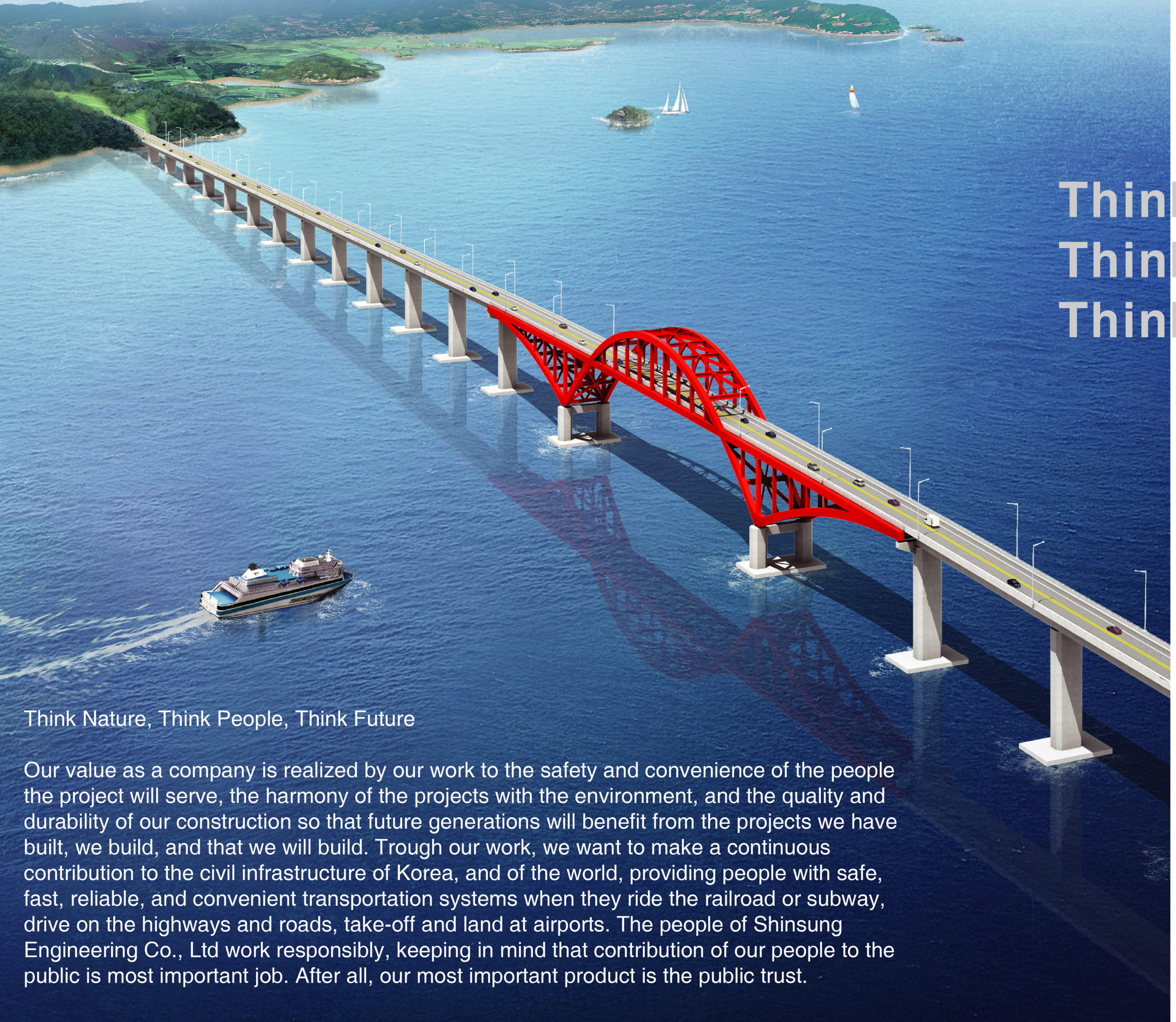
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Think Nature, Think Human, Think Future

# SHINSUNG



Think Nature
Think Human
Think Future

Think Nature, Think People, Think Future

Our value as a company is realized by our work to the safety and convenience of the people the project will serve, the harmony of the projects with the environment, and the quality and durability of our construction so that future generations will benefit from the projects we have built, we build, and that we will build. Trough our work, we want to make a continuous contribution to the civil infrastructure of Korea, and of the world, providing people with safe, fast, reliable, and convenient transportation systems when they ride the railroad or subway, drive on the highways and roads, take-off and land at airports. The people of Shinsung Engineering Co., Ltd work responsibly, keeping in mind that contribution of our people to the public is most important job. After all, our most important product is the public trust.




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# CEO's Message



"We have built, we build, and we will build
for People, Nature, Future

Shinsung Engineering was founded in 1991 with the conviction of pioneering a new future in civil engineering fields. In those years, we have made our every effort in satisfying our clients with three principles: servicing for people, harmony with nature, and investment for the better future.

As a result, we have earned a reputation for quality engineering service that has been the foundation for long-standing relationships with our clients. We have gained a lot of experience and accumulated many achievements in feasibility studies, preliminary and detailed designs, construction, and supervision of projects such as civil facilities, transportation, waterworks and sewage, urban planning, environmental projects.

Shinsung Engineering will not rest on our accomplishment so far but will go forward along with our clients with an objective to create better future throughout the world.

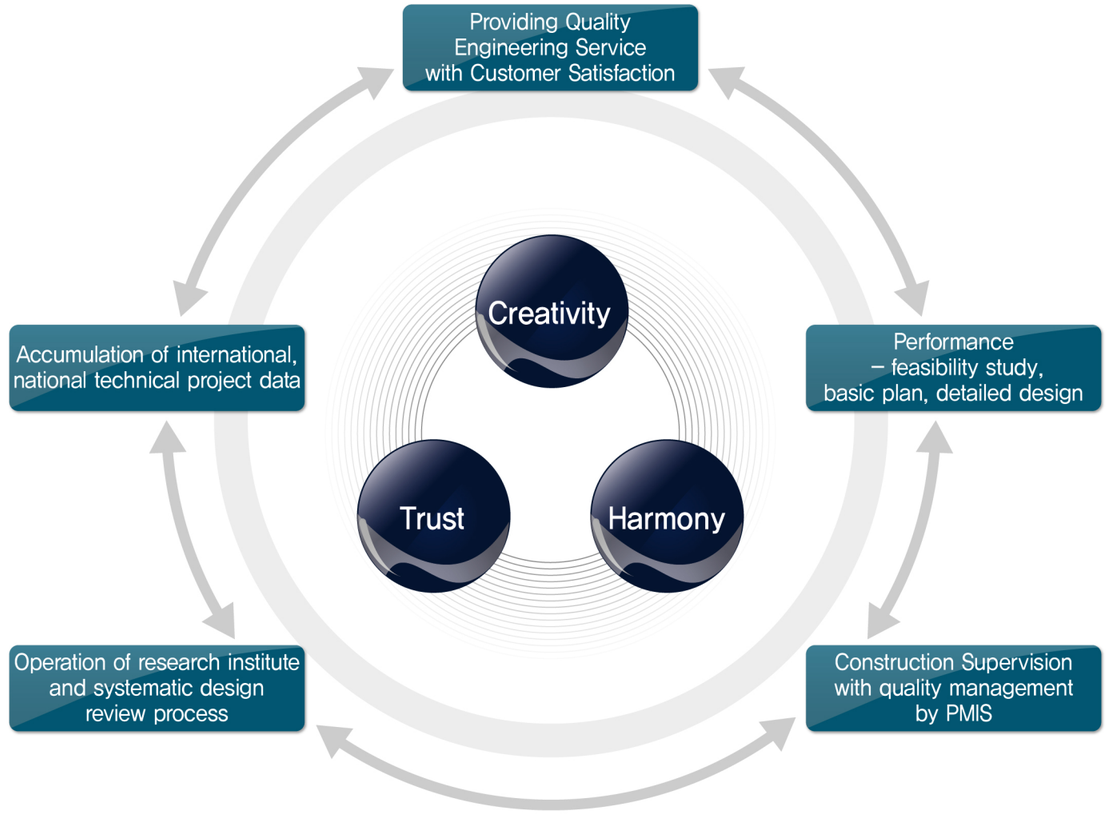
Our future is serving the world through valuable engineering services. We will constantly prepare ourselves to meet the global standards with advanced technology in harmony with nature.

Thank you."

Chairman Tae Sub Chung

# Vision Management Philosophy (Creativity, Trust, Harmony)

▶ A leading engineering company, growing with clients by trust and quality assurance



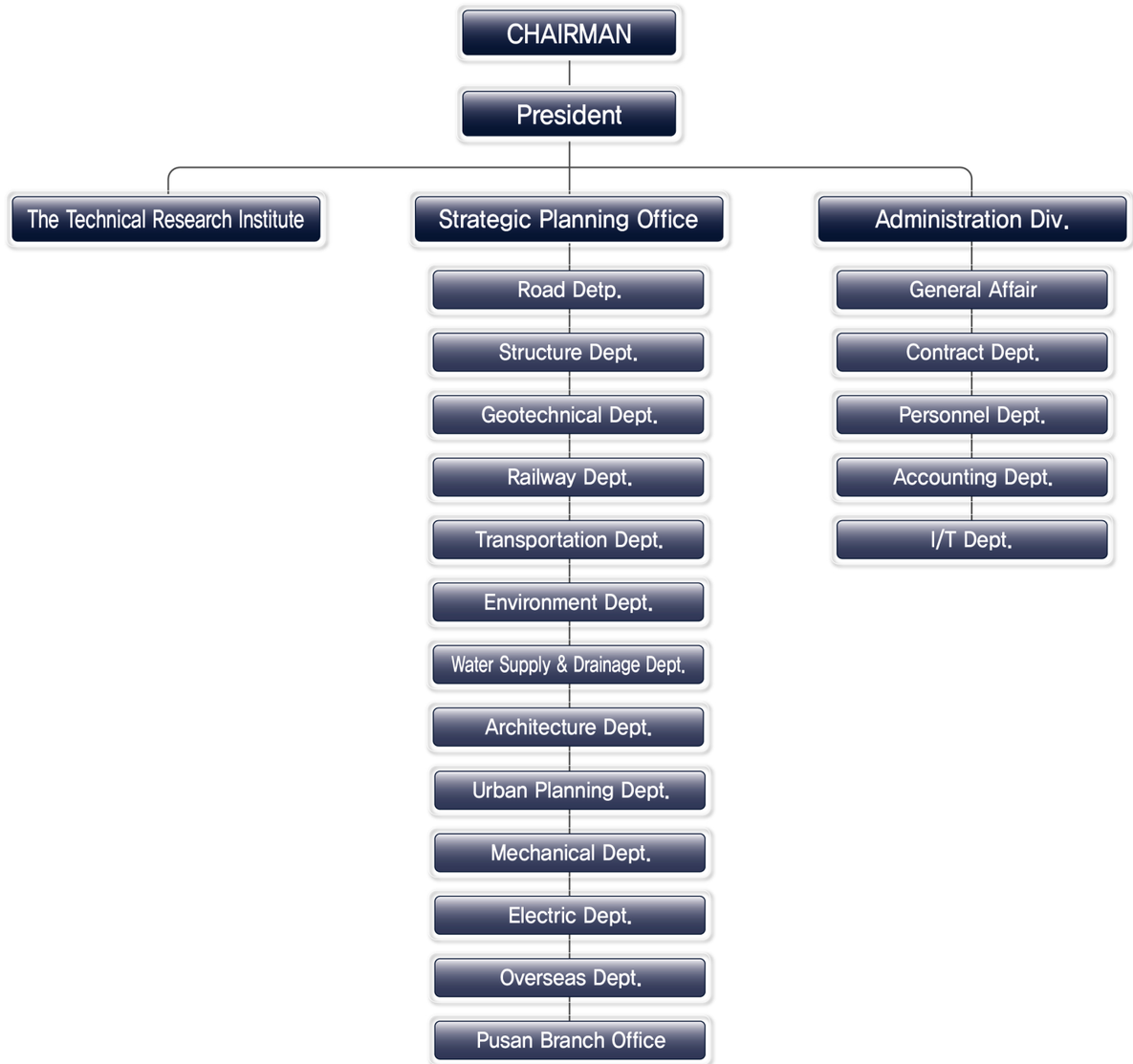


# History & Award

| | |
|---|---|
| **1991** | Shinsung Co., Inc. was founded (No. 138-81-00094)<br>Registered for general land survey agency, National Geographic Information Institute (No. 02 – 1072) |
| **1993** | Reported as an engineering activity entity, Ministry of Science and Technology (No. 10-061)<br>Institute of Engineering Technology was founded (No. 931293) |
| **1994** | Registered as a construction supervision agency, Ministry of Construction and Transportation<br>Registered as an environmental impact assessment agency, Ministry of Environment (No. seo-002)<br>Registered as a traffic influence assessment agency Ministry of Construction and Transportation (No. 46) |
| **1996** | General construction license, Ministry of Construction and Transportation (No. 96-1660) |
| **1999** | Construction supervision license of electric power facility, Kyeonggi-Do Commendation Award, Major of Incheon |
| **2000** | The quality assurance system of the company was certified to conform to ISO 9001 |
| **2002** | Overseas construction business license, Ministry of Construction and Transportation<br>Outstanding Engineering Service Award, Major of Seoul<br>Commendation Award, President of Korea Expressway Corporation<br>Commendation Award, Ministry of Construction and Transportation |
| **2004** | The environment management system of the company was certified to conform to ISO 14001<br>Engineering license of electric power facility (Class 1), Kyeonggi-Do |
| **2007** | Registered as a disaster impact assessment agency, Ministry of Government Administration and Home Affairs |
| **2008** | Registered as a disaster prevention planning agency, National Emergency Management Agency (NEMA) |
| **2009** | Designated as an Excellent Engineering Service Company, Gyeonggi-Do and Busan Regional Construction Management Administration |
| **2010** | Registered as a feasibility study agency for the public transportation facility development, Transportation Investment Evaluation Association |
| **2013** | Registered as an environmental impact assessment agency (Class 2), Ministry of Environment |
| **2014** | Registered as a construction engineering service agency (Construction Technology Promotion Act), Ministry of Land, Infrastructure and Transport |



# Organization



# Business Service

## Road & Structure

Design for Highway, National Road
- Local Road Implementation Design
- Design Supervision
- Turnkey and Alternative Design
- Bridge Design
- Underground Structure

## Transportation Planning

- Feasibility Study & Demand Forecasting of Traffic Equipment
- Traffic Impact Assessment
- Development of Traffic System Management (TSM)
- Intelligent Traffic Systems (ITS)
- Bus Rapid Transit (BRT) Systems

## CM & Supervision

- Professional CM
  - Feasibility Study
  - Life Cycle Cost analysis
  - Value Engineering & Design Review
  - Procurement Management
  - Schedule Management
  - Risk Management
  - Disputes and Claims Management
  - Operation Management
- Supervision for Engineering Works with Total Responsibility
- Safety Check and Diagnosis of Road Facilities

## Railroad & Subway

- Design for Railway & Subway
- Design for High-speed Railroad
  - Feasibility Study
  - Basic, Detailed plan & Design
  - Design for Construction
  - Supervision for Railway Construction

## Environment

- Prior Environment Review
- Assessment of Environmental Impact
- Design and Supervision of Sewage and Waste Water Treatment Facility

## Urban Planning, Landscape, Housing, Water Resources

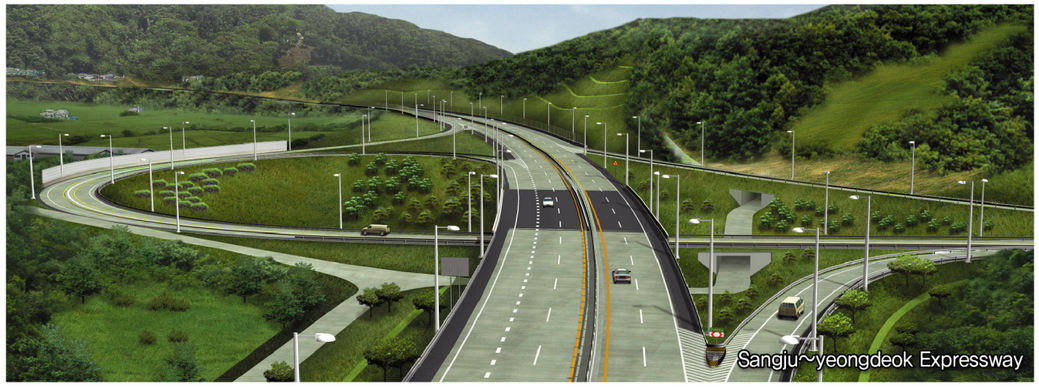
- Urban Planning and Regional Planning/Design
- Landscape Planning and Design
- Construction/Renovation of Residential Housing and Commercial Building
- Comprehensive Watershed Water Control Plan
- Basic Plans for River Arrangement
- Management Plans of River Environment
- Basic and Implementation Design for the Waterworks

# Staffs

| Specialty | Qualifications | | | | Total Numbers |
|---|---|---|---|---|---|
| | Professional Engineer | Engineer | Ph. D | M. Sc. | |
| Road & Airports | 8 | 22 | 1 | 3 | 34 |
| Civil Engineering Structures | 10 | 39 | 1 | 13 | 63 |
| Railway | 4 | 15 | - | 4 | 23 |
| Geology and Geo-techniques | - | 17 | 3 | 9 | 33 |
| Water Supply & Sewage | - | 2 | - | - | 2 |
| Water Resources | 1 | 1 | 1 | - | 3 |
| Mechanics & Electricity | 1 | 3 | - | - | 4 |
| Urban Planning | 1 | 1 | - | 1 | 3 |
| Landscape Architecture | 1 | 2 | - | - | 3 |
| Environmental Management | 2 | 34 | 1 | 13 | 50 |
| Transportation | 2 | 7 | - | 2 | 11 |
| Construction Management & Supervision | 36 | 119 | 2 | 11 | 168 |
| Information Technology | - | 1 | - | - | 1 |
| Surveying Geo-Spatial Information | 1 | 1 | - | - | 2 |
| Architectural Structures | - | - | - | - | 5 |
| Administrators / Supporting Staffs | - | - | - | 1 | 30 |
| **Total** | **72** | **268** | **9** | **57** | **435** |

# Road & Structure

▶ Expressway/Highway/Road/Special Structure/Bridge


Sangju~yeongdeok Expressway


Anyang~sungnam Expressway


Dongmak Bridge


Seonyudo Pedestrian Walkway Bridge

## Major Road & Structure Projects

### 1991 ~ 2010

- Preliminary and Detailed Design, Seonyudo Pedestrian Walkway Bridge (T/K)
- Detailed Design, Gochang~Damyang Expressway Section 2 (Gochang~Jangsung)
- Detailed Design, Jeonju Gwangyang (Sooncheon) Highway Section 8
- Preliminary Design, Boryeong~Taean Highway
- Feasibility Study and Preliminary Design, Chungju~Jecheon Expressway
- Detailed Design, Shinbundang Line (Subway)
- Feasibility Study and Preliminary Design, Sanggu Hyohyeon Highway
- Feasibility Study, Busan Circulation Expressway Section 2
- Detailed Design, Nambukhang Grand Bridge~Yongdo Connection Road
- Basic Plan, Aophae-Whawon Expressway
- Alternative design, Special Structures in Incheon Chungna District Section 2
- Detailed Design, Youngjung-Joongsan Power Supply Tunnel (Incheon Youngjung District)
- Preliminary and Detailed Design, Geoje~Masan 2 Highway
- Preliminary and Detailed Design, Saryang-sangha-do Connection Bridge (T/K)
- Preliminary and Detailed Design, Gaumoon-dongseo-do Connection Bridge (T/K)

### 2011 ~ Present

- Detailed Design, Backbong-ryung~Dalbang-dam Highway
- Feasibility Study, Gore-Tepi Connection Road Improvement in Ethiopia
- Detailed Design, Metropolitan Shinbupyong~Youngseo Power Supply Tunnel
- Preliminary and Detailed Design, Gigae-Andong 4 Highway
- Detailed Design, Daegu Circulation Expressway Section 3
- Preliminary Design, Yangpyong~Icheon Highway Section 1
- Detailed Design, Daka BRT Line 3 in Bangladesh
- Detailed Design, Dangin~Pyongtak Power Supply Tunnel
- Preliminary and Detailed Design, Chungyang-Shinyang IC Highway
- Preliminary and Detailed Design, Iksan national food cluster Access Road
- Detailed Design, Chungchung Inland Expressway Section 1~2
- Preliminary and Detailed Design, Chungdo Milyang 2 Highway
- Preliminary and Detailed Design, Danyang-Youngwol Highway
- Preliminary and Detailed Design, Chungson-Nammyun Highway
- Preliminary and Detailed Design, Pochun (Yongjong-Bungi) Power Supply Tunnel
- Preliminary and Detailed Design, Gunpo (Seoseoul-Sanbon) Power Supply Tunnel


Dong-Gang Bridge


Pungdeokcheon~Suseo Bundang Connection Road

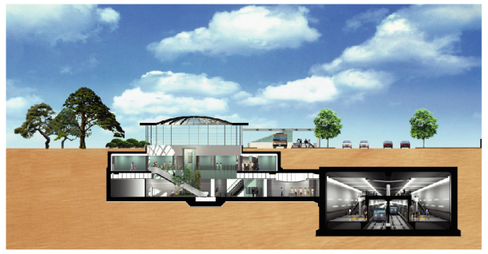


# Railroad & Subway

▶ High-speed Railroad/Urban Railway/Great Train Express/Subway/Light Rail Transit



Busan Subway Line 3 Station





Suwon~Cheonan Double Track Electric Railway



Seoul Subway Line 7

## Major Railway Projects

### 1991 ~ 2010

- Preliminary and Detailed Design, Transfer Station (Joongang Line and Subway line 7) Railway Bed
- Preliminary and Detailed, Jinju~Gwangyang Double-track Electric Railway Bed Section 7
- Preliminary and Detailed Design, Seongnam~Yeoju Double-track Electric Railway Section 8 (T/K)
- Feasibility Study and Preliminary Design, Gunjang Industrial Complex Access Railway
- Preliminary Design, Honam High-speed Railway Section 5
- Detailed Design, Honam High-speed Railway Bed Section 8
- Detailed Design, Goonjang Industrial Complex Access Railway Bed Section 1,Section 2
- Detailed Design, Wonju~Gangneung Line Railway Bed Section 2

### 2011 ~ Present

- Preliminary and Detailed Design, Pohang-Youngilman New Port Access Railway
- Preliminary and Detailed Design, Dongdocheon-Yoncheon Double-track Electric Railway
- Preliminary and Detailed Design, Dodam-Youngcheon Double-track Electric Railway Bed Section 3
- Detailed Design, Donghae Line (Pohang-Samchuk) Railway Bed
- Detailed Design, Donghae Line (Younghae-Whopo) Railway Bed
- Feasibility Study and Basic Plan, Metropolitan GTX

## Major Subway Projects

### 1991 ~ 2010

- Preliminary and Detailed Design, Daejeon Urban Railway Line1, Section T-2 (T/K)
- Detailed Design, Busan Subway Line 2 (Yangsan Line) Section 3 (T/K)
- Preliminary and Detailed Design, Seoul Subway Line 7, Section 704 (T/K)
- Detailed Design, Daegu Urban Railway Line 3, Section 3-3
- Preliminary and Detailed Design, Seoul Subway Line 9, Section 916 (T/K)
- Preliminary and Detailed Design, Busan Subway Line 1 (Dadae Line), Section 1 (T/K)
- Alternative Design, Busan Subway Line 1 (Dadae Line), Section 6

### 2011 ~ Present

- Preliminary and Detailed Design, Seoul Subway Line 1, Elevator Facility
- Feasibility Study and Basic Plan, Hanam (Sangil~Gumdansan) Double-track Electric Railway
- Detailed Design, Seoul Subway Line 7 (Suknam Extension Line), Section 2
- Preliminary and Detailed Design, Busan Subway (Sasang~Hadan), Section 2
- Preliminary and Detailed Design, Hanam Line (Seoul Subway Line 5)
- Preliminary and Detailed Design, Byeollae Line (Seoul Subway Line 8)



Kyoungbu High-speed Railway



Yulchon Bridge



Bubal Bridge

# CM & Supervision

▶ VE/Progress & Cost Management/Claim/Risk Management


Tunnel(NATM Method)


Box Tunnel


Bridge (FCM Method)


Expressway IC




Soil Sampling

## Major CM & Supervision Projects

### “1991 ~ 2010

- ▶ Construction Supervision, Seoul Subway Line 7(Chungdam~Onsu), Section 7-8
- ▶ Construction Supervision, Busan Subway Line 3 (Daejeo~Sooyoung), Section 3
- ▶ Construction Management (CM), Daeui~Uiryeong Highway Widening
- ▶ Construction Supervision, Iyang~Neungju Highway Widening
- ▶ Construction Supervision, Kyeong-Jun Line (Masan~Haman) Railway, Section 5
- ▶ Construction Supervision, Busan New Harbor Connected Railway, Section 2-1, 2-2
- ▶ Construction Supervision, Pyeongchang~Jeongseon 2 Highway
- ▶ Construction Supervision, Jeonju~Gwangyang Expressway, Section 8
- ▶ Construction Supervision, Seochang~Nampyeong Expressway
- ▶ Construction Supervision, Bundang~Negok Highway, Section 1, 2
- ▶ Construction Supervision, Chungyang~Hongsung Highway, Section 2
- ▶ Construction Supervision, Local 357 Road (2nd.Jayuro & connecting road), Section 3-2
- ▶ Construction Supervision, Geoje (Ilwoon-Aju), Bypass Road
- ▶ Construction Supervision, Shinrim~Bongcheon Tunnel, Section 2
- ▶ Construction Supervision, Gangnam (Nonhill~Nonhyun~Yoksam~Dachi) Power Supply Tunnel
- ▶ Construction Management (CM), Donghae~Oakgae Highway
- ▶ Construction Supervision, Sangju~Andong Highway, Section 1-3

### 2011 ~ Present”

- ▶ Construction Supervision, Busan Cheon-masan Tunnel
- ▶ Construction Supervision, Han-River Bridge Repair and Maintenance
- ▶ Construction Supervision, Shinbundang Line Extension (Jungja~Gangyo) Railway Bed
- ▶ Construction Supervision, Duckrae~Yongang Highway
- ▶ Construction Supervision, Geojae~Masan2 Highway
- ▶ Construction Supervision, Pyoungchang~Jangpyoung~Ganpyoung2, Highway
- ▶ Construction Supervision, Gunjang Industrial Complex Access Railway, Section 1
- ▶ Construction Supervision, Kyungui Line (Seoul~Shinchon) Ahyun Tunnel Improvement
- ▶ Construction Supervision, Dongbuk~Younghwa Power Supply Tunnel
- ▶ Construction Supervision, Iksan~Daeya Railway, Section2
- ▶ Construction Supervision, Busan~Woolsan Railway, Section 8
- ▶ Construction Supervision, Ilsan (Goyan-Bugi) Power Supply Tunnel
- ▶ Construction Supervision, Chogi Bridge~Incheon Highway
- ▶ Construction Supervision, Incheon Airport T1~T2 Connection Road
- ▶ Construction Supervision, Busan Chonmasan Unerpass Power Supply Tunnel
- ▶ Construction Supervision, Bujun~Masan Railway, Section 4,5


Busan Subway Line 3


Bundang~Negok Highway Tunnel


Bangok Bridge

# Transportation Planning

▶ Traffic Impact Assessment/Survey/Analysis/Demand Forecasting/System Management



Jukgeon Bus Transit Station

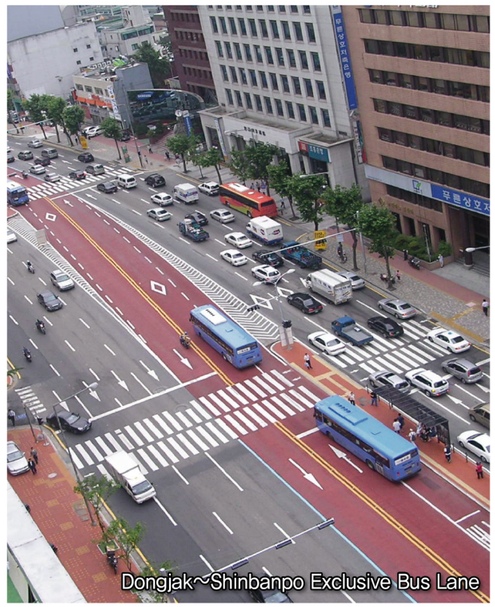
## Major Transportation Projects

### 1991 ~ 2010

- Preliminary and Detailed Design, Seoul 17~18 Axis Arterial Road Transportation System Improvement
- Traffic Impact Assessment, East Suncheon~Gwangyang Double-track Railway
- Traffic Impact Assessment, Goyang Bypass Road, Section 1
- Preliminary and Detailed Design, Seoul Metropolitan South Area Transportation System
- Preliminary and Detailed Design, Dongjak~Shinbanpo Bus Rapid Transit (BRT)
- Preliminary and Detailed Design, Seoul Station Area Transportation System Improvement
- Traffic Impact Assessment, Asan (Yomsung-Yondo) Bypass Road
- Feasibility Study and Basic Plan, Incheon Chungra~Seoul Whagok Bus Rapid Transit (BRT)
- Preliminary and Detailed Design, Seoul Kangnam Area Exclusive Bus Lane
- Feasibility Study and Basic Plan, Bundang~Nagok Bus Rapid Transit (BRT)
- Feasibility Study, Vietnam Ho Chi Minh City BRT System Development
- Feasibility Study and Basic Plan, Songnae North Square Transfer Station

### 2011 ~ Present

- Basic Plan, Preliminary and Detailed Design, Bucheon Bus Rapid Transit (BRT)
- Preliminary and Detailed Design, Daejeon~Ohsong Bus Rapid Transit (BRT)
- Preliminary and Detailed Design, Ohsan Transfer Station
- Preliminary and Detailed Design, Naesung~Olympic IC Bus Rapid Transit (BRT)
- Traffic Impact Assessment, Suwon Homaesil District Improvement


Dongjak~Shinbanpo Exclusive Bus Lane

# Environment

▶ Water Quality/Noise/Vibration/Air/Waste/Natural Environment Management


Jeju Musuchon

## Major Environment Projects

### 1991 ~ 2010

- Post Environmental Impact Assessment, Sungnam-Dochun Housing Site Development
- Post Environmental Impact Assessment, Sungnam~Janghowon Highway, Section 2
- Environment Impact Assessment, Jeju Hamdok~Dongbok Highway
- Environment Impact Assessment, Whasan~Chungyang Highway
- Post Environmental Impact Assessment, Jeju International Airport Extension
- Post Environmental Impact Assessment, Damyang~Sunsan Highway Extension
- Environment Impact Assessment, Yongsan~Gyori Highway

### 2011 ~ Present

- Environment Impact Assessment, Youngju Dam Submerged Area Railway Shifting
- Environment Impact Assessment, Chungchong Inland Highway, Section 3
- Environment Impact Assessment, Jangpyong~Ganpyong2 Highway
- Post Environment Impact Assessment, Geojae-Masan 2 Highway
- Post Environment Impact Assessment, Iksan~Daeya Railway
- Post Environment Impact Assessment, Chungok~Youngjoong Highway
- Environment Impact Assessment, Gamchun River Improvement Basic Plan
- Environment Impact Assessment, Hanam Line (Seoul Subway Line 5)
- Post Environment Impact Assessment, Gyugok~Hangam Highway
- Marine Environment Impact Assessment, Namhyang~Ginri Coast Improvement
- Post Environment Impact Assessment, Boryoung~Chungyang Highway
- Post Environment Impact Assessment, Pohang Blue Valley


Yangjaechon



# Water Resources & Water supply, Sewage



# Urban Planning & Landscape Architecture

## Water Resources



Andong Dam

### Major Projects

**1991 ~ 2010**

- Detailed Design, Nacdong River System Improvement
- Comprehensive Flood Control Plan, Banbyun~Andong Dam River System Improvement
- Comprehensive Flood Control Plan, Sangil~Sanchon River System Improvement
- Basic Plan, Hwanggu~jichon River system Improvement

**2011 ~ Present**

- Preliminary and Detailed Design, Dugolchon River System Improvement
- Detailed Design, Tanchon Natural River Restoration
- Emergency Action Plan, Gungchon Dam
- Assessment of Disaster Restoration Plan, Yonchon~Goon
- Emergency Action Plan, Bokdong Reservoir
- Detailed Design, Samhochon Natural River 2nd Restoration
- Basic Plan, North Korea Water Infrastructure Development
- Detailed Design, Kangjin~Goon Pasanjae Emergency Action Plan
- Basic Plan, Daedong Reservoir Emergency Action Plan

## Water supply & Sewage



### Major Projects

**1991 ~ 2010**

- Detailed Design, Osan~Dongtan Water Collection Conduit Installation
- Detailed Design, West Jeju Disposal Plant of Sewage Extension
- Detailed Design, Namyangju~Jingun Water Collection Conduit Installation
- Detailed Design, Yeosu Water Intake Station Conduit Shifting
- Preliminary and Detailed Design, Siheung Nongok~Yonseong Water Collection Conduit

**2011 ~ Present**

- Preliminary Design, Suwon 2nd Disposal Plant of Sewage Improvement
- Detailed Design, SK Hynix Rainfall Conduit
- Detailed Design, Echon Steam Conducit Shifting
- Detailed Design, Metropolitan Water Supply Conduit Installation
- Detailed Design, Ain Sefra Disposal Plant of Sewage, Algeria

## Urban Planning



Bucheon Urban Redevelopment

### Major Projects

**1991 ~ 2010**

- Basic Plan, Goyang~Poongdong Housing Site Development
- Basic Plan and Detailed Engineering, Sungnam Memorial Park
- Basic Plan, Bucheon Urban Redevelopment
- Detailed Design, Jeju Juvenile Camping Complex
- Basic Plan, Paldang Urban Planning Facility Redevelopment
- Feasibility Study, Ohsung 2nd Industrial Complex Development
- Feasibility Study and Basic Plan, Whangan Logistic Complex
- Basic Plan, Sihueng~Daeya Redevelopment

**2011 ~ Present**

- Basic Plan, Hyoyang Park, Urban Management Plan (Access Road, Parking Area)
- Basic Plan, Anyang Urban Management Plan (Greenbelt Zone)
- Basic Plan, Anyang District Units Development
- Basic Plan, Pocheon Art Valley Urban Management Plan
- Basic Plan, Chowol Public Library Urban Planning Facility

## Landscape Architecture



Jangdan Public Park

### Major Projects

**1991 ~ 2010**

- Detailed Design, Jungbu (Hanam~Hobup) Expressway Landscape
- Detailed Design, Pyongtac–Umsung Highway Landscape
- Detailed Design, Jungup Expressway Rest Area
- Detailed Design, Jangdang Neighborhood Park
- Detailed Design, Wellbeing Park
- Detailed Design, Junju~Imshil Highway Landscape
- Detailed Design, Somokwon Artificial Waterfall and Mountain Stream
- Detailed Design, Busan~Woolsan Expressway Landscape
- Feasibility Study and Basic Plan, Jungbu–Wonjum Theme Park

**2011 ~ Present**

- Detailed Design, Local Area Landscape Improvement
- Preliminary and Detailed Design, Yeonan Recreation Facility
- Preliminary and Detailed Design, Muan Tideland Landscape




**Shinsung Engineering Co., Ltd.**

**Headquarter**
Byeolyangsangga-Ro 7 (Byeolyng-Dong, 414),
Gwacheon, Gyeonggi-Do, Korea 13837

**Seoul Office**
Unam-Gil 5 (Yangjae-Dong, Shinsung Building),
Seocho-Gu, Seoul, Korea 06779

TEL +822-3497-6000

FAX +822-3497-6001/2

**Pusan Office**
Bomil-Ro 113 (Bomil-Dong, Dongsung Building),
Dong-Gu, Busan, Korea 48735

TEL +8251-635-9126

FAX +8251-635-9129

www.sseng.co.kr