

Activities for Safety Measures on Commuting Road in Shunan City, JAPAN

NAOKI MEYAMA

TOKUYAMA COLLEGE
NATIONAL INSTITUTE OF TECHNOLOGY

School routes around the world
Which type is your country?



By School bus



Walking

2 cases in Japan

1. Networking of sidewalk space maintenance

National Route 2

2. Construction of bicycle pedestrian path

Yamaguchi Prefectural Government Initiatives
At Kikugawa

Case 1 Sidewalk Construction

Before

Narrow space
1.5m

After

Widely up 3.5m



Case 2 Construction of bicycle pedestrian path



Space where
bicycles and
pedestrians can
coexist

Topic provided items

1. History of school route safety measures
2. Traffic safety issues on school routes
3. Solving problems by improving road space
4. Characteristics of Japan's school routes
⇒ Collaboration with soft measures
5. Future outlook

1. History of school route safety measures

1-1. Accident case in Kameoka City, Kyoto Prefecture

1-2. Emergency inspection of school routes

1-3. Development of school route safety measures project

1-1. Accident case in Kameoka City, Kyoto Prefecture

April 23, 2012 Accident in Kameoka City, Kyoto Prefecture

A light passenger car plowed into the line of children and their guardians on their way to school, hitting 10 children.

Three people died and seven were seriously injured.

The cause was driving by a drunk driver.

1-2. Emergency inspection of school

April, 2012

Accident case in Kameoka City, Kyoto Prefecture



Safety measures on school routes have become a social issue.

Carrying out emergency joint inspections of school routes throughout Japan

Measures will be taken at the prefectural and municipal level.
The board of education, police, and road administrators will work together

1-3. Development of school route safety measures project

Three ministries collaborate on safety measures for commuting routes

- ① National Police Agency
- ② Ministry of Land, Infrastructure, Transport and Tourism
- ③ Ministry of Education, Culture, Sports, Science and Technology

1-3. Development of school route safety measures project

事業の展開

Dispatch of school route safety measures advisors

I am one of them too.

Case study in Shunan City Katsuma Elementary School District

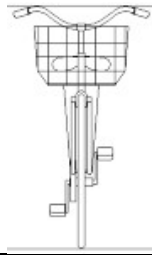
2011

Collision accidents between elementary school and junior high school students on their way to school.

one example
bad case

Collision accident between a bicycle ridden by a junior high school student and an elementary school student walking

Building side



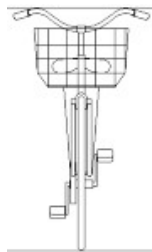
Car Lane

Elementary school student broke his front tooth due to accident

① Pedestrians pass on the opposite side of the Car lane

② Bicycles pass on the Car lane side

Building side



Car Lane

Proper operation of traffic space

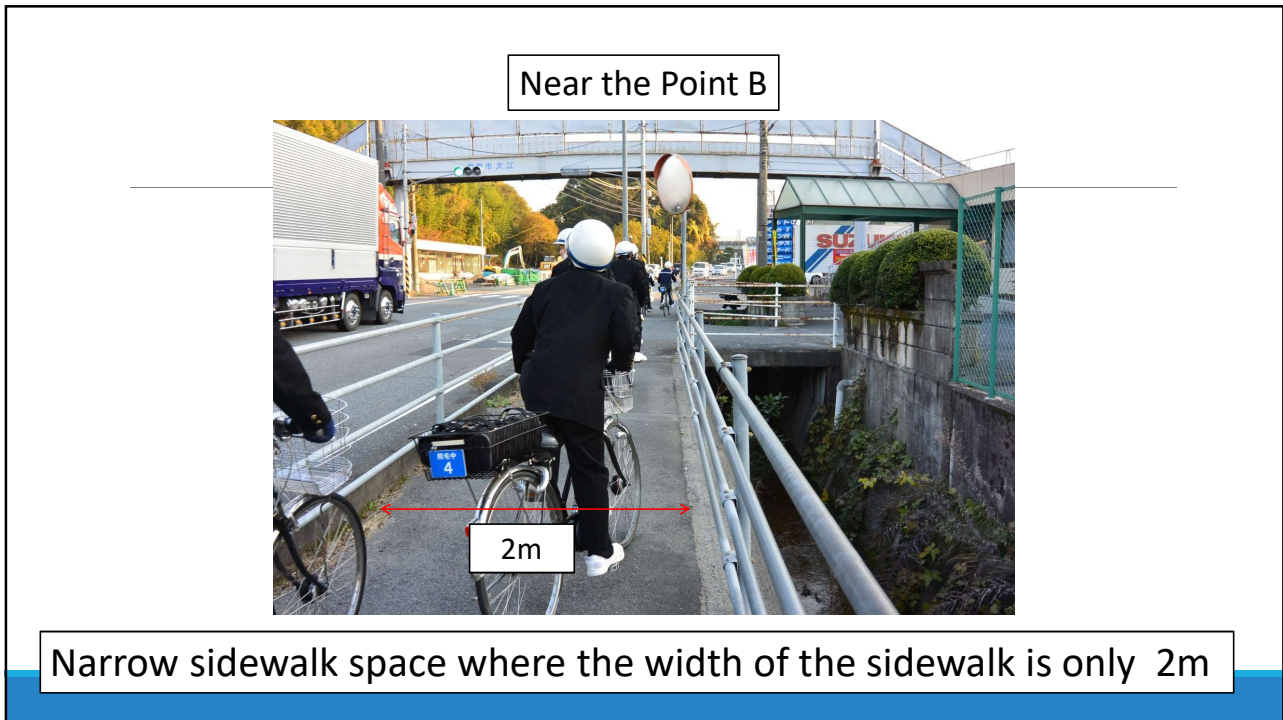
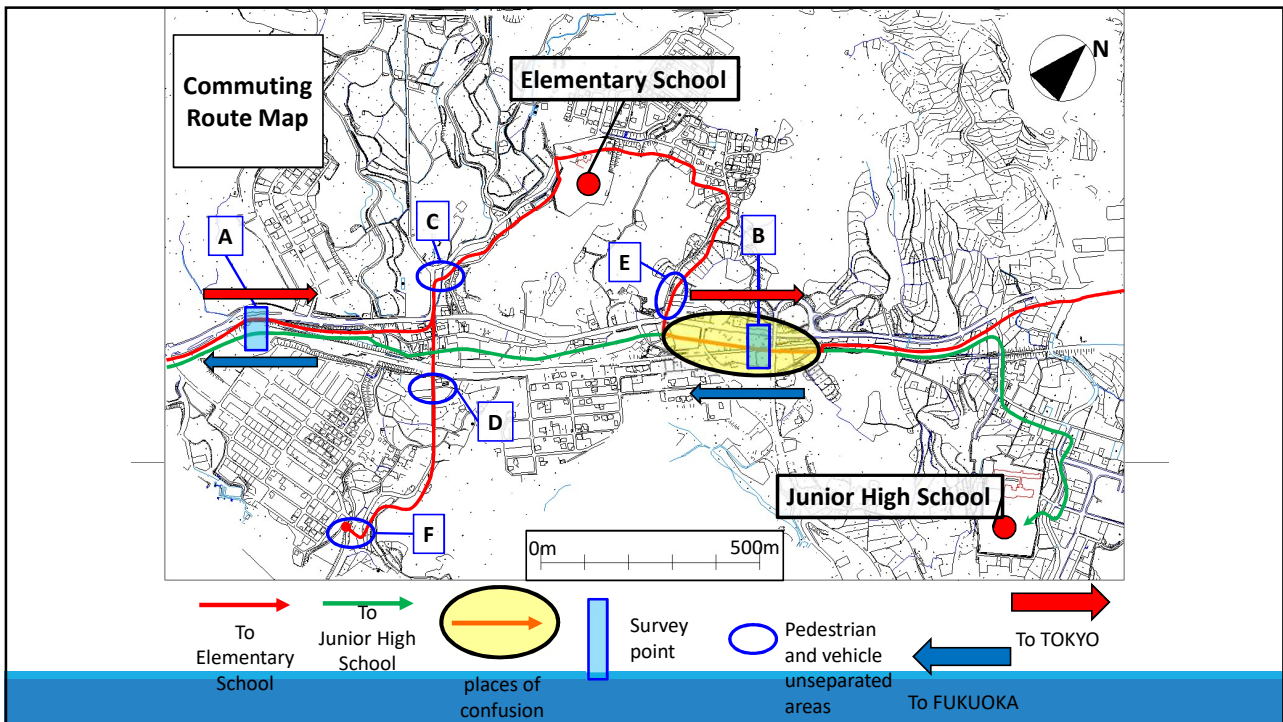
Specific measures against contact accidents on sidewalks has not been done yet.

1-3. Development of school route safety measures project

In Kumage, sidewalk construction on National Route 2 is progressing.

Construction of a 40m bicycle and pedestrian path with a width of 3.5m at Yobisaka, 2016.

Additionally, 650m of maintenance will be extended from 2023.

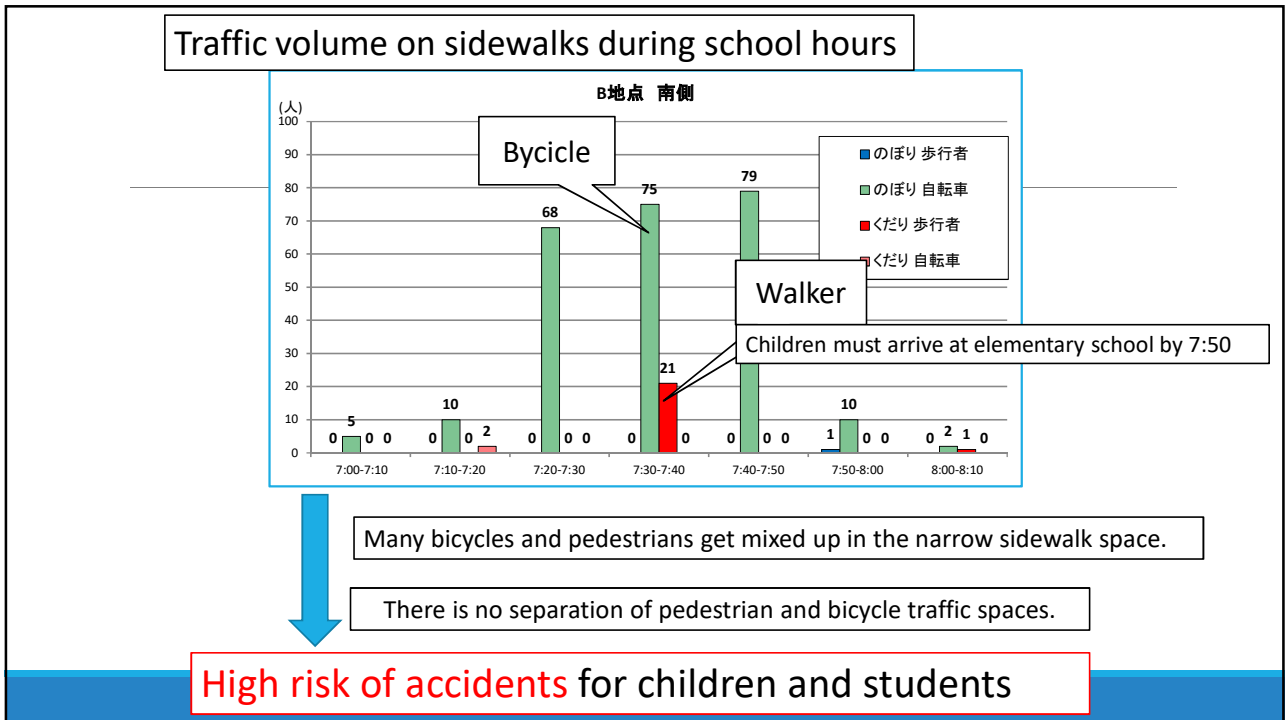
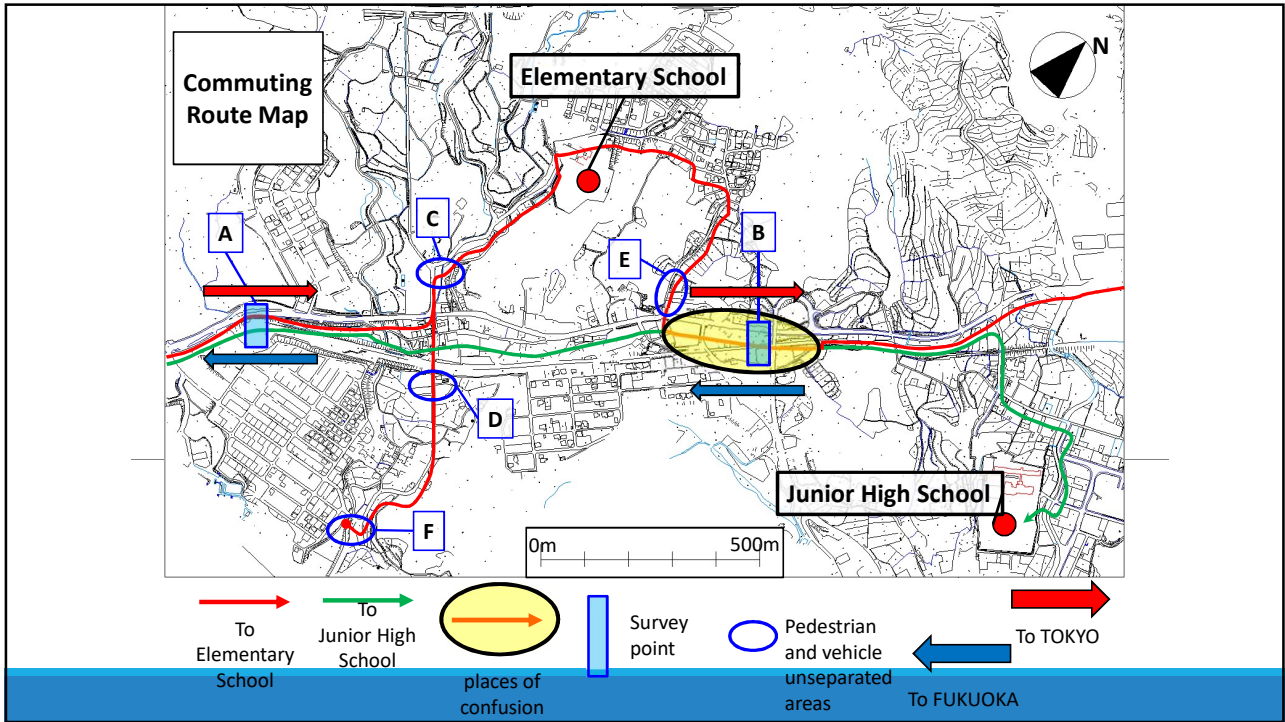


Before : Roadside Pedestrian way Width 2m、40m long



After: Construction for Pedestrian way Width 3.5m、40m long





2. Traffic safety issues on school routes

通学路における交通安全の課題

2.1 Problems with the location of children walking

2.2 Problem with children walking and bicycles coexisting

2-1. Problems with the location of children walking

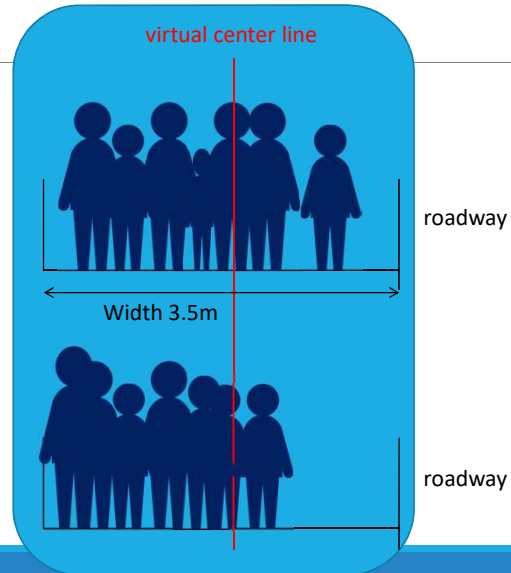


Digitization of video observation results



Before (↑)

After (↓)



2-2. Problem with children walking and bicycles coexisting



Traffic safety instructor



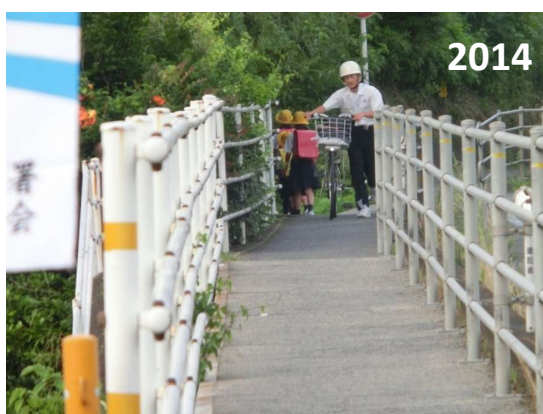
Adhering to suspension

3. Solving problems by improving road space

3-1. Corresponding roadway at National Route 2 Yobisaka

3-2. Correspondence on the prefectural road Shinnanyo-tsuwano Line

3-1. Corresponding roadway at National Route 2 Yobisaka



Widening work

3-1. Corresponding roadway at National Route 2 Yobisaka



road marking

29

3-2. Correspondence on the prefectural road Shinnanyo-tsuwano Line

VISUAL
SEPARATION

red color

road marking

Transverse configuration

ALL 3.5m

Planter なし

Bycycle 1.8m

Walker 1.7m



Width (3.5m)



Lane (1.8m)



Observation point

3-2. Correspondence on the prefectural road Shinnanyo-tsuwano Line



School attendance at Kikugawa Elementary School

Traffic safety instructor

He is Principal, School Manager



4. Characteristics of Japan's school routes

4-1. What makes it possible for children to walk on their own?

4-2. Existence of walking space and its network

4-3. Coexistence of cars, bicycles and pedestrians

4-1. What makes it possible for children to walk on their own?



Presence of volunteer guides



e.g. traverse support

Walking to school in groups along the roadside



35



Residential area in ROME, Italy
No children walking alone

4-2. Existence of walking space and its network

Initiatives in Hofu City, Yamaguchi Prefecture

- Color the inside of the roadside strip with "red color"
- Conducted within a 500m radius from elementary and junior high schools

Elementary school road gutter and poles



gutters and fences



Combination of various measures



4-3. Coexistence of cars, bicycles and pedestrians

Initiatives in Shunan City

- Covering the gutters of narrow roads
- Expanding the passage space for children walking

4-3. Coexistence of cars, bicycles and pedestrians

A road that
has been
around for
400 years

There is no
cover on the
gutter





There is no cover on the gutter



Work was done to cover the gutters.

Old Sanyo
Road
There is no
sidewalk
Do not pass
through the
covered part



Old Sanyo Road
There is no
sidewalk
When you pass
through the
covered part
distance from
the car



4-3. Coexistence of cars, bicycles and pedestrians

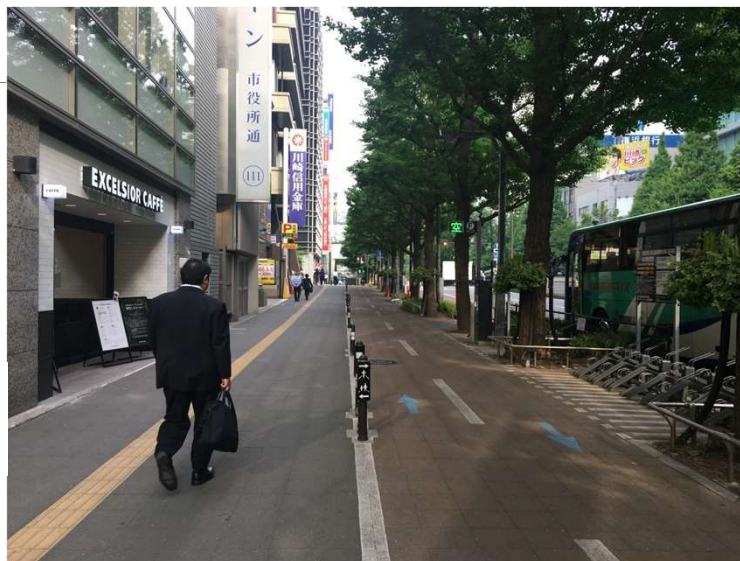
Examples from large cities in Japan and abroad

Separation of traffic spaces

- Separate on the sidewalk
- Separate and expand bicycle traffic space

In front of Kawasaki City Hall, Kawasaki City

Separate on
the sidewalk



Netherlands Amsterdam

Passage
space for
bicycles



5. Future outlook

- Steady road infrastructure development
→ Cooperation between businesses
 - Maintenance and continuation of compatible software
→ Cooperation between measures
- Each of you is responsible for this.

Creating a system to consider the safety of school routes in the community

⇒ Utilization of school management council

Issues → Report, adjust

Utilization of school management council



5. Future outlook

Steady road infrastructure development.

Maintenance and continuation of compatible software.

→ Sharing information and coordinating business and response

Each person is responsible.

Today's speaker's efforts

The web page is

https://buranaoki-tokuyama.com/about_us/

Thank you for your attention.