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Construction IT in Korea

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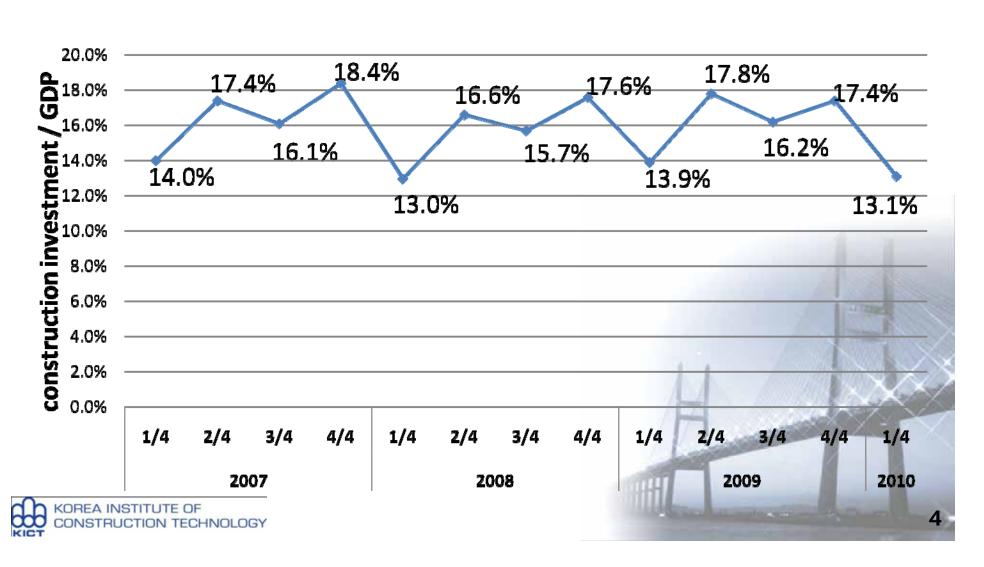
2 Construction CALS in Korea

3 3. MLTM Master Plan of Construction IT (2010-2014)

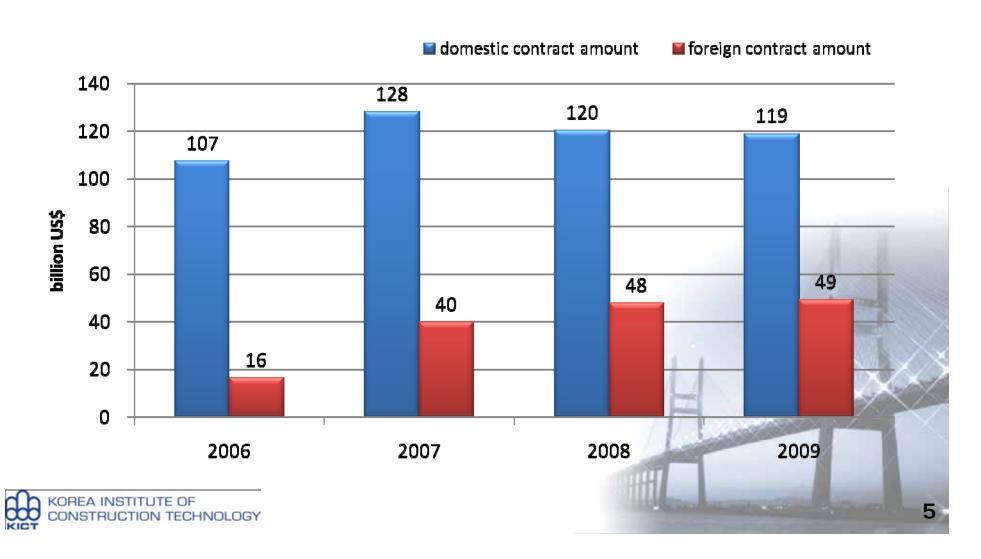
GDP-to-Construction Investment Ratio

- Contract Amount
 - Domestic/ Foreign contract amount
 - Public/ Private contract amount

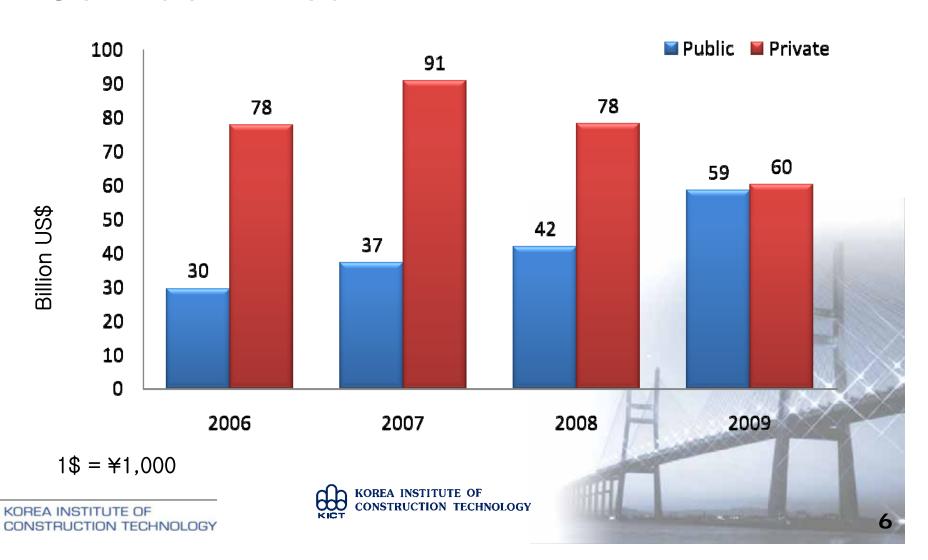
GDP-to-Construction Investment Ratio



Contract Amount



Contract Amount



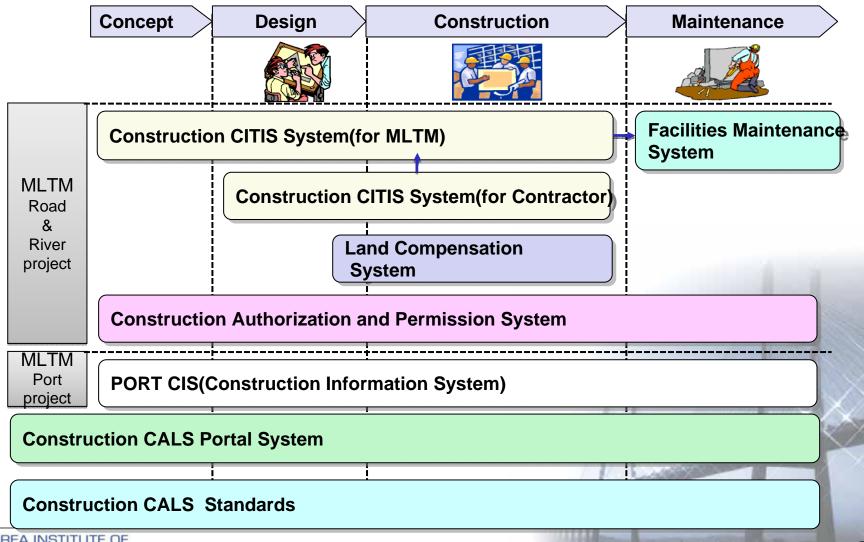
Systems

Standards

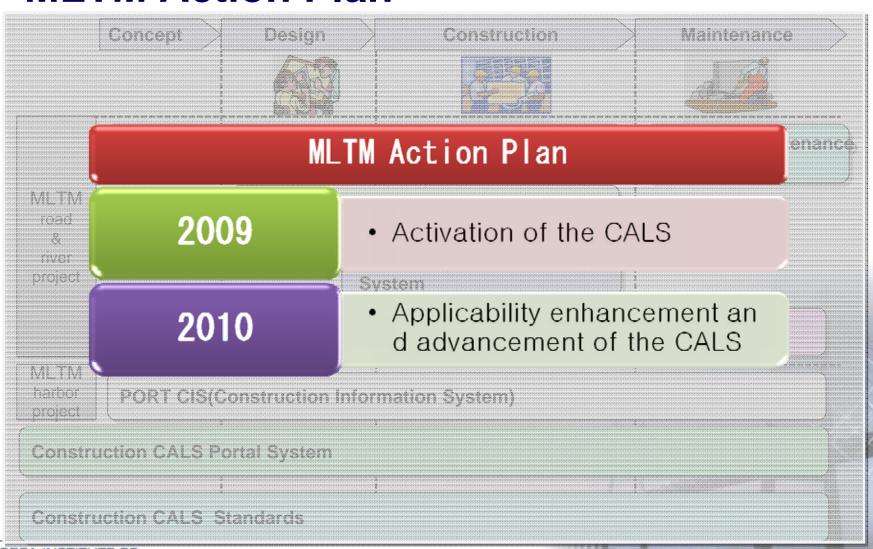




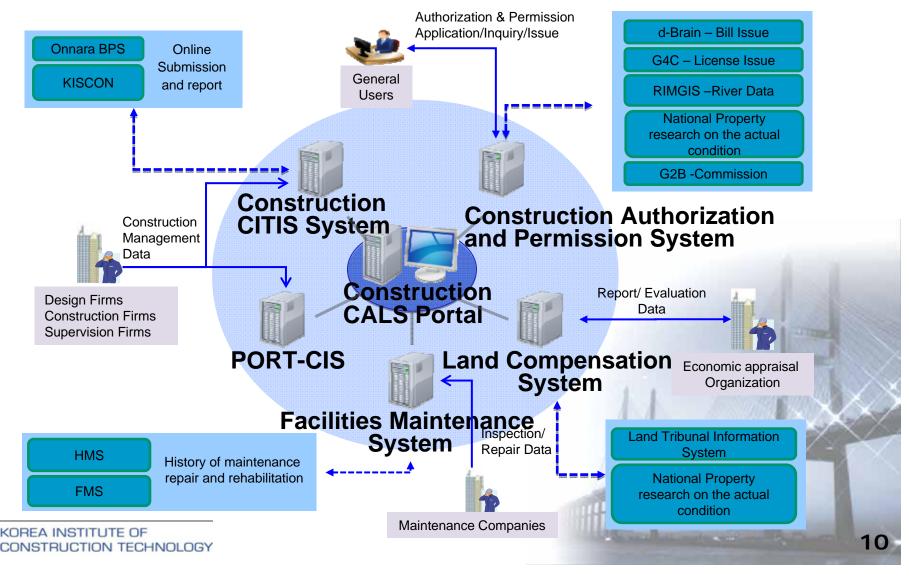
Overview



MLTM Action Plan

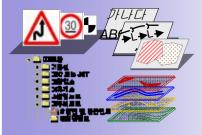


The Construction CALS Systems



The Construction CALS Standards

Standard for drawing classification, file naming, line ype, color, layer, and symbol in construction CAD drawing

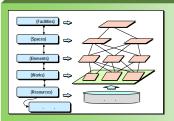


CAD Drawing standards exchange, delivery and store regardless of kind and version of CAD software in construction

Standard for CAD File format to

Drawing information standards





Classification systems

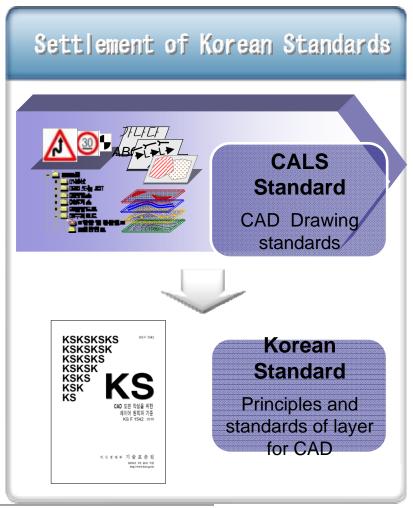
Standard for classification and coding conventions to organize and exchange construction information efficiently in all construction phases

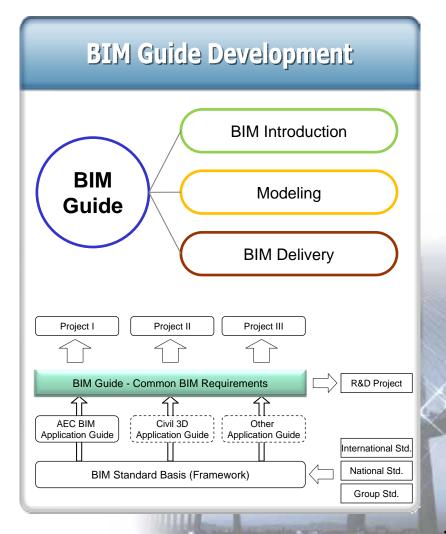
Electronic document standards



Standard for requirements to make and manage the various construction document forms, drawings and specifications in electronic forms

The Construction CALS Standards







3. MLTM Master Plan of Construction IT (2010-2014)

- Territory sector
- Transportation sector
- Construction sector
- Marine sector
- Logistics sector
- Aviation sector
- Administration sector
 - * MLTM: Ministry of Land, Transport and Marine time affairs



Vision



Leading MLTM
that provides the intelligent SOC information services

Territory

· 7 strategic tasks · 23 projects

Transportation

strategic tasks · 17 projects

Construction

strategic tasks . 9 projects

Marine

· 3 strategic tasks · 7 projects

Logistics

2 strategic tasks10 projects

Aviation

· 2 strategic tasks · 4 projects

Administration

4
strategic
tasks
15
projects

Territory sector

- Providing the high quality territory information service to the public
- Enhancing the local government administration service
- Strengthen the management systems of land development
- Integrating estate information management
- Reinforcing the Geospatial information production and management
- Standardization of the Geospatial information
- Developing the integrated management system of subsurface spatial information



Transportation sector

- Providing the user-oriented transportation information
- Advancing the systematic action before/after traffic accident
- Operating the scientific road management based on the advanced IT
- Building the sustainable green transportation system
- Developing the decision support system of traffic policy
- Improving the efficiency of railway safety management service

Construction sector

- Enhancing the water resources information service
- Advancing the construction information service
- Developing the disaster integrated management system





Marine sector

- •Strengthen the marine environment management system
- Providing the coast integrated management service using GIS
- Integrating the existed systems about oceanic information and developing the USN-based ocean observation network



Logistics sector

- Developing the logistic information integrated system including ship/crew management service, RFID-based logistic information service, U-port wireless network service
- Advancing the General Information Center On Maritime Safety and Security(GICOMS)

Aviation sector

- Standardization of aviation database
- Constructing the integrated DB
- Enhancing the aviation portal system
- Developing the digital aviation information system for sharing the global aviation information

Administration sector

- Developing the new function of administration support system
- Developing the BPMS(Business Process Management system)
- Enhancing the national cyber security center
- Developing the DR(Disaster Recovery) center
- Advancing the single window-based internal-External connection channel
- Developing the business portal system for local government

