

Labor Safety Management in Construction Industry

建設業における労働安全管理

Maeda Corporation

前田建設工業株式会社

Transition of GDP & Construction Investment in Japan (GDPと建設投資の推移)

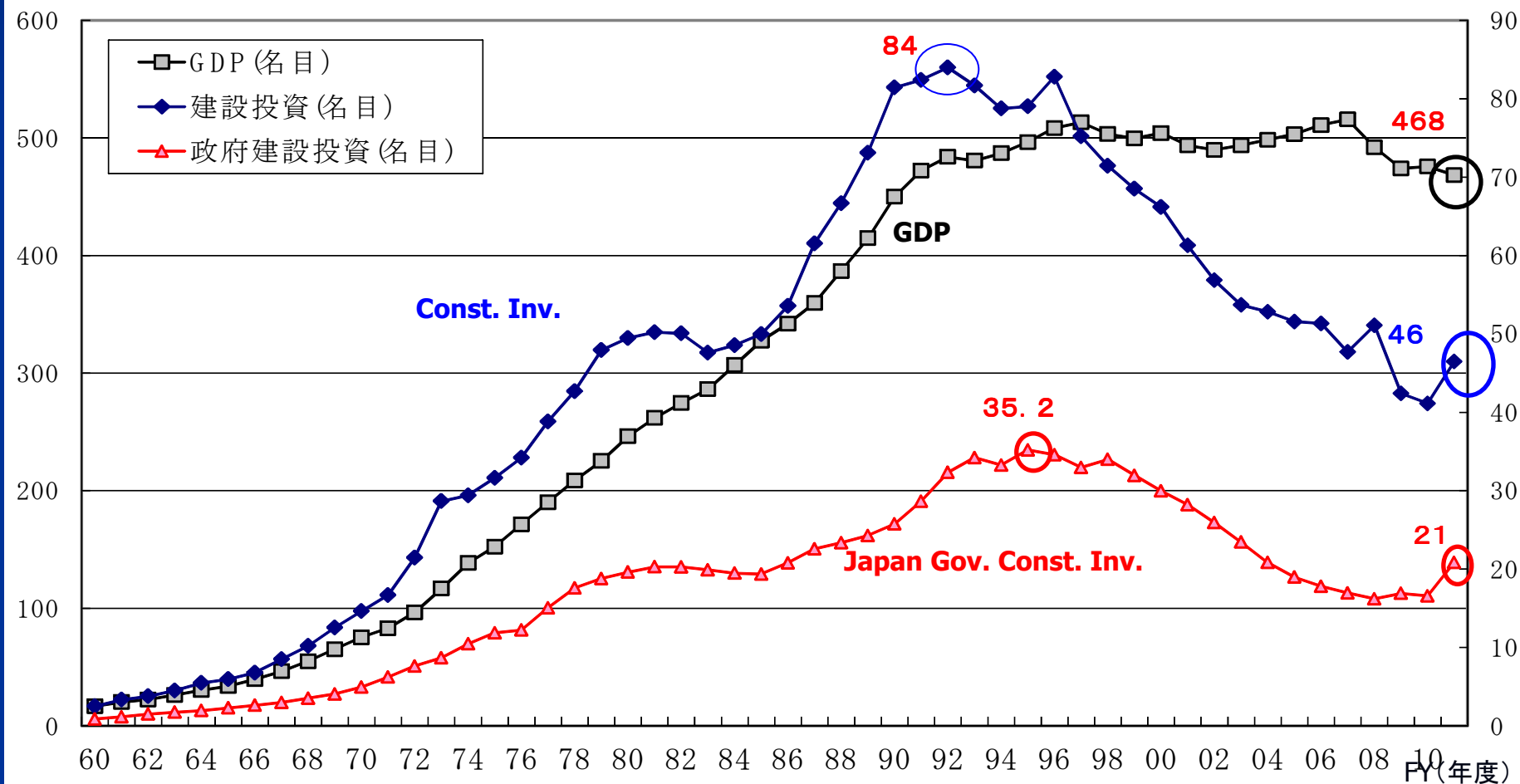
▪ Const. Inv. : 13% Growth Expected Due to Recovery Works from Devastated Disaster
(東日本大震災の復興も伴い、建設投資は前年度比13%となる見通し。)

▪ Const. Inv. : Expected for FY2011=JPY46.47Trillion (US\$581Billion)

(2011年度各目建設投資=46兆 4,700億円)

Nominal GDP(\Trillion)

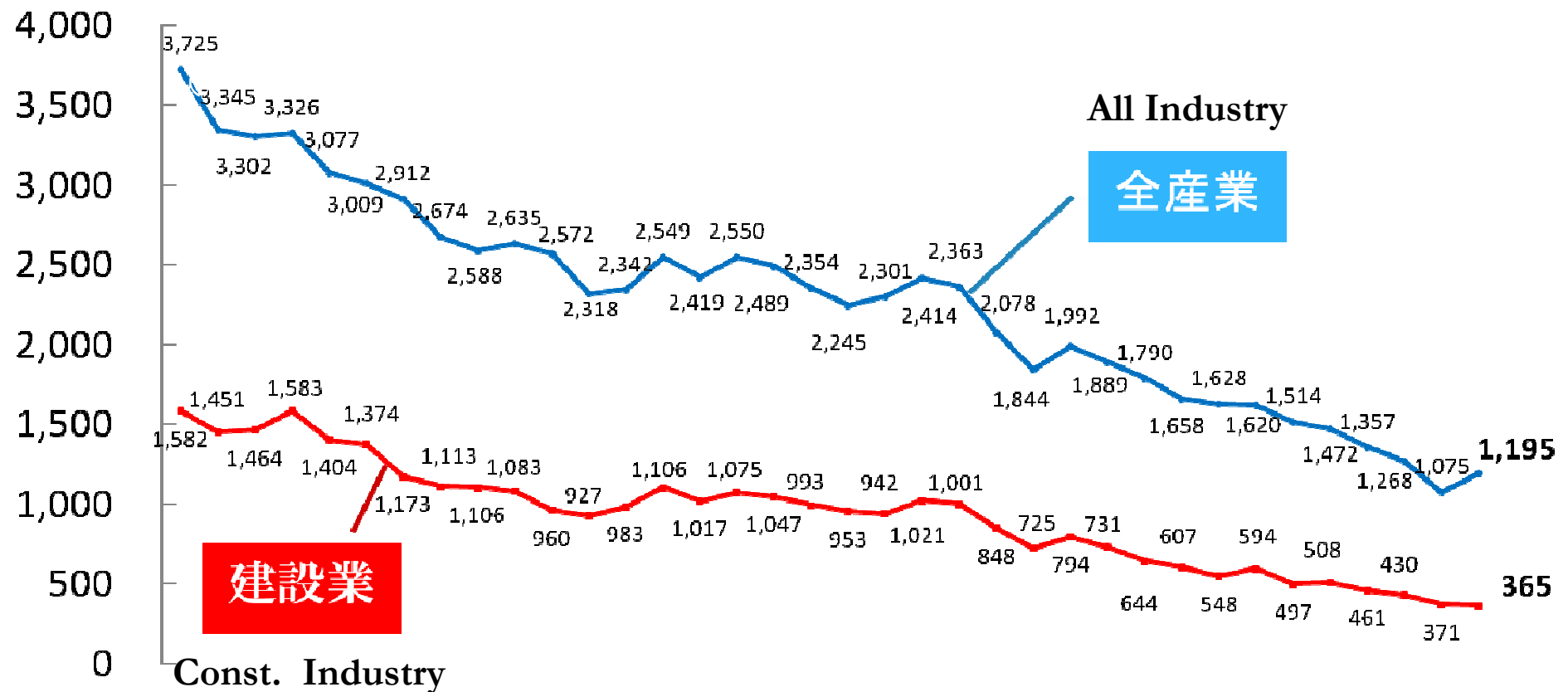
Nominal Const Inv(\Trillion)



出所)建設投資;国土交通省、2011年12月
GDP ;内閣府 国民経済計算、2012年

Transition of Number of Dead in Occupational Accidents (1975-2010)

死亡者数の推移 (1975年～2010年)



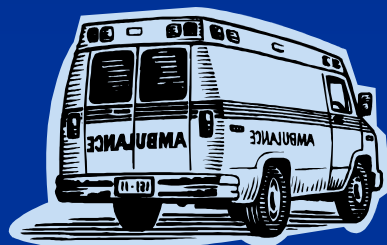
(2010年確定値)

Number of Dead & Injured Person with More Than 4 days Leaves
Due to Accidents in All Industry=107.759 Person

(2010年全産業休業4日以上死傷者)

Number of Dead & Injured Person with More Than 4 days Leaves Due
to Accidents in Construction Industry=21,398 Person

(2010年建設業休業4日以上死傷者)



Working Population in All Industry: 62.57Million

(Number of Dead & Injured Person with More than 4 days
Leaves against 1 Million is 1,722 person)

就業者：6257万人（全産業休業4日以上死傷者：対100万人；1,722人）

Working Population in Construction Industry: 4.98Million

(Number of Dead & Injured Person with More than 4 days
Leaves against 1 Million is 4,296 person)

建設業就業者：498万人（建設業休業4日以上死傷者：対100万人；4,296人）

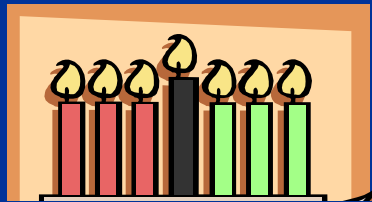
※就業者：総務省「労働力調査」

Number of Dead in Occupational Accidents in All Industry (FY2010): 1,195 person

2010年全産業死亡者 ;
1,195人

Number of Dead in Occupational Accidents in Construction Industry (FY2010): 365 person

2010年建設業死亡者 ;
365人



Working Population in All Industry: 62.57 Million
19 Person killed against 1,000,000 people

就業者 : 6257万人 (全産業死亡者 : 対100万人 ; 19人)

Working Population in Construction Industry: 4.98 Million
73 Person killed against 1,000,000 people

建設業就業者 : 498万人 (建設業死亡者 : 対100万人 ; 73人)

※就業者 : 総務省

① Important Issue of Safety Management at Construction Site in Japan

日本の建設現場に於ける安全管理のポイント

1) Main Contractor and Subcontractors
cooperate each other.

協力会社と一体となった安全管理が必要

2) Safety Work Cycle is surely implemented.

安全施工サイクルの確実な実施

3) Risk Management by OHSMS (Occupational
Health and Safety Management Systems)

労働安全衛生マネジメントシステム(OHSMS) によるリスク管理より、
災害を減少させる

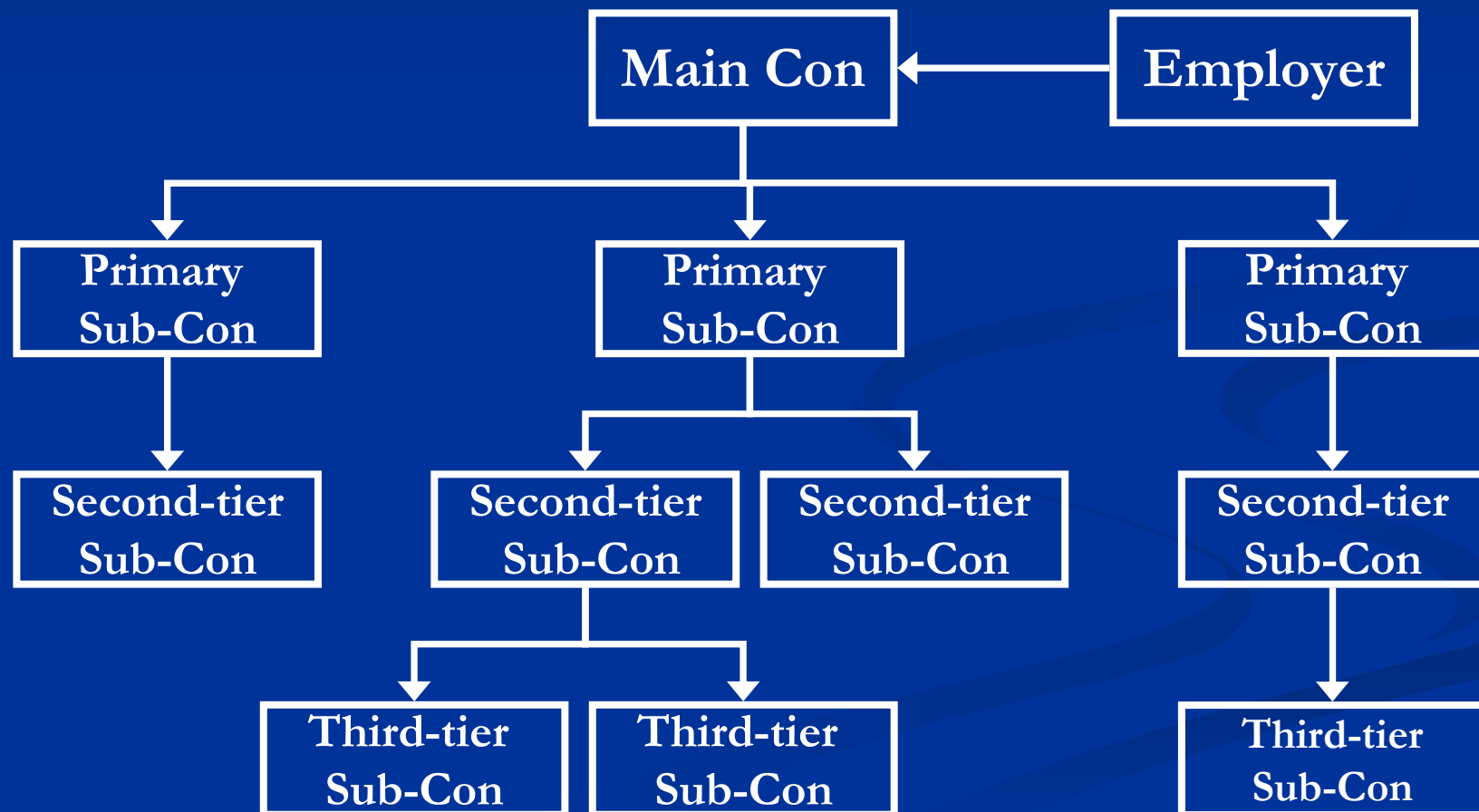
4) Continuous Safe Consciousness Education
for Worker as well as Staff

職員・作業員の継続的安全意識教育の実施

1) Main Contractor and Subcontractors cooperate each other.

下請(協力会社)と一体となった安全管理が必要

Subcontracting System in Construction industry



Advantages and Disadvantages of Subcontracting System in Construction Industry

建設業における下請け制度の良い点、悪い点

Advantages 良い点

- ・Subcontractors can specialize in specified works like Form work, Re-bar work so that they can produce higher quality products.

下請け業者が型枠工、鉄筋工等の専門工事業者に特化でき、優れた品質を確保出来る

- ・Subcontractors can adjust their number of labors flexibly in accordance with the volume of their work.

仕事量の増減に合わせ、臨機応変に労働力を確保できる

Disadvantages 悪い点

- ・The responsibility of Main Contractor is much bigger than that of Subcontractors in case of accidents. Therefore the safety consciousness of Subcontractors is likely to be lower.

労働災害発生時、元請の責任が下請業者よりも大きく、下請業者の意識を元請業者同様にするのに苦労している

- ・Subcontractors are replaced project by project because of the changes of the conditions of the work. Therefore Main Contractor is likely to face difficulties to let Subcontractors make sure its safety policy and regulations on site.

仕事の都度下請業者が変化するので、専属度が高い業者は良いが、その他の業者に会社のルールを徹底させるのに苦労する

Responsibility of Main Contractor in Case of Accident

Criminal Responsibility

Criminal punishment by
Labour Standards Inspection
office & Police Department.

Huge amount of
compensation must be paid to
the injured labours in addition
to the insurance money.

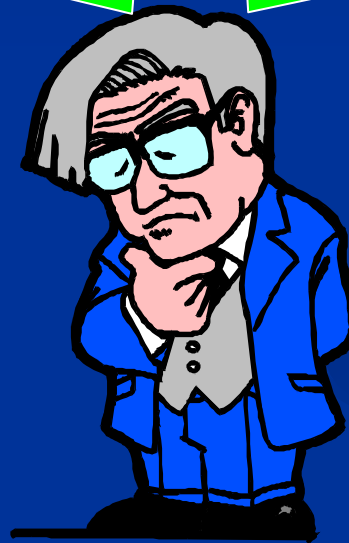
Responsibility in Civil affair

Administrative Responsibility

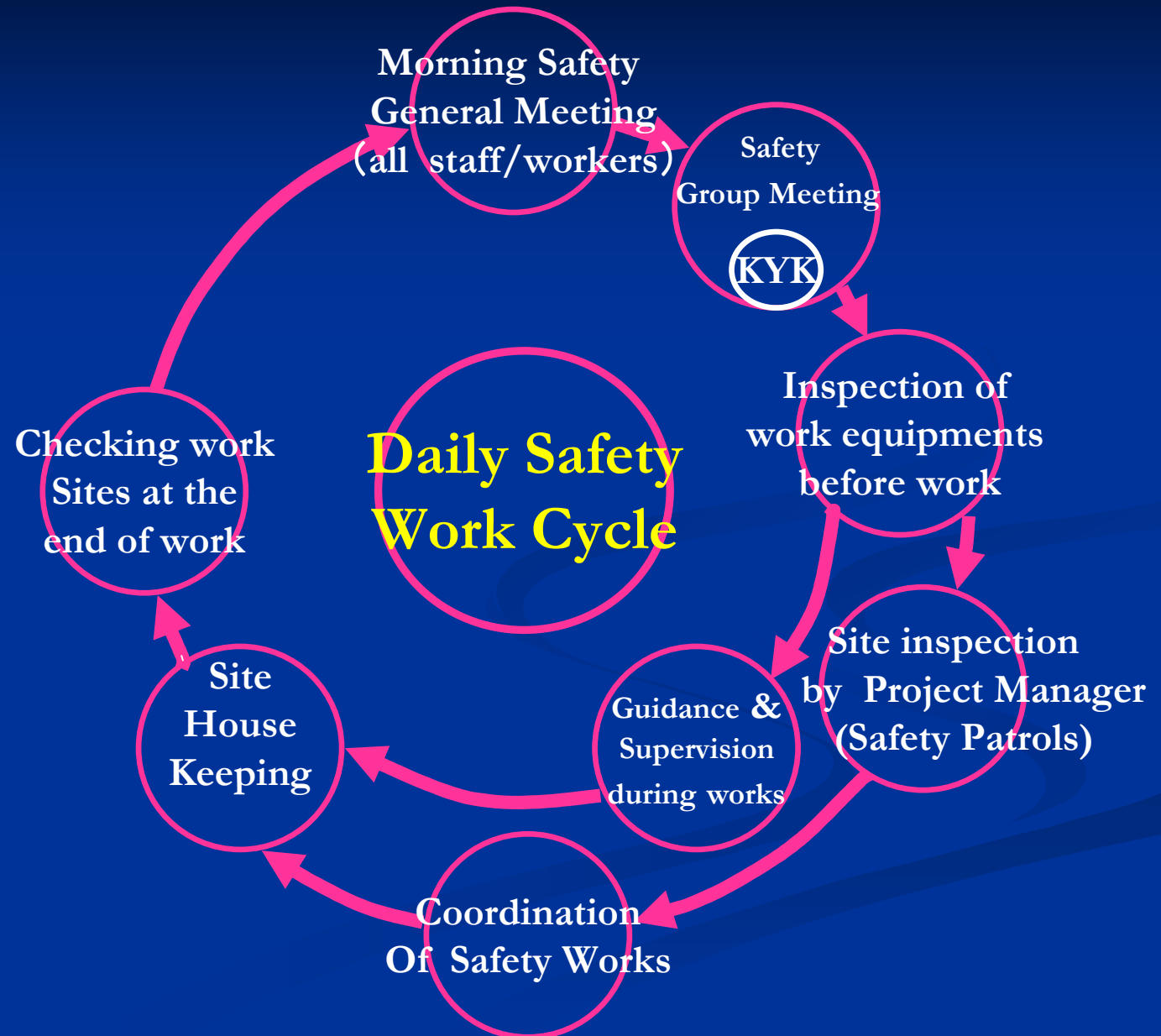
They are not allowed to
participate in any tender to
be executed by
Administrative Bodies for the
punishment period.

The image of their
company is damaged.

Social Responsibility



Daily Safety Work Cycle (Example)



General Safety Meeting

(Physical exercises prior to start of work)

安全朝礼・体操



General Safety Meeting



Safety Meeting (KY) (Danger prediction activities) 安全ミーテング:KY

After work instructions are issued, all staff discuss the dangerous points of the day's work and confirm countermeasures.



Inspection Prior to start of work

作業開始前点検



Project Manager Safety Patrol



Education for Newcomers on Site

(Introduction of Preparatory Education)

新規入場者教育



Meeting for Work Schedule

作業工程打ち合わせ

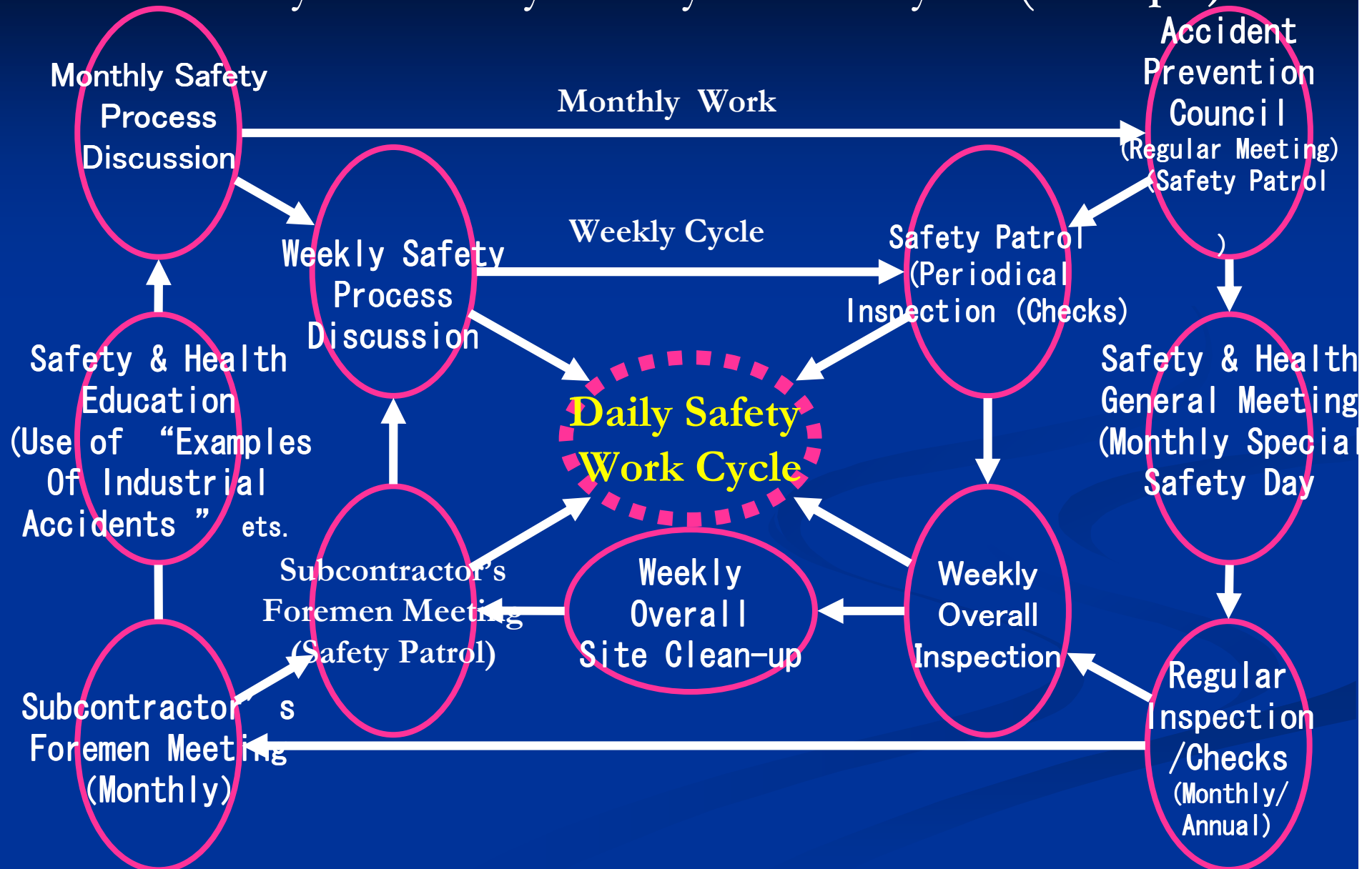


Meeting by Site Office Staff (End of the day)

職員ミーティング(作業終了後)



Weekly ▪ Monthly Safety Work Cycle (Example)



Accident Prevention Council

災害防止協議会



Joint Safety Patrol by Subcontractor's Foremen 職長会パトロール



Site safety conditions are improved by implementing OHSMS so that the number of accidents can be reduced.

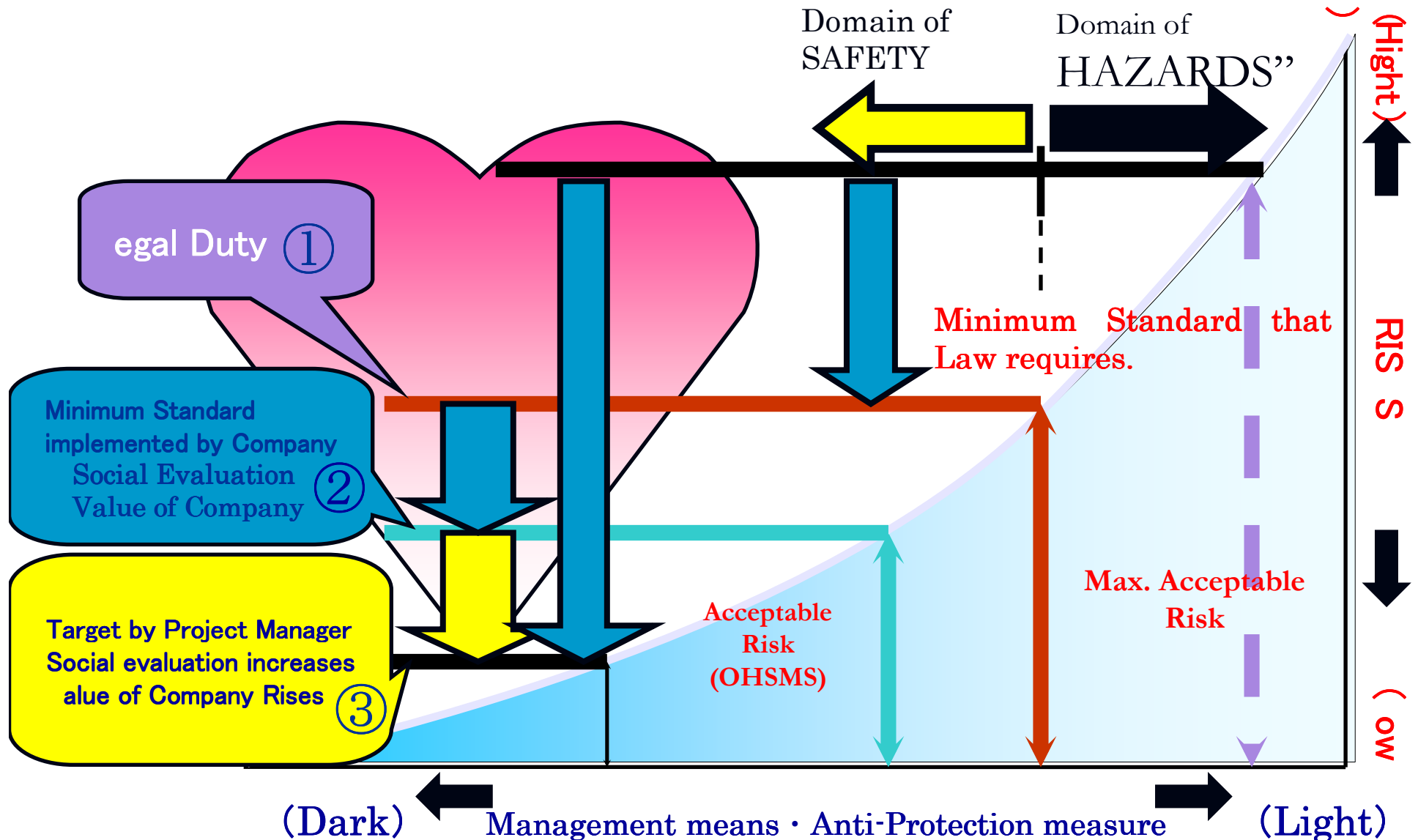
労働安全衛生マネジメントシステム(OHSMS)による工夫改善を行い、労働災害を減少させる

We implement MAEDA'S OHSMS at all of our work-sites so that we can decrease the number of accidents

MAEDA OHSMSを全現場で実践し、災害を減少させる

OHSMS

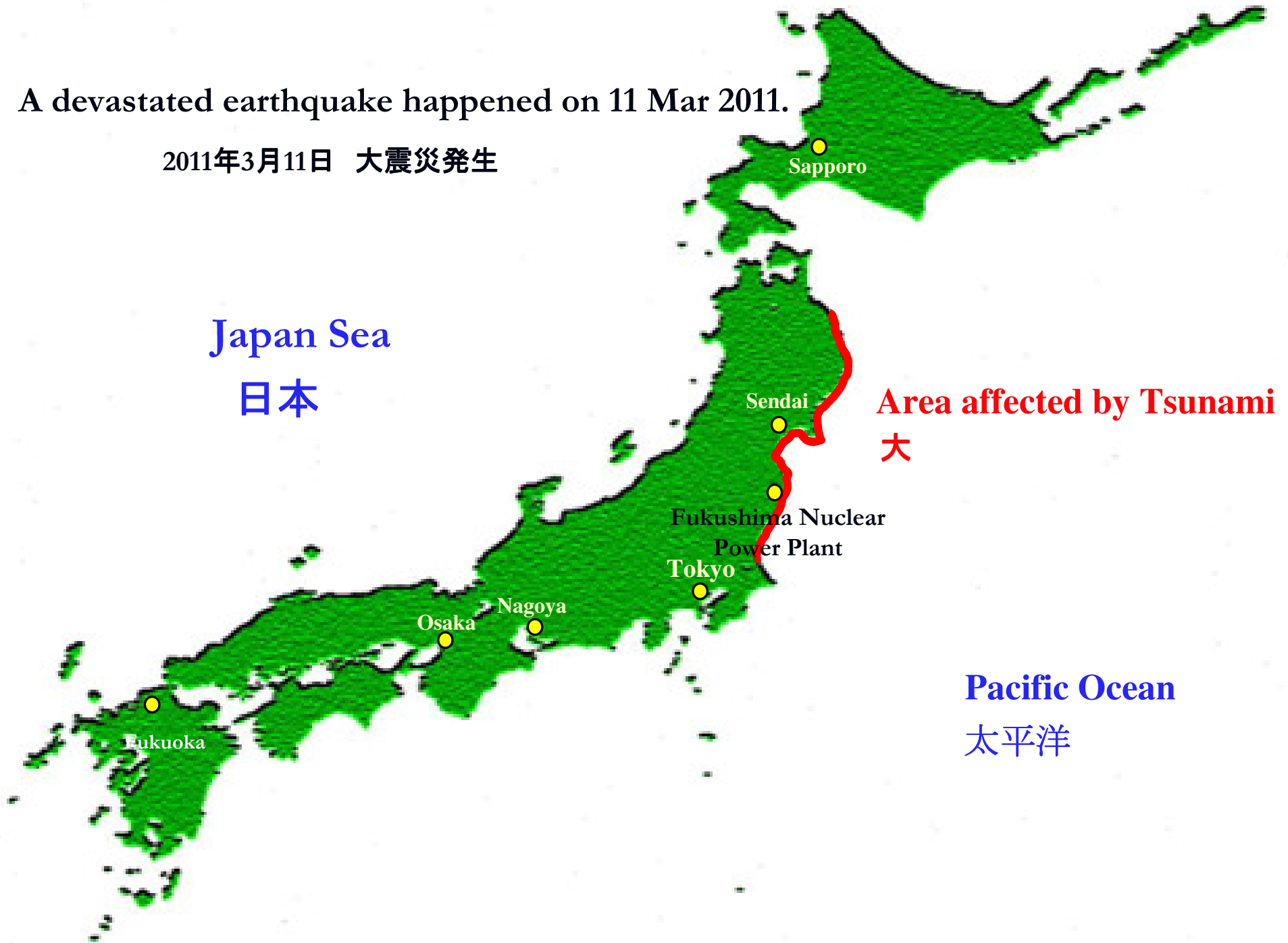
“Safety is sincerity of company”



A devastated earthquake happened on 11 Mar 2011.

2011年3月11日 大震災発生

Japan Sea
日本



Area affected by Tsunami
大

Pacific Ocean
太平洋







Serious Situation Caused by Devastated Earthquake & Tsunami

東日本大震災の 害

(as of May. 1. 2012)

- Number of Dead: 15,858 person

死亡者数 15,858 人

- Number of Missing Person: 3,057 person

行 者 3,057 人

- Number of Injured Person: 6,077 person

者 6,077 人

Thank you