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# Detecting house price bubbles -UBS Swiss Real Estate Bubble Index



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## Plausible story – Fairy tale of scarce land

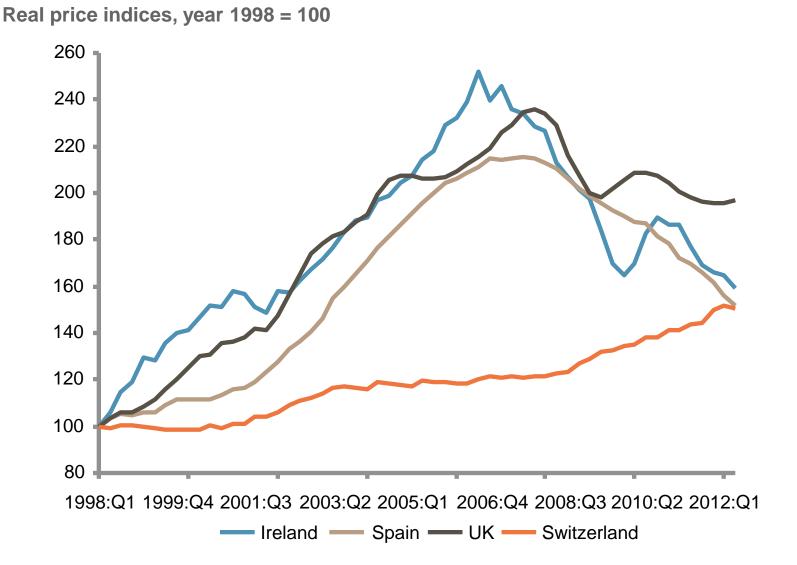
Distance Parene

California

- Development of real estate bubble 1880-1887
- Bubble bursts in 1888
- Explanation for bubble: scarcity of land
- Population
  - 1880: 864'694
  - 2010: 37'253'956

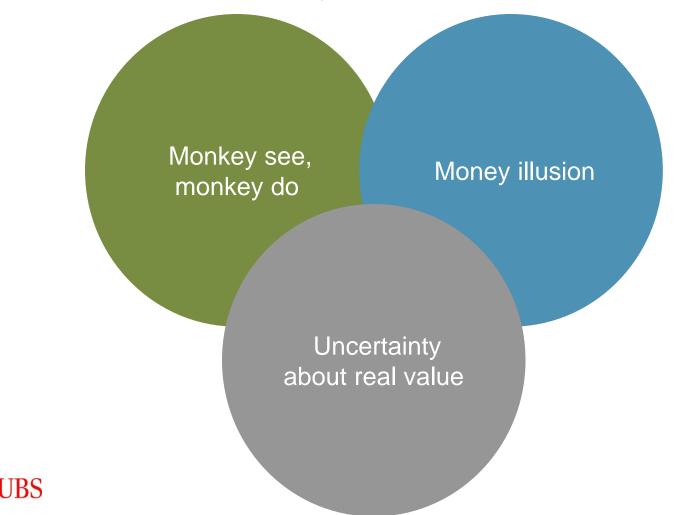
Fifth Street, looking north from G, circa 1887. San Diego Public Library

## Burst real estate bubbles and Switzerland



#### How is a real estate bubble *defined*?

A real estate bubble is a deviation of the market price from the fundamental value of an investment driven by **speculative** demand.



A real estate bubble should be not detected by its burst!

- 1. (Chart) Technical perspective
- 2. Fundamental perspective
- 3. Behavioral perspective

#### Are fundamental analyses *reliable*?

Analysed countries	Assessment in OECD 2005*	Real price development		Ex-post
		till peak	since peak	analysis
USA		8,7%	-25,4%	×
Japan		-1,1%	-12,1%	×
Germany		-0,4%	<b>-3,9%</b>	$\checkmark$
France		20,9%	-3,5%	$\checkmark$
Italy		9,4%	-17,0%	×
UK		13,8%	-16,5%	$\checkmark$
Canada		46,6%	0,0%	$\checkmark$
Australia		25,3%	-8,3%	×
Denmark		33,6%	-28,5%	×
Finland		14,7%	-5,5%	$\checkmark$
Ireland		21,6%	-36,9%	$\checkmark$
Korea		13,8%	-1,3%	$\checkmark$
Netherlands		7,9%	-16,4%	$\checkmark$
Norway		41,0%	0,0%	×
New Zealand		23,3%	-12,3%	$\checkmark$
Spain		12,7%	-29,5%	$\checkmark$
Sweden		34,2%	-5,7%	×
Switzerland		25,0%	0,0%	$\checkmark$
Significantly overvalued				
Slightly overvalued			Miss	×
Not overvalued			Hit	✓

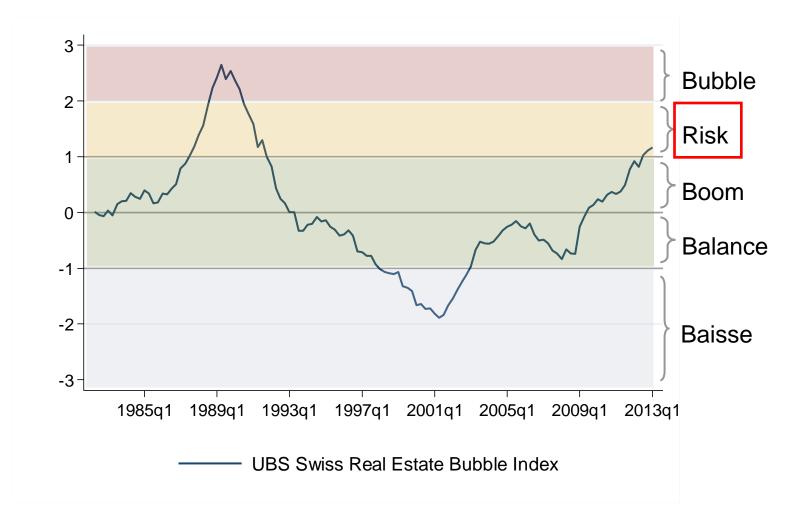
 $\sim UBS$  \*Recent House Price Developments: The Role of Fundamentals

OECD 2005: Economic Outlook 78

## Indicator system of the UBS Swiss Real Estate Bubble Index

Transparent and clear methodology

- (Chart) Technical perspective
  - Owner-occupied housing prices to consumer prices
- Fundamental perspective
  - Ratio owner-occupied housing prices and rental costs
  - Ratio owner-occupied housing prices and household income
- Behavioral perspective
  - Loan applications (UBS) for buy-to-let properties
- Further indicators
  - Outstanding mortgages to income
  - Construction volume to GDP



#### Regulatory measures to reduce mortgage risks

- New (qualitative) guidelines for mortgage business (SBVg, as at 1.1.2012)
- Guidelines regarding minimum requirements for mortgage lending (SBVg, 1.7.2012)
  - 1. Minimum share of own equity on collateral value of 10 per cent, which is not allowed to come from pension funds savings.
  - 2. The mortgage debt must be reduced in at least 20 years to 2/3 of the collateral value.
- New capital adequacy ordinance (as at 1.1.2013)
- Introduction of countercyclical capital buffer as at October 2013
  - Banks be obliged to hold a countercyclical capital buffer amounting to 1% of their riskweighted, direct or indirect mortgage-backed positions secured by residential property in Switzerland.
  - The banking industry will need to hold additional equity capital in the amount of CHF 2 billion. At a constant return on equity, new mortgages will become more expensive by 3-5 basis points.
  - 3. The countercycliccal capital buffer is still clearly below the suggestion in the ordinance which proposes that the capital buffer can amount to a maximum of 2.5% of banks' risk-weighted positions in Switzerland.



- The UBS Swiss Real Estate Bubble Index has become the Benchmark for the market evaluation in Switzerland
- The index meets with *media interest* national and international
- Transparent and clear methodology are the base for the success of the product
- Used intensly by internal and external *risik boards* and *customer service*
- The *regional risk map* which is linked with the index is used internally and externally (e.g. by pension funds) for portfolio management



# Thank you for your attention!

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