



Wittgenstein Centre

FOR DEMOGRAPHY AND  
GLOBAL HUMAN CAPITAL

# ***Reconstruction of the forces shaping the religious composition :***

## ***Vienna from 1951 to 2011***

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## Outline

- Short presentation of WIREL
- Aim of the reconstruction
- Five (demographic) determinants of religion change i.e. fertility, mortality, migration, mobility, mixed marriages
- Future work
- Conclusions

## The WIREL Project in short

- **WIREL** acronym for “**Past, present and future religious prospects in Vienna 1950-2050**”
- **Funding:** Vienna Science and Technology Fund
- **Duration:** July 2011- July 2014
- Collaborators: IIASA and VID
- Our website: <http://vidwirel.oeaw.ac.at>

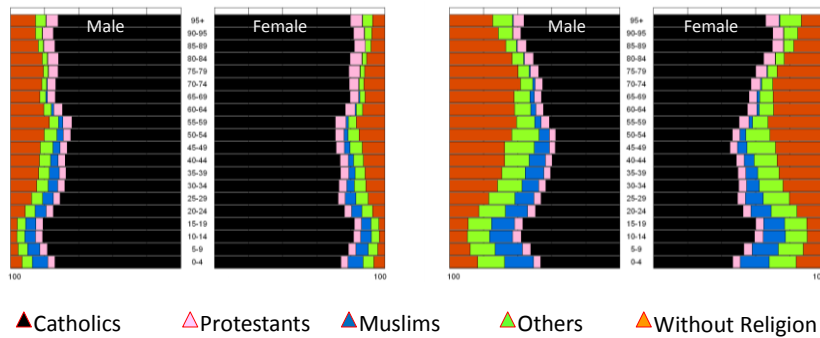
## Background

- The domination of the Roman Catholic Church in Austria has been slowly fading away.
- Progressing secularization
- Immigration of people belonging to other religions than Roman-Catholicism, with different fertility patterns
- Decline in the level of religiosity and beliefs.

## Exacerbated situation in Vienna

Austria 2001

Vienna 2001



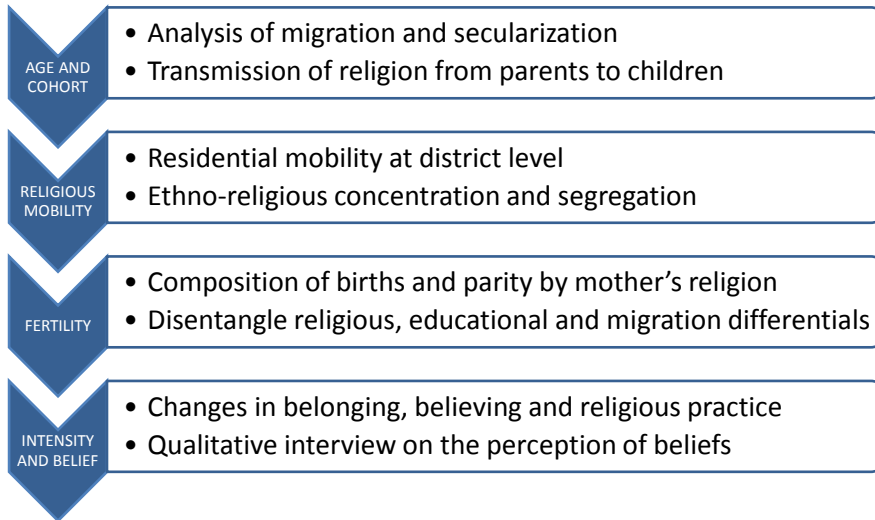
WIREL 22/7/2011

### WP1. Study the past as a trajectory

- Main objective: Reconstruct the main demographic determinants – *internal and international migration, secularization, fertility, and mortality* – for all religious groups from 1950 to 2010


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## WP2. Deep analysis of the present



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## WP3. Project the future

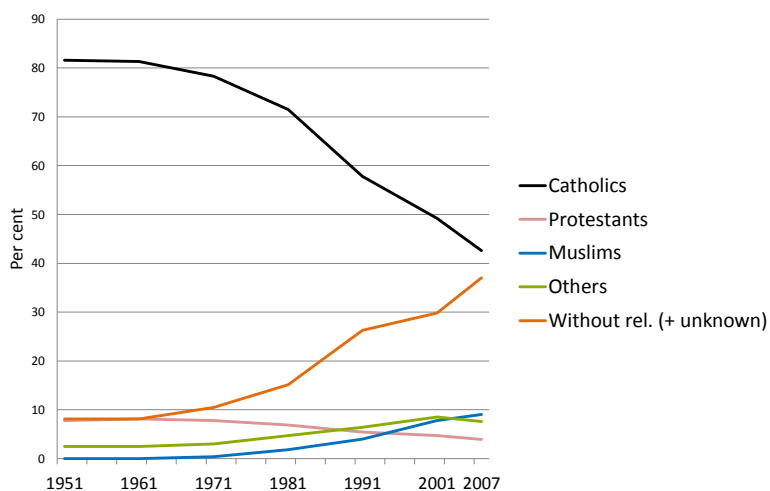
- The findings of parts 1. and 2. will be used to prepare scenarios for the future evolution of these forces Religious landscape of Vienna until the middle of the century 

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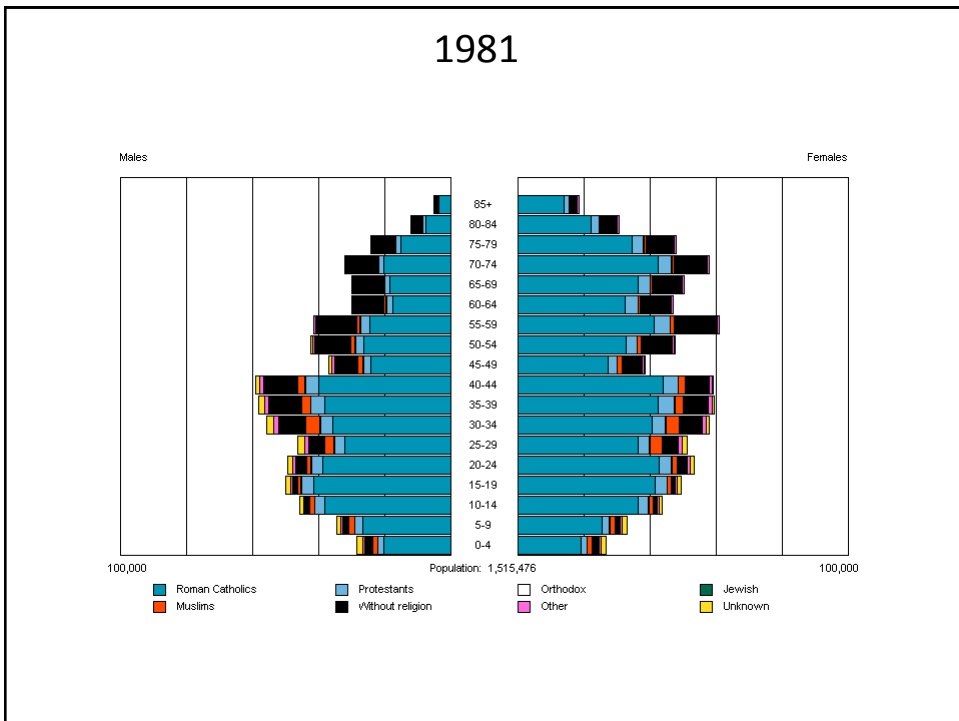
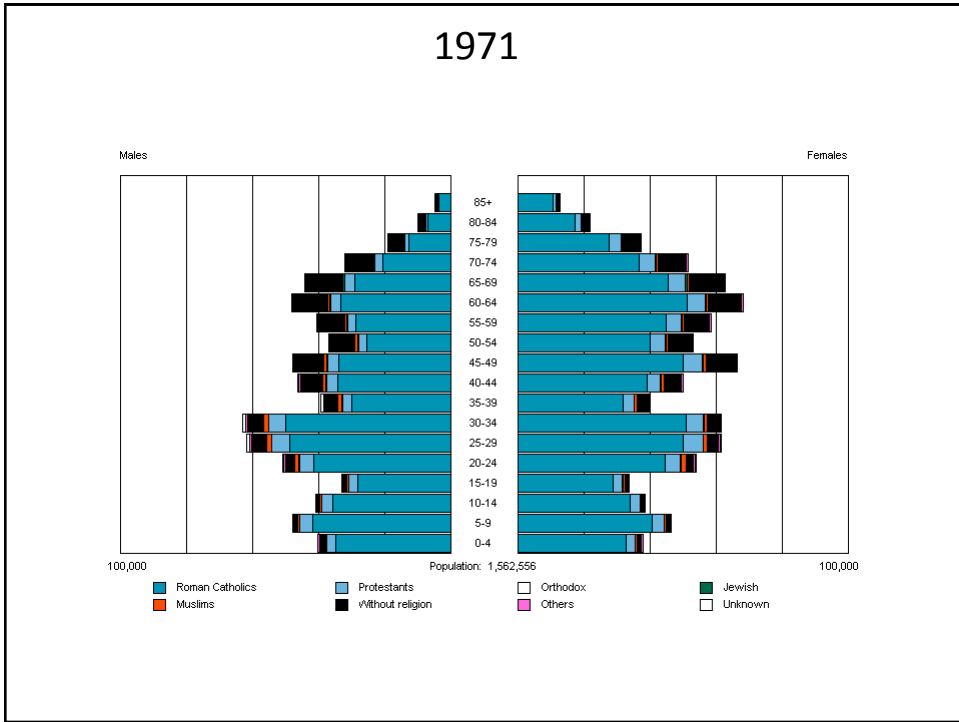
## Aim of the reconstruction

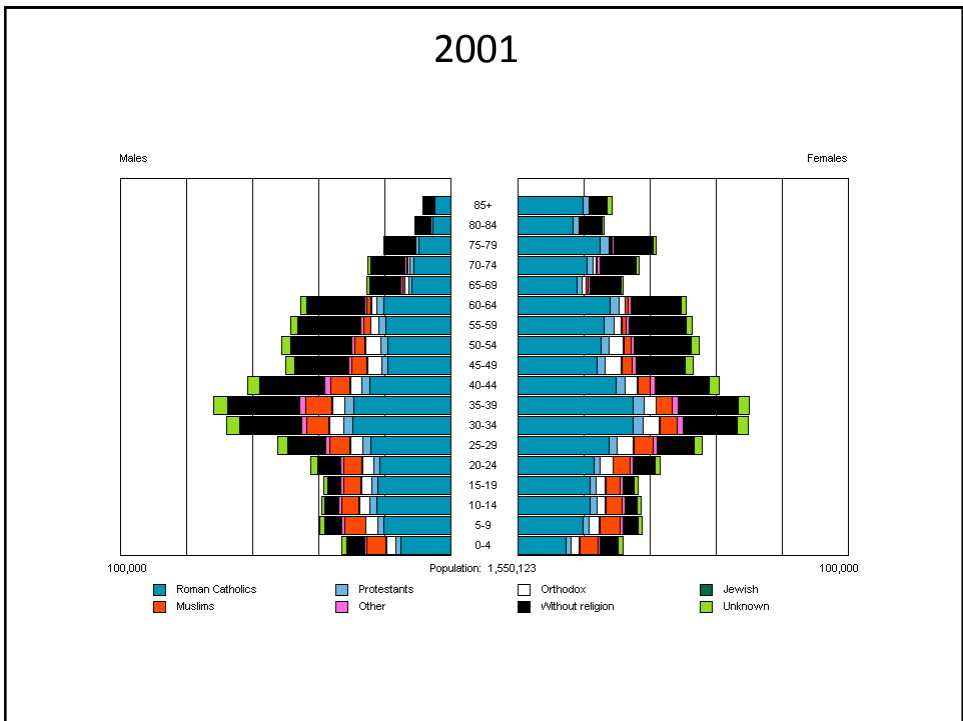
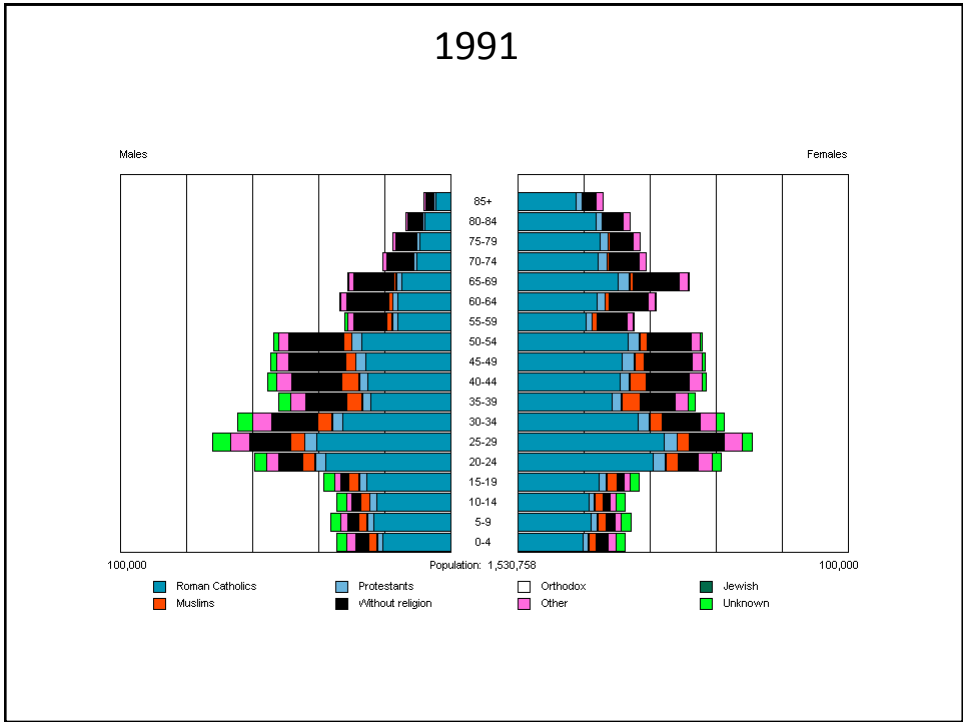
- Arriving at a good base for the projections
- Understanding the determinants of change from a demographic perspective:
  - Fertility (+)
  - Mortality (little)
  - Migration (++)
  - Religious mobility (little) incl. Secularization (++++)

## Proportions of five religious categories in the Viennese population 1951-2007



*Sources: Censuses from 1951 to 2001 and authors' estimates for 2007*

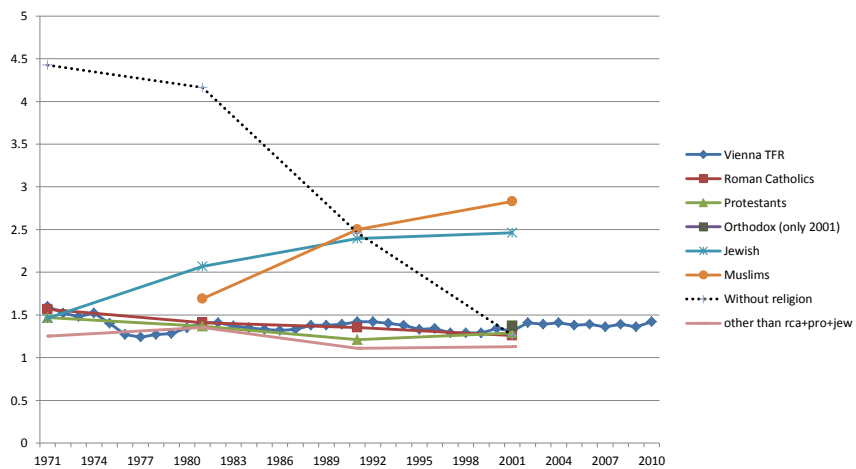




## 2011 Population



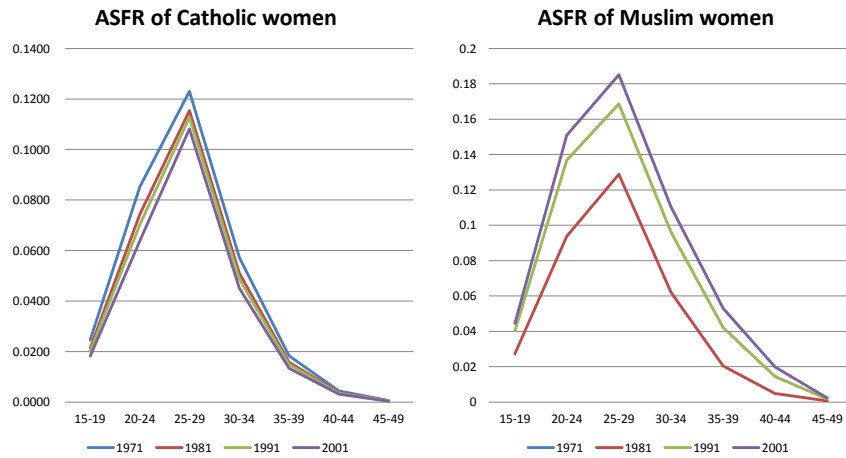
## Total fertility rates, Vienna, 1971-2010



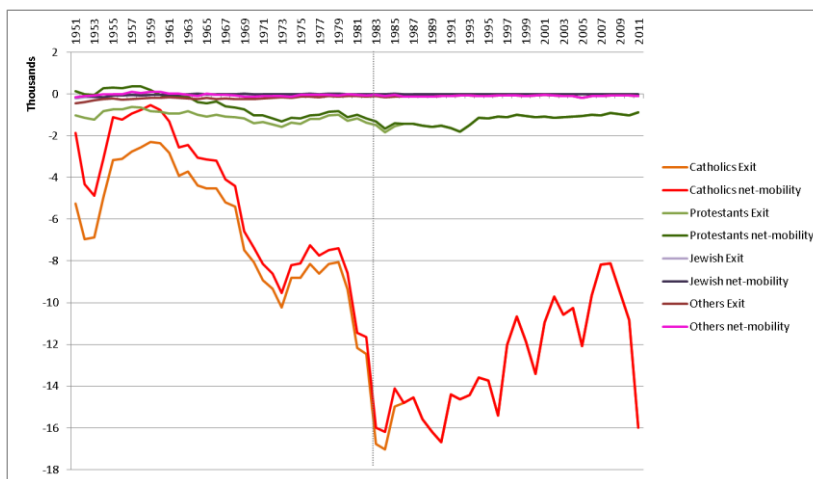
Source: TFR Vienna from Statistics Austria ISIS, TFR denominations: estimates based on the total population, female population in childbearing ages, and the general fertility rate.



## Age Specific Fertility Rates

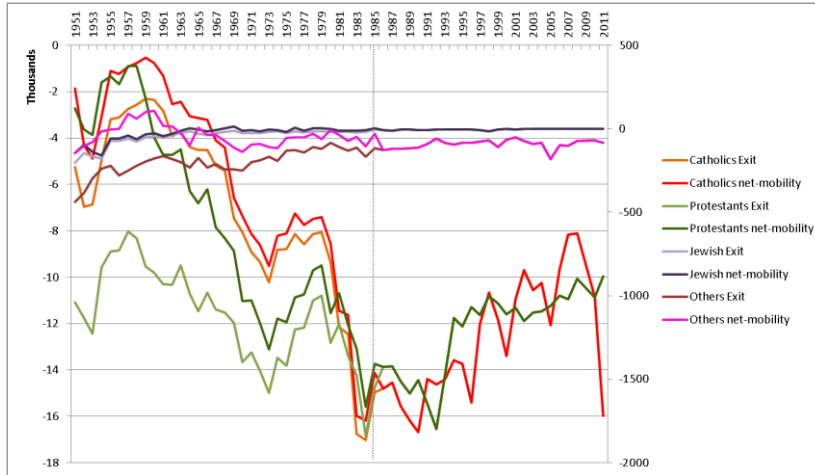


## Religious mobility 1950-2011 (1)



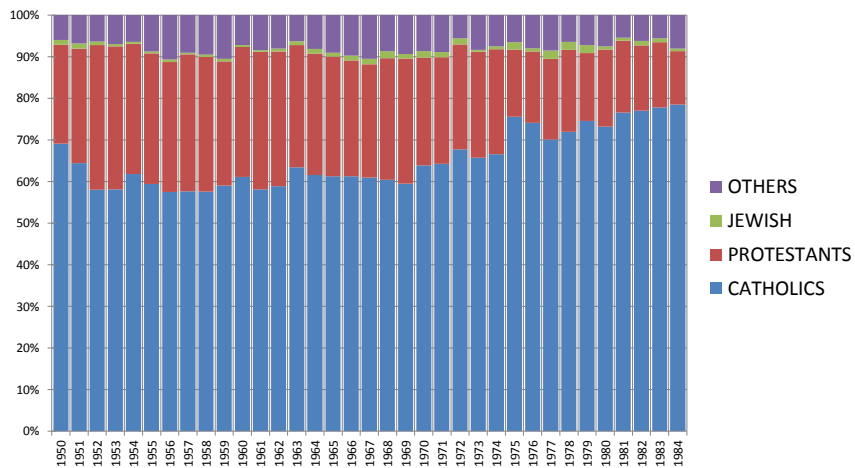
**Note:** Net mobility until 1984; from 1984 onwards: net mobility = exit  
**Source:** City of Vienna Statistical Yearbooks (1950-2008)

## Religious mobility 1950-2011 (2)



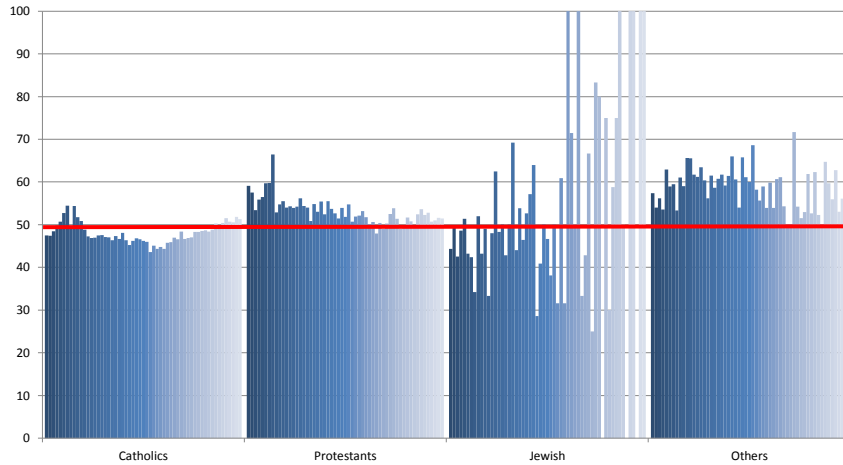
*Note:* Net mobility until 1984; from 1984 onwards: net mobility = exit  
*Source:* City of Vienna Statistical Yearbooks (1950-2008)

## Entrance to religion, 1950-1984



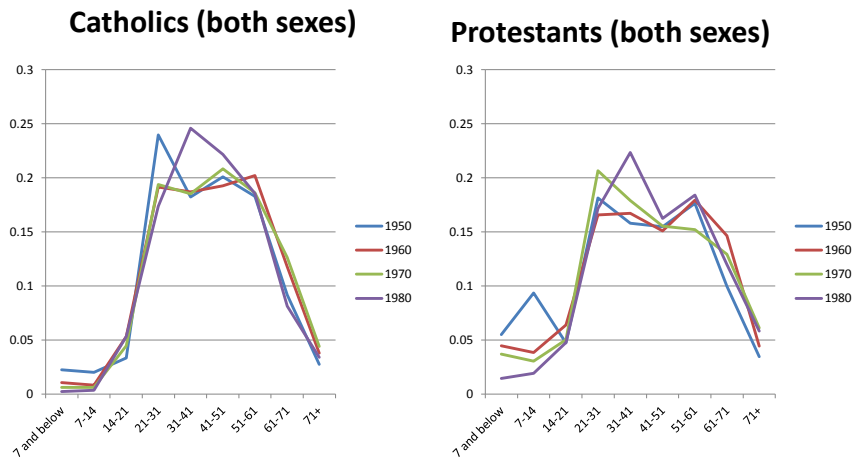
*Source:* City of Vienna Statistical Yearbooks (1950-1984)

## Share of women in religious mobility, 1950-2008



Source: City of Vienna Statistical Yearbooks (1950-2008)

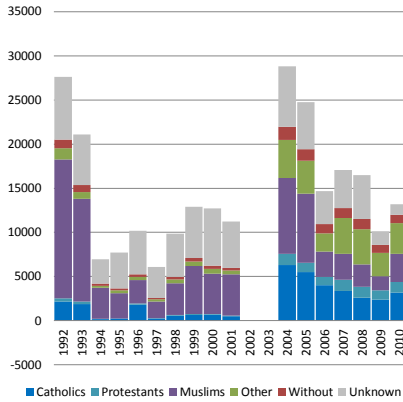
## At which age occurs the transition away from one's religion?



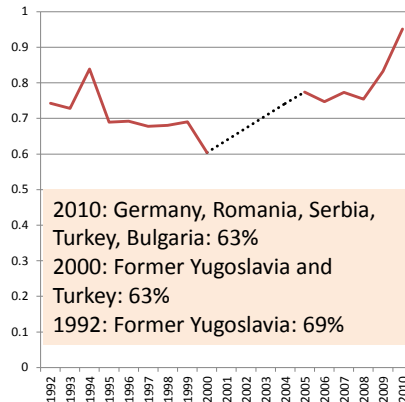
Source: City of Vienna Statistical Yearbooks (1950-2008)

## Estimated composition of net migration

**Net number of international migrants to Vienna**



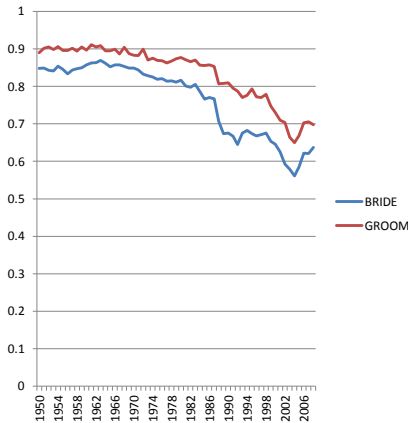
**Share of Europe in migration flows to Vienna**



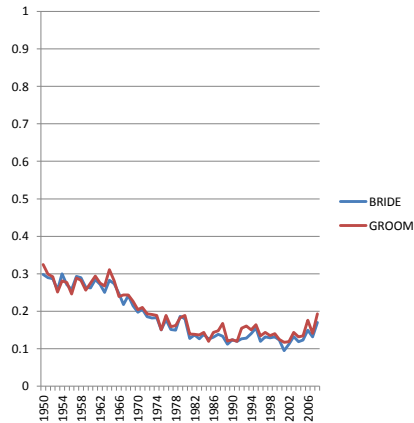
*Note:* Except Austrians; *Source:* Net flows by citizenship from the City of Vienna Statistical Yearbooks (1992-2010) and distribution by religion from the World Religion Database (2010).

## Endogamy – Proportion marrying inside the religion, Catholic and Protestant

**CATHOLIC**

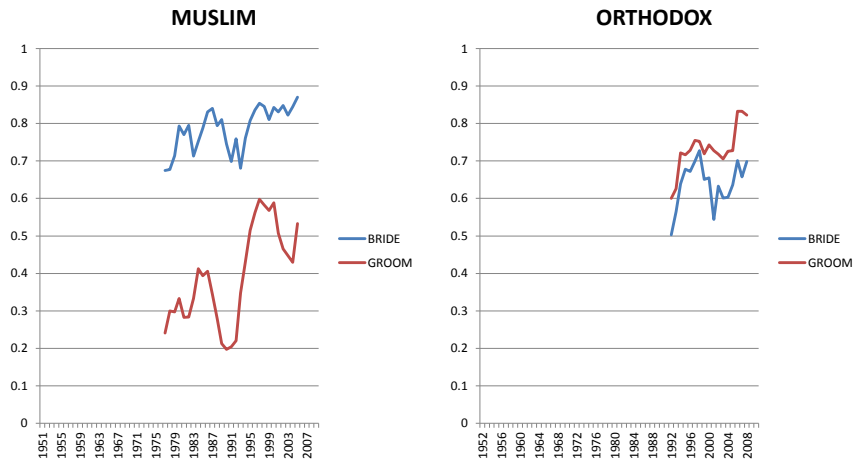


**PROTESTANT**



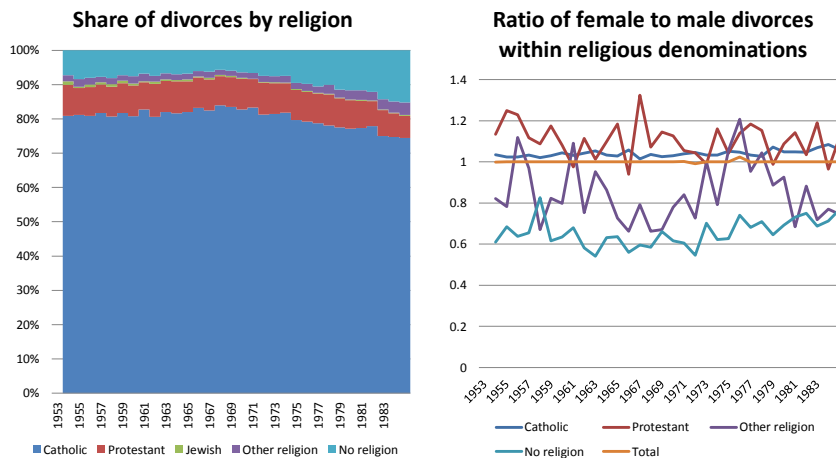
*Source:* City of Vienna Statistical Yearbooks (1950-2008)

## Endogamy – Proportion marrying inside the religion, Muslim and Orthodox



Source: City of Vienna Statistical Yearbooks (1950-2008)

## Divorces



## Further work on the reconstruction

- **Transmission** of religion from parents to children:  
Compare annual birth totals by religion of mother and father with children's religion in the census
- Check **recent estimates** of stocks provided by rel. communities against the 2001 census
- Make estimates for Muslims before 1971 and Orthodox before 1981
- **Back projections** of population by age, sex and religion from 1971 to 1961 and 1951

## Conclusions

### Main forces of the past

- Secularization (perdition effect)
- Migration (more restriction)

### Main forces of the present and future

- Fertility
- Intensity
- Mixed marriages
- Transmission of religion from parents to children