

**cpb**

*Economics and Financial Crisis*

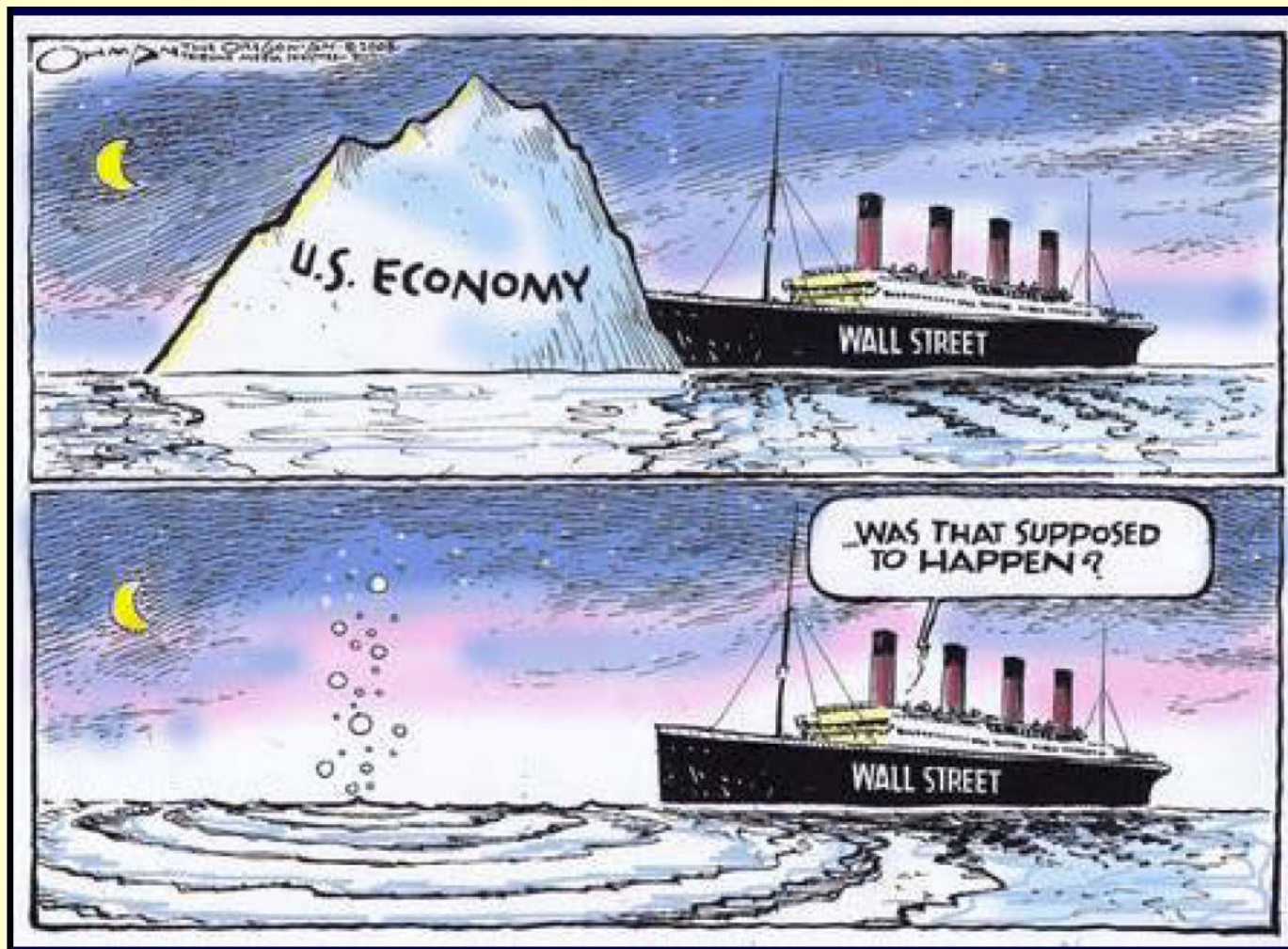
Amsterdam  
6 oct 2010

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# **Economics and the financial crisis**

Coen Teulings

# Cartoons



## 10 theses

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1. Rationality  $\neq$  Efficiency
2. We are not rational
3. Non-rationality not needed to explain crisis
4. A good theory: *bad luck* or *long term process*?
5. Forcecasting crisis: Rajan, Jackson Hole 2005
6. Monetarism was a big success
7. Was the price of risk too low?
8. Main externality: free riding in monitoring
9. Fix the banking system
10. Do not blame shareholders

# 1. Rationality $\neq$ Efficiency

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- Non-economist think rationality = efficiency
  
- Example: prisoners dilemma
  - ▶ Defect = rational strategy
  - ▶ Defect-defect = inefficient outcome

## 2. We are not rational

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- Lots of empirical evidence
- Examples:
  - ▶ Hyperbolic discounting
    - 1 apple today – 2 apples tomorrow
    - 1 apple in 356 days – 2 apples in 366 days
  - ▶ Loss aversion ( $\neq$  risk aversion)
- Fundamental issue for discipline
- Relates economics to biology

### 3. Non-rationality and crisis

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- But: limited value added of non-rationality in explaining the crisis
- Speculative bubbles are not irrational
- Technically:
  - financial markets model = 2-boundary value problem
    - ▶ Requires initial condition
    - ▶ ... and terminal condition
    - ▶ Buiter's auctioneer in infinity needed for equilibrium
- Underlines the point: Rationality  $\neq$  Efficiency

## 4. *Bad luck or Long term process*

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Philosophical problem: What theory for crisis?

### 1. Bad luck?

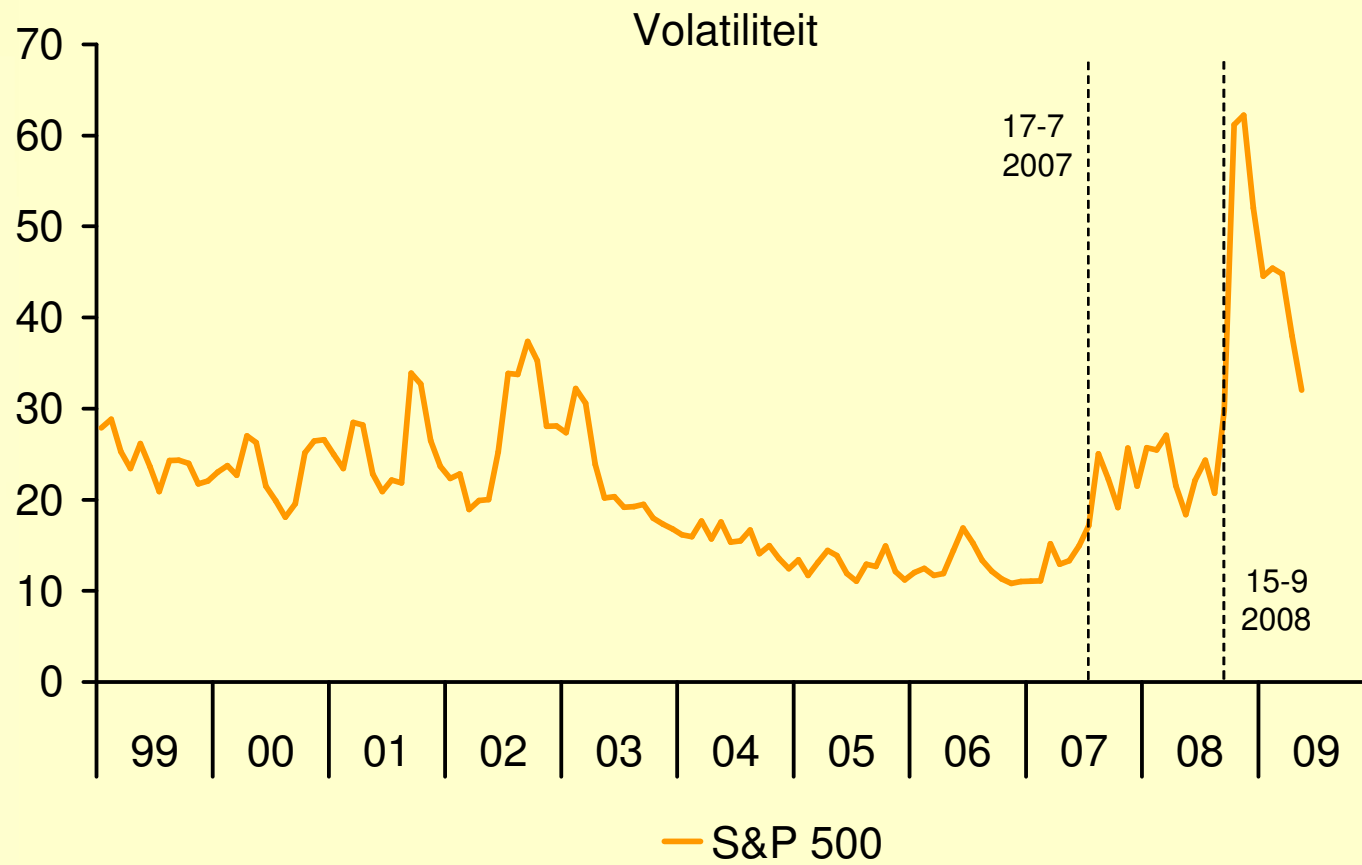
- ▶ Random shock
- ▶ .. magnified by coordination failure
- ▶ E.g. sudden collapse in trust, see graph

### 2. Long run process that would inevitably derail?

- ▶ Like trend to higher leverage in banking sector
- ▶ A proper scientific argument should be reproducible
- ▶ But: if you are so smart, why are you so poor?

Fire prevention analogy

# Stock market volatility





## 5. Forcecasting crisis

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- Did economists fail to forecast the crisis?
  - ▶ Sure, I failed (like Sweder)
  - ▶ Rajan did not! (Jackson Hole 2005)
  - ▶ By the way: I don't know whether this made him rich
  
- Lesson: most mechanisms were in literature
  - ▶ Admittedly, mostly as a far-fetched scenario

## 6. Monetarism was a big success

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- Popular reasoning:  
this is consequence of monetarism
  
- Nonsense
  - ▶ Crises of '70ties
  - ▶ Friedman, and later Thatcher, Reagan, Lubbers
  - ▶ Excessive union power
  - ▶ Policy switch around 1982
  - ▶ Use monetary policy against inflation and
  - ▶ .. unemployment against excessive wage demands
  
- Result: Great Moderation

## 7. Was the price of risk too low?

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- Hard question
  - ▶ Great Moderation: risk was low!
  - ▶ Clearly, there was excessive leverage
  - ▶ ... due to liberalisation / regulation failures
  - ▶ ... which is not logically implied by monetarism
  - ▶ Clearly, risk is high today: see stock markets
  - ▶ Might high risk be a coordination failure?
  - ▶ We are all nervous, since everybody else is nervous
  
- Back to Keynes' core: animal spirits
- Away from Patinkin's neoclassical synthesis
  - ▶ Which focussed on wage rigidity
  - ▶ Its credibility was undermined by monetarism

## 8. Free riding in monitoring

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- Market failure = externality
  - ▶ = effect of (trans)action on player that is not involved
  - ▶ Hence: its interest not “priced” in decision
  
- What is the mean externality in financial crisis?
  - ▶ Free riding in monitoring, e.g.
    - Teacher in classroom (marking exams is costly)
    - You buying an asset on the stock market
    - *All information is in the price?* Impossible!
    - Subprime mortgages
    - Hence: banks, economize on monitoring
    - Hence: rating agencies (that is why they are paid by the debtor)

## 9. Fix the banking system

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- Increase capital and liquidity requirements
  - ▶ Equity financing is expensive
  - ▶ Hence: higher capital requirement makes credit expensive?
  - ▶ Incorrect! Modigliani-Miller theorem (?)
  - ▶ Basel III: 7 %, better 20 %?
  
- Separate bankruptcy law financial institutions
  - ▶ To protect competitors, and the tax payer
  - ▶ Commitment problem supervisors
  - ▶ Force to act, with the help of market signals
  
- All nice applications of game theory

## 10. Do not blame shareholders

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- Popular game: bashing shareholders
  - ▶ Private equity = *spinkhanen*
  - ▶ Managers complaint
    - “Excess openness of Dutch corporations”
  - ▶ Strive back to '80ties, at the expense of '90ties
  - ▶ Rhineland above Anglo Saxony
  - ▶ Shareholder = short run, we need long run capital
  
- Nonsense
  - ▶ We need more, not less equity
  - ▶ Equity and hold-up problem
  - ▶ “How the hell do I know that I get my money back”
  - ▶ Hence: protect shareholders interest

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# The end

