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# The personal networks dynamics of migrants in Spain

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**European Collaborative Research Project ([ECRP](#)) Dynamics of Actors and  
Networks across Levels: Individuals, Groups, Organizations and Social Settings.**

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# Dynamic personal network research

- The changes in personal networks overall (e.g., Wellman, Wong, Tindall, & Nazer, 1997)
  - The changes in personal networks following some specific life event, e.g.:
    - Changes in marital status: marriage (Kalmijn, 2003), divorce (Broese van Groenou et al., 1990), widowhood (Morgan, Neal & Carder, 2000);
    - Entry into adult life (Degenne & Lebeaux, 2005), married mothers return to school (Feld, Suitor, & Gartner Hoegh, 2007);
    - Residential mobility (Magdol, 2000), migration.
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# Research projects in progress ...

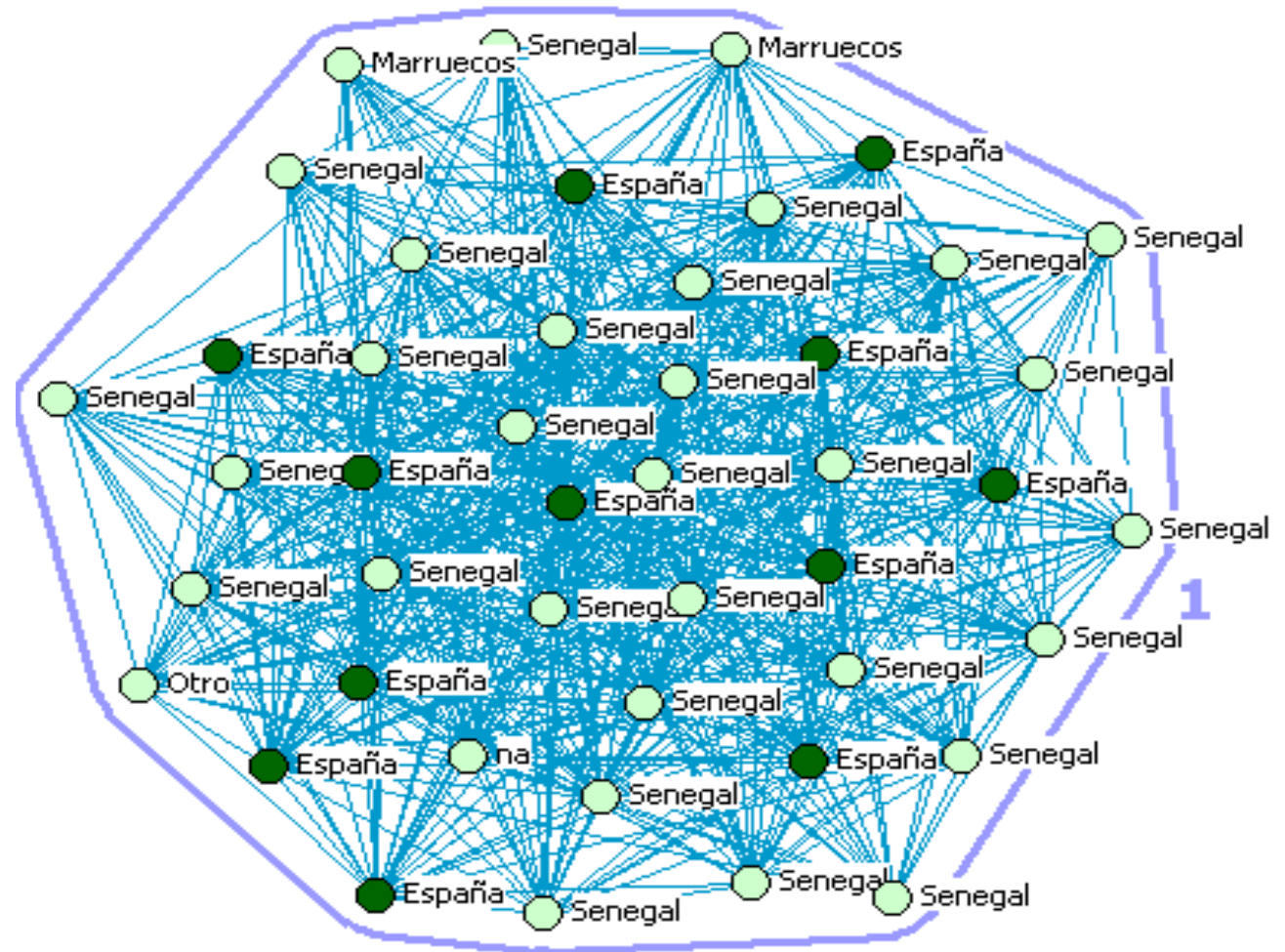
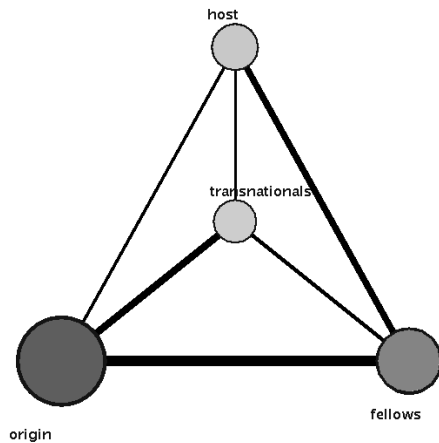
- *Dynamics of actors and networks across levels: individuals, groups, organizations and social settings* (SEJ2005-25683-E 05\_ECRP\_FP026) financiado por la European Science Foundation y el MEC (con Isidro Maya Jariego y Carlos Lozares).
  - *Development of a Social Network Measure of Acculturation and its Application to Immigrant Populations in South Florida and Northeastern Spain* (BCS-0417429) financiado por la National Science Foundation (con Chris McCarty).
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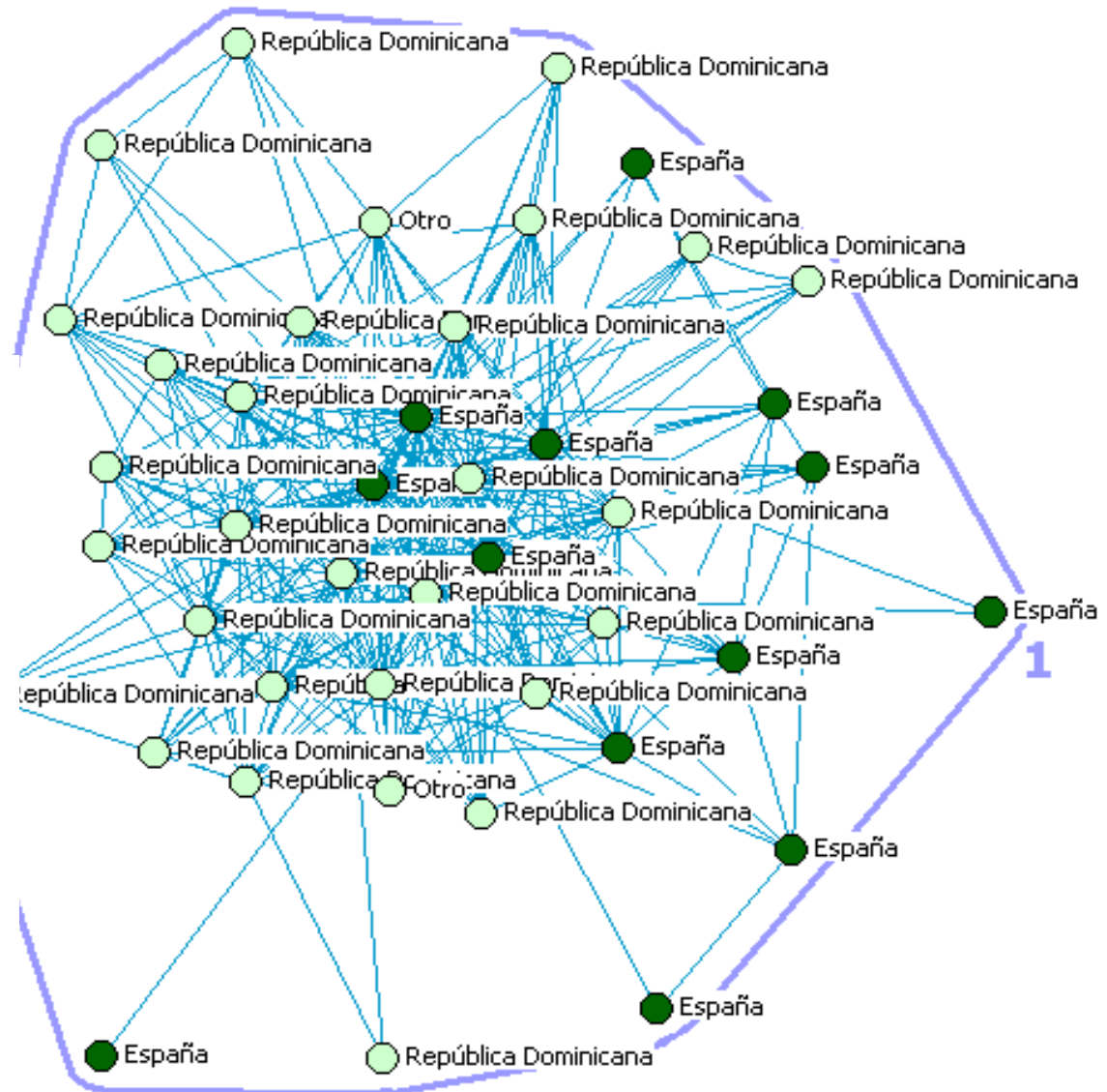
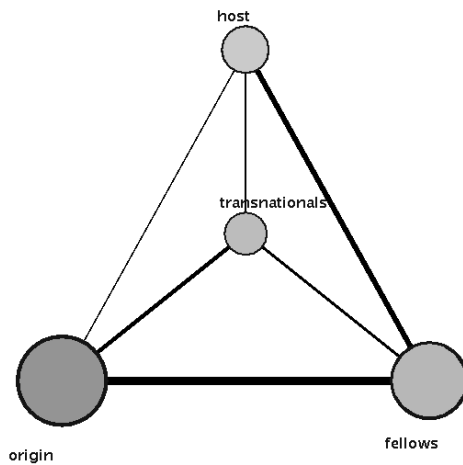
# Data ...

- Migrants in Catalonia (Barcelona, Vic, Girona).
    - 2004-2006: **300 personal networks** of migrants.
    - After a classification of types of networks we have selected **60 people for a second interview two years later.**
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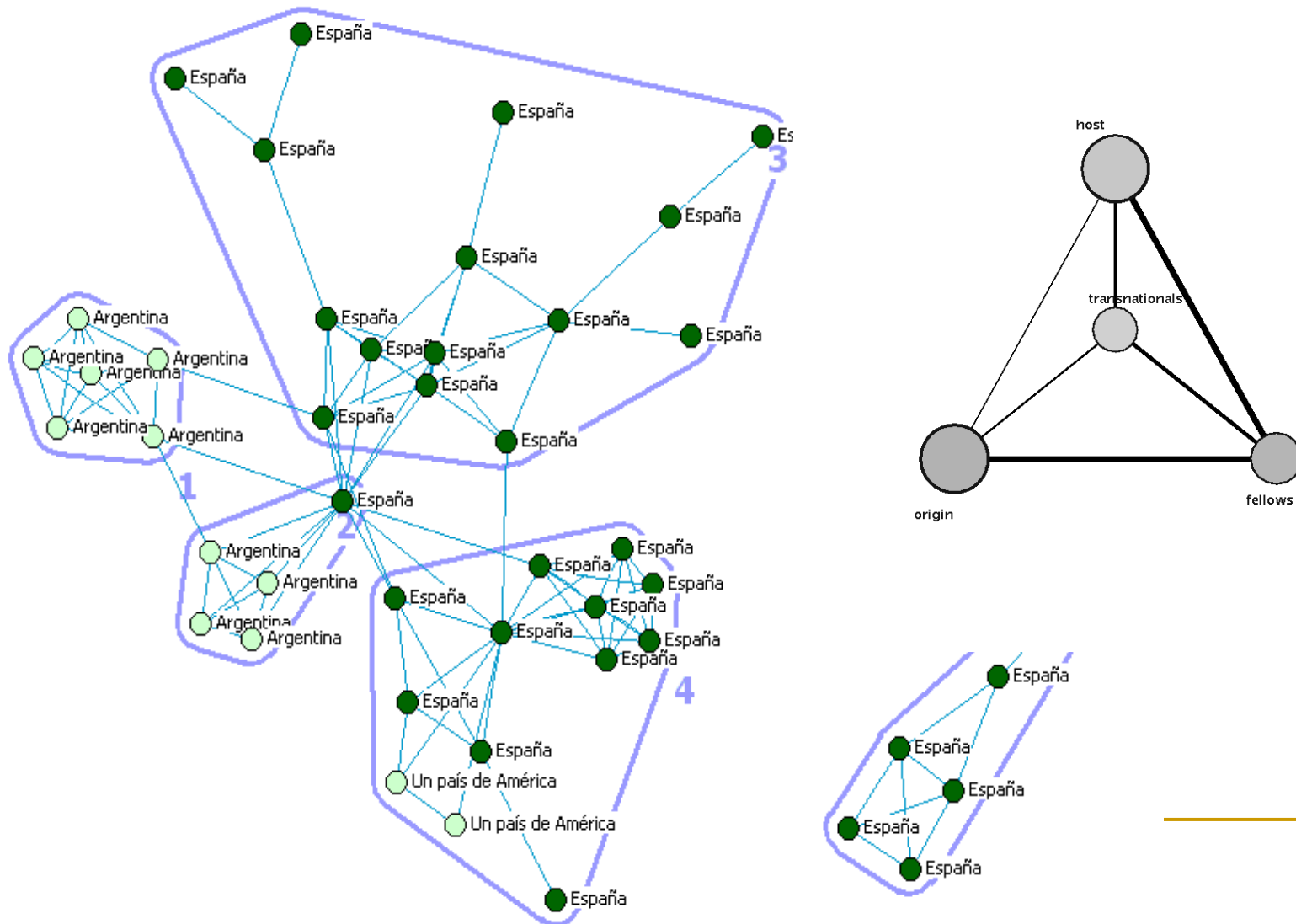
# Man from Senegal with a year of residence



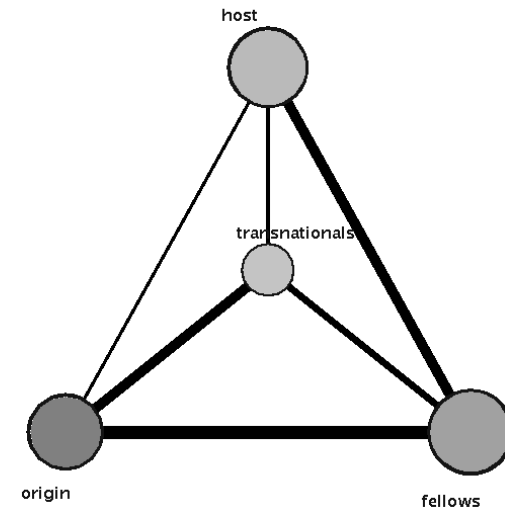
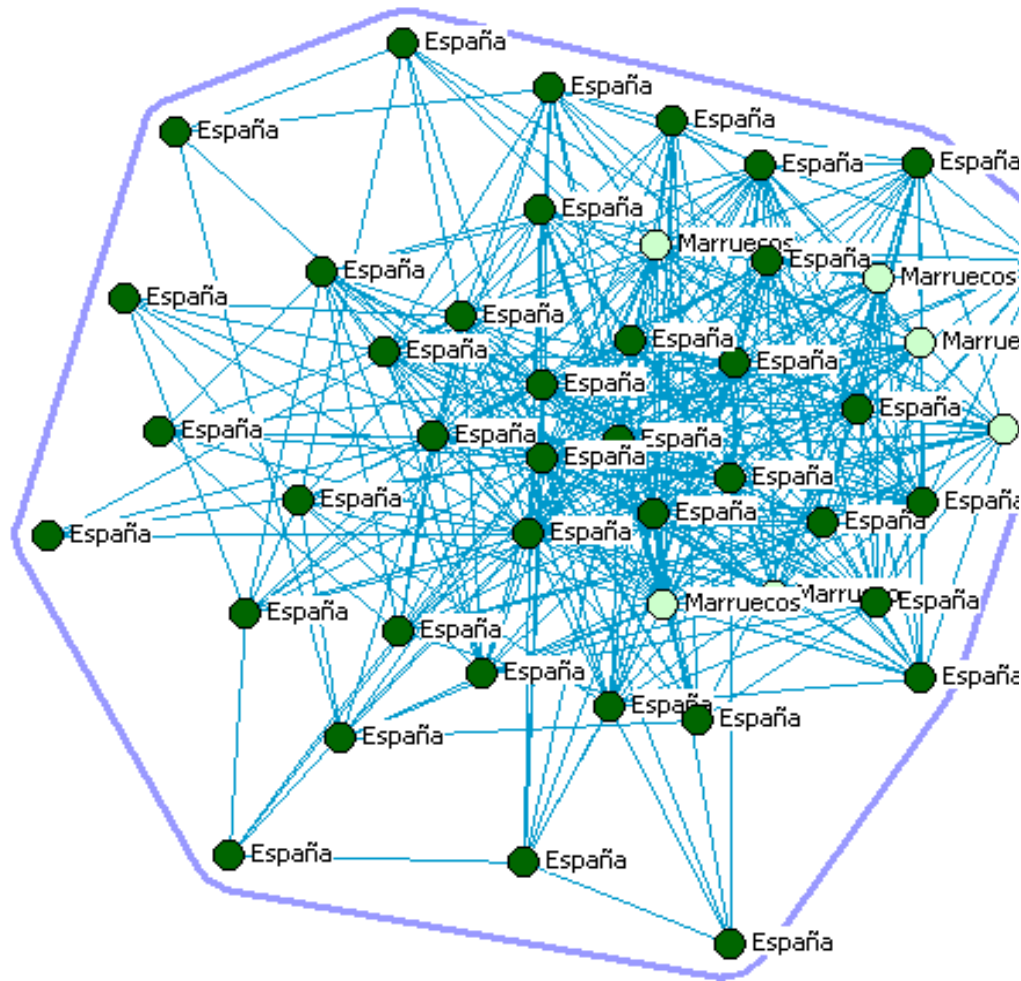
# Dominican (male), 4 years of residence...



# Argentinean woman with 4 years of residence ...



# Male from Morrocco, 14 years of residence ...





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# What about change?

- **We know that personal networks change along time ...**
    - Lerner & Brandes [paper](#) ...
    - Brandes et. al. [paper](#) ...
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# Types of questions in dynamic personal network research

- **At the individual level/aggregate level of personal network**
    - **How stable are networks over time?** Does the network stability depend on characteristics of ego (e.g., years of residence) or of the network (e.g., density, closeness, % family)?
    - **How do the structure and the composition change over time?** Does the type of change depend on the characteristics of ego (e.g., years of residence) or initial network characteristics (e.g., density)?
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# Types of questions in dynamic personal network research

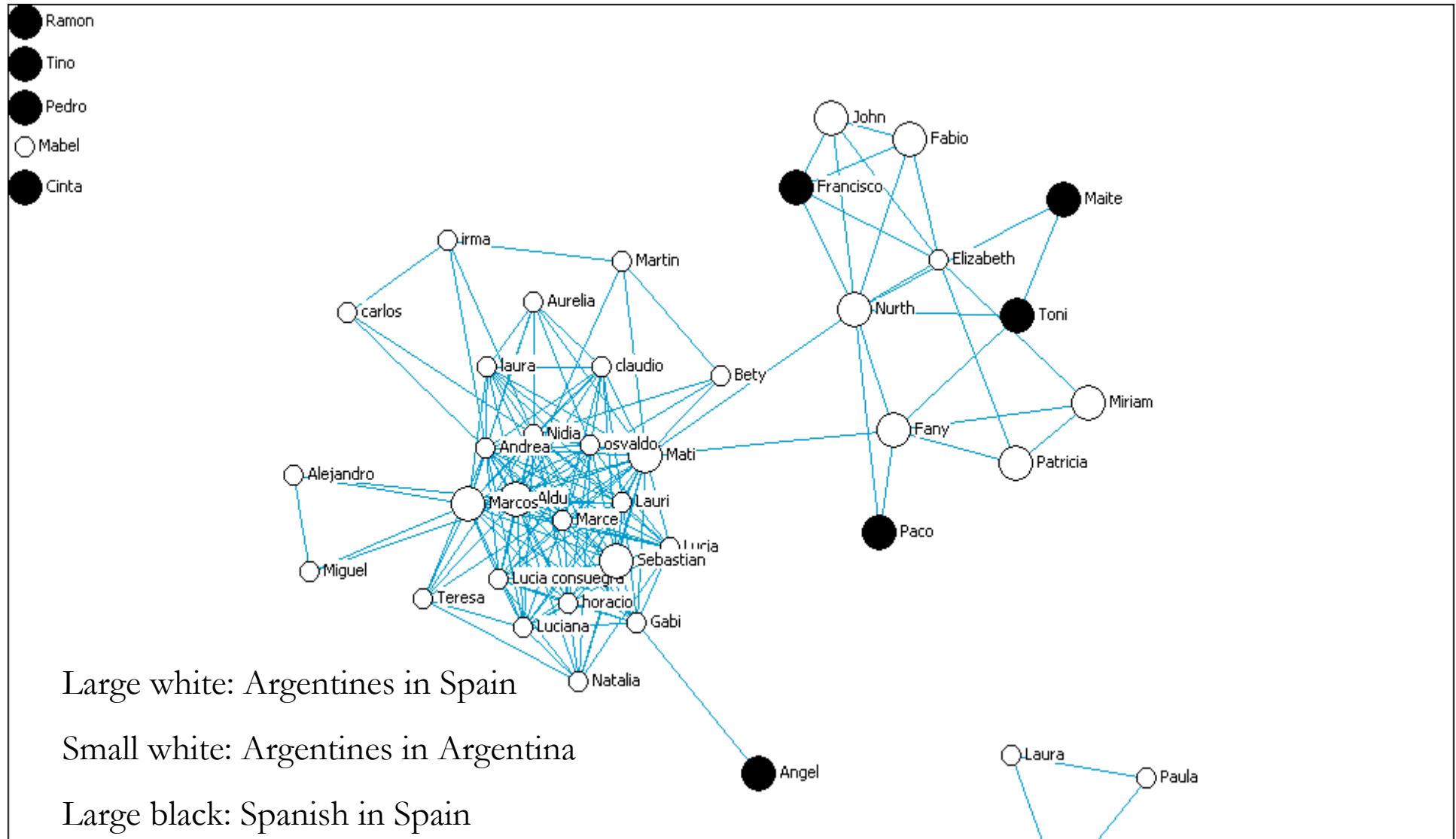
- **At the dyadic level (ego-alter relationships)**
    - Which characteristics of the relationship between ego and alter predict whether the relation **persists or not** (strong ties, e.g.)?
    - In which aspects do newly appearing alters **differ** from the alters who disappeared?
    - Do persistent relationships **change in strength or function** over time?
    - To what extent can we **predict** these changes with characteristics of ego, alter, or the relation between ego and alter (e.g., changing proximity)?
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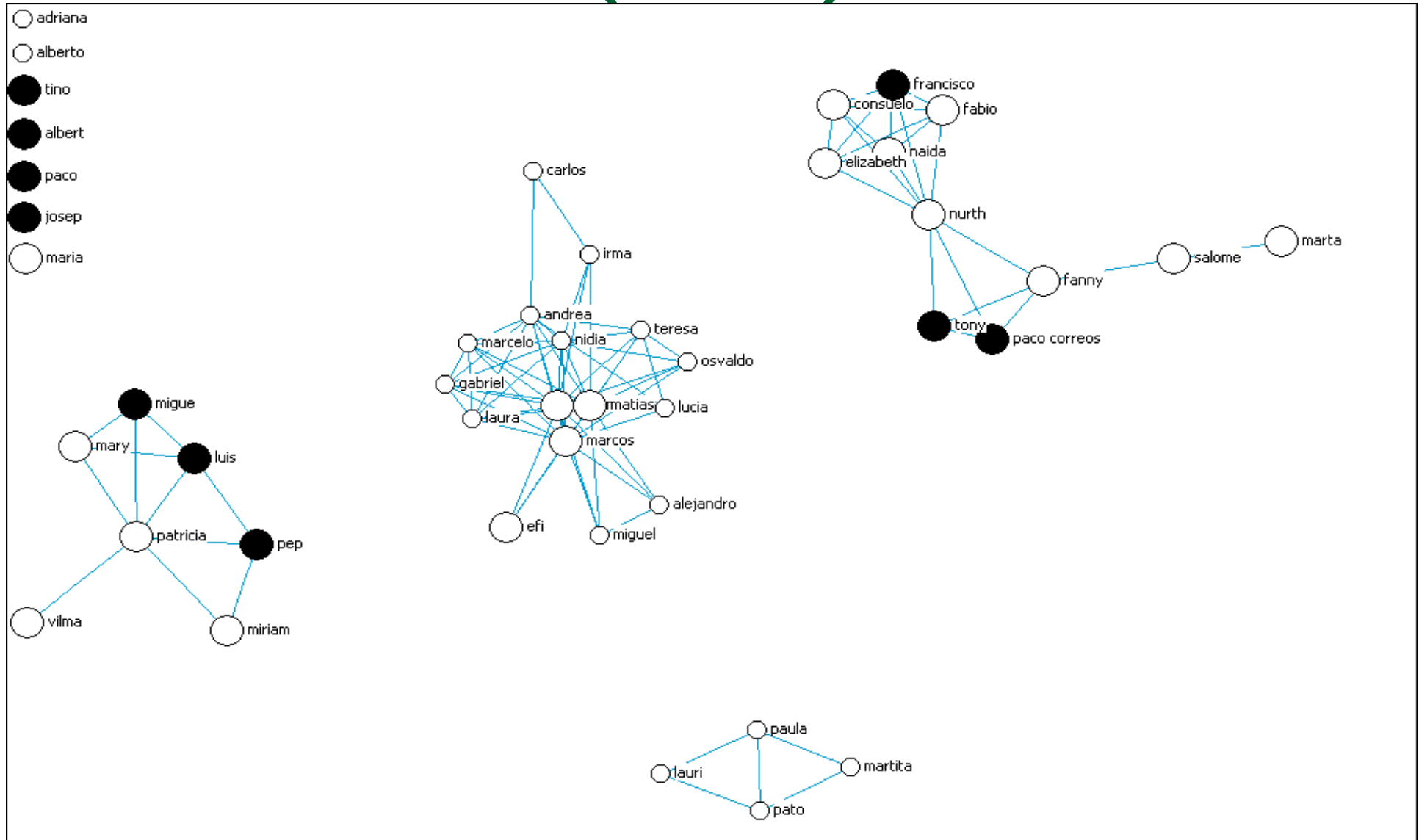
# Types of questions in dynamic personal network research

- **At the dyadic / triadic level (alter-alter relationships)**
    - **How do the relations among alters change over time?** Are changes in the structure of alter-alter relations explained by **endogenous effects** (tendency toward transitivity), alter characteristics (e.g., strength of relation with ego) or **dyadic characteristics** (similarity in country of origin)?
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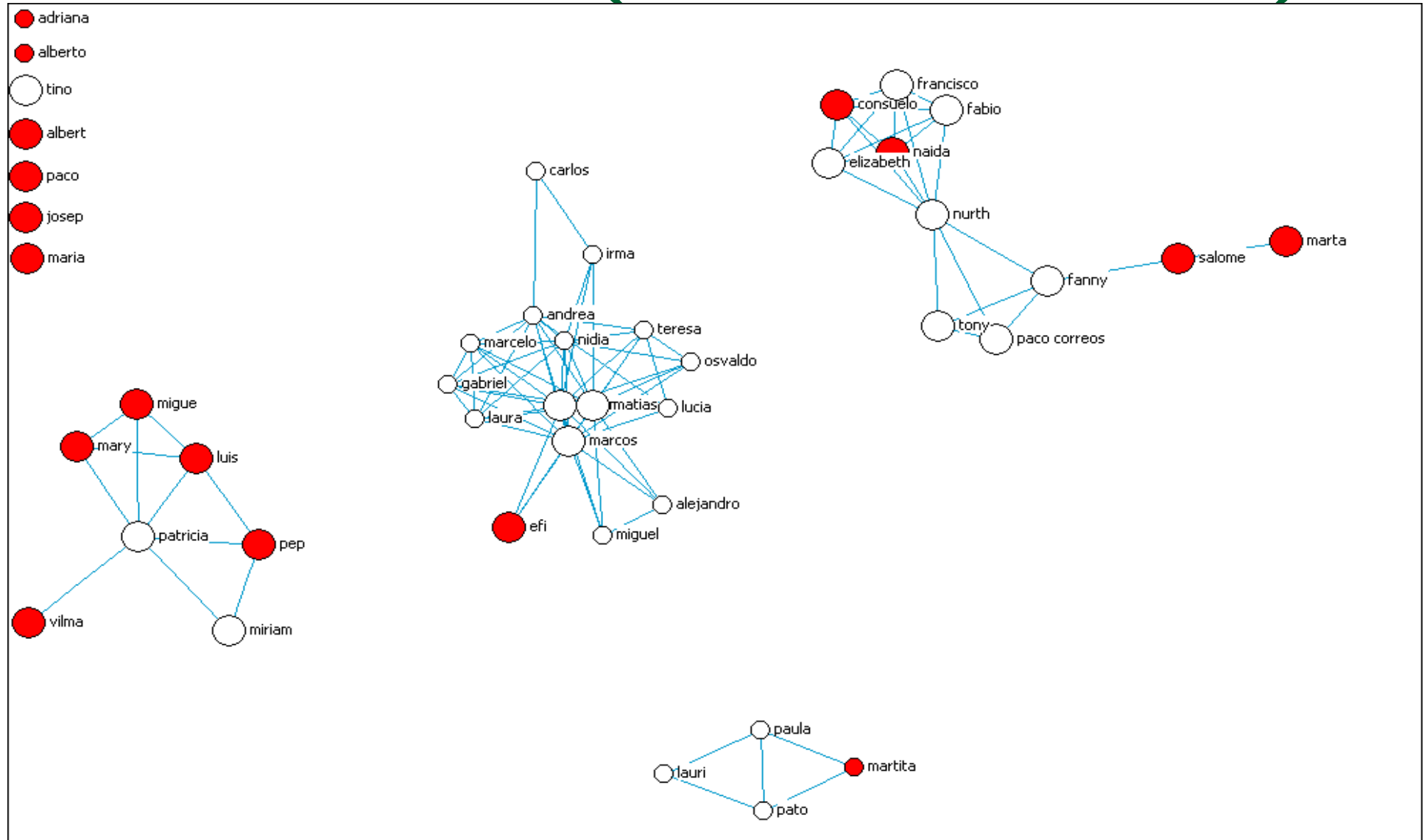
# The network of Norma in the first wave (2005)



# The network of Norma in the second wave (2007)



# The network of Norma in the second wave (new alters in red)



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# The case of Norma: the individual level

- How do the structure and composition change?
    - Structure: The **density decreases** from 17% to 10%, the number of clusters increases from 3 to 4, the betweenness decreases from 30% to 2%.
    - Composition: The percentage of Spaniards hardly increases (from 20% to 22%) but the percentage of **alters living in Spain increases** from 42% to 60%. *The frequency of contact* decreases slightly, *closeness* increases slightly, while the percentage of *family* decreases from 36% a 27% (4 members).
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# The case of Norma: the individual level

- **How stable is the personal network?**
  - Stability: Of the 45 alters at  $t_1$ , 28 are stable members (62%). 17 alters disappear and (consequently) 17 are new.



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# The case of Norma: the dyadic level (ego-alter)

- **What characteristics of the alters or the relation between ego and alter predict whether the relation *persists* or not?**
    - **Binary logistic regression** with the 45 alters of the first wave. (Predictors: age alter, sex alter, country of origin alter, alter is a family member or not, the time ego knows alter, frequency of contact ego-alter and closeness of contact ego-alter).
    - *Results:* (only) the **frequency of contact and closeness** had a significant effect ( $p < .05$ ): Relations with lower frequency of contact and less closeness are less stable.
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# The case of Norma: the dyadic level (ego-alter)

- **In which aspects do the new alters differ from the leaving alters?**
    - Norma knows the new alters for less long, *but* she doesn't feel less close to them or has less contact with them or anything.
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# The case of Norma: SIENA analysis

- **What guides the changes in relations among alters? (tryout)**
    - Analysis with SIENA at the alter-alter network (without ego). Relations are symmetrical.
    - Descriptive results:
      - Of the 378 dyads that were present in both waves, 292 dyads were not related in neither wave, 64 had a relation in both waves, 15 had a relation only in the first wave and 7 had a relation only in the second wave ( $J = .74$ ).
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# The case of Norma: SIENA analysis

- **What guides the changes in relations among alters? (tryout)**
    - Statistical results: Significant effects were found for...
      - (similarity in frequency of contact with ego): If two alters had more or less the same frequency of contact with ego, they were more likely to be interrelated as well.
      - (transitivity) If alters A and B had a relation, and B and C as well, A and C would be more likely to become related as well.
      - (alter is a family member or not) Family members of ego were less likely to get involved in new relationships than non-kin.
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# Conclusion about the case

## Norma

- Norma's network is moderately **stable**
  - **Over the course of time, Norma knew more people who live in Spain (yet hardly more Spaniards)**
  - **Strength of ties was predictive for their persistence** (whereas e.g. **country of origin was not**)
  - **New members did not differ in relationship quality from contacts that disappeared**, only in time of knowing ego
  - **Network members had a tendency toward network closure.**
  - **Kin was hardly involved in newly formed relations.**
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**So ...**

- **SIENA outputs make sense when it is applied to personal network data.**
  - **Provides us inputs for further meta-analysis.**
  - **Soon ... more!**
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**Thanks!**

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