## Contents

1	Introduction	8
1.1	Motivation and approach	8
1.2	Framework and definitions	10
2	The research context	12
2.1	The neoclassical growth model	
2.2	The financial sector and economic growth models	
2.2.1	Functions of the financial sector	
2.2.2	Too much of a good thing?	
2.2.3	Financial sector and growth	
2.3	Empirical research on the financial sector and growth	
2.3.1	The nineties' literature	
2.3.2	Taking the critique into account	
2.3.3	Effects on small and large firms	
2.3.4	Causality between aggregate growth and financial-sector development	
2.4	Chapter summary	
3	Selected facts about the Swiss financial sector	22
3.1	Size and development of the financial sector	
3.2	Variation in regions and countries	
3.3	Growth contributions of key industries of Switzerland	
3.4	Sub-sectoral structure	
3.5	International links of the Swiss financial sector	
3.6	Chapter summary	
		74
4	Research setup	
<b>4</b> 4.1	Research setup	31
<b>4</b> 4.1 4.1.1	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature	
<b>4</b> 4.1 4.1.1 4.1.2	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development	31 31 33
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development Financial development of the Swiss economy	31 31 33 34
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development Financial development of the Swiss economy The transmission channels under scrutiny.	31 31 33 34 35
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development. Financial development of the Swiss economy. The transmission channels under scrutiny. Isolating the catalytic impact on growth	31 33 34 35 37
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development. Financial development of the Swiss economy. The transmission channels under scrutiny. Isolating the catalytic impact on growth Key contributions to research	31 33 34 35 37 38
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1	Research setup Measuring the financial sector Excursus: Indicators of financial development in the literature Indicators of financial development. Financial development of the Swiss economy. The transmission channels under scrutiny. Isolating the catalytic impact on growth Key contributions to research Concentration on OECD economies	31 33 34 35 37 38 38
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.1	Research setup	31 33 34 35 37 38 38 38 38
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3	Research setup	31 33 34 35 37 38 38 38 38 38
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.1	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level	31 33 34 35 37 38 38 38 38 38 38 39
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature	
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.3 4.4.4	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level   Data at the regional level   Methodology and data   Data	
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5 4.5.1	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level   Data at the regional level   Methodology and data   Data   1   Dependent variables	31 33 34 35 37 38 38 38 38 38 38 38 38 39 40 40 40
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5 4.5.1 4.5.1.2	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level   Data at the regional level   Methodology and data   Data   1   Dependent variables   2 Key explanatory variables	31 33 34 35 37 38 38 38 38 38 38 38 38 38 39 40 40 40 41
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5 4.5.1 4.5.1.2 4.5.1.2	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level   Data at the regional level   Methodology and data   Data   1 Dependent variables   2 Key explanatory variables	31 31 33 34 35 37 38 38 38 38 38 39 40 40 40 40 41
<b>4</b> 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5 4.5.1 4.5.1.1 4.5.1.1	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development.   Financial development of the Swiss economy   The transmission channels under scrutiny   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators   Data at the sector level   Data at the regional level   Methodology and data   Data   Control variables   Control variables   Econometric Model	31 31 33 34 35 37 38 38 38 38 38 38 38 39 40 40 40 40 40 41 41 42 33 43
4 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.1 4.4.2 4.4.3 4.4.4 4.5 4.5.1 4.5.1 4.5.1 4.5.1 4.5.1	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development.   Financial development of the Swiss economy.   The transmission channels under scrutiny.   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators.   Data at the sector level   Data at the regional level   Methodology and data   Data.   1 Dependent variables.   2 Key explanatory variables   3 Control variables   Econometric Model Choice of random and fixed effects estimator	31 33 34 35 37 38 38 38 38 38 38 38 38 38 38 38 38 40 40 41 43 44
4 4.1 4.1.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.3 4.4.4 4.5.1 4.5.1. 4.5.5.1. 4.5.5.1. 4.5.5.2	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development.   Financial development of the Swiss economy.   The transmission channels under scrutiny.   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators.   Data at the sector level   Data at the regional level   Methodology and data   Data.   1 Dependent variables.   2 Key explanatory variables .   3 Control variables .   Econometric Model Choice of random and fixed effects estimator   2 Stationarity	31 33 34 35 37 38 38 38 38 38 38 38 38 38 39 40 40 41 42 43 44 45
4 4.1 4.1.2 4.1.3 4.2 4.3 4.4 4.4.3 4.4.4 4.4.3 4.4.4 4.4.3 4.4.4 4.5.1.1 4.5.1.1 4.5.1.2 4.5.2 4.5.2.2	Research setup   Measuring the financial sector   Excursus: Indicators of financial development in the literature   Indicators of financial development.   Financial development of the Swiss economy.   The transmission channels under scrutiny.   Isolating the catalytic impact on growth   Key contributions to research   Concentration on OECD economies   Multiple specifications and indicators.   Data at the sector level.   Data at the regional level.   Methodology and data   Data.   1 Dependent variables.   2 Key explanatory variables   3 Control variables   2 Stationarity   3 Correlations between financial development indicators	



7	Literature	85
6	Conclusion and summary	82
5.5.3	Results for Output Growth Volatility in the regional aggregate economy	79
5.5.2	Results for Output Growth Volatility in the aggregate economy	79
5.5.1	Specification	78
5.5	Systemic risks & volatility	
5.4.2	Results for Patents Growth in the aggregate economy	75
5.4.1	Specification	
5.4	Innovation	74
5.3.3	Results for growth in specific industries at regional level	66
5.3.2	Results for growth of the regional economy	62
5.3.1	Specification	60
5.3	Size of the regional financial sector	60
5.2.3	Results for specific industries	
5.2.2	Results for growth of aggregate economy	
5.2.1	Specification	51
5.2	Size of the financial sector	
5.1	Hypotheses summary	