What to think about in collaboration with residents for better transport?

CIRIEC CONGRESS WORKSHOP C : Public / Social Economy Partnerships 13 June 2022 in Valencia, Spain

Shinichi SAITO

Ph.D. of Commerce, UNIVERSITY OF SHIMANE, JAPAN

Why public transport matters?

- Private cars are the most popular mobility in rural areas
- However, some people do not have mobility
 - Students and the elderly
- Prepare for the future
 - When people are aging and can no longer drive
 - Public transport services may not be available when necessary.



Evolution of Transport Planning

	Road Transport Act	Public Transport Revitalisation Act	
	2002	2007, 2014	2020
Transport mode covered	Bus	Mainly <mark>bus</mark>	Mobilize all transport resources in the area
Transport planning	None	Municipalities can develop plans	Mandatory planning by local governments
Council	Voluntary Councils		Legally binding councils
Council members	Municipalities, The Ministry, Bus operators, and others		Municipalities, The Ministry, Police, Representatives of Residents, and others

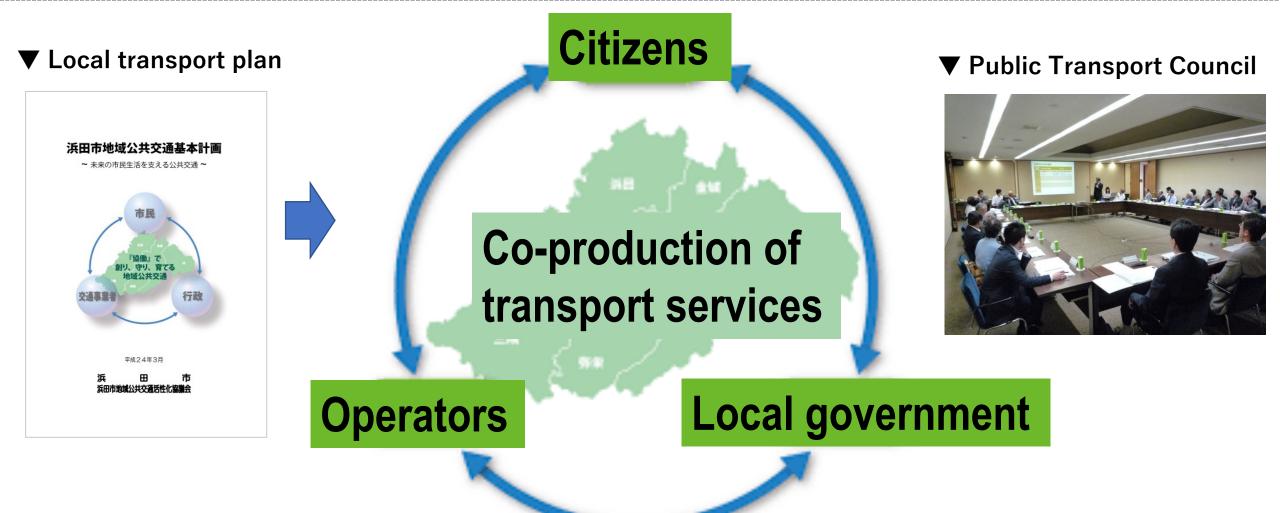
Hamada City, Shimane prefecture

920Km

Population : 57,000 Area: 690 km²

TokyoPopulation :9.7millionArea: 627 km²

Collaboration with Stakeholders



 In the transport plan, they say they will provide transport services through co-creation, co-maintenance, and co-fostering.

Background of research

Promotion of Partnerships

 Multiplying partnerships between the citizens, SSE organizations, and the public sector

Challenges and Issues

 While there is an established body of research on the changing nature of government and third sector relationships, there still exists a scope to investigate the more wide sets of partner constellations in depth. (Bance ed, 2020).

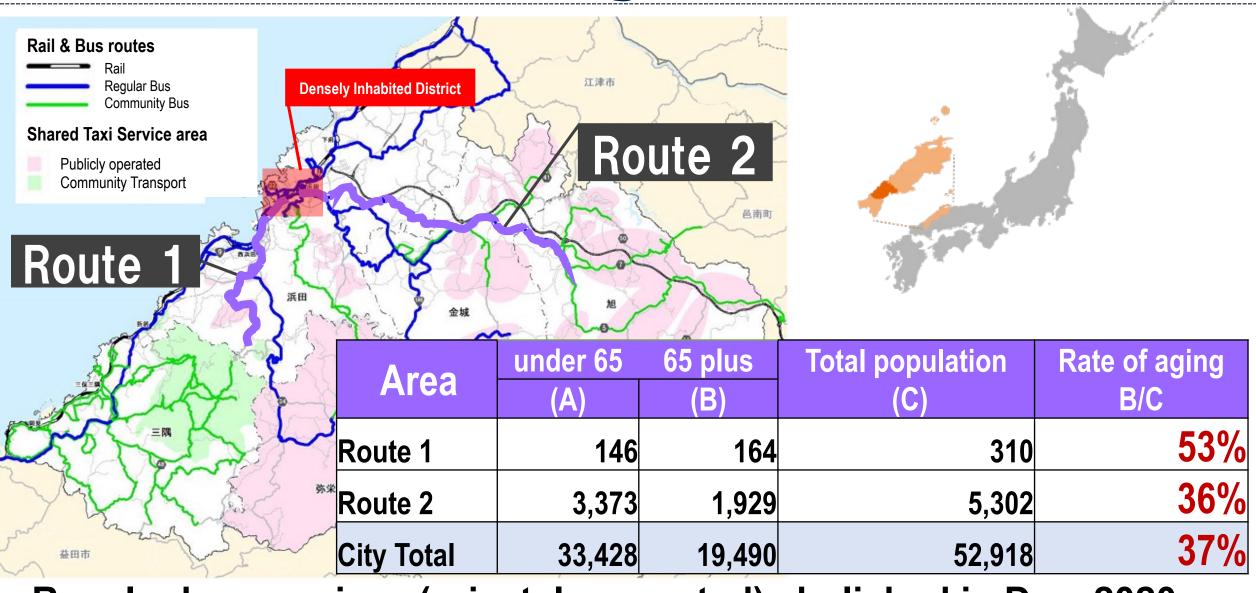
Promotion of Partnerships

 The Japanese government has introduced partnerships and collaboration systems in the Transport sector

Challenges and Issues

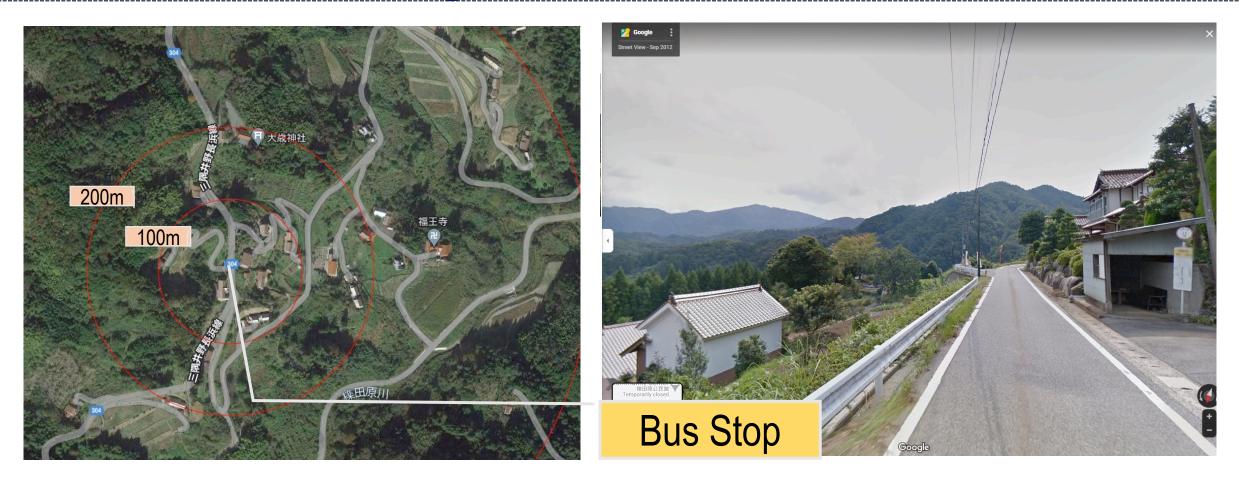
 Does Public Involvement itself guarantee to deliver services they need?

Survey Area



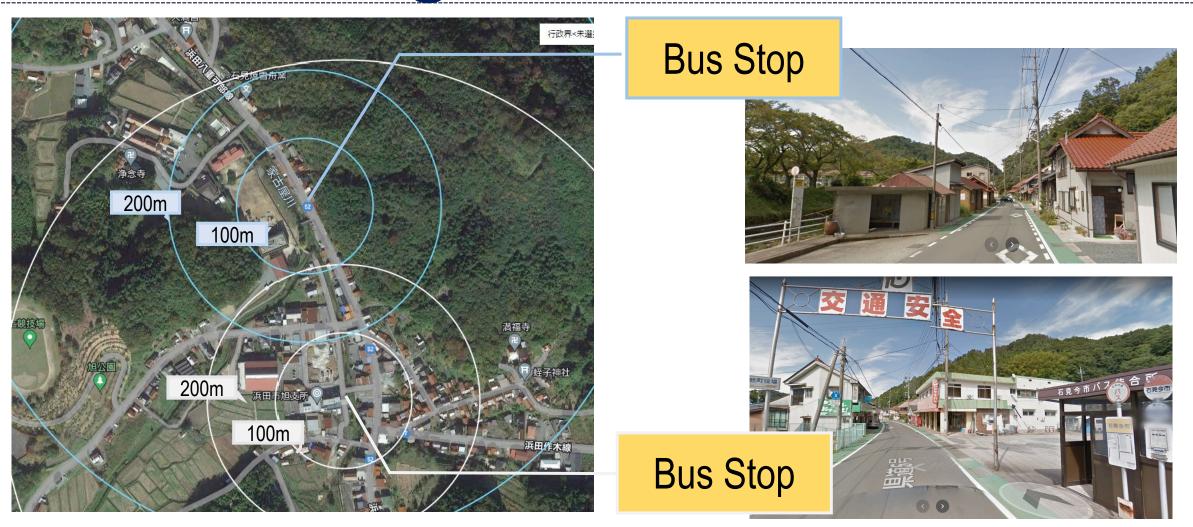
Regular bus services (privately operated) abolished in Dec. 2020

Image of the area 1



Several houses exist around the bus stop.

Image of the area 2



 Several bus stops exist in the village centers along the main road

Alternative means of Transport



Community Bus

- Regular bus service operated by the city
- Fixed routes, fixed timetables, and designated stops
- Frequency
 - Daily
 - approx. five services/day
- Fare: 200Yen



Shared Taxi

(operated by the city)

- Unlike regular taxis, they run according to the schedule and designated destinations.
- Reservation required
- **Frequency**
 - 1~3days/week (Non-daily)
 - Reservation required
- Fare: 500Yen



Community Transport

- Shared taxi service provided by the volunteers of residents and NPOs
- Frequency:
 - Weekdays
 - Reservation required
- Fare : approx.200Yen

(based on the actual fuel cost)

Questionnaire survey

Jul. 2020

Survey period

Method for distribution

Method for collection

The number of copies distributed

The number of copies collected (%)

Purpose of the survey

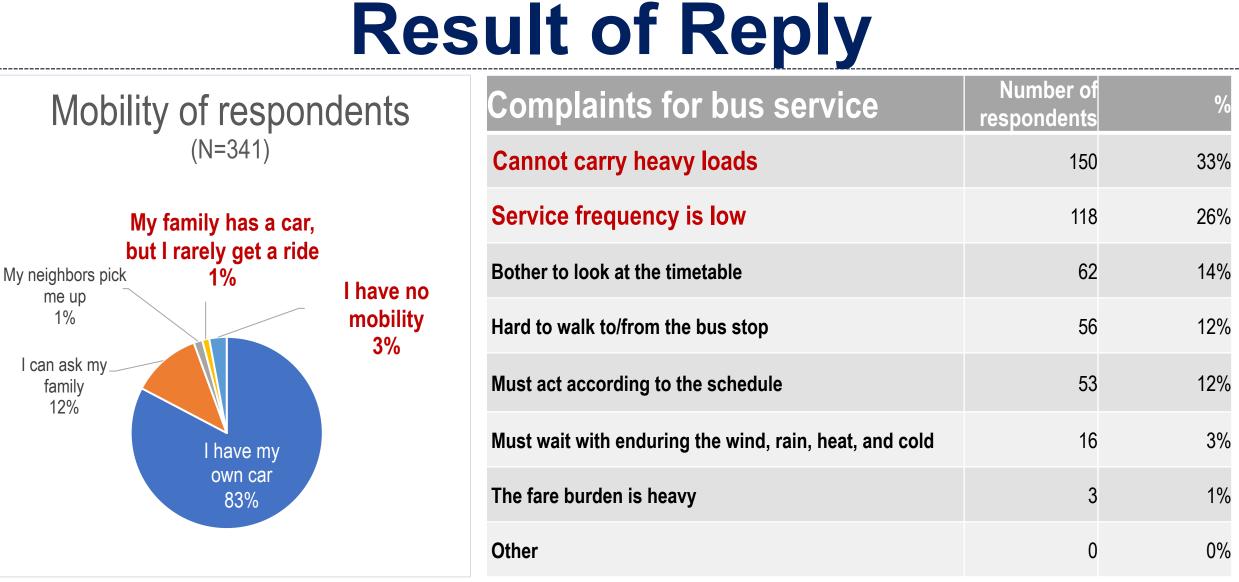
Distributed to all households through neighborhood associations

Collected by mail

949

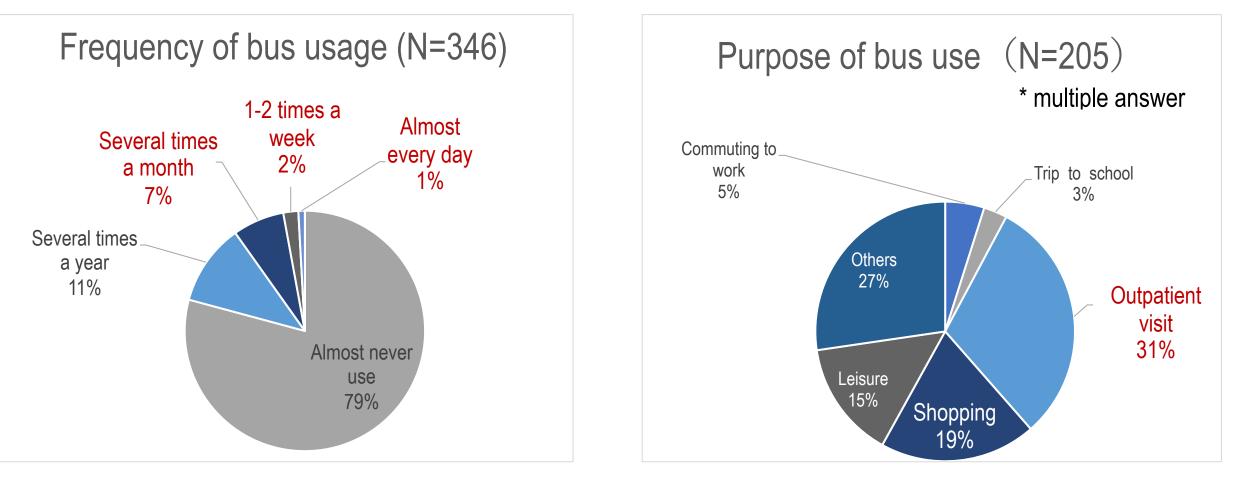
347 (36.6%)

Analysis of residents' preference for transport



- A certain number of people who do not have mobility
- People think the bus service is inconvenient

Result of Reply



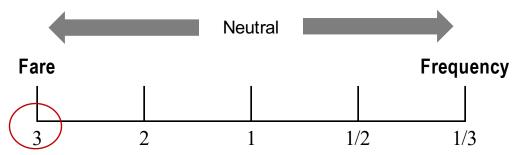
- Those who do not have mobility
 - tend to use the bus relatively often
 - use the bus for outpatients and shopping

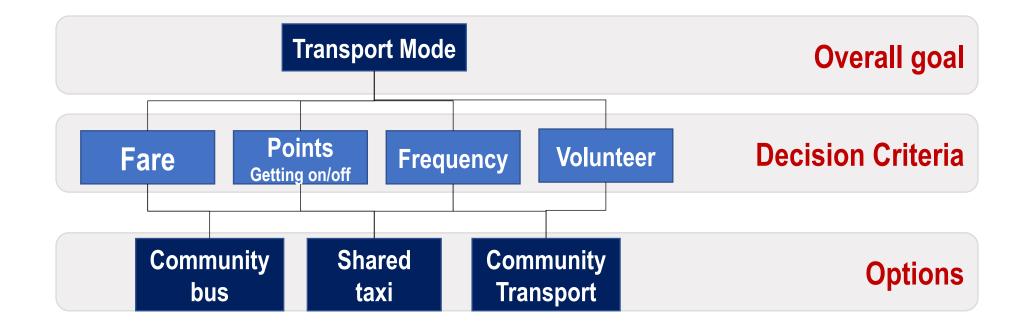
AHP (Analytic Hierarchy Process) Analysis

- AHP has been applied mainly in the field of operations research
- AHP models the decisionmaking problem as a hierarchy.

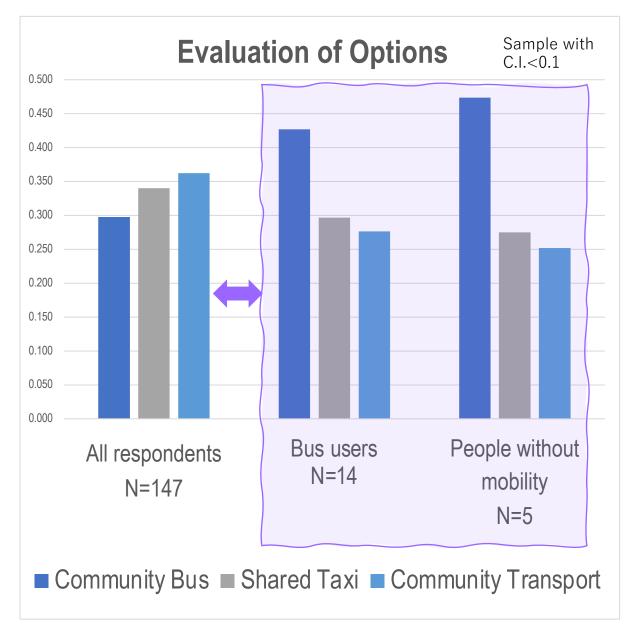








Summary of Analysis

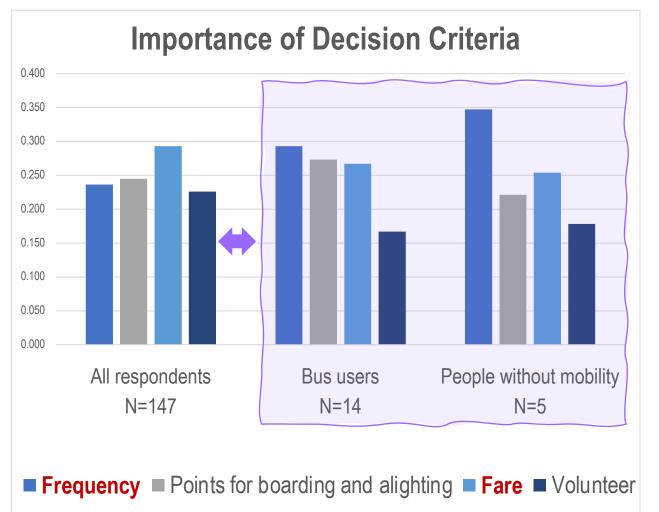


1. Respondents as a whole (most people have their own car)highly evaluated "Community Transport"

2. Bus users

(most people without mobility) highly evaluated the "Bus"

Summary of Analysis



- 1. The results show that "the amount of fare burden" is the most important for all respondents.
- 2. Bus users (most people don't have mobility) emphasize the "Frequency"
- 3. For them, the importance of a "volunteer-based system" is low.

Transport needs are different between private car users and public transport users.

Implications

- Transport planning in collaboration with citizens has become widespread
- Without listening to the voices of the people who use it, we cannot plan the appropriate means of transport.
- Perfunctory public involvement is not good enough for anyone

17

• For better transport planning, it is necessary to check whether they can grasp the needs of people who need transport.