

The dream of homeownership ...



Introduction

- In Switzerland, about 38% of all households live in their own house or apartment (data for 2000).
- Even though the homeownership rate has steadily increased, mainly since 1990, it is still considered as very low compared to other countries.
- Within Switzerland, however, there exist large differences between the cantons and regions, respectively (e.g. canton Wallis 60% vs. canton Basel-Stadt 15%).
- The complex reasons behind these large disparities and their consequences have not been systematically investigated within an integrated framework.

Objectives and new aspects of our study

- What are the main determinants of the homeownership rates across Swiss cantons and regions, and how can the disparities be explained?
- What are the consequences of these disparities for the economic and spatial development of Switzerland?
- What are possible policy recommendations that can be derived from our analyses, also in view of the existing (and discussed) law-based policy measures to promote homeownership? (HEV: „Eigene vier Wände dank Bausparen“ „Sicheres Wohnen im Alter“; SGFB: „Bausparinitiative“)



First study that analyzes these issues within an econometric framework with Swiss data.

International homeownership rates

Spain: 87%

Norway: 78%

Ireland: 77%

Italy: 73%

France: 58%

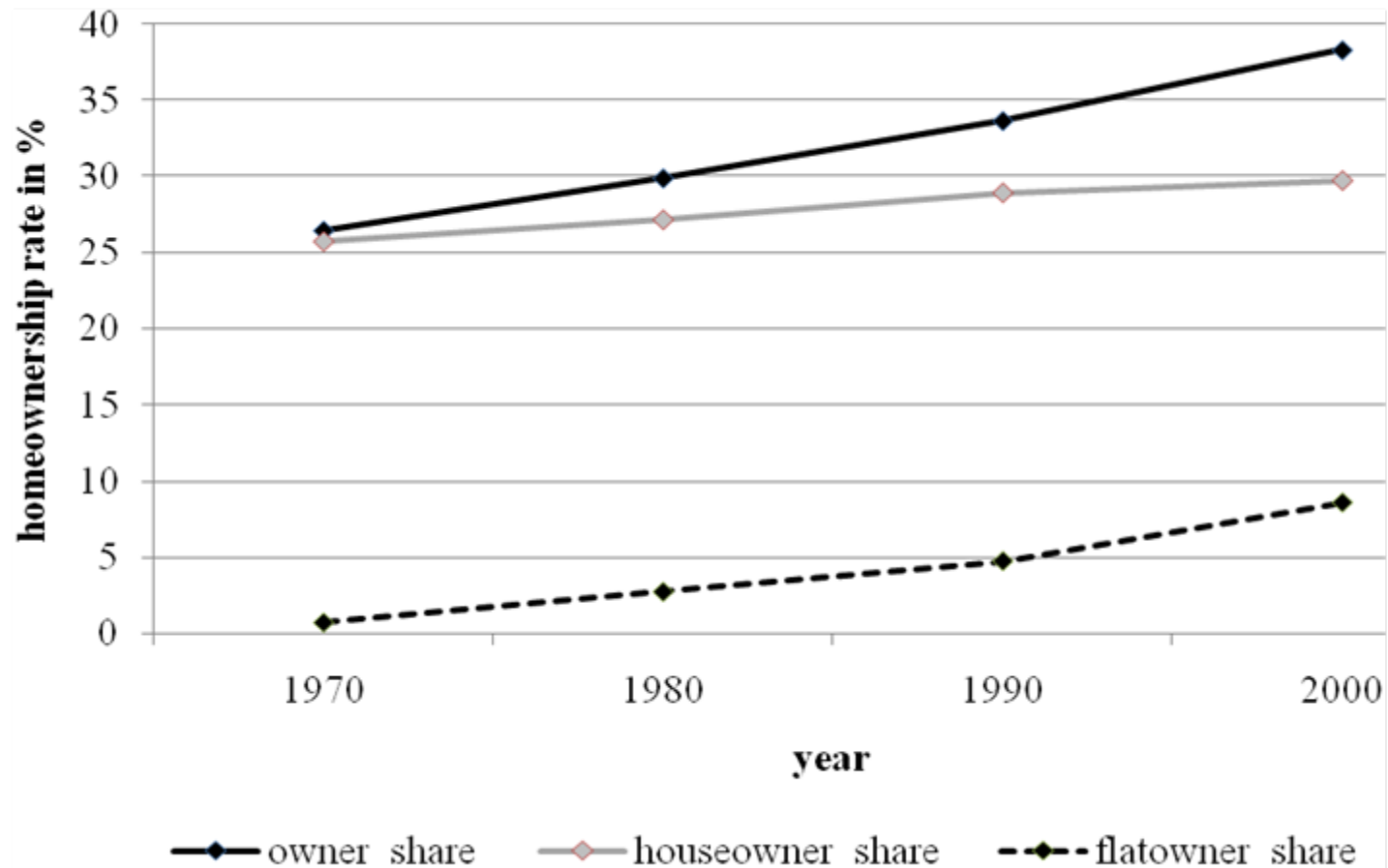
Austria: 56%

Germany: 43%

Switzerland: 38%

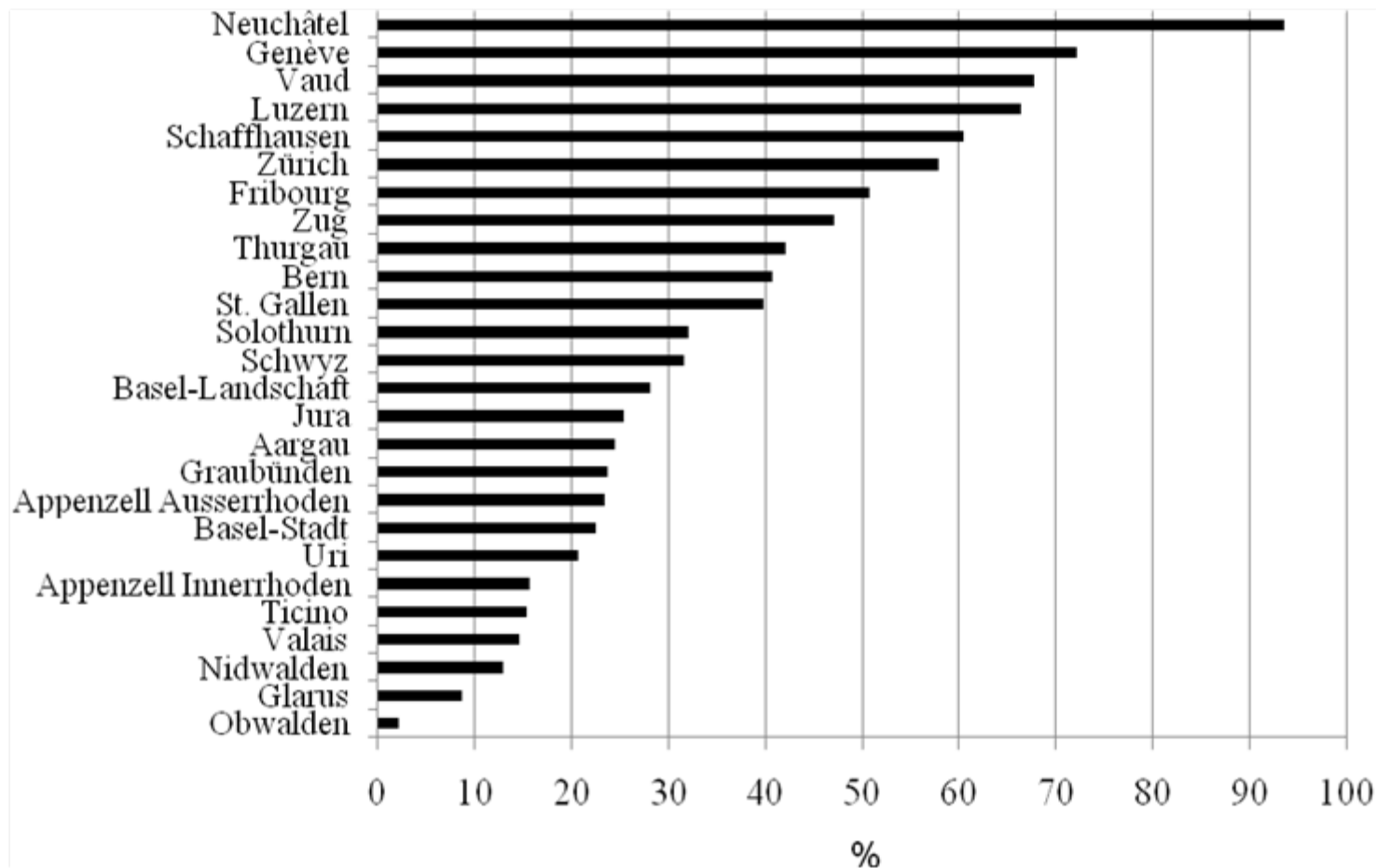
Source: Euroconstruct (2008)

Homeownership in Switzerland from 1970 to 2000



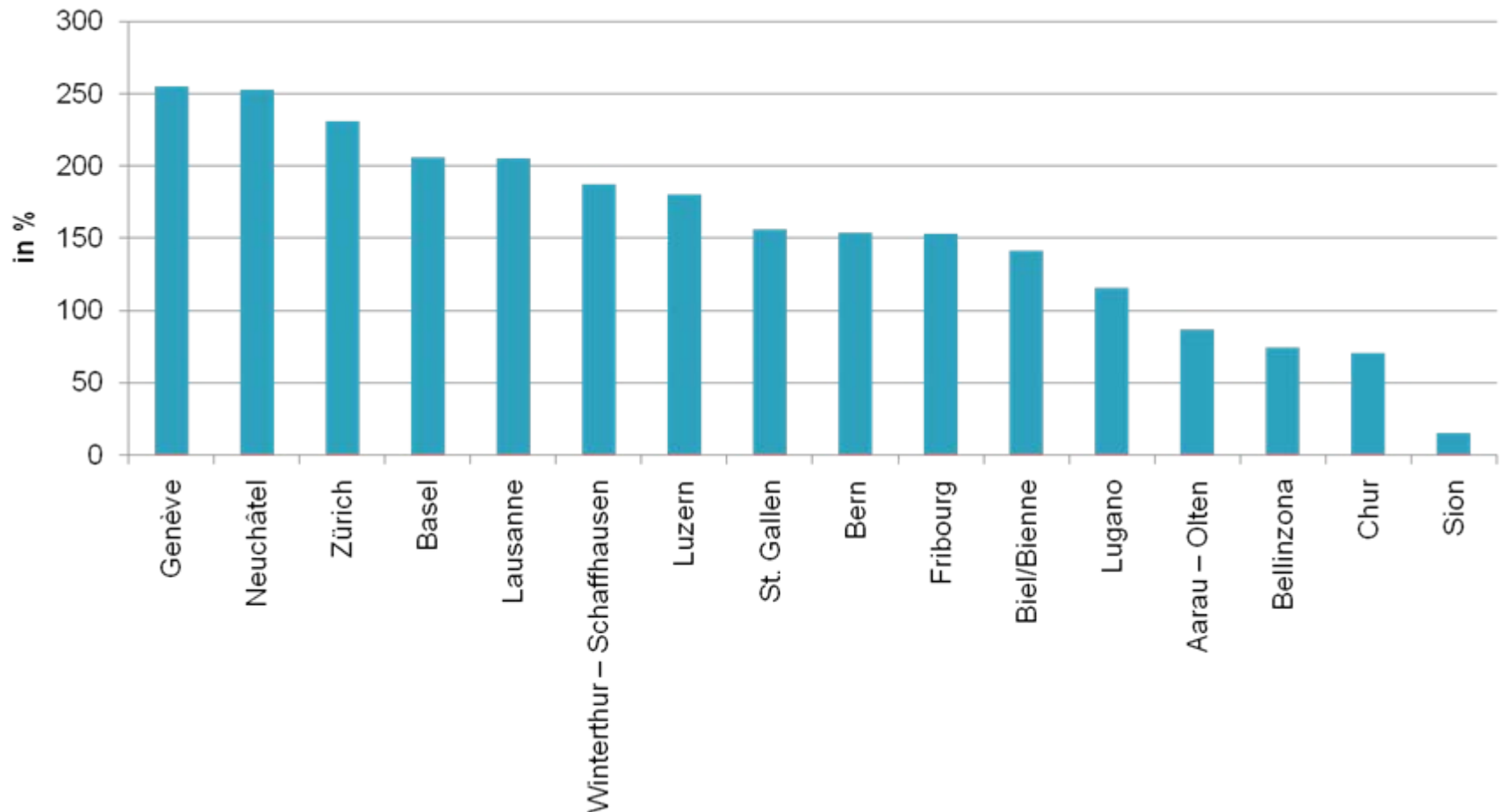
Source: Volkszählungen 1970, 1980, 1990 und 2000. Eigene Berechnungen.

Relative change in homeownership rates (in %) from 1970 to 2000 by canton



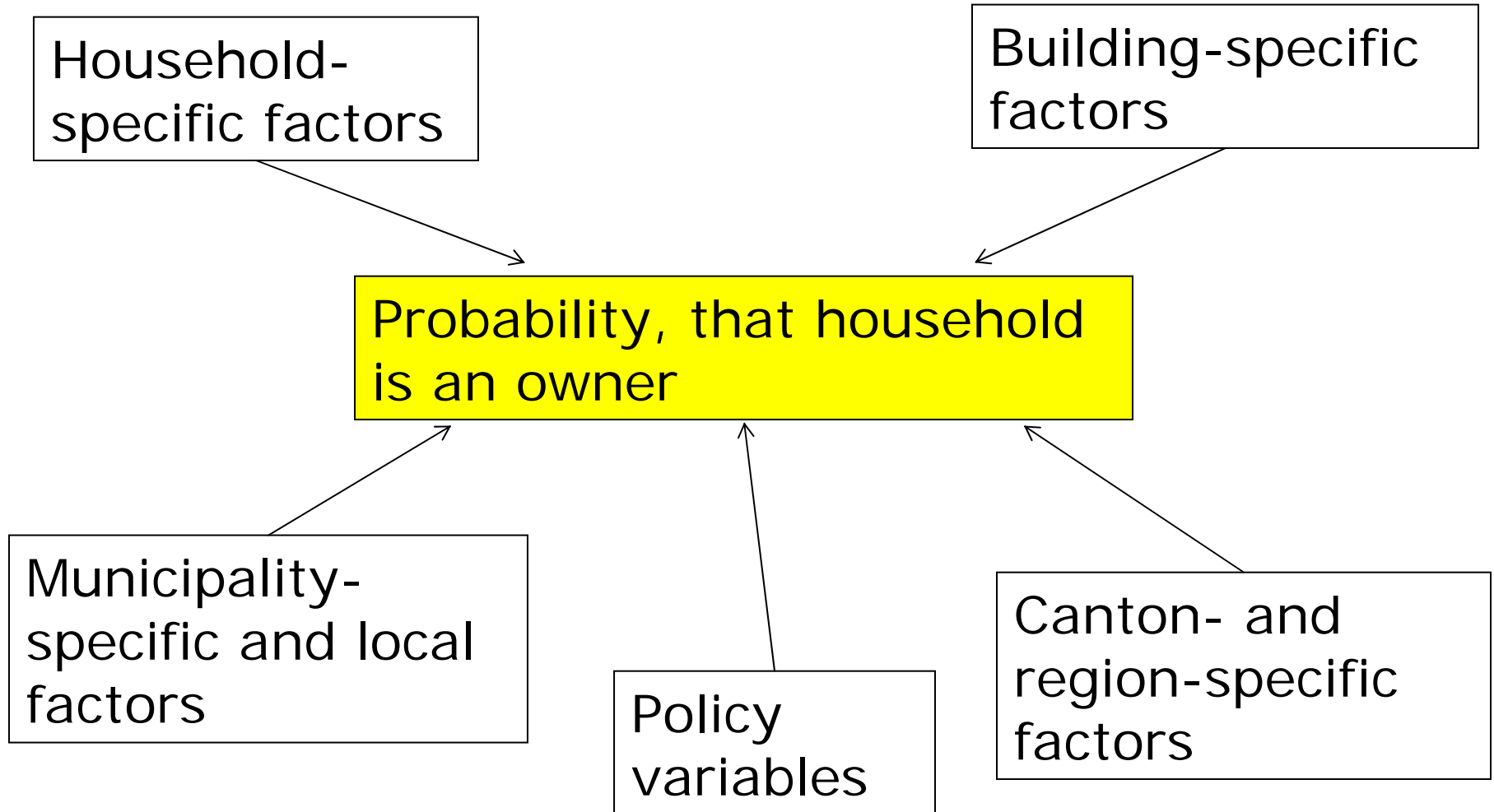
Source: Volkszählungen 1970 und 2000. Eigene Berechnungen.

Relative change in homeownership rates (in %) from 1970 to 2000 by labour market region



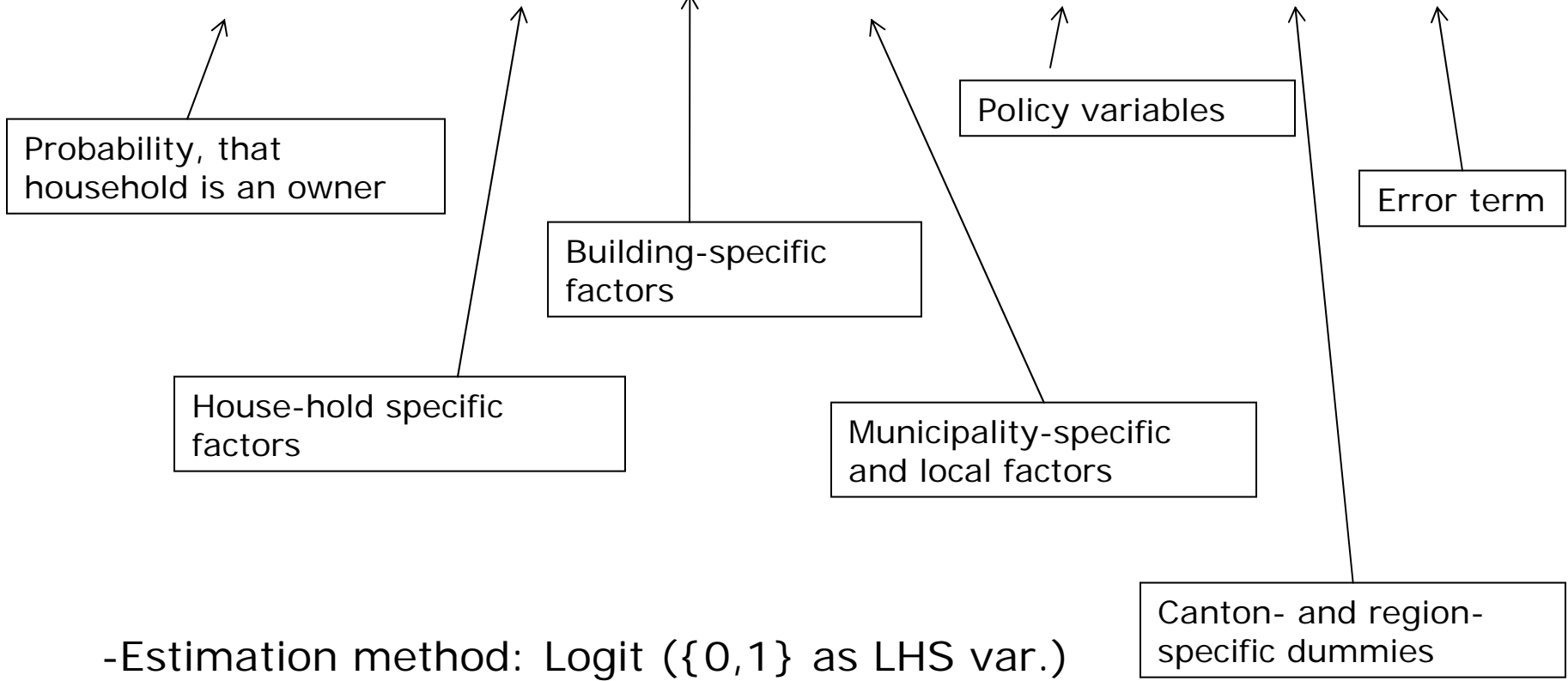
Source: Volkszählungen 1970 und 2000. Eigene Berechnungen.

The determinants of homeownership



Model specification

$$\Pr(\text{own}_{it}) = \alpha_0 + \alpha_1 x_{it} + \alpha_2 a_{it} + \alpha_3 (A_{lt})_{it} + \alpha_4 (P_{lt})_{it} + \alpha_5 D(l)_{it} + \varepsilon_{it}$$



-Estimation method: Logit ($\{0,1\}$ as LHS var.)

-Separate estimations for censuses 1970, 1980, 1990 and 2000 plus change over time

Data sources

- Population census data (1970, 1980, 1990 and 2000) for household- and building-specific information from BFS

	Number of observations			
year	1970	1980	1990	2000
Number of households	1'385'005	1'849'875	2'192'568	2'346'803
Number of municipalities	2'890	2'891	2'896	2'893

- Statistic on the federal direct taxes from BFS
- Spatial planning statistic (2000) from BFS
- Information on housing policies from several sources (Swiss Federal Office for Housing, Hornung (2000), federal tax administration, cantonal administrations).

Explained variables

Variables

Description

HO all

Dummy variable, is one if household is owner of a house or of a condominium, and zero else.

HO house

Dummy variable, is one if household is owner of a house, and zero else.

HO condo

Dummy variable, is one if household is owner of a condominium, and zero else.

Explanatory variables: household-specific (1)

Household-specific characteristics

<i>Age head</i>	Age of household's head.
<i>Single head</i>	Dummy variable: is one if household head is single, and zero else.
<i>Foreigner head</i>	Dummy variable: is if household head is a foreigner, and zero else.
<i>Number of children</i>	Dummy variables for the number of children by household: <ul style="list-style-type: none">-no children (reference category)-one child-two or more children
<i>Interaction Age - Children</i>	Interaction between age of household's head and number of kids in household (3 categories)

Explanatory variables: household-specific (2)

Household-specific characteristics

Education level head and partner Dummy variables for the education level of household head and partner

Interaction Education – Age head Interaction between the age of the household's head and the level of education

Earnings situation head and partner Dummy variables for the earning situation of head and partner - differentiation between fulltime/part-time

Self-employment head and partner Dummy variables for the employment situation of head and partner no children – differentiation btw self- and not self-employed

Explanatory variables: household-specific (3)

Household-specific characteristics

Same place of birth and place of residence Dummy variable: is one if head was born and lives in the same municipality

Constant place of residence Dummy variable: is one if head has been living in the same municipality for the last 5 years

Same place of residence and place of work Dummy variable: is one if head lives and works in the same labour market region (defined according to BFS 2005)

Average taxable income per household In 1'000 CHF; based on the federal direct tax revenues at the municipality level (level and squared values included)

Explanatory variables: building-specific

Accommodation-specific characteristics

Type of building

Dummy variables:

- single family house
- two-family house
- more than two families house (reference category)

Age of building

Dummy variables: Four different categories:

- Building was built before 1946
- Building was built btw 1946 and 1980
- Building was built btw 1981 and before 1995
- Building was built btw 1996 and 2000 (reference category)

Explanatory variables: location-specific

Location-specific characteristics

Empty housing share Share of empty housing for rent and sale relative to total number of housing (in %).

Population density Number of inhabitants pro hectare residential area in the municipality (in %).

Building density Percentage of not yet built area within the residential area of the municipality (in %).

Type of municipality Dummy variables based on classification of BFS 2005: Five categories:

- central municipality of an agglomeration (reference category),
- other municipality of an agglomeration,
- isolated municipality
- rural municipality

Explanatory variables: location-specific (2)

Location-specific characteristics

<i>Touristic municipality</i>	Dummy variable: take the value of one if community is a touristic municipality
<i>Canton resp.</i> <i>Arbeitsmarktregion</i>	Dummy, one category per canton, resp. Arbeitsmarktregion

Selected results (1/4)

Preliminary comments:

- Our model specifications explain up to 58% of the variation in the dependent variable; most of the coefficients are statistically significant.
- Many results are intuitive, some are unexpected and need further explanations. Overall, very large number of findings.
- In what follows: presentations of a few results only, and in particular those with relevance for the NRP.

Selected results (2/4)

Household-specific factors:

- The older the household head, the more likely is the household living in the own house or apartment.
- Children: negative impact on homeownership, but this effect is affected by age of household head: The older the household head, the more likely is homeownership.
- Higher education of household head and his/her partner does not necessarily lead to a higher homeownership rate. Again, effect is influenced by age.

Selected results (3/4)

Household-specific factors: (cont.)

- Identical birth and living place: Homeownership is more likely.
- Same living place during the last 5 years: Homeownership is more likely.
- Living and working in the same labour market region: Homeownership is more likely for apartment owners and less likely for homeowners.

Selected results (4/4)

Location-specific factors:

- Share of empty housings by municipality: Positive effect on homeownership.
- Density of population: The higher the density by municipality, the less likely is homeownership.
- Type of municipality: The more rural the place, the more likely is homeownership.
- Touristic municipalities: Higher share of homeowners.

Homeownership and new regional policy (1/2)

„The federal government promotes the development of innovations [...]. Its objectives are to increase the competitiveness of the regions [...].

*The federal government only supports projects that strengthen the region as a **business location** [...].“*

SECO, The federal government's regional policy, p. 4 and 22



Strategies for residential locations are not included in NRP!

Homeownership and new regional policy (2/2)

However ...

- our study shows that the place of work, the place of residence and the probability of owning a home are interlinked with each other.

This means that a NRP ...

- promoting businesses and therefore creating new jobs influences tenure choices and, therefore, not only the *quantity* but also the *quality of housing demand* as well as the *mobility behavior* of the population, with all its consequences.



Business location strategies need to be flanked by complementary residential location strategies!

Conclusions

- Switzerland has a low homeownership rate, but there exist very large differences between cantons and regions.
- Explaining homeownership rates in Switzerland calls for a complex model that integrates many different aspects.
- Housing is directly related to labour market outcomes, i.e., any policy that promotes a region as a business location also has to take into account any effects on the demand (and supply) of housing and on mobility.