

Transport Security Measures and Technology in Japan

December 7, 2005

**For Transport Security Technology Conference
~Facilitation of International Cooperation on
Technological Developments and Disseminations~**

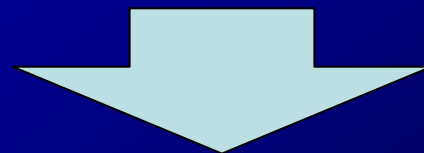
**Hiroshi MARUYAMA
Vice-Minister,
Ministry of Land, Infrastructure and
Transport (MLIT)**

1. Present Condition and Issues to Ensure Transport Security

(1) Present condition of transport security

① Major terrorist attacks after September 2001

Sep.2001	September 11, 2001 attacks in U.S.
Nov.2003	Murder of Japanese attaché in Iraq
Mar.2004	Train bombings in Madrid
Apr.May.Oct.2004	Kidnapping of Japanese in Iraq
Aug.2004	Aircraft bombings in Russia Suicide bombing near subway in Russia
Jul. 2005	Subway and bus bombings in London



1. Present Condition and Major Issues to Ensure Transport Security

② Counter-terrorism measures by MLIT

- Counter-terrorism measures are taken in the field of land, maritime, and air transport, and around important infrastructure such as airports and ports.

1. Present Condition and Major Issues to Ensure Transport Security

(ex.) Strengthening of precautions and guard...

1. At **airports** by airport authorities and air carriers, **and on aircraft** by air carriers



2. **In railway stations** by railway operators, **and on train cars** by railway operators
(e.g. **matching baggage with passenger** inside **Shinkansen** train cars)



1. Present Condition and Major Issues to Ensure Transport Security

(ex.) Strengthening of precautions and guard...

3. **On ships** by shipping operators,
and at port facilities by port authorities



4. **In main bus terminals** by bus operators
5. **At major facilities near the seaside**, such as nuclear power plants by Japan Coast Guard.



1. Present Condition and Major Issues to Ensure Transport Security

② Counter-terrorism measures by MLIT

- International framework

(ex.)

1. ① Requirement to equip aircraft with **reinforced cockpit doors**.
② Introduction of **sky marshal**.
2. Strengthening of security on ships and at port facilities according to Law for Security of Ships and of Port Facilities, based on **SOLAS convention**.

1. Present Condition and Major Issues to Ensure Transport Security

(2) Important Standpoints to Ensure Transport Security

① “Prevention” is a vital point.

* Transport systems:

Many people and goods gather in vehicles with limited area/space such as train, aircraft and ship

1) Terrorist attacks to transport systems directly affect **a large number of human lives.**

2) **Vehicles** can be used as a means of attack.

② Balance between security and facilitated transport is important.

2. Technology to Enhance Transport Security

(1) Direction: Importance of technology which contributes to more effective and efficient screening and the smooth flow of people and goods

problems

- ① *practicability*
- ② *availability (easy to use, reasonable cost)*

For development and wide use of
new technology . . .

cooperation is necessary between government and private sector by making the best use of each other's strong points

2. Technology to Enhance Transport Security

(2) Promoting development and wide use of technology through international cooperation

To develop and promote wide use of transport security technology through **international cooperation**, it is effective and efficient to,

- *Share information on emerging technology*

avoid redundant investments while improving technology

- *Apply other modes' technology*
- *Share and standardize technology*

cost cutting

2. Technology to Enhance Transport Security

(3) MLIT's efforts in development of transport security technology

- What is **the most effective** measure ?

Prevention of dangerous goods being carried into transport facilities

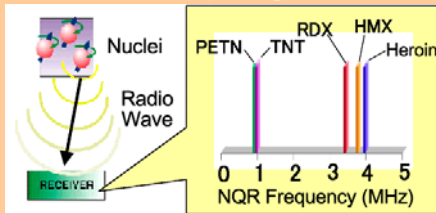
- **Current problems**

false alarms,
and undetectable explosives,...

R&D on next-generation detection technologies using electromagnetic wave

- for **Baggage**

Explosives detection using radio wave technology (2005~2007)

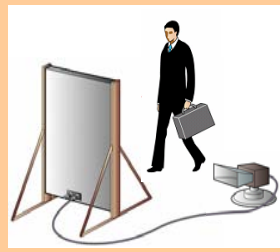


- **Solution**

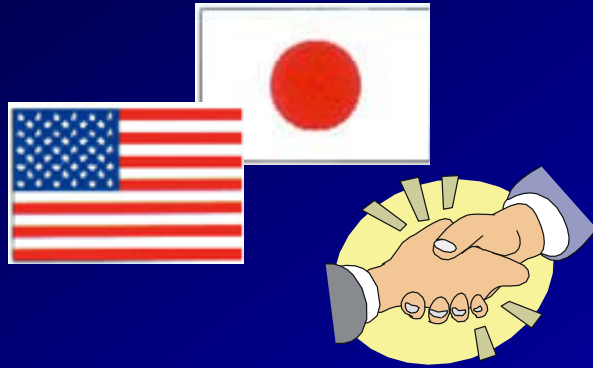
- High-precision identification of explosives
- Reduction of false alarm
- Detection of non-metallic weapons
- Screening without passengers' noticing
- Many passengers screened simultaneously

- for **Passengers**

Screening using millimeter-wave technology (2005~2007)



3. International Cooperation on Transport Security



(1) U.S. - Japan Workshop on Science and Technology for a Secure and Safe Society

- Tokyo Feb. 2004, Honolulu May. 2005
- Coordinate activities of ministries and agencies concerned of both countries
- Sharing information on counter-terrorism technology

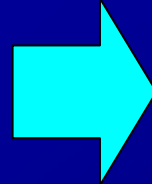
(2) Sharing Technological Information and Close Coordination in Research Agendas

4. MLIT's Initiative : Ministerial Conference on International Transport Security

- Date : 11(Wed) – 13(Fri) January, 2006
- Venue : Tokyo, Japan
- Host : MLIT, Japan
- Participants : G8, Major countries in Asia, Pacific region

Challenges

1. Balancing between Security and Facilitated Transport
2. Overcoming Vulnerability in International Transport
3. Narrowing Gaps in Capacity among Countries and Regions



Future directions

1. Introduction of New Technology and Harmonization of Related Procedures
2. Strengthening Security Measures in Vulnerable Areas
3. Cooperation in Capacity Building in Developing Countries

Thank you