Development of Level Crossing awareness approach in JAPAN

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What is ‘JR-East’?
Overview of JR-East

(As of 1 April 2017)

- Employees: 56,450
- Working line-kilometers: 7,457 km
- Stations: 1,666
- Passengers carried: About 16 million/day
- Trains operated: 12,229/day
- Units of rolling stock: 12,876

Shinkansen began operation in 1964.

0 fatalities for over a half century
Overview of JR-East

Various numbers per day

- No. of customers: 16.8 mil.
- Train km: 710,000 km
- Opening and closing of doors: approx. 6 mil.
- Opening and closing of level-crossings: approx. 700,000
- Signal confirmation: approx. 1.2 mil.
1. Level crossing of JR-East

2. Risk communication

3. Other countermeasure
1. Level crossing of JR-East

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Type of level crossing

Class 1: With alarms and crossing gates

Class 3: With alarms No crossing gate

6464／6841
Type of Level crossing

Class 4: Neither alarms nor crossing gates

377/6841
Transition of number of level crossings
1. Level crossing of JR-East

2. Risk communication

3. Other countermeasure
Driver’s rulebook revision

We put new LC illustration in cooperation with traffic authority

Before

10 million books
Distributed per year

After
Why we focus on Emergency button at LC?

4597 Level crossings

Push!
Practical trial LC emergency button panel
Deployed to driving schools

21 newly panel deployed to each prefecture /26
LC emergency button panel at bigger station

Actual buzzer alarm sounded
Awareness campaign at variety events

Corporation with Police at the event

At the station
Awareness campaign on paper file with comic poem written

50,000 paper files distributed with ILCAD logo
TV advertising
TV advertising
1. Level crossing of JR-East

2. Risk communication

3. Other countermeasure
To make Level crossing easier to be eye-catching

A crossing warning light located in a higher position

A crossing warning light visible from 360° direction
Conclusion
Thank you for your attention