



BCMP Co., Ltd.

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The **Best CM Partner** BCMP

CEO's Greetings



BCMP has provided excellent consulting services with our vision statement, **"We provide the BEST VALUES with our Project Management Professionals"** in the construction management business area, based on expertise in element technology and PMIS since its foundation in 2003. BCMP's main projects include major domestic construction projects such as "roads and railways in PPI" and "US FED Parcel-2A land development and utilities infrastructure" in Korean market and underground oil storage, port and jetty, railways and road infrastructure in Vietnam, Kuwait, Singapore and Brazil in overseas markets.

BCMP has provided our consulting services mainly to the contractors but we are also expanding the scope of our service and diversifying our clients, providing management services to the project owners and sponsors as well. For example, recent consulting projects of BCMP include projects with public enterprises as clients such as "Global Project Management procedure" of Korea Expressway Corporation, "New City Development Technical Knowledge Procedure" of Korea Land and Housing Corporation and "PMC Project in Dung Quat, Vietnam" with Korea National Oil Corporation.

For our best friends and our future clients,

BCMP will now move forward and respond to the future market with our priority goals.

First, we will improve our consulting services by integrating "construction management" and "resources-infrastructure management" for customers who are seeking for overseas resources development.

Second, we will create new consulting service area with core technology acquired by experiences in projects related to underground space such as underground oil storage, underground cold storage and underground water storage.

Third, we will develop our knowledge business with R&D projects, patent rights, and intellectual property acquired with our accumulated experience and expertise.

Despite the fast-changing, highly competitive external environment and increasing uncertainty, BCMP will grow into an outstanding leader of Korean CM consulting with increasing brand values and create added value as a professional consulting company based on core values and experienced knowledge.

Thank you.

2016. 08.
CEO SHIN, YONG HOON



Company Outline

VISION



Company Name

· BCMP Co., Ltd.

About

· Establishment Date : Feb 10, 2003
· CEO : SHIN, YONG HOON

Location

· #1902, Daeryung Techno Town 15th Bldg., 401 Simindaero, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea

License / Certification from Government

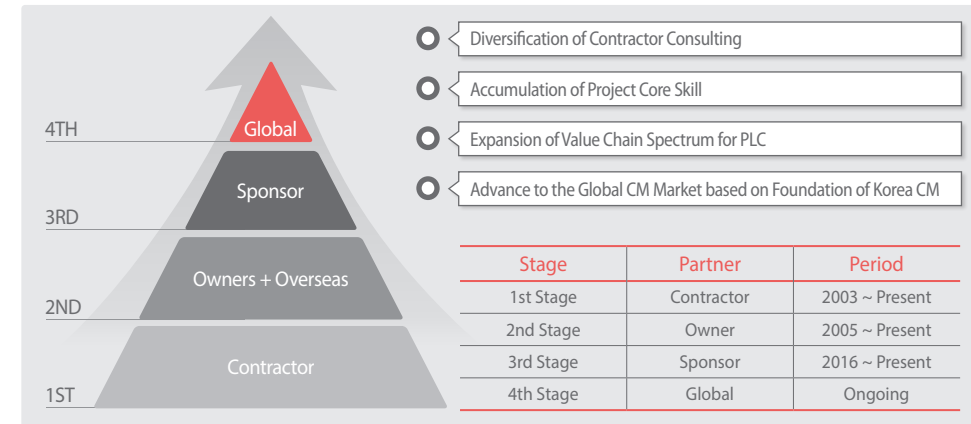
· R&D Center
· Engineering Business
· Innovative Business Company (INNO-BIZ)
· High Growth Company (Gazelle Type)
· Overseas Construction and Engineering
· Construction Engineering & Management Company



Main Consulting

· Construction Management Consulting (Proposal, Schedule Planning, Schedule Management, PMC)
· Resources Infrastructure Management Consulting (Proposal, FS, DESIGN, PMC)
· Project Management Informaiton System (R&D, Design, Construction)
· R&D (Patent, Intellectual Property Rights)

Transition of Consulting Clients



1ST STAGE : Consulting for Contractors

Construction Management	Construction Management Plan for Turn-key Project and PPI	
	(# of Project) ▷ Road/Bridge 17, Railway 10, Land Development 4, Harbor/Water Resource 3, Cable Tunnel 2, Others 5	
Schedule Management	Development Project Schedule Management Consulting	
	(# of Project) ▷ Road(BOT) 7 + General 2, Railway(BTL) 1 + General 2	
PMIS	R&D	EX4_R&D : R&D Management Information System_KIGAM
	Design	EX4_Design : Design Consortium Management Information System_SK E&C
	Construction	EX4_Construction : Incheon ~ Gimpo Expressway and 6 Counts

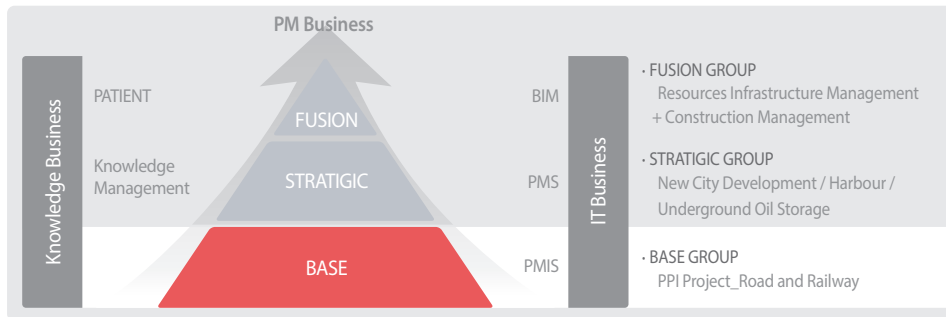
2ND STAGE : Consulting for Owners + Overseas Project

Schedule Management	Schedule Operation	FED Pacel 2A	Indonesia_Soekarno-Hata International Airport	
		Qatar_GSUP	Saudi Arabia_King Abdullah Sports City Project	
		Vietnam_NSRR_EPC	Kuwait_Al-Zour Refinery Project	
	Proposal	Brazil	Hongkong	India
		Laos	Malaysia	Singapore
		Turkey	Vietnam	Sri Lanka
Knowledge Management	KEC_Global PM procedure			
	LH_New City Development Technical Knowledge Procedure			
PMC	Vietnam_Dung Quat_Underground Oil Storage			

3RD STAGE : Consulting for Sponsors

PLC's Value Chain Optimization	National R&D Institute	KIGAM, IBS
	National Corporation	LH, KNOC, KORES, KOICA
	Local Government	Jeju-do, Gyeongsangnam-do, Gangwon-do, etc.
	Bankers	Korea Eximbank, KEB, KOTRA, Korea Reinsurance
Foundation Korean CM	CMAK, KICEM, etc.	

Domestic Experience



○ Road/Railway Project

About

- Public Private Investment Project
- Owner : KEC, Seoul Metropolitan Government
- Constructor : SK E&C, Hanwha E&C, etc.

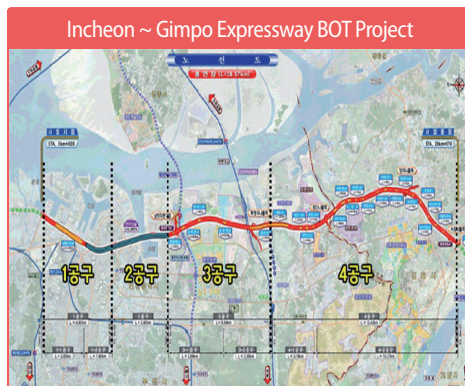
Main Service

- Schedule & Cost Planning, Value Engineering
- Schedule Operation, Feed-back of S&C
- Supply Customized PMIS

Experience

- | | |
|---|----------------------------|
| 1 West Suwon~Osan~Pyeongtaek Expressway | 5 Incheon~Gimpo Expressway |
| 2 3rd Gyungin Expressway | 6 Guri~Pocheon Expressway |
| 3 Pyeongtaek~Siheung Expressway | 7 Bujeon~Masan Railway |
| 4 Suwon~Gwangmyeong Expressway | 8 Seoul~Munsan Expressway |

◆ Incheon~Gimpo Expressway

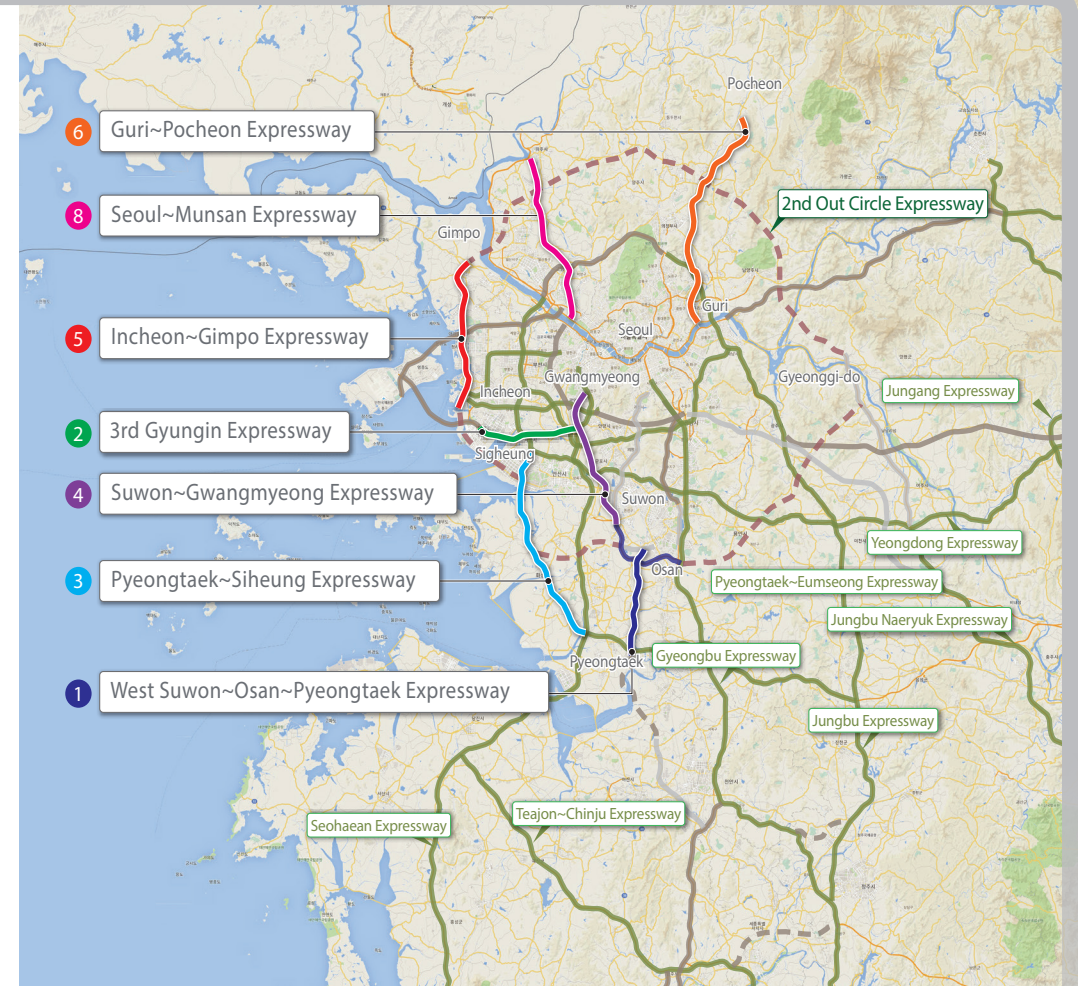


- Distance : 28.88km(B=23.4m ~ 30.6m, 4~6 Lanes)
- Constructor : POSCO E&C and 7 Companies
- Period : Mar.23.2012 ~ Mar.22.2017(60 Months)

◆ PMIS Build-up Operation



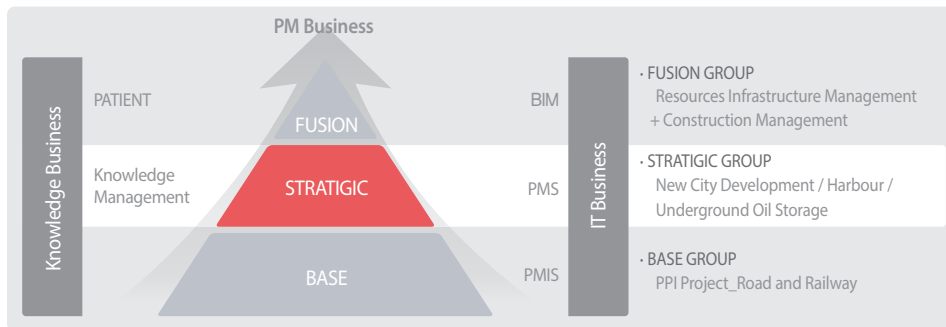
- Setting up an information system Linked Site, SPC, Coporation and Supervisor
- Change Informaiton Delivery from person to PMIS Notice



Bujeon~Masan Railway PPI Project (BTL)



- Overview : Main Line L=32,700.1km/Station 5ea/Signal Station 2ea/Ventilating Opening 5ea
- Constructor : SK E&C and 14 Companies (SK E&C, Samsung C&T, Hanhwa E&C, etc.)
- Period : Jun.27.2014 ~ Jun.26.2020 (72 Months)

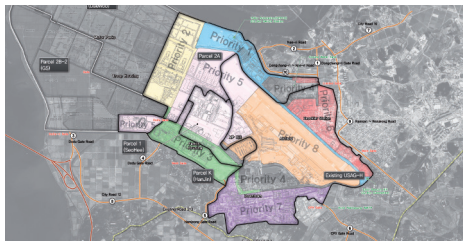


- Experience

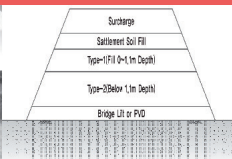
New City Development

- FED Parcel-2A Land Development and Utilities Infrastructure
- Seokmun National Industrial Complex Development Project Unit 5
- Shihwa Multi-Techno-Valley Development Project
- Busan New Port North-Container Complex Development Project

- FED Parcel-2A Land & Utility

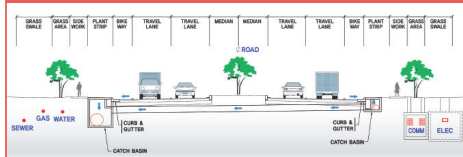


LANDFILL



- Land Development 2,306,000m²
- Poor Subsoil Processing and Landfill(Include Settlement)

ROAD & UTILITIES



- Road 22.8km
- Utilities 185.2km
- Include Demolition Existing Building and Relocation Obstruction

- Project Schedule Control

Baseline Schedule Approval and Change Management

- Review Change and Procedure in Allowable Range Contractual
- Consultation Assumptions and Applications when Creating Schedule
- Consultation Directivity for Change and Summary for Main Change
- Review Advantage or Disadvantage in Logic and Briefing Main Milestone

Project History Record and TIA(Time Impact Analysis)

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- Time Extension or Acceleration
- Progress Follow-up (Warning for Pending Issue)

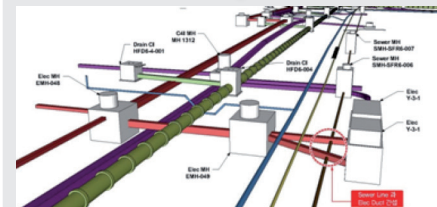
Progress Update

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- Insert Propriety Analysis for Resource Monitoring
- Actual Analysis Compared with Original Plan_Baseline

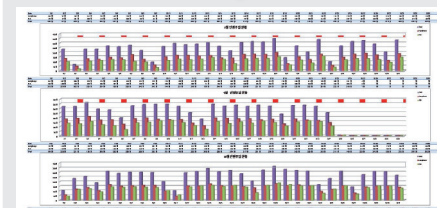
- **Project Coordination**

Main Section 3D Modeling



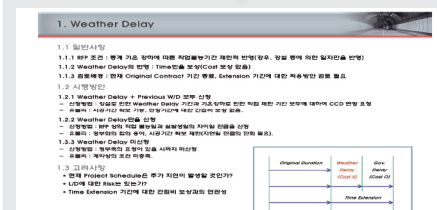
- Checking Design Error and Before Construction / Minimize Rework for Checking Interference

Resource / Inspection Monitoring



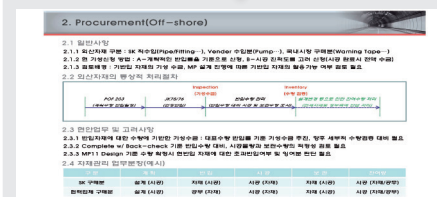
- Management Resource and Inspection by Progress Update

Review of Effect of Functional Issue



- Review Effect of Functional Performance on the Project

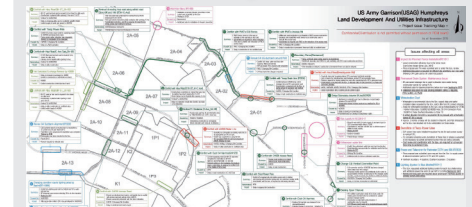
Integration Support for Task by Parts



- Coordination for Cooperation by Parts

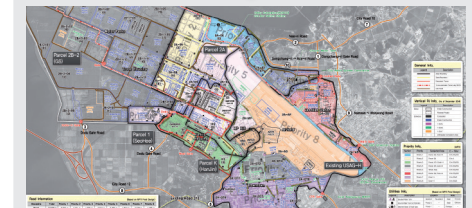
- Project Communication

Intergration of Project Issue



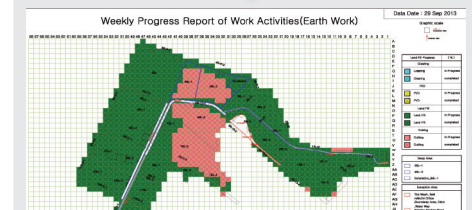
- Intergration and Sharing of Whole Project Issue Items

Summary of General Information



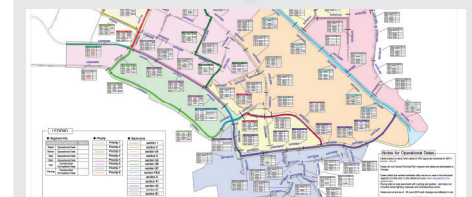
- Summary and Sharing Information for Common Program

Sharing Construction Progress



- Forecast Schedule by Sharing Construction Progress of Infrastructure

Review Processable Point for Utility Service



- Set Utility Service Point by Source of Supply

Global Experience

BCMP's Best Global Experience



East Asia

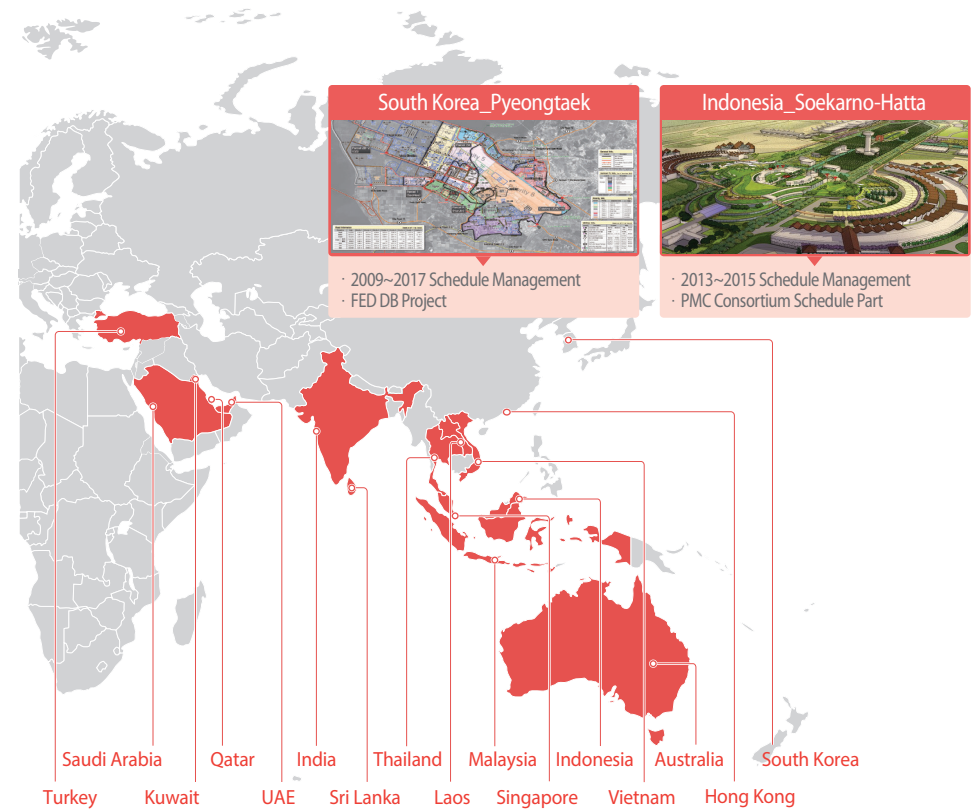
Country	Project Name	Consulting
South Korea	2009 FED Parcel-2A Land & Utility	Schedule Planning & Management
Hong Kong	2015 Tseung Kwan O-Lam Tin Tunnel Project	Schedule Planning

Middle East Asia

Country	Project Name	Consulting
Turkey	2009 Istanbul Strait Road Tunnel Crossing	Schedule Management
Saudi Arabia	2013 King Abdullah Sports City Project	Schedule Management
Kuwait	2015 Al-Zour Refinery Project	Schedule Planning & Management
Qatar	2011 Gas SCADA Upgrade Project	Schedule Planning
UAE	2015 Dubai Eye Project	Schedule Planning

America

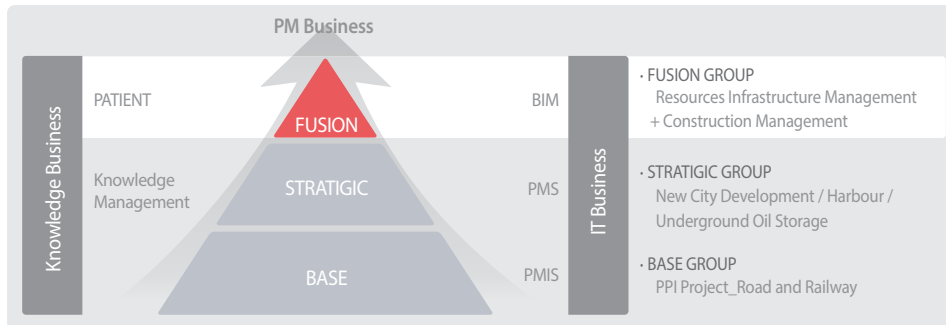
Country	Project Name	Consulting
Mexico	2013 Pilot Plant of Hydrometallurgy Plant of Boleo Copper Mine	Construction Supervision
Brazil	2009 High Speed Railway Project	Schedule Management



South East Asia / Oceania

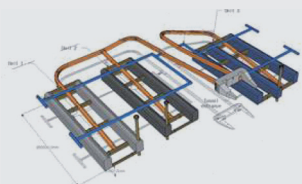
Country	Project Name	Consulting
Thailand	2013 LPG Terminal Project	Schedule Planning
Laos	2013 Nam Lik 1 Hydroelectric Power	Schedule Planning
Malaysia	2012 KV MRT Station Project	Schedule Planning & Management
Singapore	2009 DTL-2 C915, C918	Schedule Management
	2011 TUAS Line C1686, 1687	Schedule Management
	2015 Thomson East Coast Line T302, T310, T313	Schedule Management
Indonesia	2013 Soekarno-Hatta International Airport	CM & Schedule Management
Vietnam	2013 Underground Oil Storage Quang Ngai Province	Detail Feasibility Study & Design
	2014 Nghi Son Refinery & Petrochemical Complex Project	Schedule Management
India	2007 Vizag Crude oil storage cavern Project	Schedule Management
	2012 Mangalore Crude oil storage cavern Project	Schedule Management
Sri Lanka	2010 Ruhunupuna Water Supply Project	Schedule Planning
	2013 Keels City Project	Schedule Planning
Australia	2014 Springsure Creek Coal Mining EPC	Schedule Planning

Underground Business



Underground Oil Storage

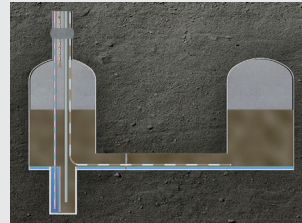
About



- Project Management Consulting
- Feasibility Study
- Basic & Detailed Design
- Site Investigation
- PMIS (Project Management Information System)

Experience

- Vietnam Dung-Quat Underground Oil Storage DFS and Technical Consulting
- Vietnam Dung-Quat Underground Oil Storage Construction PMC



Mine Infrastructure

About

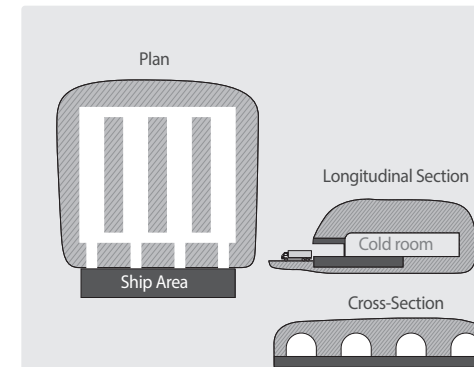


- Design of Mining Infrastructure
- Design of Mineral Processing Plant
- Evaluation of Mining Plan
- Evaluation of Construction and Operation

Experience

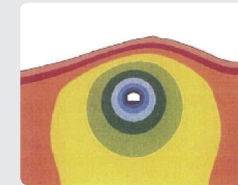
- Supervision of Pilot Plant of Hydrometallurgy Plant of Boleo Mine
- Technical Consulting on the Mining Method of Boleo Mine
- OOO Mine FS Review and FS Analysis

Underground Cold Storage for Food



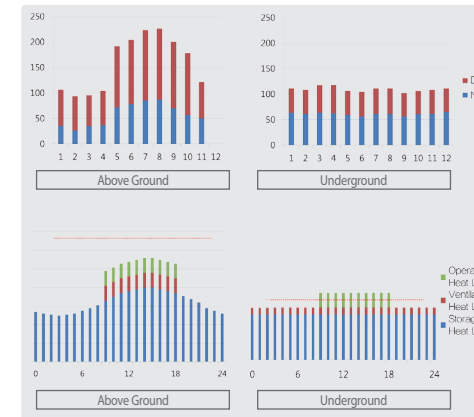
Benefits

- Saving of Energy Consumption
- Stability of Temperature and Humidity
- Long Term Quality Assurance
- Environmentally Friendly Facility



Temperature Distribution

Energy Consumption



Key Technology

- Design of Large Rock Cavern
- Analysis of Heat Flow in Rock Mass
- Analysis of Ground Water Flow

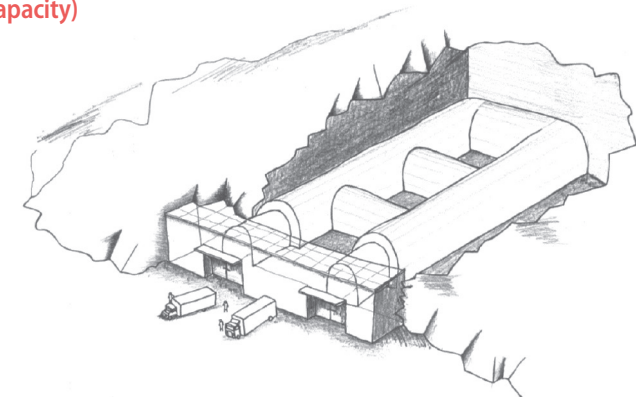
- Development of Design Method for Energy Saving Underground Chilled and Cold Storage Facility (1997)
- Design and Construction Methods of Gonjam Cold Storage Cavern (1997)



Example (3000 ton Storing Capacity)



- Tunnel
Cold Room - W:16m, H:10m, L:64m 2 Line
Enter Room - W:6m, H:6m, L:12m 2 Line
Link Tunnel - W:4m, H:4m, L:16m 1 Line
- Refrigeration Equipment
Total Area $16 \times 64 \times 2 = 2,048\text{m}^2$
Effective Volume $16 \times 64 \times 2 \times 7 = 14,336\text{m}^3$
Enter Room Area $6 \times 12 \times 2 = 144\text{m}^2$



PMIS

Ex4 Series

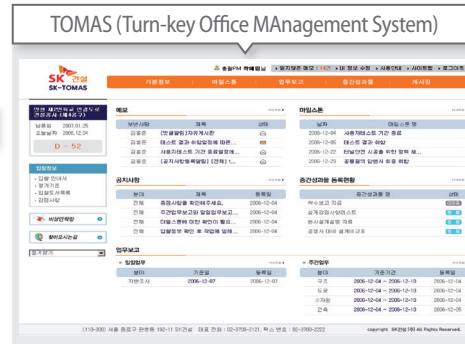
Expert for R&D	In R&D Phase, Management Milestone and Performance
Expert for Design	In Design Phase, Management Milestone, Design Process and Performance
Expert for Construction	In Construction Phase, Management Milestone, Progress and Document
Expert for O&M	In O&M Phase, Management O&M Schedule and Life-Cycle

PMIS (Project Management Information System) Experience

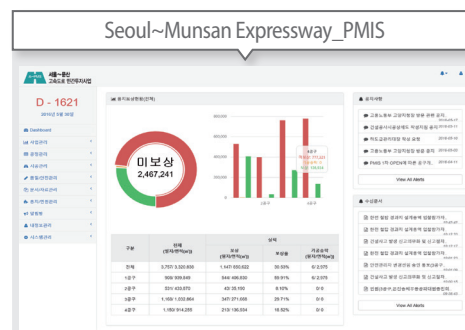
Ex4 R&D	
Year	Project Name
2012	KIGAM R&D Management Information System



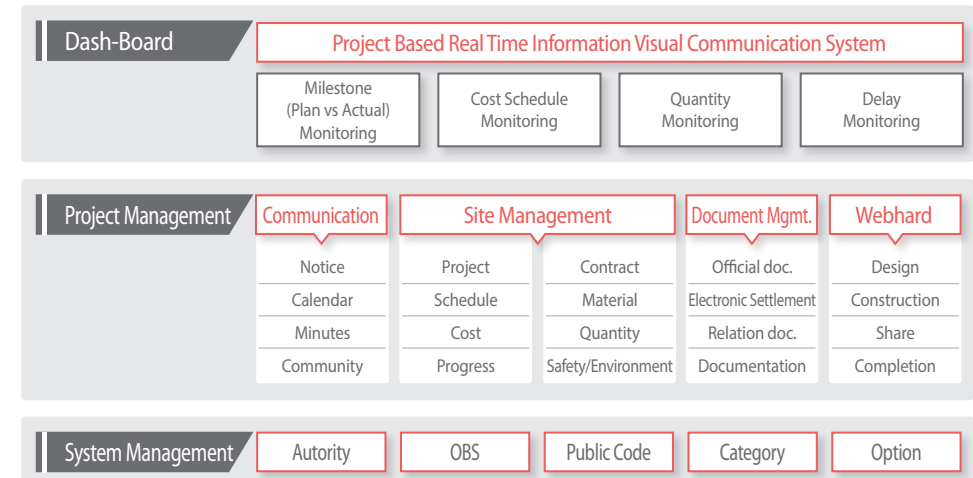
Ex4 Design	
Year	Project Name
2006	TOMAS (Turn-key Office Management System)
2016	MDR (Master Documents Register)



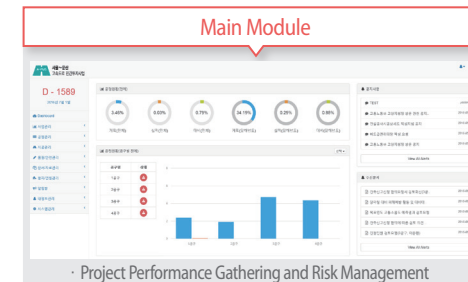
Ex4 Construction	
Year	Project Name
2005	West Suwon~Osan~Pyeongtaek Expressway _PMIS
2008	Pyeongtaek~Siheung Expressway _PMIS
2009	SK E&C_Design Management Information System
2010	Gangbyeon Expressway _4D
	Yeongju Dam Railway Shifting _4D
2011	Suwon~Gwangmyeong Expressway _PMIS
	Bujeon~Masan Railway _PMIS
2012 ~ Present	Incheon~Gimpo Expressway _PMIS
	Guri~Pocheon Expressway _PMIS
	Seoul~Munsan Expressway _PMIS



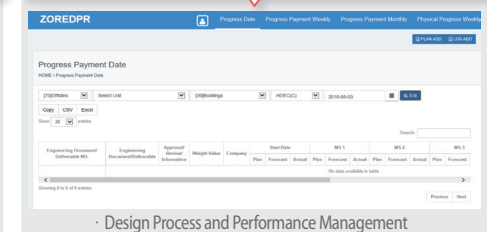
Total Framework



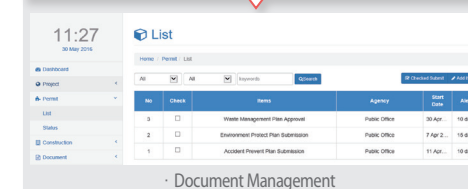
Main Module



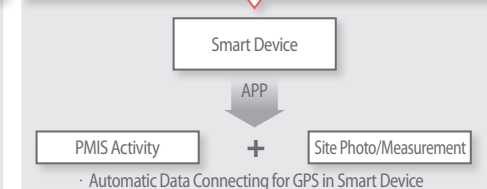
Design Module



Permit & Document Module



Construction Management Module



Schedule & Cost Module

