

# **OSH in construction industry**

- Vision Zero Approach -

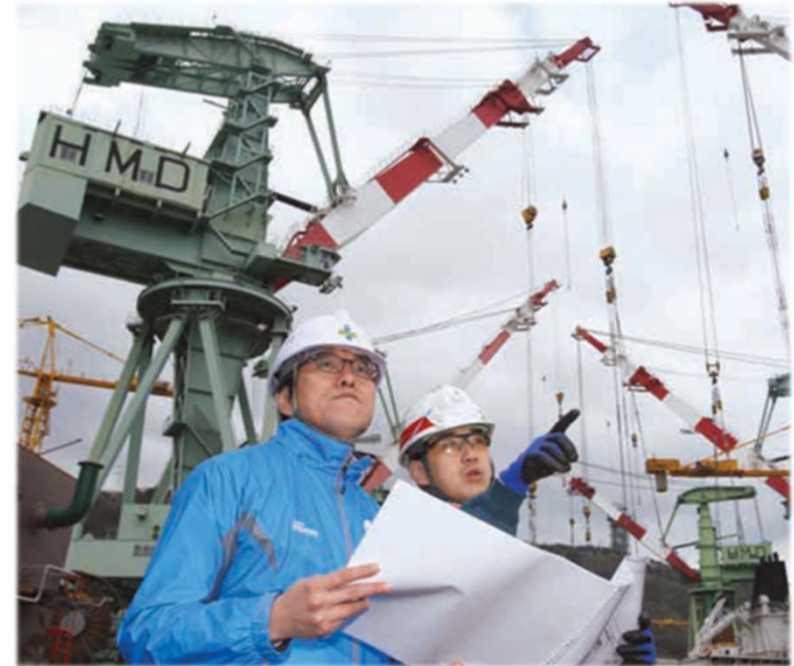
G. W. BAE  
KOSHA

# OSH Statistics

- Overall Pictures(2017)
- Population; 51,778,544
- Working population; 27,748,000
- Workers covered by WCS; 18,560,142
- Workers by industries;

Industry	Number of workers
whole	18,560,142
manufacturing sector	4,127,450(22%)
construction sector	3,046,523(17%)
service providing sector	11,386,169(61%)

- Numbers of injuries and diseases; 80,665 and 9,183
- Numbers of fatalities; 1,957
- Accident rate per 100; 0.48
- Fatality rate per 10,000; 1.05



# OSH Statistics

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- Key figures in the construction industry
  - Number of workers; 3,046,523
  - Numbers of general contractors; 11,453
  - Numbers of specified contractors; 38,549
  - Annual turn over; Approximately 200b(USD)
  - Numbers of injuries and diseases; 24,718 and 931
  - Numbers of fatalities; 579
  - Accident rate per 100; 0.84
  - Fatality rate per 10,000; 1.90
- >>> New Gov. Target; reducing fatality by 50% (year 2022)

# Current challenges

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- Increase of construction accidents
  - Booming of residence construction. lack of machine, equipment, workforces ....
- Aging workers
  - Low physical competency of older workers
- Consistent problems of SMEs
  - Lack of resources. Difficult dissemination of OSH
- Ineffective bidding sys.....



# 1. Leadership and Commitment

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- Preliminary Qualification
  - Include CEO role in PQ with Modified Accident Rate
- Development of accountability toward public clients
  - Promulgate Accident rates and reflect management assessment(Pubic Audit Sys.)
- Leader`s Forum with top 50 construction company
- Leadership Guideline



## 2. Identify Hazards - Control Risk

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- Premium deduction for certified risk assessment program
  - Apply for manufacturing sector(Max. 20%)



## 3. Define Targets – Develop Programs

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- Best practices competition(National OSH week)
- Preliminary Hazard & Risk Prevention Plan submission

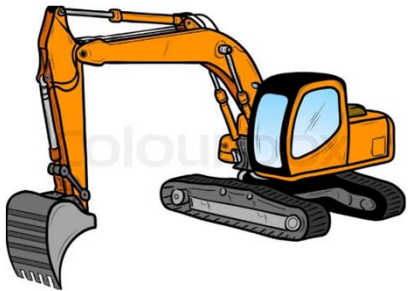
## 4. Ensure a Safe and Healthy System

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- KOSHA 18001(ISO 45000)
  - Reflect on PQ
  - Financial support for specialized contractors

## 5. Make sure Safety and Health in Machines, Equipment

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- FM 2050
  - Back-hoe, Mobile-Crane, Dump truck, Pork-lift, Elevated working platform

## 6. Improve Qualification–Develop Competence

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- OSHI runs about 100 courses and trains 50,000 peoples per year
- Provide site OSH education
- Mobile OSH Bus
  - Basic OSH Training certification
  - Mock-up Training Center



## 7. Invest in People-Motivate by Participation

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- Campaigns(commercial TV program)
- Networking among stakeholders
- Imposing accountability on Clients



- 7 golden rules has been implemented successfully as basic strategy in construction sector
- The construction industry is one of most dangerous in nature, so balanced approaches are needed.
  - Regulatory enforcement activities by law(Eng. Tech.)
  - Systemic, organizational approach through OSHMS
  - Considering human factors
- Cultural approaches are essential
  - Safety culture, Prevention culture



# Keep safety alive

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“If eternal vigilance is the price of liberty, then chronic unease is the price of safety”

“Safety war - a long guerilla struggle with no final conclusive victory”

By James Reason

**Thank you  
for your kind attention!**