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



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6 June 2013

## Plausible story – Fairy tale of scarce land

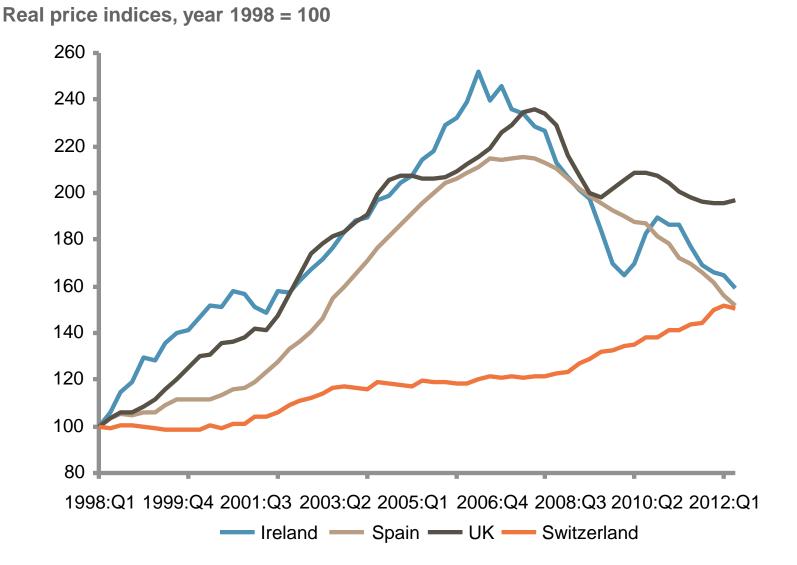
Distance Parene

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

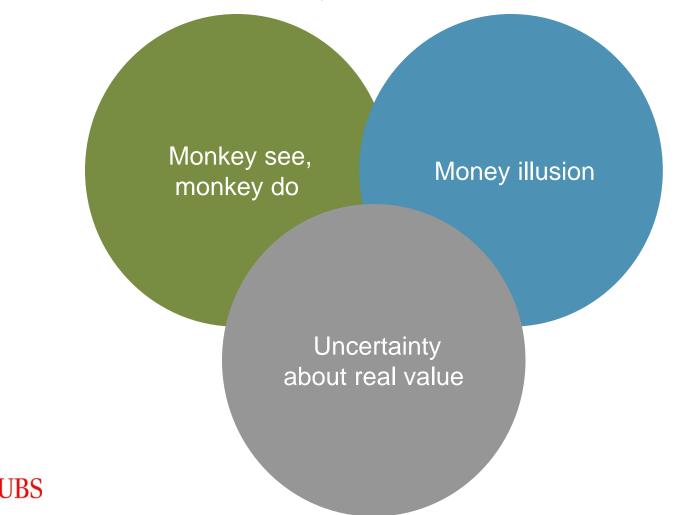
Fifth Street, looking north from G, circa 1887. San Diego Public Library

## 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<br>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          | ✓            |

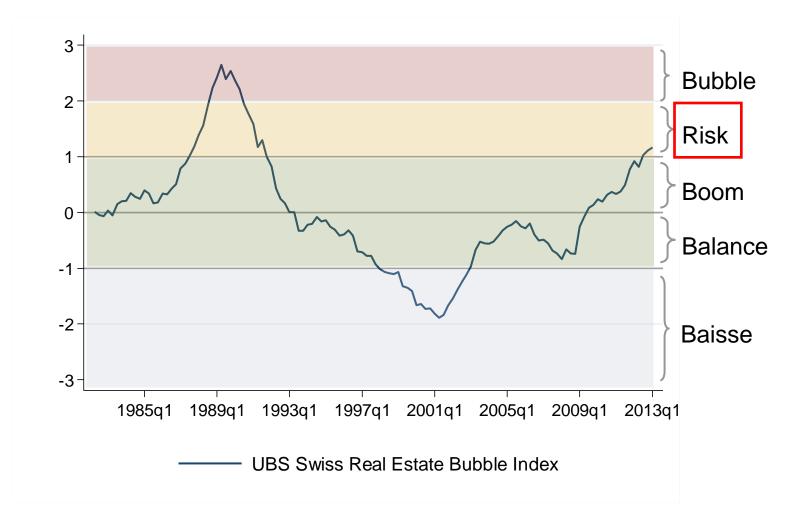
 $\sim UBS$  \*Recent House Price Developments: The Role of Fundamentals

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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