

# The Possibility of New Bus Lines to Improve Mobility for the Elderly in Okayama

## Introduction

Motorized Society

**86.8%** of Okayama households have at least one car.

Transportation for **the elderly** who can't drive are **limited**.

The largest group of bus users

**2742 Okayama Sozan High School**

User's degree of satisfaction with the buses has remained at **18%**.

Hypothesis

There are some areas where **bus lines don't exist** although **there is a lot of traffic**.

## Identify the locations that are difficult to access for elderly people

Using ①the data of traffic ②distribution of roadside shops ③distribution of aging population

## Methods and Results

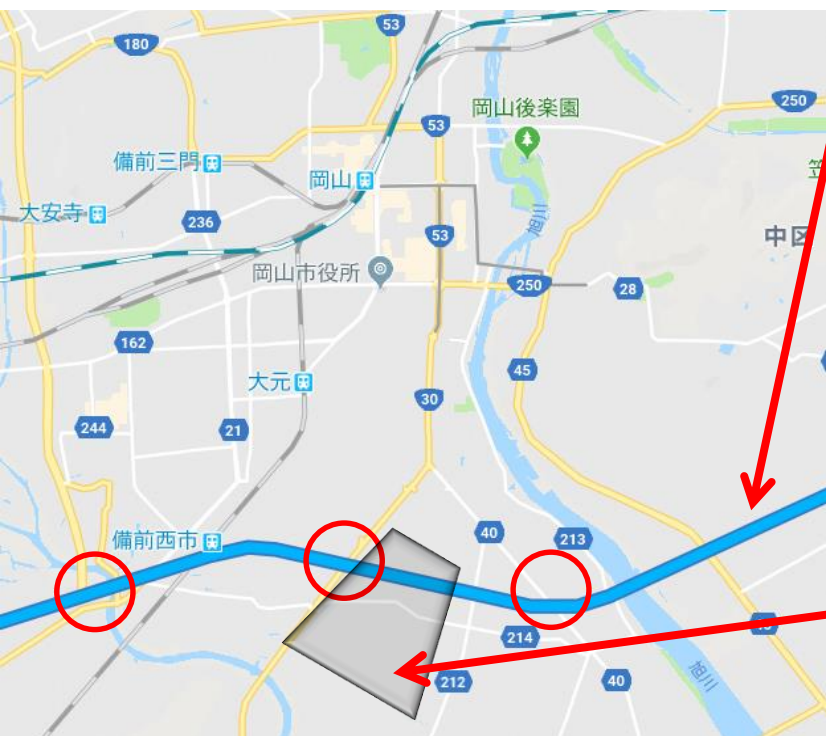


①The area which has **the heaviest traffic**

②The good location for **roadside shops**

Most people over 60 use **cars** to go **shopping** and to do business

③The area where **many elderly people live**



### ①Route 2

- ✓ The main road which connects Osaka and Fukuoka and
- ✓ **Local buses don't run.**
- ✓ **The population has been increasing** consistently along Route 2.
- ✓ There are **heavy traffic jams**, especially at **intersections** where other roads meet.

### ②Population areas and intersections

- ✓ Route 2 and other national highways or prefectural highways meet.

### ③Hosen school district

- ✓ **The fourth highest of elderly people** of the 92 school districts in Okayama City live in.
- ✓ Many elderly people live in areas where public transportation has not been developed.
- ✓ There is a great demand for new bus lines along Route 2.

## Conclusion

### Offer bus lines along Route 2

- Enable the elderly to **go shopping more conveniently**
- Provide the environment for the elderly that is easy to go out

### Problems

- Different generations who use Route 2 have various destinations.
- It's not clear whether elderly people use roadside shops for shopping.

We should **meet the needs** of the elderly ,

- Marketing research in roadside shops
- The distribution of facilities that many elderly use

## References

平成26年全国消費実態調査 全国 家庭収支に関する結果 総世帯

Retrieved from <http://www.e-stat.go.jp/dbview?sid=0003121607>

湖城琢郎, & 吉川徹. (2017). 都市住民の人口分布と幹線道路による立地ポテンシャルを用いた小売業分布分析 地方都市を迂回するバイパスに着目して. *日本建築学会計画系論文集*, 82 (742), 3181-3191.

平成30年度9月末岡山市小学校区別住民基本台帳世帯数・5歳階級別人口

Retrieved from [www.city.okayama.jp/contents/000241164.xls](http://www.city.okayama.jp/contents/000241164.xls)