

## FIRST PRINCIPLE OF SOUND INVESTING

### THERE IS NO SAFE INVESTMENT

Government bonds may not be paid back as promised

Bank deposits may not be paid back as promised

Paper money loses its value through inflation

Real estate values may suffer enormous declines

**“There is no such thing as a perfectly safe investment...**

A radical change in conditions may render bad even investments commonly considered perfectly safe.”

Ludwig von Mises, *Human Action* (1949)

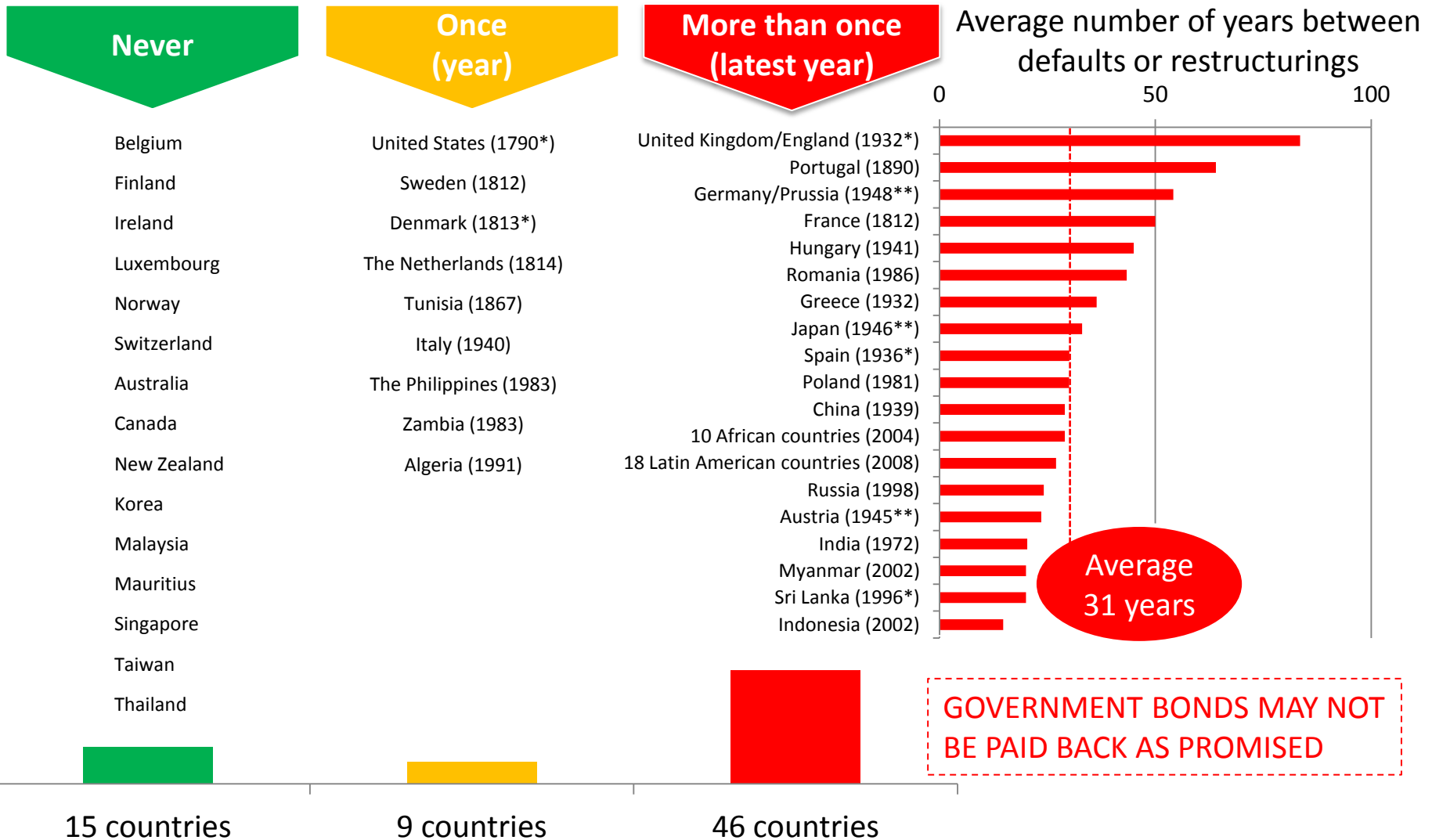
# The notion of safe investments has powerful supporters

## STATEMENTS REAFFIRMING SAFETY OF INVESTMENTS

INVESTMENT	SAFE?
<b>GOVERNMENT BONDS</b>	<ul style="list-style-type: none"><li>• “Though a truly <b>risk-free asset</b> exists only in theory, in practice most professionals and academics use <b>short-dated government bonds</b>.” (<i>wikinest.com</i>)</li><li>• “Both [current European banking regulation and plans to implement Basel III in the EU] treat <b>government bonds</b> of member states as <b>risk-free</b>, highly liquid assets and exclude them from capital requirements and large exposure regimes.” (<i>DIW Berlin, October 2012</i>)</li></ul>
<b>BANK DEPOSITS</b>	<ul style="list-style-type: none"><li>• “We want to tell savers that their <b>deposits are safe</b>.” (<i>Angela Merkel, Chancellor of Germany, 5.10.2008</i>)</li><li>• The “Central Bank of Cyprus wishes to stress that <b>any action aimed at</b> reducing, depriving or <b>restricting the property rights of depositors</b>, contradicts ... the Constitution of the Republic of Cyprus and ... the European Convention of Human Rights ... Hence, any suggestion to the contrary is not only legally unfounded but it <b>cannot merit serious consideration</b>.” (<i>Central Bank of Cyprus, 11.2.2013, six weeks before bank deposits were partially confiscated</i>)</li></ul>
<b>CASH</b>	“We can be proud to have a <b>stable and credible currency</b> . There is no crisis of the euro. Instead, what we are currently observing in parts of the euro area is first and foremost a fiscal crisis.” ( <i>Jean-Claude Trichet, ECB President 2003-11, 15.5.2011</i> )
<b>REAL ESTATE</b>	<ul style="list-style-type: none"><li>• “We’ve <b>never had a decline in house prices</b> on a national basis. So, what I think what is most likely to happen is that house prices will slow, maybe stabilize.” (<i>Ben Bernanke, FED Chairman 2006-13, in July 2005, one year before house prices started declining by 30%</i>)</li><li>• “Nobody ever lost from investing in real estate.” (<i>Greek folk wisdom widely believed until 2009</i>)</li></ul>

# Most countries have defaulted or restructured their debt at least once

## NUMBER OF DEFAULTS OR RESTRUCTURINGS OF PUBLIC DEBT (EXTERNAL AND DOMESTIC) Until 2008



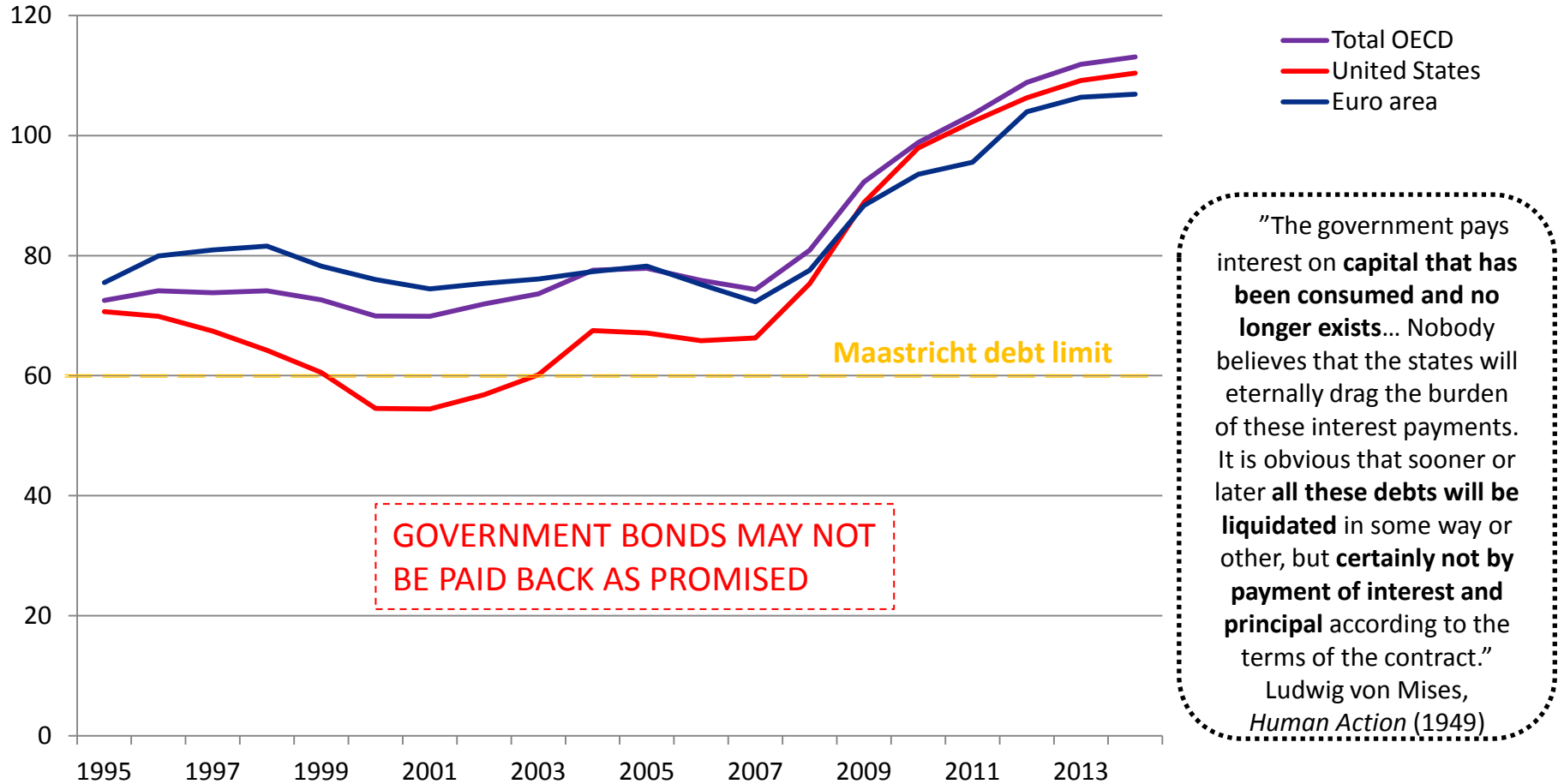
Source: Reinhart/Rogoff (2009, chapters 6,7); own research and calculations

\* Domestic debt only \*\* Currency reform

# Strong growth in government debt makes future defaults more likely

## OECD GENERAL GOVERNMENT GROSS FINANCIAL LIABILITIES

In % of nominal GDP



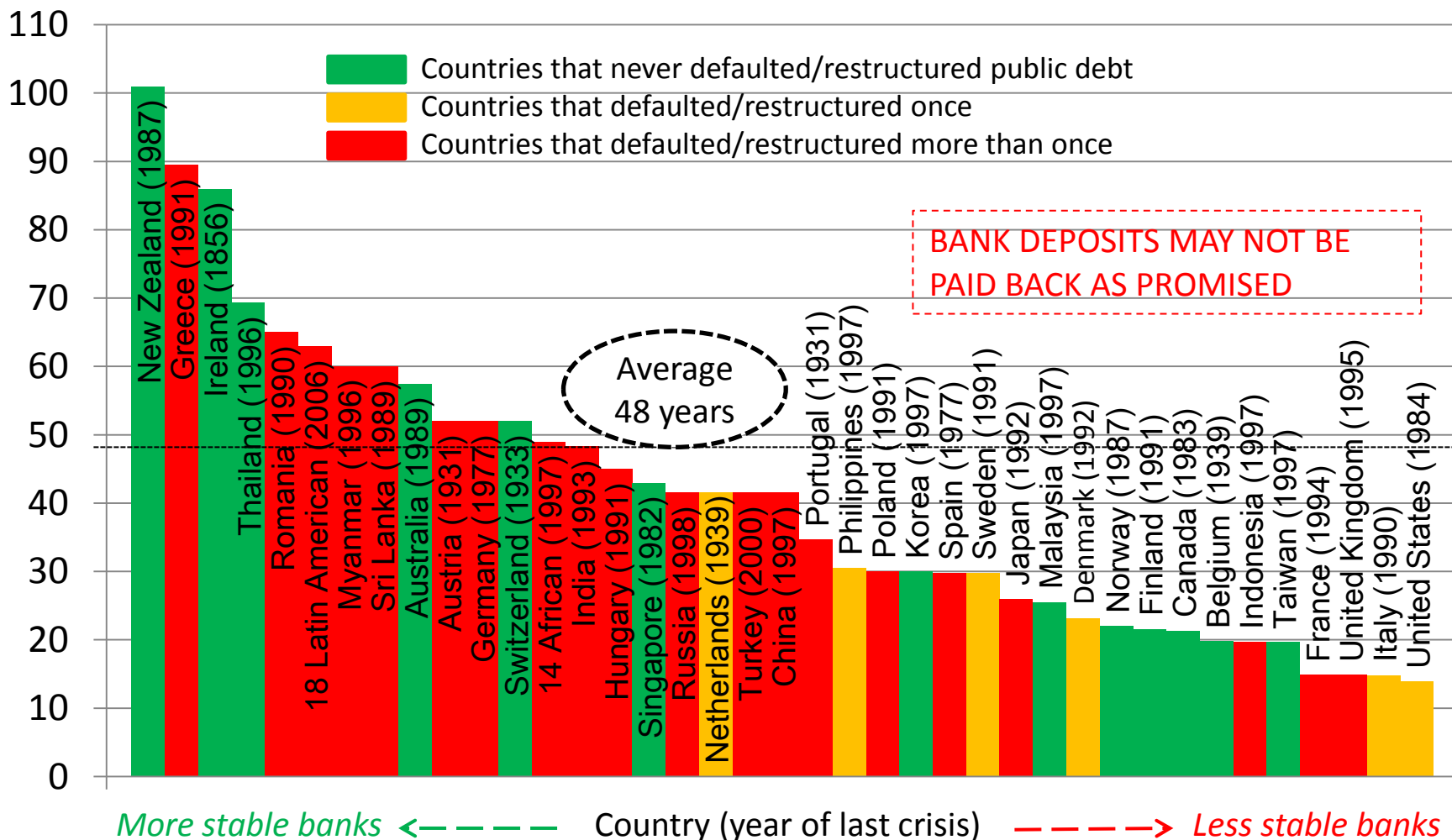
Source: OECD Economic Outlook database

# Even the most solvent countries suffer regular banking crises

## AVERAGE NUMBER OF YEARS BETWEEN BANKING CRISES\*

From 1800 or independence until 2008

SAME SAMPLE AS DEFAULT DATA



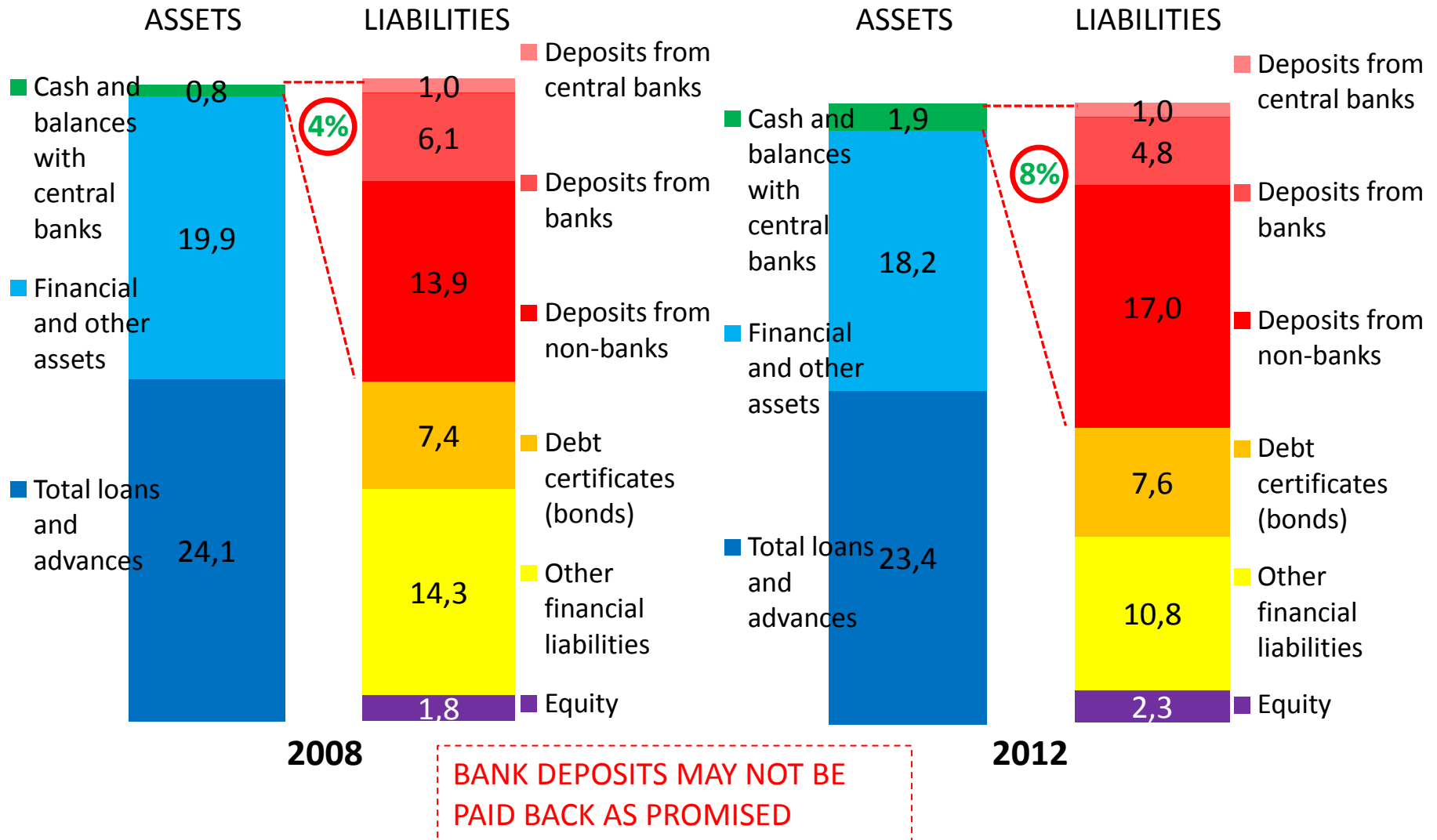
Source: Reinhart/Rogoff (2009, appendix A.3); own calculations

\* Involving bank runs or closure, merging, takeover or large-scale government assistance of important financial institutions (RR, p. 10)

# Only a small fraction of deposits is covered by cash

## CONSOLIDATED BALANCE SHEET EU BANKS

In trn EUR



Source: ECB Consolidated Banking Data 2008-2012

Matthias Kelm, Ph.D., Independent Economic Advisor, Tareno (Luxembourg) S.A.

# All countries have suffered high inflation in the past

## MAXIMUM ANNUAL INFLATION (COUNTRY, YEAR)

### HYPERINFLATION

< 10%	10 - 20%	20 - 40%	40 - 80%	80 - 200%	200 - 500%	> 500%
	Panama (1974) New Zealand (1980)	Netherlands (1918) Hong Kong (1949) Malaysia (1950) Singapore (1973) Canada (1917) United States (1864) Switzerland (1918) Côte d'Ivoire (1994) Central African Republic (1971) Taiwan (1973) El Salvador (1986) Sri Lanka (1948) Mauritius (1980) Honduras (1991) United Kingdom (1800) South Africa (1919) Sweden (1918)	Egypt (1941) Guatemala (1990) Kenya (1993) Denmark (1800) Belgium (1812) Dominican Republic (2004) Colombia (1802) India (1943) Australia (1854) Morocco (1947) Myanmar (2002) Algeria (1947) Tunisia (1943) Nigeria (1995) France (1946) Thailand (1919)	Portugal (1808) Iceland (1983) Costa Rica (1982) Ecuador (2000) Venezuela (1996) Spain (1808) Uruguay (1990) Turkey (1942) Ghana (1983) Mexico (1987) Paraguay (1952) Philippines (1943) Norway (1812) Zambia (1993)	Korea (1951) Finland (1918) Chile (1973) Italy (1944)	Japan (1945) Indonesia (1966) China (1947) Austria (1922) Brazil (1990) Argentina (1989) Angola (1996) Peru (1990) Bolivia (1985) Nicaragua (1987) Russia (1923) Poland (1923) Greece (1944) Germany (1923) Zimbabwe (2008) Hungary (1946)

PAPER MONEY LOSES ITS  
VALUE THROUGH INFLATION

Source: Reinhart/Rogoff (2009, chapter 12)

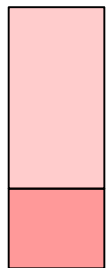
# In the stable post-war period, all countries experienced significant inflation

## AVERAGE ANNUAL INFLATION 1951 – 2010 BY COUNTRY

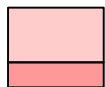
0 - 2%	2 - 4%	4 - 6%	6 - 8%	8 - 12%	12 - 20%	20 - 40%	> 40%
	Panama Switzerland Malaysia Belgium Luxembourg Japan Netherlands Austria United States Canada	<b>Germany</b> Thailand Tunisia Morocco <b>France</b> Denmark Norway <b>United Kingdom</b> Sweden Australia Finland New Zealand <b>Italy</b>	Mauritius India Spain El Salvador Guatemala Sri Lanka Hungary Egypt Portugal South Africa Honduras Philippines	<b>Greece</b> Kenya Dominican Republic Costa Rica Myanmar	Columbia Paraguay Iceland Venezuela Ecuador Mexico Poland	Zambia Ghana Turkey Indonesia Chile Uruguay	Bolivia Peru Nicaragua Argentina Brazil

## PURCHASING POWER AFTER 60 YEARS (1951 – 2010)

30 - 100%



10 - 30%



3 - 10%



1 - 3%



0 - 1%



0%



0%



0%



PAPER MONEY LOSES ITS VALUE THROUGH INFLATION

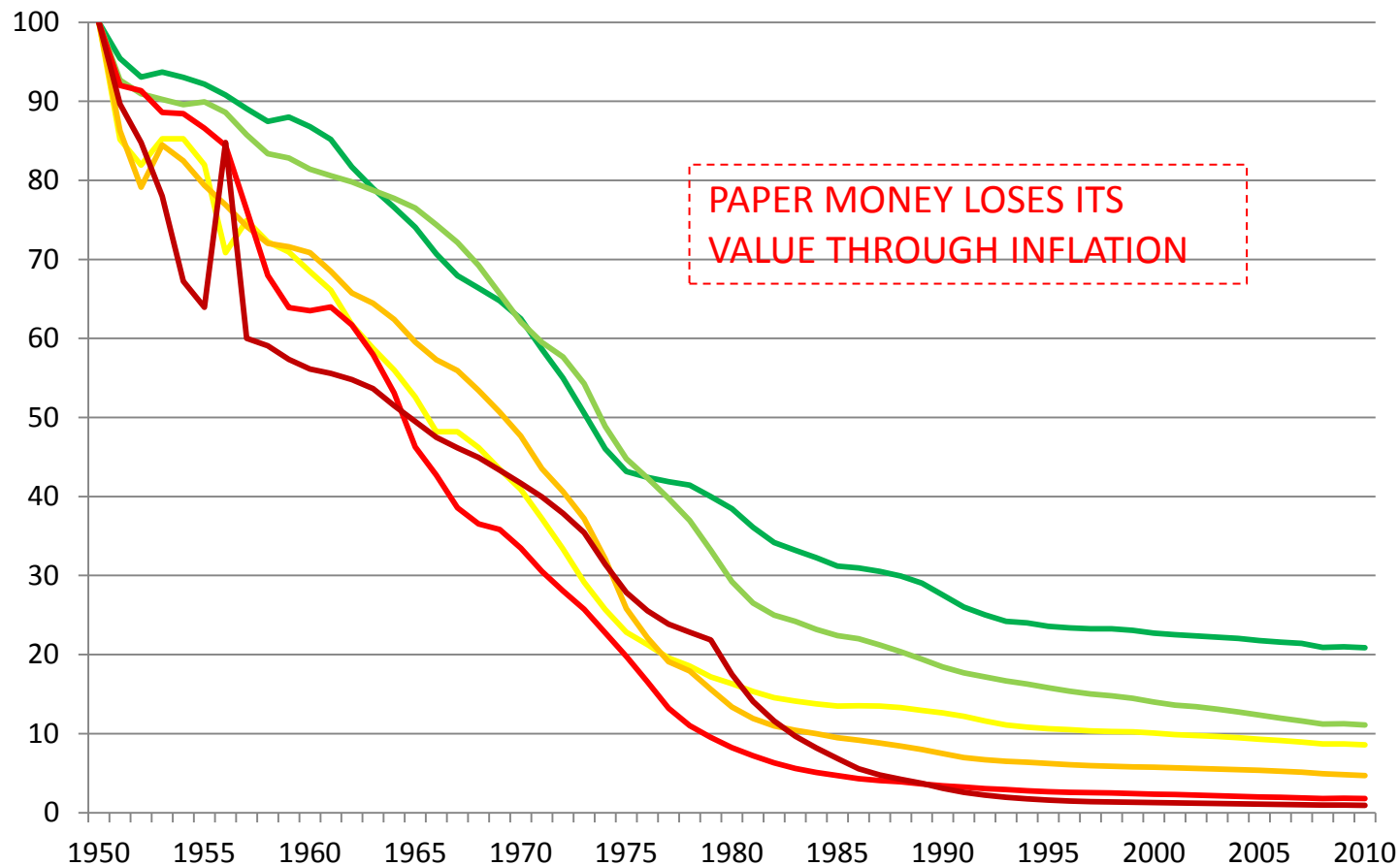
Source: Reinhart/Rogoff database; own calculations



# Even the most stable currencies lost at least 80% of their purchasing power

## PURCHASING POWER 1950 - 2010

1950 = 100



PAPER MONEY LOSES ITS  
VALUE THROUGH INFLATION

"All governments are firmly committed to the policy of **low interest rates, credit expansion and inflation.**"  
Ludwig von Mises,  
*Human Action*  
(1949)

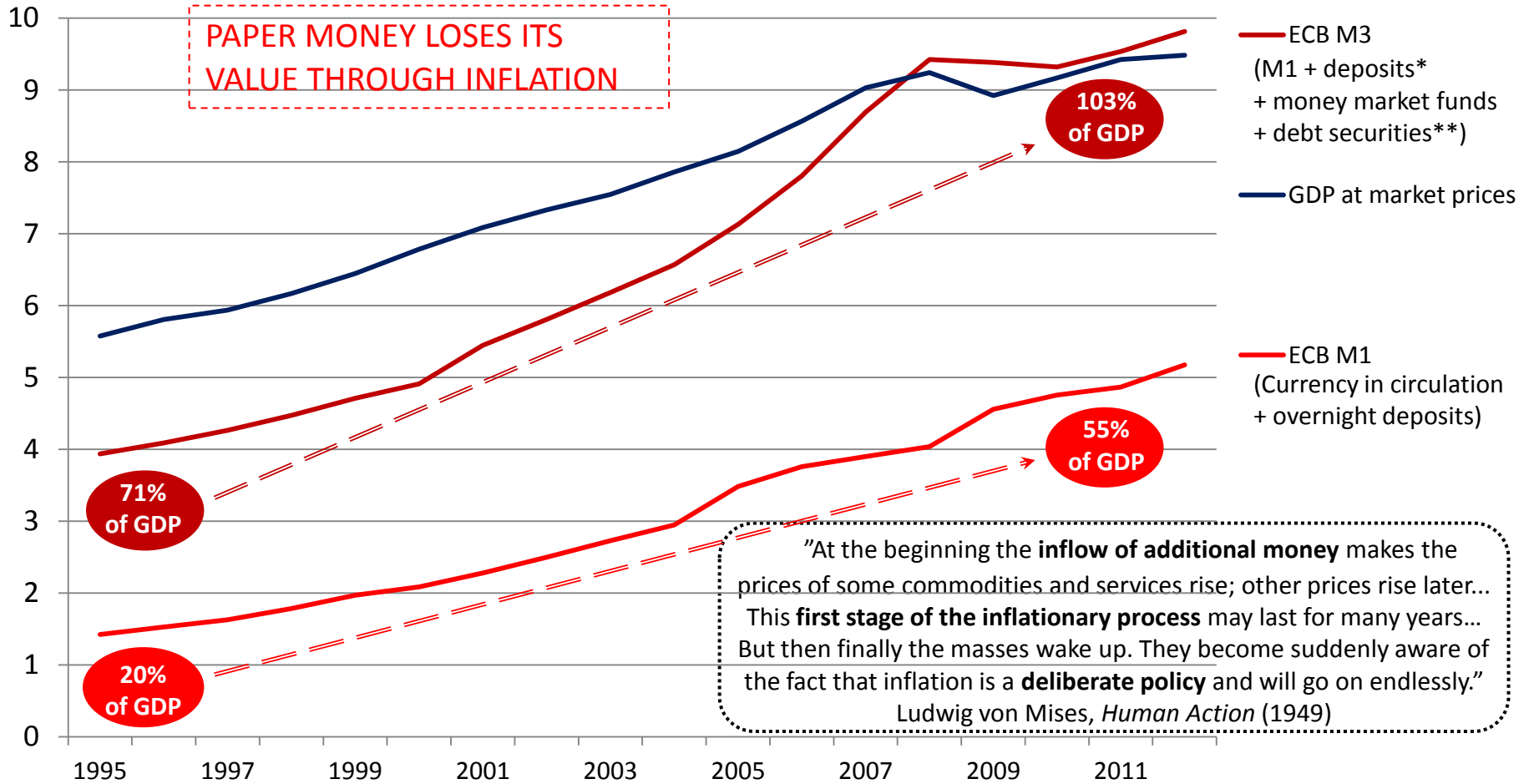
- Switzerland
- United States
- Germany
- United Kingdom
- Spain
- Greece

Source: Reinhart/Rogoff database; own calculations

# Strong growth of monetary aggregates makes future inflation more likely

## ECB MONETARY AGGREGATES AND EUROZONE NOMINAL GDP 1995-2012

In trn EUR

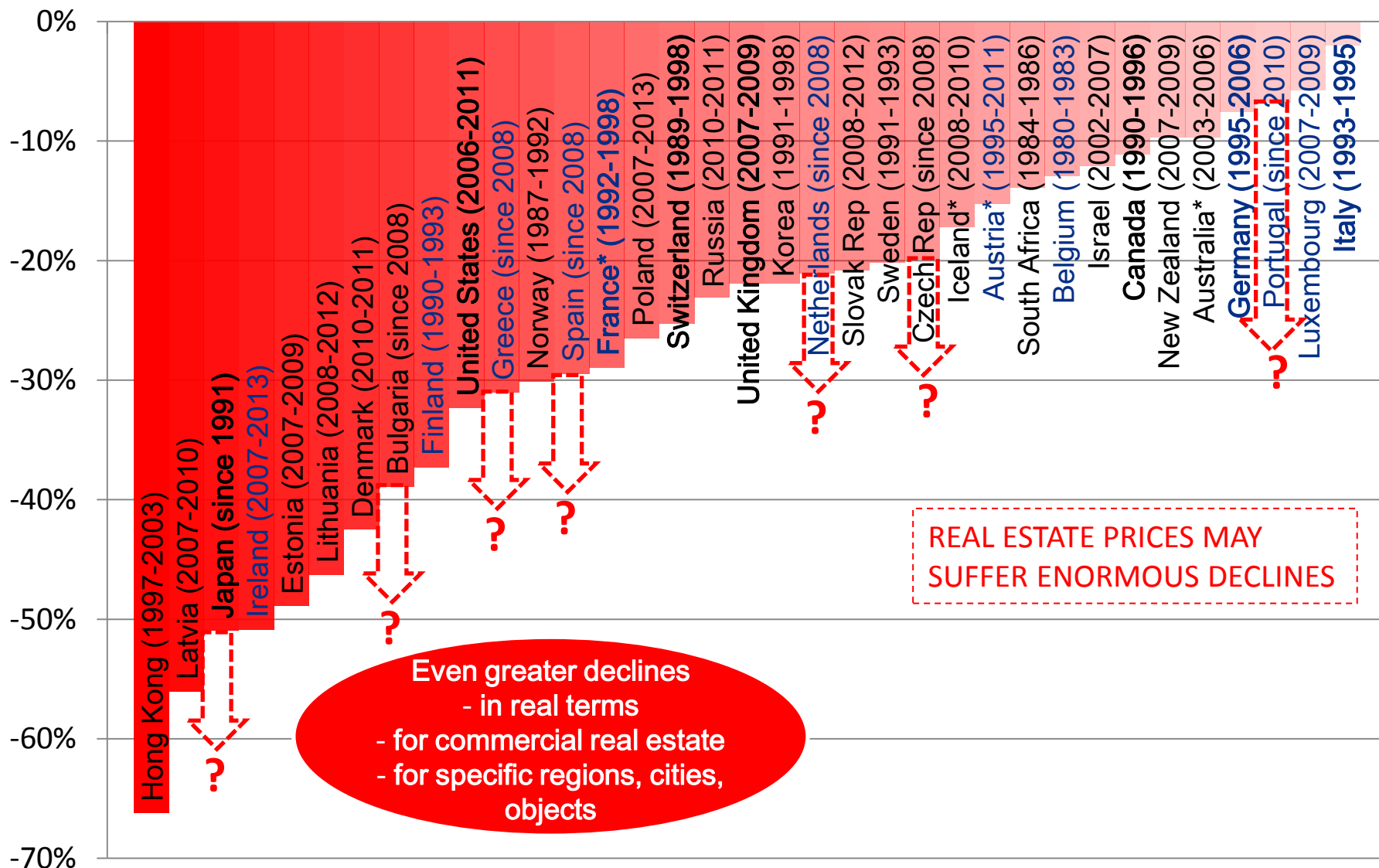


Source: ECB Statistical Data Warehouse

\* With maturity up to 2 years or redeemable at notice up to 3 months \*\* Up to 2 years

# Most countries have experienced at least one real estate crash since 1980

## GREATEST NOMINAL DECLINES IN RESIDENTIAL REAL ESTATE AFTER 1980\*\*



Source: BIS Property Price Statistics

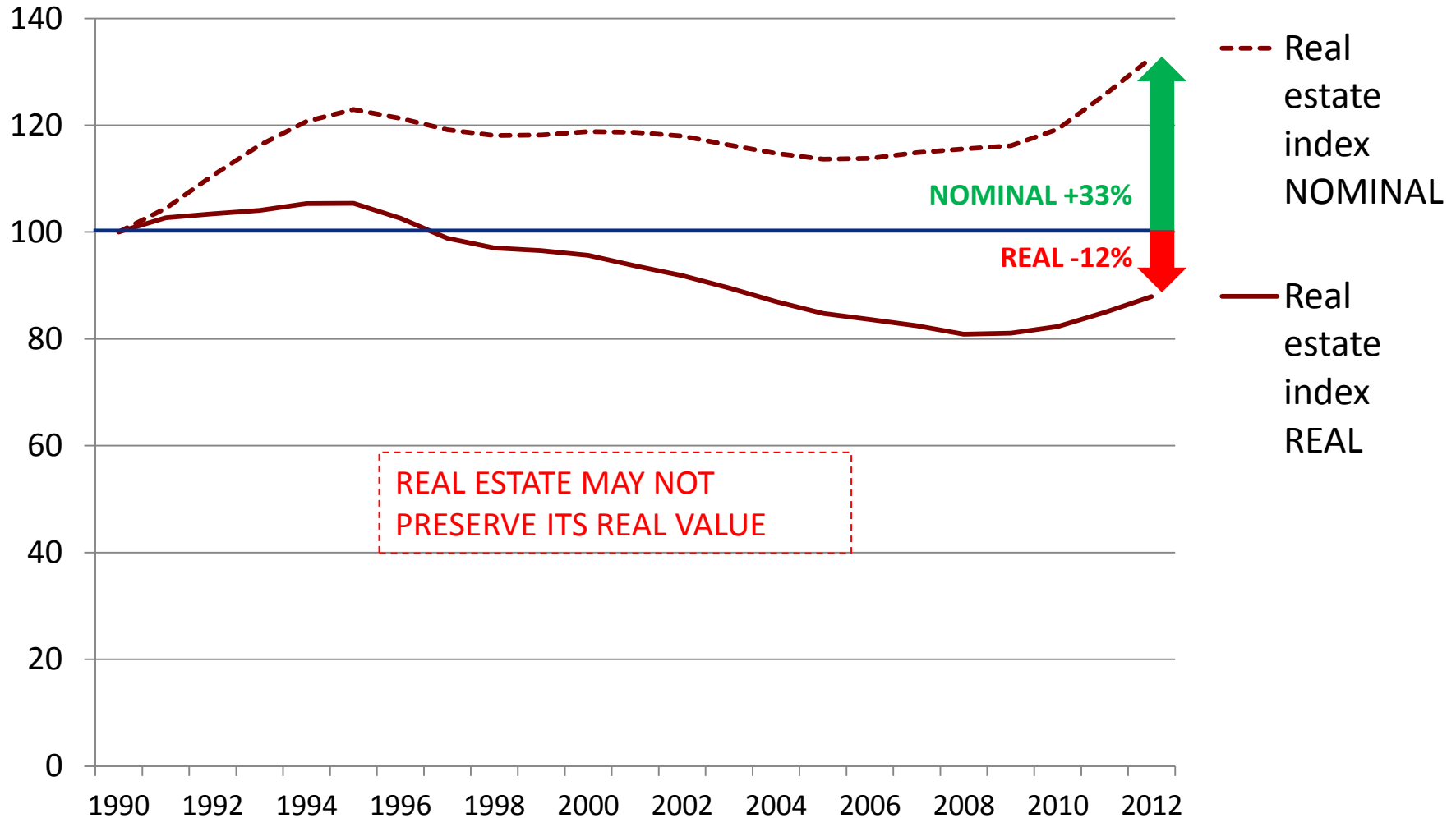
\* Major city

\*\* Subject to data availability - only countries with data for at least 7 years included

# German real estate bought at reunification did not preserve its real value

## NOMINAL AND REAL PRICES FOR GERMAN RESIDENTIAL REAL ESTATE

Real estate index 1990 = 100; nominal and real in 1990 prices

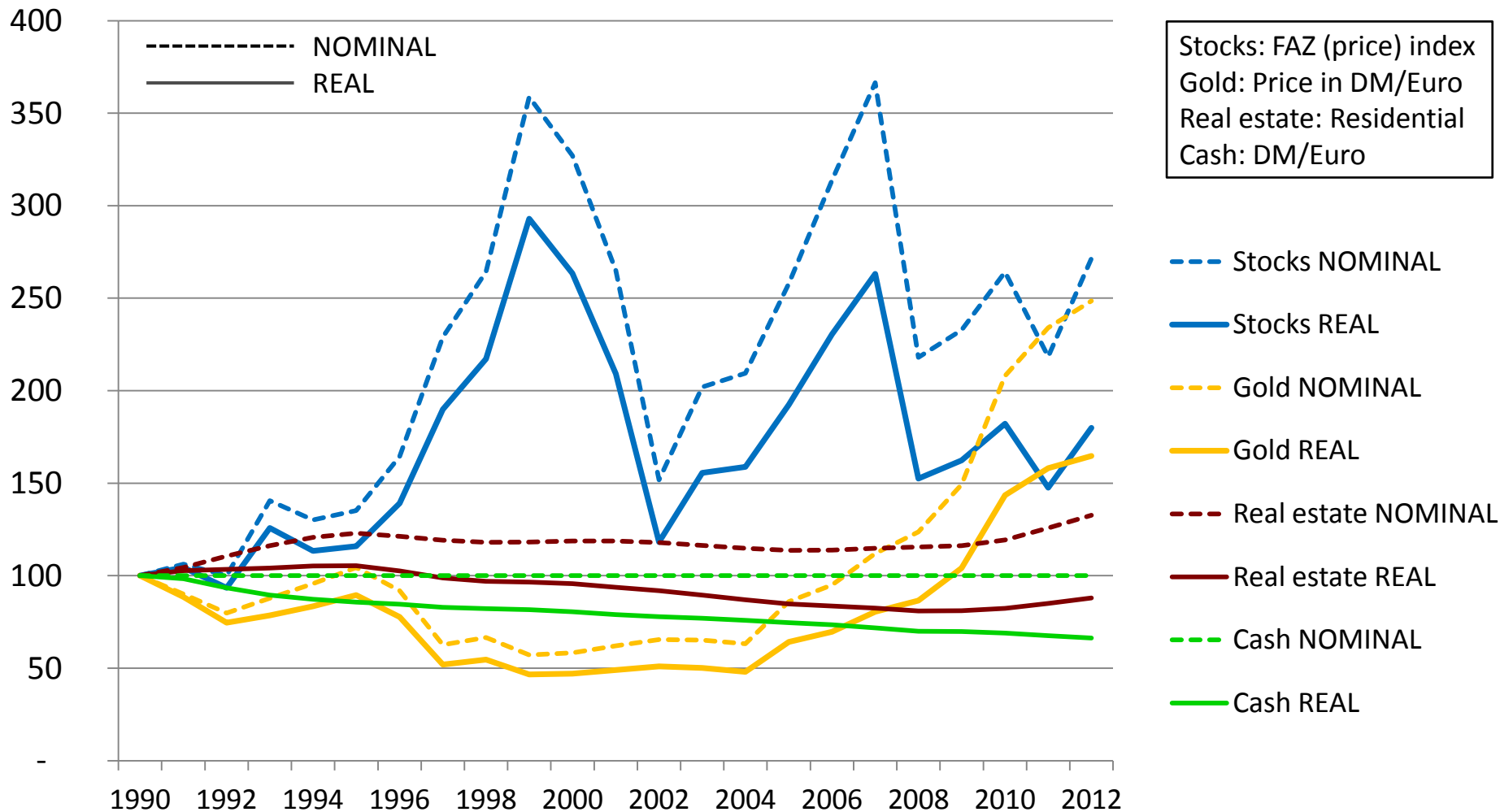


Source: Deutsche Bundesbank with data provided by Bulwien Gesa AG; own calculations

# Over the same period, stocks and gold achieved real gains

## NOMINAL AND REAL PRICES FOR GERMAN REAL ESTATE, STOCKS, GOLD AND CASH

Index 1990 = 100; nominal and real in 1990 prices



Source: Deutsche Bundesbank with data provided by Bulwien Gesa AG; own calculations

## FIRST PRINCIPLE OF SOUND INVESTING

### THERE IS NO SAFE INVESTMENT

Government bonds may not be paid back as promised

Bank deposits may not be paid back as promised

Paper money loses its value through inflation

Real estate values may suffer enormous declines

**“There is no such thing as a perfectly safe investment...**

A radical change in conditions may render bad even investments commonly considered perfectly safe.”

Ludwig von Mises, *Human Action* (1949)