

# ALBATROSS in Application

## Outline

- **Using Albatross for impact analysis**
- **An example scenario**
- **Conclusion**
- **Software demonstration**

## Background and Objectives

- Purpose of the study was to test the face validity and sensitiveness of the Albatross 1 model
- The original data set was used (1233 households, 2974 person-days)
- Hypothetical scenarios were defined by the Ministry of Transport
  - Decrease of two-adult households
  - Change of work start times
  - Increase of part-time workers
  - Friday afternoon off

# Example scenario: shortening of work hours (1)

- Scenario definition:
  - Friday afternoon off in work schedules (work longer than 6 hours)
- Predictions
  - No change in total travel distance
  - Increase in car travel distance of 1.3 %
  - Increase in number of trips of 1.6 %
  - Shift from public transport to car 1.3 %
  - No change in trip / tour ratio
  - Increase in flexible activities on Friday (shopping, social, leisure)
  - Shift activities to Off-peak hours

## Example scenario: shortening of work hours (2)

- Interpretation
  - Decrease in work activities counterbalanced by increase in leisure/social/shopping activities
  - Increase in number of trips is counterbalanced by substitution of long work trips to short discretionary trips
  - Substitution of public transport trips by car trips due to shorter work activities
  - Shift in time-of-day of flexible activities follows from relaxation of time constraints

# Conclusion

- The study illustrates the use of Albatross for impact analysis
- The model proves to be sensitive for:
  - socio-economic changes
  - institutional changes
  - interactions between many choice facets