

Freight handling space in the build-up area (Sapporo City in 2003 - 2004)





Social experiment



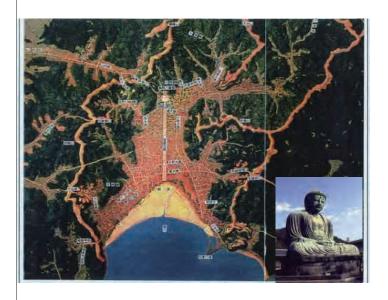
Full implementation freight handling space in 2007

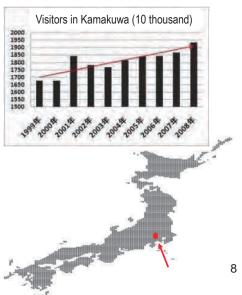
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Case1: Kamakura City, Kanagawa

City profile of Kamakura City

Population: 170,000, Area: 40 km²
Annual Visitors: 19,500,000 (FY 2010)





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Case1: Kamakura City, Kanagawa Social Experiments in Kamakura City 1st Social Experiment "Park and Rail Ride at Shichirigahama" (Nov. 1996) 2nd Social Experiment "Transit System for Public Transport" (May and Jun. 1998) **3rd Social Experiment** "Smoother Transport in Kamakura" (Nov. 1999)

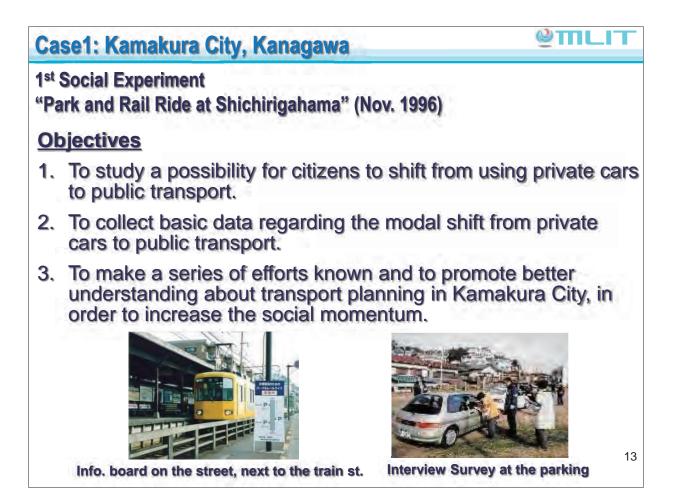
Case	I: Kamakura City, Kanagawa 🔮 🎹 L	.IT
<u>Obj</u>	ectives of Social Experiment	
1.	To promote safe and comfortable urban development by restraining cars and using public transports,	
2.	To promote urban development for coexistence of civil life and tourism, by regenerating transit mall and living environment,	
3.	To develop Kamakura City as a tourist attraction with full of energy and actions.	
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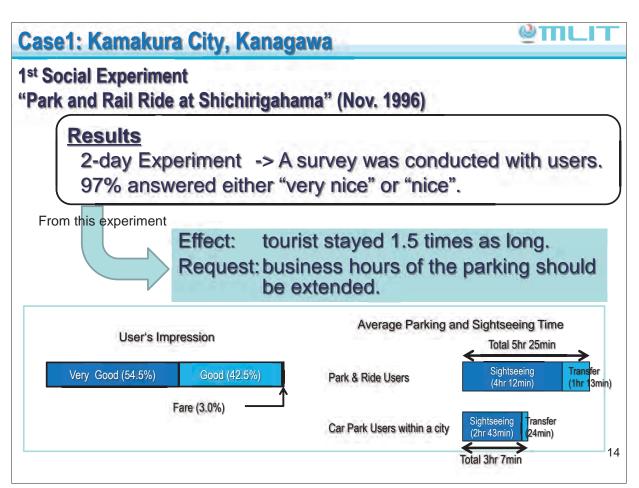
1st Social Experiment "Park and Rail Ride at Shichirigahama" (Nov. 1996)

Overall

- 1. Tourists are requested to park their cars in a parking lot at 4km away from the city center.
- 2. They take trains to get to the city center.
- 3. This project managed to reduce the amount of cars into the tourist sites.

Market





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2nd Social Experiment

"Park and Rail Ride" May 23rd - July 7th in 1998

<u>Overall</u>

A special bus ticket which allows tourists to ride freely five different bus lines in the City for one day was issued, to enhance access to tourist sites spread around in the City. The ticked was valid in the specific areas in the city, with special discount for stores and entrance fees to the temples and shrines.

Objectives

1. To promote modal shift from private cars to public transport.

2. To gain support from citizens and visitors for new types of urban development with foot traffic and public transport.

3. To make people widely know about no. 2.



Exclusive bus lane

Low-floor bus



handouts

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Case1: Kamakura City, Kanagawa

<u>Results</u>

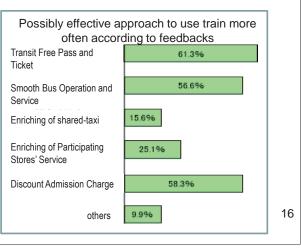
A total of 3,795 people used the ticket. A survey was conducted with the ticket users and the parking users, many of whom approved for local area transportation planning.

The analysis of the survey showed that train use to visit the City would be increased, and modal shift from private cars to public transport would be occurred, if the ticket project was fully implemented.

Therefore, we could say that the 2nd social experiment also made the achievement as expected.

frequency of visit (per year)						
	currently	when fully implemented				
By train	2.94	4.82				
By car	7.14	7.38				

	Those who usually use train	Those who would use train more often
By train	4.0%	70.9%
By car	71.9%	53.4%



The 3^{rd®}Experiment

Smoother Public Transport in Kamakura Area, in Nov. 1999

Overall / Objectives

To confirm the systems in order to make the past two social experiments full scale implementation.

To collect basic data on new policy measures such as Park and Bus Ride, transit mall, share-ride cab, and vehicle guidance by info-service.



Banner in Kamakura St.



parking



Ticket sample



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Share-ride cab

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<section-header> Case1: Kanakura City, Kanagawa

Park and Bus Ride

The system was mostly highly evaluated since there were no major traffic jam, and also the shuttle buses were operated accordingly to users arrival.

Share-ride cab

The 68% of the users evaluated the system as "very convenient", 43% as "should be operated in more routes", and 1% as "not very convenient" respectively.

Vehicle guidance

The efficacy of the system was not fully evaluated since there was not much traffic on Route 134.

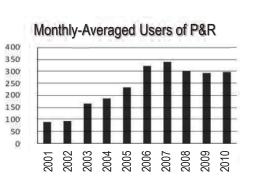
Case1: Kamakura City, Kanagawa

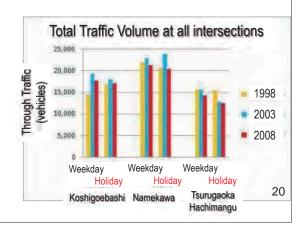
Developments after Experiments

- Five measures were fully implemented in 2001
- Park and Bus Ride in Shichirigahama
- · Special bus ticket
- · Park and Bus Ride in Yuigahama
- · Painted mini-bus
- · Exclusive bus lane in Wakamiya-Oji



Low-floor buses were introduced to the Park and Bus Ride system





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Citizens and business owners are concerned about decrease in customers due to change in traffic flow.

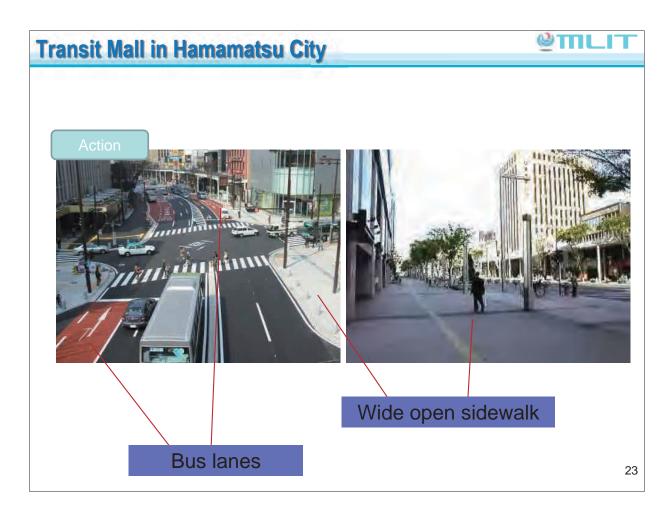


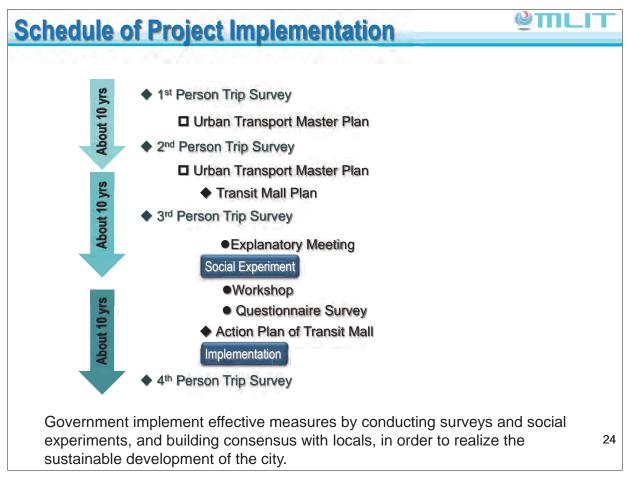
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Steps toward implementation of the measures

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- Meetings with local citizens and related people in order to implement the social experiments.
- Workshops to study the results of the social experiments
- Planning several projects based on the workshops
- Questionnaire survey to local citizens and related people
- Workshops to discuss/examine questionnaire survey
- Finalize the draft final plan and implement





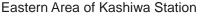
Sustainable effect of the measures by citizens participation



Case2: Kashiwa City, Chiba

Kashiwa City is located in the northwestern Chiba Pref., approx. 30km from central Tokyo. It's one of the major urban cities in the metropolitan area with a populations of 400,000 and an area of 115 km².



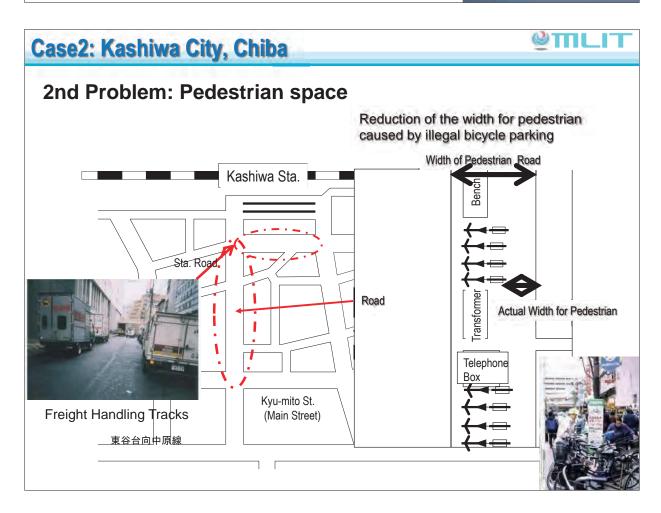




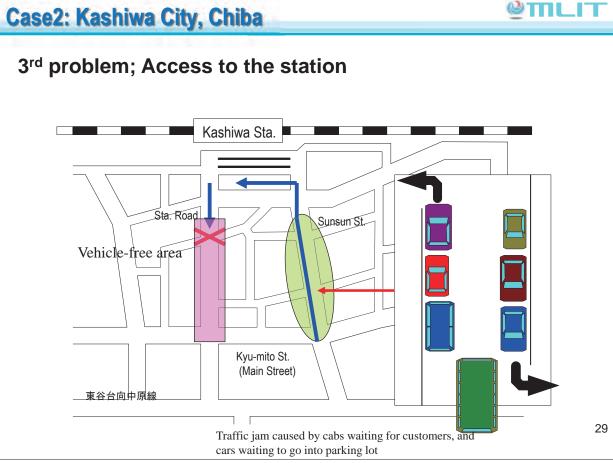
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OTILIT Case2: Kashiwa City, Chiba 1st Problem: Traffic Congestion Kashiwa Sta. Cabs lined up waiting for ••• customers Ρ Sta. Road 🗄 Sunsun St. 🕽 Cars lined up waiting to go into a parking Ρ **V**P **On-street** parking Traffic jam caused by onstreet parking. Kyu-mito St. (Main Street) Traffic jam caused by congestion 東谷台向中原線 ר ך



Case2: Kashiwa City, Chiba



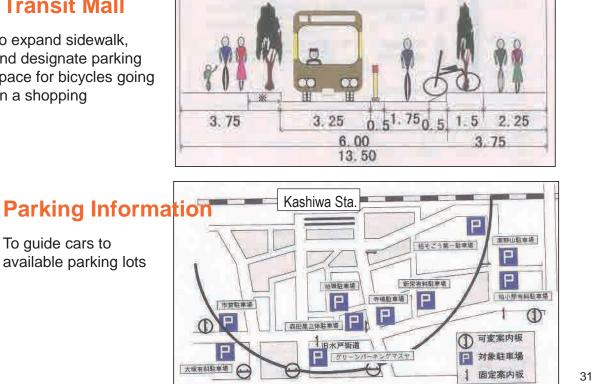
Case2: Kashiwa City, Chiba Overall Objectives: - to facilitate traffic on the east side of the St., - to plan environmental measures - to examine efficacy, problems and impact on environment of the experiment, Operators : Kashiwa City, Traffic Facilitation Research Committee for the east side of Kashiwa Sta. Cooperators: Kashiwa City, Police station, Transport operators, and citizens Period : March 1st – 7th in 2000 Projects : Transit mall, parking information, shared freight handling space, Park & Ride, taxi pool, etc., 30

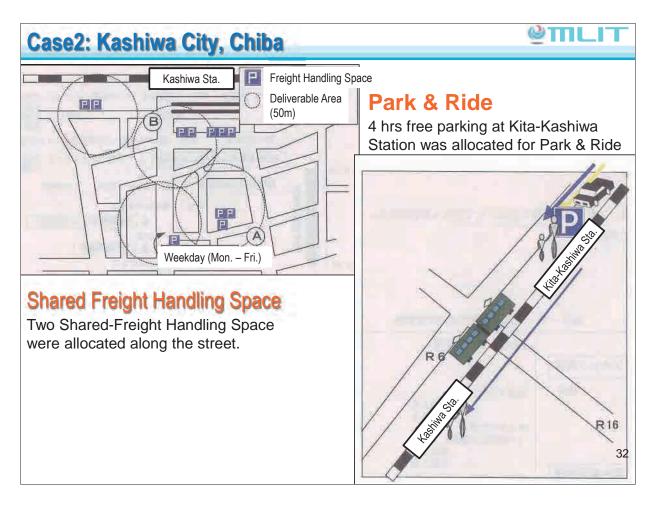
Case2: Kashiwa City, Chiba

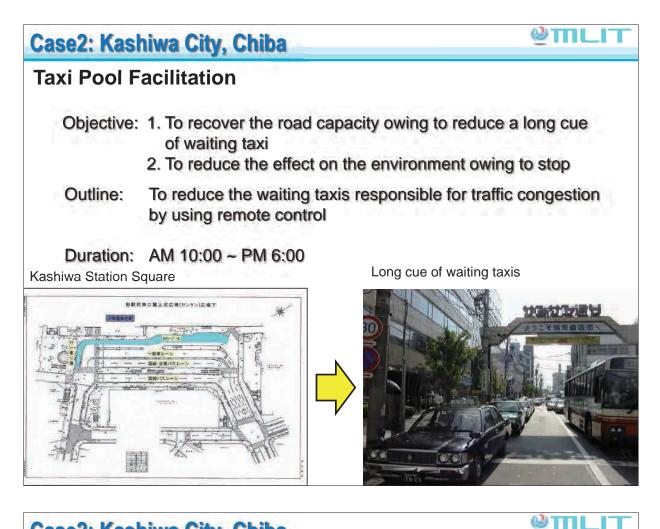
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Transit Mall

To expand sidewalk, and designate parking space for bicycles going on a shopping



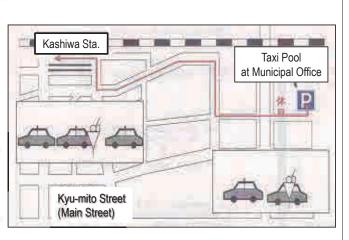


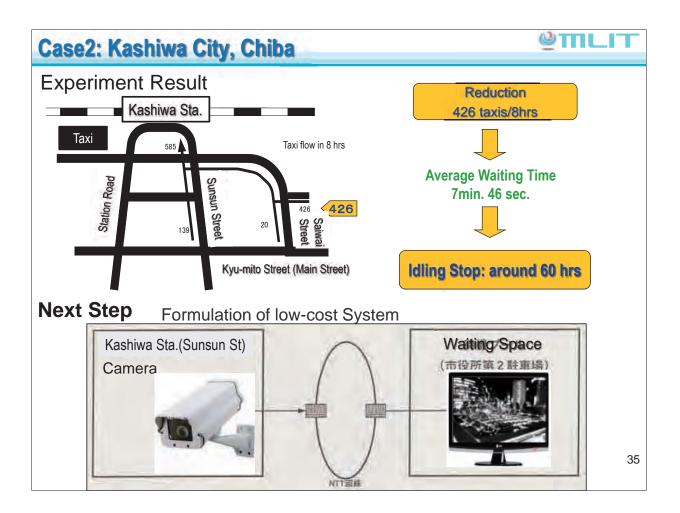


Case2: Kashiwa City, Chiba

Implementation Method

- 1. Parking space of municipal office was used as the tentative taxi pool.
- 2. Guide staff was allocated at the tentative taxi pool and the Taxi Stand of Kashiwa station.
- 3. Guide staff at the Taxi Stand informed the situation of Taxi Stand to Gide Staff at the tentative taxi pool.
- 4. Taxi was delivered depending on space of the Taxi Stand.





Other Social Experiments in Japan

- Mall Introduction for town revitalization at Naoetsu (Joetsu City, Niigata)
- Walking Course in World Heritage, Kohyasan (Kohya Town, Wakayama)
- Human Friendly town development to meet past and future (Shiwa Town, Iwate)
- Town Development focusing Pedestrian Safety (Kamagaya City, Chiba)
- Transit Mall on International Street (Naha City, Okinawa)
- Wide-Area TDM by Package Approach with participation of Enterprises (Osaka City & Higashi Osaka City, Osaka)
- Demand Bus System & Door-to-door Bus Operation by IT (Toyota City, Aichi)
- Safe Environment for Bicycle by Road Space Readjustment (Setagaya Wd. Tokyo)
- Bicycle Lane Experiment in the Center of Green City (Sendai, Miyagi)
- Social Experiment for a Bicycle-Running Community Development through PPP in Itabashi and Toshima Wards (Itabashi Wd. and Toshima Wd., Tokyo)

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 Three Trials to Promote "Eco-Takamatsu Starting with Bicycles" (Takamatsu City, Kagawa) 		
 Social Experiment for Logistic Community Development in Hiroshima (Hiroshima City, Hiroshima) 		
 Shibuya Smart Parking Social Experiment 2002 – Locally Integrated IT Car Navigation Experiment (Shibuya Wd., Tokyo) 		
 Combined Experiment of Terminal Logistic Measures and Parking Management in Shibuya District (Shibuya Wd., Tokyo) 		
 Advanced Social Experiment on Provision of Parking Information, etc. in the IT Society (Nagoya City, Aichi) 		
•Experiment on Verification of TDM by Enhancing the Transportation Access around Niigata Stadium (Niigata Pref., etc.)		
•Experiment on Verification of TDM in Kawanishi City and Inagawa Town (Kawanishi City and Inagawa Town, Hyogo)		
•Experiment on Verification of TDM by Utilizing 100-yen Bus in Yokohama MM21 Area (Yokohama City, Kanagawa)	37	
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Mall Introduction for town revitalization at Naoetsu (Joetsu City, Niigata)

Background

- > The Project Area has lost vitality in the motorized Society.
- A significant reduction of Passengers of Naoetsu Railway Station is envisaged by opening of "Hokuriku Shinkansen (Bullet Train)"
- The project Road is a busy main street but with insufficient width to secure safety of pedestrians and bicycle passengers.

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Walking Course in World Heritage, Kohyasan (Kohya Town, Wakayama)

- Kohya is a model town of revitalization by tourism, attracting many tourists due to designation as a World Heritage.
- The central area has lost energy and then population, mainly because of policies trying to cope with motorization.
- Housing stocks in the town center have been sprawling, mainly by the young generation.



Human Friendly town development to meet past and future (Shiwa Town, Iwate)

- The project area has been developing roads pedestrians but for vehicles and then spaces for pedestrians are insufficient.
- Pedestrians cannot walk safely, without enough waling spaces.

Human Friendly town development to meet past and future (Shiwa Town, Iwate)

Project

The central shopping street is narrow with no pedestrian spaces and it is planned to reduce carriageway width and install pedestrian walks, restricting large vehicles except buses and installation of humps to control running speed.



Town Development focusing Pedestrian Safety (Kamagaya City, Chiba)

- The project area has been developing roads pedestrians but for vehicles and then spaces for pedestrians are insufficient.
- Especially during rush hours, mixed traffic of cars, bicycles and pedestrians are forced to move in dangerous situations.
- > Consequently, traffic accidents are prone in the area.



Transit Mall on International Street (Naha City, Okinawa)

Background

- The mid-town are has been losing a centering force due to the progress of motorization, moving of houses and shops to the suburbs.
- \succ The project area is suffering from chronic traffic congestion.
- Planning a full mall and a transit mall in the end, some new transport measures are needed to connect the area with a monorail service recently to open.

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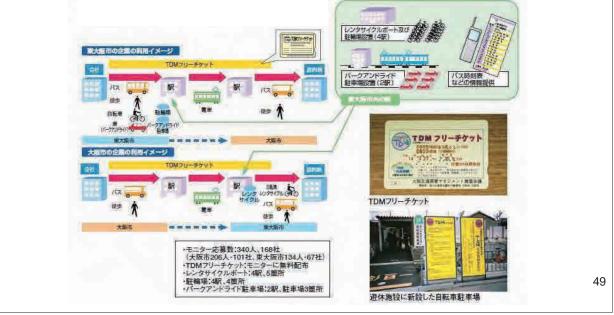
Wide-Area TDM by Package Approach with participation of Enterprises (Osaka City & Higashi Osaka City, Osaka)

- On the road connecting the two areas, more than 55% of vehicle traffic are for business purpose.
- By converting such traffic with business purposes to public transport, Mitigation of traffic congestion and environmental improvement are planned.

Wide-Area TDM by Package Approach with participation of Enterprises (Osaka City & Higashi Osaka City, Osaka)

Project

To encourage the business trip makers to use public transport instead of using a private car, It is planned to issue a "TDM" ticket available for railways, buses, park and ride, parking of cars and bicycles and rent-a-cycle.



Demand Bus System & Door-to-door Bus Operation by IT (Toyota City, Aichi)

- No public transport areas has been expanding in the city and the "transport poor" such as the aged and non-car users feeling inconvenience are rapidly increasing.
- A new bus service was introduced but people feel that its service level is not enough high and want to know their time to wait for bus arrival.

Demand Bus System & Door-to-door Bus Operation by IT (Toyota City, Aichi)

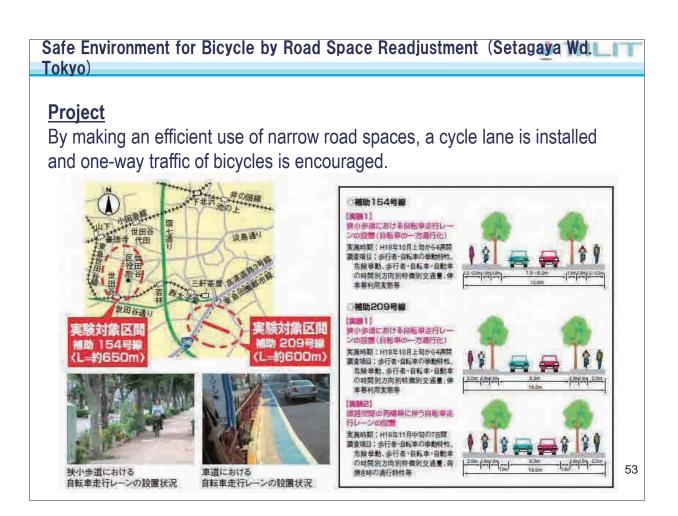
Project

Bus stops of "City Center Bus" are installed at the front gate of large public facilities, hospitals and shops and a simplified demand-bus system is introduced at bus stops to meet passengers' needs.



Safe Environment for Bicycle by Road Space Readjustment (Setagaya Wd. Lorr Tokyo)

- > Frequent accidents occur involving pedestrians and cyclists.
- Most roads in the area are too narrow to newly install spaces foe cyclists.
- Safer environment is needed for pedestrians and cyclists by utilizing existing road spaces.



Bicycle Lane Experiment in the Center of Green City (Sendai City, Miyagi)

- People are becoming conscious of convenience of bicycles in the urban area and bicycles are expected to play more important role.
- On the other hand, accidents of bicycles have been increasing.
- Abandoned bicycles are increasing without stop and causes environmental problems and hindrance of urban functions.
- A clear vision should be established on bicycles in urban area, taking opportunity of subway opening.

Bicycle Lane Experiment in the Center of Green City (Sendai City, Miyagi)

Project

On the overcrowded sidewalks with pedestrians, pavement markings to separate bicycles and pedestrians were experimented, and bicycle lanes were installed on the small streets in the bicycle peak hours.



Social Experiment for a Bicycle-Running Community Development through PPP in Itabashi and Toshima Wards (Itabashi Wd. and Toshima Wd., Tokyo)

- This area is closely connected with the sub-center through the railway and road network, and many bicycles are conveniently utilized.
- While the bicycle running environment is being improved, construction is still insufficient and illegally parked bicycles are becoming an object of public concern.
- It aims to develop an overall bicycle-running community through PPP (Public-Private-Partnership).

Social Experiment for a Bicycle-Running Community Development through PPP in Itabashi and Toshima Wards (Itabashi Wd. and Toshima Wd., Tokyo)

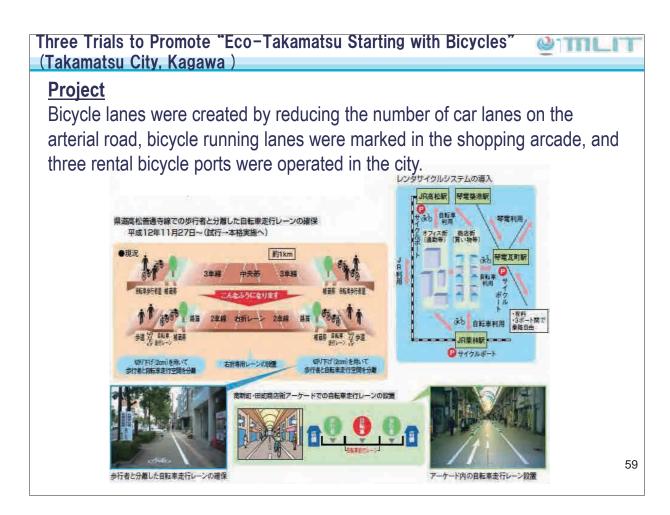
Project

In each ward, bicycle lanes were created by reducing 3 car lanes to 2 lanes on the roadway, or by separating bicycles and pedestrians with white markings on the pavement.



Three Trials to Promote "Eco-Takamatsu Starting with Bicycles" (Takamatsu City, Kagawa)

- This city has an environment with a great utility of bicycles, and the bicycle ownership ratio is much higher than the national average.
- It is ranked as the worst in the number of bicycle accidents; hence, it is necessary to secure safe and comfortable space for pedestrians and bicycles and to enforce the bicycle running rules as well as to enhance the manners.

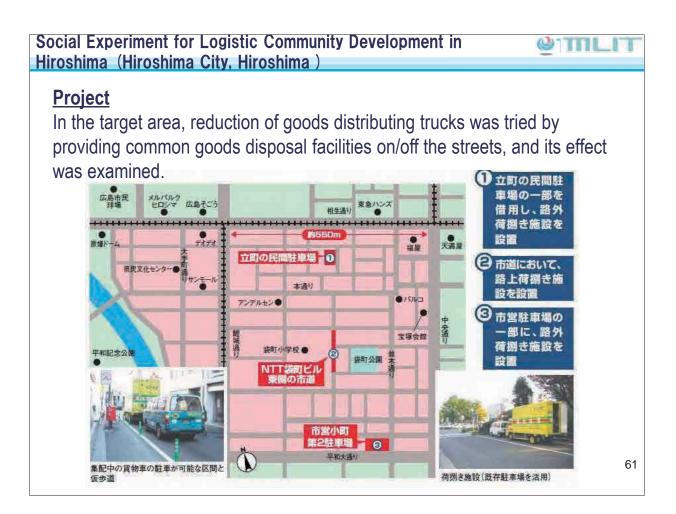


Social Experiment for Logistic Community Development in Hiroshima (Hiroshima City, Hiroshima)

Background

- Due to the partial amendment of the Road Traffic Act, the control over on-street parking has been tightened.
- Though some measures are taken for efficient goods distribution partially in the central area, they are not sufficient yet.
- To cope with this situation, a "social experiment" was made to study the countermeasures on the initiative of the relevant agencies.

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Shibuya Smart Parking Social Experiment 2002 – Locally Integrated IT Car Navigation Experiment (Shibuya Wd., Tokyo)

- In the conventional parking information/guidance system, necessary information may not have been provided for users.
- By registering users' information beforehand, users were guided to the most appropriate parking area through the car navigation function, aiming at reduction of on-street congestion and realization of smoother road traffic.

Shibuya Smart Parking Social Experiment 2002 – Locally Integrated IT Car Navigation Experiment (Shibuya Wd., Tokyo)

Project

Parking guidance by utilizing car navigation system and parking occupancy information system and efficient use of parking area through collaboration of the parking operators and local shopping streets were examined.



Combined Experiment of Terminal Logistic Measures and Parking Management in Shibuya District (Shibuya Wd., Tokyo)

- Illegal on-street parking in the city reduces the traffic capacity and menaces the safety, greatly influencing occurrence of traffic accidents.
- As most vehicles parked on the streets in the special district of Tokyo are illegal, measures against on-street parking vehicles need to be promoted in order to enhance the road traffic safety.

Combined Experiment of Terminal Logistic Measures and Parking Management in Shibuya District (Shibuya Wd., Tokyo)

Project

Suspension of metered parking, provision of on/off-street common goods disposal facilities by utilizing the existing parking facilities, guidance of parking vehicles to the parking area, and short-term free parking measures were implemented in order to remove illegally parked vehicles and goods distributing vehicles, and its effect was examined.



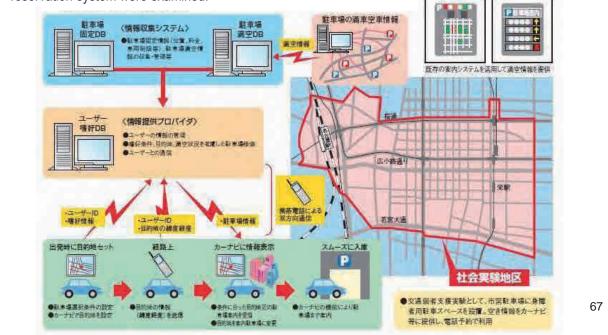
Advanced Social Experiment on Provision of Parking Information, etcentration in the IT Society (Nagoya City, Aichi)

- Precise parking guidance is important to reduce traffic congestion, and parking guidance through car navigation is currently being realized.
- Detailed parking information is difficult to be utilized efficiently because it is managed separately by the car navigation providers, etc.
- Automatic provision system of parking information which is suitable to each user's preference will be realized through car navigation with communication function, etc.

Advanced Social Experiment on Provision of Parking Information, etc. in the IT Society (Nagoya City, Aichi)

Project

Effects of guidance to the most appropriate parking facilities through car navigation with communication function in order to reduce on-street parking vehicles and queues waiting to enter parking facilities in the central area, as well as provision of parking availability information for the handicapped and the reservation system were examined.



Experiment on Verification of TDM by Enhancing the Transportation Access

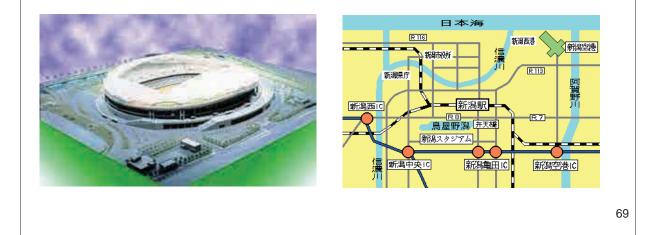
Background

When games were held right after completion of the stadium, the shuttle bus transportation did not function well and traffic congestion around the stadium occurred. So, it became necessary to develop a smooth transportation system for the spectators of the game.

Experiment on Verification of TDM by Enhancing the Transportation Access around Niigata Stadium (Niigata Pref., etc.)

Project

When games were held at Niigata Stadium, smooth traffic around the stadium was attempted by implementing park & ride, operation of onecoin shuttle buses, information sharing system among the relevant agencies.



Experiment on Verification of TDM in Kawanishi City and Inagawa Town (Kawanishi City and Inagawa Town, Hyogo)

- Traffic congestion and environmental deterioration are feared due to increasing commuting vehicles from the rapidly growing new town to the center.
- It is forecasted that the future road extension will increase the traffic from the new town to the center.

Experiment on Verification of TDM in Kawanishi City and Inagawa Town (Kawanishi City and Inagawa Town, Hyogo)

Project

Traffic congestion alleviation by extending the public transport vehicle priority system and by expanding the VICS, etc. and environmental improvement by introducing DPF and low-sulfur diesel for the buses were implemented.





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Experiment on Verification of TDM by Utilizing 100-yen Bus in Yokohama MM21 Area (Yokohama City, Kanagawa)

- Vehicles concentrating on the holiday tourism places are chroni cally causing traffic congestion, also hampering other traffic goi ng to/from the city center.
- On holidays, vehicles are coming from outside, while around 20% are vehicles traveling within the city center.

Experiment on Verification of TDM by Utilizing 100-yen Bus in Yokohama MM21 Area (Yokohama City, Kanagawa)

Project

Alleviation of traffic congestion and enhancement of punctuality and speed by introducing PTPS, and reduction of illegal on-street parking and stopping vehicles and wandering vehicles were implemented.



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