Proper feeder traffic and traffic plaza to foster TOD and railway-ridership



Population and Railway Ridership

- Population around the stations is important for railway ridership.
- However, some areas with almost same population show different railway passenger number. (See the red dotted line below)



source: 2018 Tokyo Metropolitan Area Person Trip Survey on Railway Passenger, 2020 Census

Railway Passengers and Bus Ridership Share

• Higher bus ridership share shows higher railway passengers



source: 2018 Tokyo Metropolitan Area Person Trip Survey on Railway Passenger

Railway Passengers and bus service as a feeder transit

Higher Railway Passenger with Higher Bus Share

Lower Railway Passenger with Lower Bus Share

| Item | Tama Plaza | Azamino | Aobadai | | Item | Eda | Fujigaoka | Tana |
|------------------------------|-----------------------|-----------------|------------------|----------|------------------------------|------------------|------------------|------------------|
| TOD Type | Type3 (local) | Type2 (node) | Type3 (local) | + +ŀ | TOD Type | Type3 (local) | Type3 (local) | Type3 (local) |
| Population (2km radius) | 149,737 | 134,070 | 129,555 | <u> </u> | Population (2km radius) | 122,874 | 124,643 | 121,259 |
| | | | Hiah | | | | | Low |
| Railway Passenger | , [′] 77,936 | 79,244 | 86,164 `\ | | Railway Passenger | , 28,879 | 30,760 | 10,478 |
| Bus Route | 12 | 14 | 21 | | Bus Route | 5 | 2 | 3 |
| Bus Share | 22.1% | 32.7% | 37.5% | | Bus Share | 8.2% | 5.8% | 5.4% |
| Traffic Plaza (Bus Berth) | Normal (6) | Normal (5) | Normal (10) | | Traffic Plaza (Bus Berth) | Normal (2) | Normal (2) | No (-) |

Feeder Transportation and Traffic Plaza

- Railway passenger numbers vary even with the same population level. More passenger with more bus routes and proper traffic plazas.
- This indicates that a wider catchment area and more bus routes will enhance railway ridership, and to accommodate these buses, proper traffic plazas are necessary.

For important stations, **proper traffic plaza and feeder transit system like buses are important**.

TOD is an idea how these areas should be developed and need to be planned according to the characteristic of the area.

%existing population and growth projection, surrounding land use, type and hierarchy of the station, and more.

Station Surrounding Map

Aobadai

Eda Station





source: Geospatial Information Authority of Japan

