# Details of

# "2013 Safety Vision"

The 5th Five-year Safety Plan for East Japan Railway Company

> Tsugio Sekiji East Japan Railway Company



# **Outline of JR East**









# 1. Two perspectives given particular priority in the "2013 Safety Vision"

2. The Four Pillars of "2013 Safety Vision"

# Two perspectives

# Two perspectives given particular priority in the "2013 Safety Vision"

## 1 Human resource development and improvement of systems related to safety

**2** Accident prevention through risk evaluation

# Four pillars



The Four Pillars of "2013 Safety Vision"

1 Creating a culture of safety

2 Rebuilding a safety management system

**3** Taking sure steps to reduce risks

# Four pillars



The Four Pillars of "2013 Safety Vision"

1 Creating a culture of safety

2 Rebuilding a safety management system

**③ Taking sure steps to reduce risks** 

## 1 Creating a culture of safety

The five "cultures" which make up a culture of safety

#### Correct reporting culture

*Reporting correctly and quickly is very important and the starting point for the prevention of accidents.* 

#### Awareness culture

"Mai hyatto", the experience of near-accidents, is the hidden sign leading to accidents. If we are aware of the hidden signs leading to accidents and share this information, we can prevent the accidents.

#### Discussion culture

We can take proper countermeasures against them only if we discuss them thoroughly, even in cases when we have different opinions, from the viewpoint of investigating their causes

#### Learning culture

It is important to utilize the incidents or events occurring in other places and to take countermeasures to prevent accidents; the fault of another is a good teacher. Learning from accidents continually through the Challenge Safety Campaign or from the data book of past accidents will help us prevent accidents

#### Action culture

Safety is secured only if we relate reporting, awareness, discussing and learning to safety action.

## O Building the safety culture of JR East Group

[ A culture of safety ]

OCorrect reporting culture

OAwareness culture

**ODiscussion culture** 

OLearning culture

**OAction culture** 

Mutual confidence

- Complete honesty
- Continuing efforts

#### 1 Creating a culture of safety Details of "Sangen Shugi", the basis of our company's activity

• The actual location:

We should go to the actual location to understand what happened and how it happened.

#### • The actual things:

We should examine the actual objects, such as rolling stock, equipment, machines and tools to understand the circumstances.

#### • The actual persons:

We should meet face to face with the persons actually involved, to understand their circumstances.

#### Safety issues occur at the actual scene.

The answers to the issues are also at the actual scene.

Don't you think that going to the actual location is extra work?

Seeing, Listening, Feeling and Thinking for Ourselves!

Set "Sangen shugi" as our standards for action !



< Sangen Shugi >

#### 2013 SAFETY VISION

## "Gemba Power"\*1 creates safety — from Isao Endo\*2

OWho can sense the sign of an accident if it is not sensed at the actual scene ? OWe should respect the actual scene.

OThe management and the actual scene must be unified.

\*1: Gemba Power : The ability to recognize the issues caught by the actual scene and solve the issues of the actual scene

\*2: Isao Endo : Professor, Waseda University business school; Chairman, Roland Berger Ltd. Japan

Source information

Sensitivity ( we go to the actual scene 100 times )

We will be able to see what we cannot yet see. The answers are at the actual scene.

## 2 Rebuilding a safety management system

Details of future human resource development and handing down of safety information

#### 2013 SAFETY VISION

## Key safety leaders

## Thorough knowledge

Having thorough knowledge concerning weak points, safety rules, equipment, work, and past accident records

#### Instruction ability

Being able to instruct employees in knowledge that must be understood thoroughly and in weak points that must be overcome

#### Ability to train successors

Steady development of newer employees who will be their successors

## 2 Rebuilding a safety management system

Details of future human resource development and handing down of safety information

#### 2013 SAFETY VISION

## Safety professionals

- •We will train employees in leadership and in thorough knowledge of safety rules, train operation rules, and past accident records.
- •Safety professionals will formulate the countermeasures against accidents, give advice in abnormal situations, formulate safety measures, and lead the Challenge Safety Campaign.
- •Branch offices will develop the safety professionals over the long term, as the employees with knowledge, technologies and good sense concerning safety.

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Rebuilding a safety management system Details of future human resource development and handing down of safety information

## Succession of safety knowledge

 Organization of chroniclers (narrators of oral-history) Having thorough knowledge concerning weak points, safety rules, equipment, work, and past accident records

#### •Expansion of the Accident History Exhibition Hall

Being able to instruct employees in knowledge that must be understood thoroughly and in weak points that must be overcome

 Compiling a "technical history of safety (an illustrated scroll)" and "serious accidents dictionary" Steady development of newer employees who will be their successors





# Four pillars



The Four Pillars of "2013 Safety Vision"

1 Creating a culture of safety

2 Rebuilding a safety management system

3 Taking sure steps to reduce risks

## **3** Taking sure steps to reduce risks

Details of our risk evaluation



2013 SAFETY VISION

## **3** Taking sure steps to reduce risks

Details of our risk evaluation

#### 2013 SAFETY VISION



## **3** Taking sure steps to reduce risks

Details of our risk evaluation





#### O According to this evaluation, we will advance the following measures, along with others

2013 SAFETY VISION

Countermeasures against Tokyo metropolitan area large earthquake

Detecting and stopping trains at an early stage, examining the earthquake-proof measures on each line

Countermeasures against level crossing accidents

Countermeasures that prevent pedestrians from crossing just in front of moving trains, countermeasures against secondary damage, installation of crossing obstacle detectors according to the danger level at crossings outside of the Tokyo metropolitan area.

Countermeasures against excessive speed; Countermeasures against miscommunication

For train drivers, the installation of ATS\*-P or ATS-Ps and countermeasures to prevent excessive speed at temporary speed restrictions \* ATS: Automatic Train Stop For dispatchers, improving train radio systems and installing a system with automatic communication to drivers and conductors on trains.

Countermeasures against low-speed wheel-climb derailment

Constructing an experimental track to investigate the mechanisms of derailments

#### Safety measures for station platforms

Installing movable platform barriers, increasing the number of emergency train stop devices, measures for safety of escalators and elevators, countermeasures that prevent passengers from being hit by trains.

Countermeasures against natural disasters

Reliable countermeasures against rock falls and landslips

# Four pillars



The Four Pillars of "2013 Safety Vision"

1 Creating a culture of safety

2 Rebuilding a safety management system

**③ Taking sure steps to reduce risks** 





## Conclusions

# Ultimate Safety

The wisdom and the efforts of humanity are required to build up safety.

There is no end of safety.

# Thank you for your attention !!

