Economic and financial crises, an overview

Mikael Wendschlag

mikael.wendschlag@ekhist.uu.se
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Today’s presentation

• Introduction

• For reference – the ”ideal” economy (101 economics)

• Economic ups and downs

• Economic depressions (the Great Depression)

• Financial crises

• Causes and effects of crises

• Managing crises
For referens: ”the Ideal economy”
101 Economics perspective

• GDP-growth 3-4 % per år

• Inflation 2 % per year (over a 2-year cycle)

• Unemployment around 5-6 %

• Public debt less than 60 % of GDP

• Gov. budget balance, +/- 2 %

• Stabile, but flexible, exchange rate (against major currencies)

• Balance of payment, (maybe a bit more export..)
For referens: ”the Ideal economy”
101 Economics perspective

• GDP-growth 3-4 % per år
  SWE: 3%

• Inflation 2 % per year (over a 2-year cycle)
  SWE: 1,9%

• Unemployment around 5-6 %
  SWE: 6,6%

• Public debt less than 60 % of GDP
  SWE: 40%

• Gov. budget balance, +/- 2 %
  SWE: +/-0%

• Stabile, but flexible, exchange rate (against major currencies)
  SWE: ↓

• Balance of payment, (maybe a bit more export..)
  SWE: +
Also ideal: Financial stability

- Post-global crisis policy area
  - Few had "big picture"-perspective on financial system
  - Few understood scale and impact of interconnectedness
  - Lots of trust in market’s risk management techniques

- But hard to define
  - "the absence of excessive volatility, stress or crises”
    Gadanecz & Jayaram (2015)

- Macroprudential regulation and supervision
  - Stress tests of banks
  - Extra-monitoring of "Too big to Fail"-banks
  - More regulation and supervision

- OBS – stability objective in conflict with market competition objective
Economic ups and downs

- The "business" cycle
- Economic Recessions
- Economic Depressions (the Great…)
- Fiscal and monetary policy to handle ups and downs
Economic booms and recessions
Booms and recessions in the US, 1960-2018

Shaded areas indicate U.S. recessions

Source: U.S. Bureau of Economic Analysis
Booms and recessions in the US, 1960-2018

"We’ve solved it!"
Dealing with ups and downs

- Fiscal policy and regulation
  - Balance or underbalance the budget? (austerity vs stimulation)
  - Taxes, subsidies, welfare transfers
  - Industry support
  - Trade barriers
  - Private / public ownership
  - Welfare system
  - "Bail-ins" to financial companies / markets in distress

- Monetary policy
  - Interest rate
  - Money supply
  - Exchange rate
  - Lending to banks - Lender of Last Resort
  - Buy assets from banks – Quantitative easing

- Financial regulation and supervision
  - Charter requirements
  - Capital and liquidity requirements for banks
  - Constrain permitted businesses
  - Deposit guarantees
  - Continuous monitoring of conduct and risk taking - supervision
Economic depressions

• "The Great Depression" 1920s and 1930s more or less

• Worldwide

• LOOONG economic recession = depression

• Financial crisis just the trigger – structural problems revealed

• Traumatic and significant
  - for politics and economic policy
  - for economics discipline
  - for ideas about how "not" to do in a financial/economic crisis
  - the financial system revealed as "systemic"
US Stock market boom and bust, 1920-1939

Dow-Jones Industrial Stock Price Index for United States, Dollars per Share, Monthly, Not Seasonally Adjusted
Some 10 000 bank failures

All Banks in the United States, Number, Semiannual, Not Seasonally Adjusted (St Louis Fed)
US GDP Growth (1929=100)
US Unemployment 1929-42

Unemployment Rate for United States, Percent, Monthly, Seasonally Adjusted

Graph showing unemployment rates from 1929-1942.
Crisis management during US Great Depression

- **Fiscal policy and regulation**
  - Balance or underbalance the budget? (austerity vs stimulation)
  - Taxes, subsidies, welfare transfers
  - Industry support
  - **Trade barriers**
  - Private / public ownership
  - **Welfare system**
  - ”Bail-ins” to financial companies / markets in distress

- **Monetary policy**
  - **Interest rate**
  - Money supply
  - **Exchange rate**
  - Lending to banks - Lender of Last Resort
  - Buy assets from banks – Quantitative easing

- **Financial regulation and supervision**
  - Charter requirements
  - Capital and liquidity requirements for banks
  - Constrain permitted businesses
  - Deposit guarantees
  - Continuous monitoring of conduct and risk taking - supervision
OBS – Lessons from Great Depression influenced crisis response 2007-2009

• Everything went wrong in management of Great Depression

• Especially – monetary policy was stupid

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<tbody>
<tr>
<td>Lower interest rates</td>
<td>NO</td>
<td>YES</td>
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<td>Lend to banks</td>
<td>NO</td>
<td>YES</td>
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<td>Let banks fail</td>
<td>YES</td>
<td>NO*</td>
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* Except Lehman brothers – but an investment bank
Financial crises

- Types of financial crises
- Causes
- Effects
Financial crises

• Different types and combinations
  - Inflation crises
  - Currency crashes and debasement
  - Banking crises
  - Public debt crisis
  - Deflation crises
  - Stock market crashes

• Main problems
  - Problems in "real economy"
  - Problem if financial "infrastructure" malfunction
Banking crises

• Historically quite frequent

• Occurs in all countries

• Problematic due to link to real economy
  - services
  - infrastructure

• Rule of thumb is to rescue illiquid but solvent banks

• Problems due to lack of info, ”too-big-to-fail”, ”capture”
Bank runs and their systemic contagion

- Banks only hold fraction of deposits ready for direct withdrawal.
- If too many depositors withdraw simultaneously, bank is forced to sell assets at any price…
- Run + “fire sale” of assets spread to other banks.

Policy responses:
- Lender of last Resort
- Deposit guarantee
- Bank to hold buffers – liquidity & capital
Bank capital / equity – the Bank’s buffer

Chart 5: Equity as a Percent of Assets for U.S. Commercial Banks from 1840 to 1993

Ratio of Aggregate Dollar Value of Bank Book Equity to Aggregate Dollar Value of Bank Book Assets


Inflation and deflation crises

• Reinhart & Rogoff definition (2009): Inflation higher than 20% over one year

• Problems with inflation:
  - Savings and wages lose purchasing power
  - Loans lose in "real" value – so banks reluctant to lend
  - Driven by expectations about more inflation to come, tendency for self-enforcing

• Deflation crisis – the opposite
  - Prices goes down, purchasing power goes up
  - Makes sense to wait with purchase – slows down economy
Worst case: Hyperinflation

- Zimbabwe
- Germany during and after WW1:
  - 1914
    - 1 $US = 4,2 Mark
  - 1923
    - 1 $US = 4,2 trillion Mark
Sovereign debt default:

- A country stops paying on its loans / do not repay loans

- In practice a default triggers negotiations on:
  - what interest rate to pay
  - how much to repay
  - when payments are due
  - In what currency
  - Whom to pay
Greek sovereign debt and repayment

**Greece's long term repayment schedule**

*Redemptions due, by year (€bn)*

Updated: April 2015

Sources: RBC Capital Markets, Eric Platt/FT
Causes

• Financial globalisation itself?

• Cost and ease of borrowing

• Self-enforcing momentum via booming asset markets (housing, securities etc.)

• "Experts" (Galbraight) saying "This time is different" (Reinhart & Rogoff) because "we’ve solved it" (Lucas)

• Incompetence, greed etc.

• Institutional failures – e.g. Missing macroprudential outlook
Share of countries with systemic banking crisis, by share of world economy.
Effects of financial crises

- Recession (GDP growth weak or even negative)
- Bankruptcies
- Unemployment
- More financial crises…
- Weaker public finances
Unemployment after a bank crisis

14.3 Cycles of past unemployment and banking crises
Percent Increase in the Unemployment Rate (left panel) and Years Duration of Downturn (right panel)

Sources: OECD, IMF, Historical Statistics of the United States (HSOUS), various country sources, and authors’ calculations.
Notes: Each banking crisis episode is identified by country and the beginning year of the crisis. Only major (systemic) banking crises episodes are included, subject to data limitations. The historical average reported does not include ongoing crises episodes.
14.1 Cycles of past and ongoing real house prices and banking crises
Peak-to-trough price declines (left panel) and years duration of downturn (right panel)

Sources: Reinhart and Rogoff (2008b) and sources cited therein.

Notes: Each banking crisis episode is identified by country and the beginning year of the crisis. Only major (systemic) banking crises episodes are included, subject to data limitations. The historical average reported does not include ongoing crises episodes. For the ongoing episodes, the calculations are based on data through the following periods: October 2008, monthly, for Iceland and Ireland; 2007, annual, for Hungary; and 2008:Q3, quarterly, for all others. Consumer price indices are used to deflate nominal house prices.
Stock markets after banking crises

14.2 Cycles of past and ongoing real equity prices and banking crises
Peak-to-trough price declines (left panel) and years duration of downturn (right panel)

Sources: Reinhart and Rogoff (2008b) and sources cited therein.
Notes: Each banking crisis episode is identified by country and the beginning year of the crisis. Only major (systemic) banking crises episodes are included subject to data limitations. The historical average reported does not include ongoing crises episodes. For the ongoing episodes, the calculations are based on data through December 2, 2008. Consumer price indices are used to deflate nominal equity prices.
Other effects

- Financial / economic stress
  - depressions
  - domestic abuse
  - birth weights

- Political sentiment
  - more extreme to right and left
  - elite resentment

- Economic policy shifts
  - Immediate symptoms treated
  - Longer term problems down-prioritised
  - Highly politicized (austerity vs. stimulation)
Financial stress (Vardandottir, 2016)

Birth outcomes around the time of the collapse (Financial crisis in Iceland)
Financial crises effects on political sentiments (1870-2015)

Figure 1: Vote shares of the far right and left
Economic policy priorities shift

- Real economy effects:
  - Unemployment
  - Bankruptcies
    - Less tax revenue
    - more welfare expenditures
      - weaker government finances
        - downsize budget to balance
        - increase debt
        - forced to prioritize
          - welfare transfers
          - culture & society
          - environment investments
          - foreign aid
          - resentment of elite..