

# Mobility history, life events, and choice behavior of disaster-affected individuals

2024 / Tohoku

## Overview

This dataset records the annual mobility history, life events (such as marriage, childbirth, retirement, job change, and relocation), and choice behavior (including residential choices and target setting) of disaster-affected individuals. It includes changes in both the individual's and spouse's status and location.

## License

Use is permitted only for the 2025 Summer Course on Behavior Modeling in Transportation Networks.

## Data Column Specification

| Column Name    | Data Type | Description  |
|----------------|-----------|--|
| no             | Int64     | Individual number (identifier for each disaster-affected person) |
| gender         | Int64     | Gender (1 = Male, 2 = Female)                                    |
| year           | Int64     | Observation year   |
| s_prefecture   | Int64     | Code of origin prefecture  |
| s_municipality | String    | Name of origin municipality                                      |
| t_prefecture   | Int64     | Code of destination prefecture                                   |
| t_municipality | String    | Name of destination municipality                                 |
| t_house_type   | Int64     | Code of destination housing type                                 |
| move_mark      | Int64     | Move indicator (0 = No, 1 = Yes)                                 |
| marital_status | Int64     | Marital status (0 = Single, 1 = Married, etc.)                   |
| ev_married     | Int64     | Marriage event indicator (0 = No, 1 = Yes)                       |

| Column Name       | Data Type | Description  |
|-------------------|-----------|--|
| ev_divorced       | Int64     | Divorce event indicator (0 = No, 1 = Yes)                            |
| children_count    | Int64     | Number of children   |
| ev_birth          | Int64     | Birth event indicator (0 = No, 1 = Yes)                              |
| ev_independent    | Int64     | Child independence event indicator (0 = No, 1 = Yes)                 |
| start_status      | Int64     | Employment status code at origin                                     |
| end_status        | Int64     | Employment status code at destination                                |
| start_location    | Int64     | Residential location code at origin                                  |
| end_location      | Int64     | Residential location code at destination                             |
| ev_retire         | Int64     | Retirement event indicator (0 = No, 1 = Yes)                         |
| ev_change_job     | Int64     | Job change event indicator (0 = No, 1 = Yes)                         |
| ev_change_loc     | Int64     | Workplace location change event indicator (0 = No, 1 = Yes)          |
| sp_start_status   | Int64     | Spouse's employment status code at origin                            |
| sp_end_status     | Int64     | Spouse's employment status code at destination                       |
| sp_start_location | Int64     | Spouse's residential location code at origin                         |
| sp_end_location   | Int64     | Spouse's residential location code at destination                    |
| sp_ev_retire      | Int64     | Spouse's retirement event indicator (0 = No, 1 = Yes)                |
| sp_ev_change_job  | Int64     | Spouse's job change event indicator (0 = No, 1 = Yes)                |
| sp_ev_change_loc  | Int64     | Spouse's workplace location change event indicator (0 = No, 1 = Yes) |
| disaster          | Int64     | Disaster experience indicator (0 = No, 1 = Yes)                      |
| target            | Int64     | Identifier for target residential location or migration destination  |
| residence         | Int64     | Current residence code   |
| choice            | Int64     | Code of the actual chosen behavior or destination                    |

| Column Name | Data Type | Description                          |
|-------------|-----------|--------------------------------------|
| id          | Int64     | Unique identifier for the individual |

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**Hash Value**

c7938d180371f5f315c15c3c786abe11b313d4ebbb22cf9abc16856522669b71

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