construction Supervision for Maldo - Myeongdo - Bangchukdo Foot Bridge

Project Cost : US\$ 27 mil
 Steel Cable Arch Bridge : L= 308m
 Steel Cable-stayed Bridge : L= 410m
 Pre-cast Deck Bridge : L= 477m
 Footbridge with Suspension : L= 83m

6 Construction Supervision for International Industrial Logistics City (Stage 1-2) Construction of General Industrial Complex

Project Cost : US\$ 1,302 mil
 Large-scale Blast : 8,635,000m³
 P.B.D Method : 30,141,121m
 D.C.M Method : 76,354m
 Soft Ground Treatment : 2,055,300m²

7 Construction Supervision for Construction of Yeondo Bridge in Geogeu Island (Phase II)

Project Cost : US\$ 273 mil
 Length : L=2,028m
 Span : L=480m
 Width : B=15.3m
 Height : 167.5m
 Girder Type : Double warren truss

8 Construction Supervision for Dongdeup-Hanlim Expansion Expressway

Project Cost : US\$ 225 mil
 Total Length : L=12.03km
 PCT Girder Bridge : 2EA / L=360m

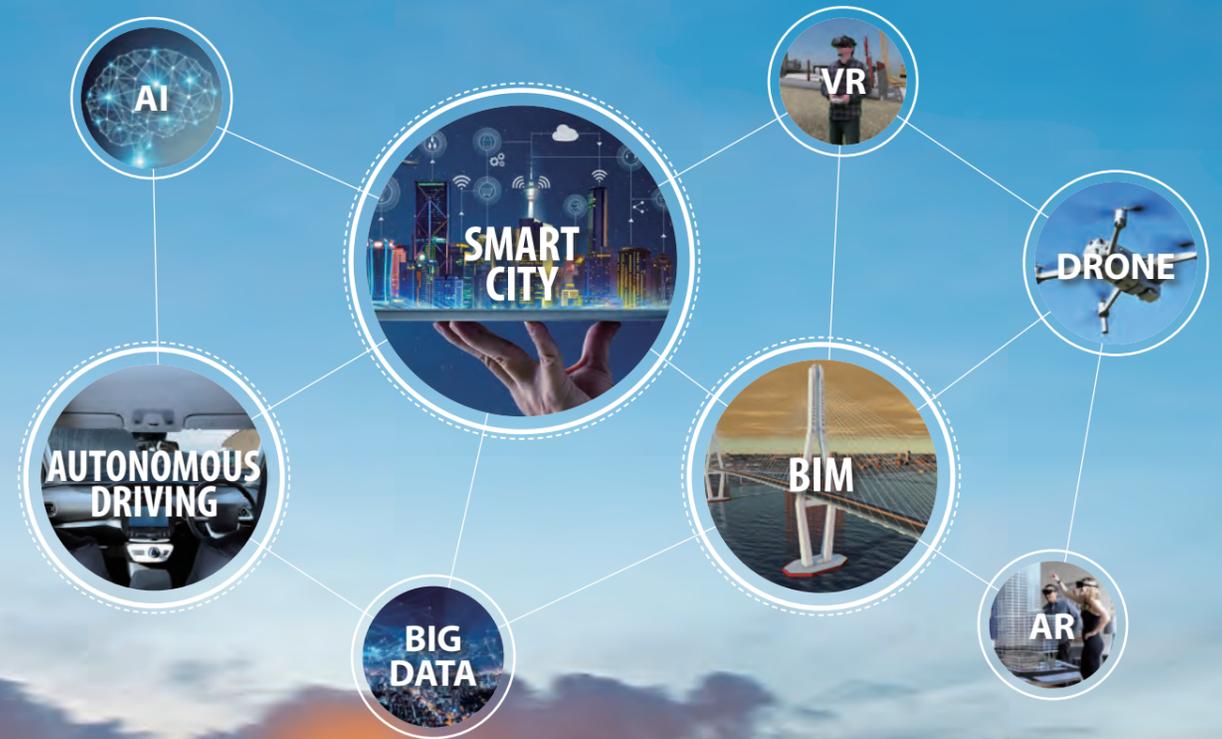


4TH INDUSTRIAL REVOLUTION

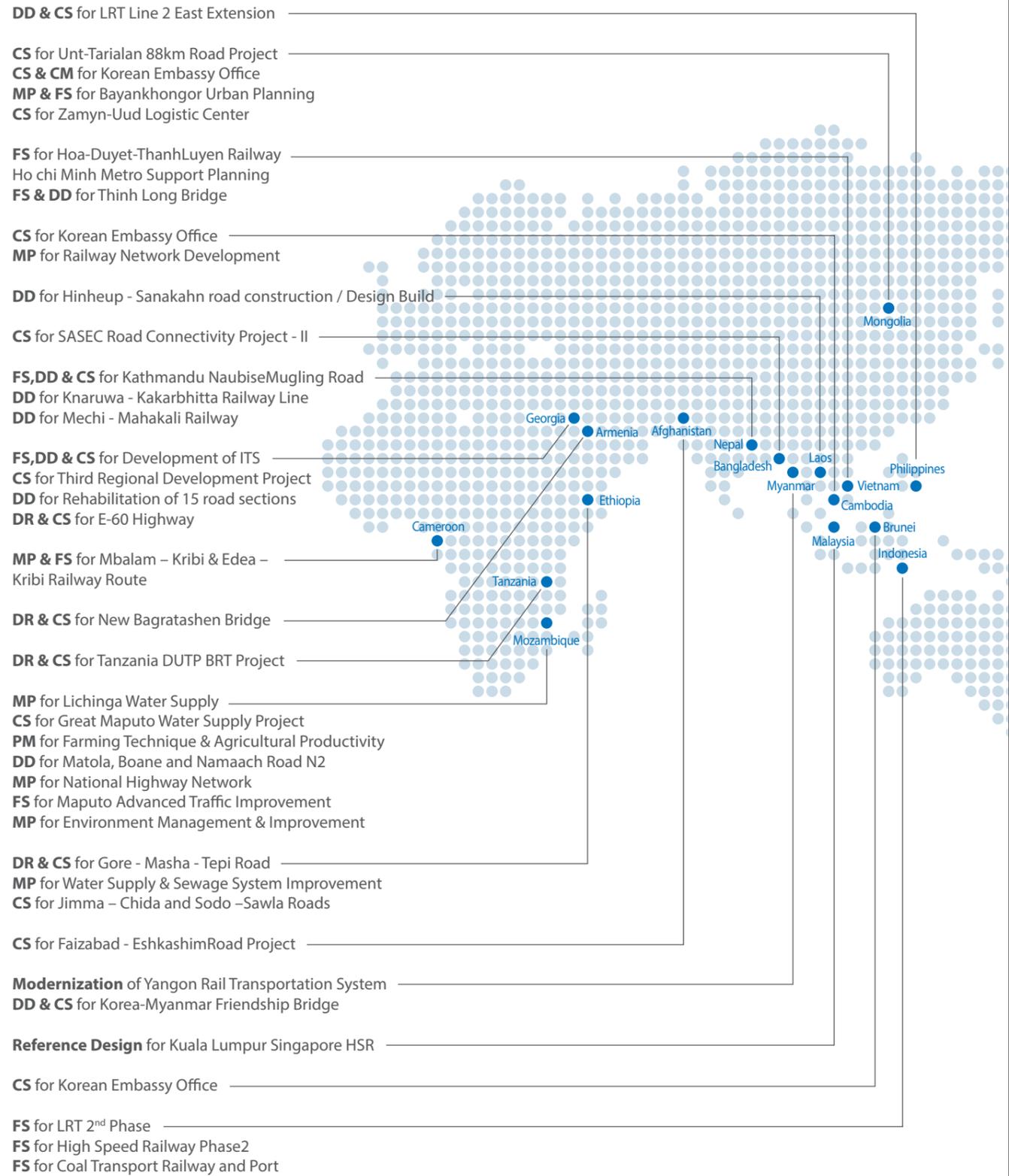


4IR Team is a group of professional engineers utilizing Drone & BIM technologies in various sectors such as roads, railways, structures, ground and water and sewerage corresponding to rapidly changing technical environment faced with 4th Industrial Revolution.

Our exertion has facilitated great improvements in quality of designs, and also committed to develop technological platform for "Connected BIM" which blends BIM with new key technologies of 4th Industrial Revolution such as Drone, VR, AR, Big data and 3D Printing.



OVERSEAS BUSINESS



LEGEND

- FS** Feasibility Study
- PD** Preliminary Engineering Design
- DD** Detailed Engineering Design
- DR** Design Review
- CS** Construction Supervision
- CM** Construction Management
- PM** Project Management

OVERSEAS OFFICES

NO.	COUNTRY	TITLE	ADDRESS
1	Myanmar	Subsidiary	No.35, River Front Villa, 9 Ward, Tharketa Township, Yangon, Myanmar
2	Mongolia	Subsidiary Branch Office	13-6, Youth Avenue. 8thKhorooSukhbaatarDistrict, Ulaanbaatar, Mongolia
3	Philippines	Branch Office	280 Tomas Morato Avenue Brgy. Sacred Heart, Quezon City, the Philippines
4	Georgia	Branch Office	Vazha-Pshavela Ave. #12, Apt. 26. Tbilisi, Georgia, 0160
5	Armenia	Branch Office	#30, Building No.10, Frik Street, Yerevan, Armenia
6	Mozambique	Subsidiary Branch Office	40, Andar, porta, No.15, Bairro Central, Av, 25 de Setembro No.1509, Maputo Cidade Distrito Urbano1, Mozambique
7	Ethiopia	Branch Office	Awehakim Building Gergi Road, Wereda 14, Kebele 25, 2nd Floor, Room # 165-A, Addis Ababa, Ethiopia
8	Tanzania	Branch Office	55Migombani StreetRegent estateDar es Salaam