# **POPULATION MOVEMENTS BASED ON MOBILE PHONE LOCATION DATA**



Lines show the length, intensity and orientation of flows between basic spatial units (BSUs). Orientation is expressed as the ratio between  $i \rightarrow j$  and  $j \rightarrow i$  flows (*i*, *j* are BSUs) through colour transition. The colour transitions vary smoothly from the range of red-yellow for the proportion 100:0 to the range of orange–orange for the proportion 50:50. The legend with colour transitions applies to all maps depicting flows as lines.

Choropleth maps show the proportions of ingoing and outgoing regular daily flows to/from functional regions (FRs). When ingoing flows prevail, the proportion is > 1, when outgoing flows prevail, the proportion is < 1.

- Transformed flow from BSU *i* to BSU *j*
- $\sum_{k} T_{ik}$  All flows from BSU *i* including the inner flow  $T_{ii}$
- $\sum_{k} T_{jk}$  All flows from BSU *j* including the inner flow  $T_{jj}$
- $\sum_{k} T_{kj}$  All flows to BSU *j* including the inner flow  $T_{jj}$
- $\sum_{k} T_{rk}$  All flows from FR *r* including the inner flow  $T_{rr}$

Functional regions based on the additive interaction measure Regular daily movements

# 0.90 0.95 1.00 1.05