

Knut Wicksell Centre for Financial Studies





The Decline and Fall of the Stock Market

Alexander Ljungqvist New York University and IFN

The roles of the stock market



+ "Primary" market function: capital formation

 To enable firms to raise equity capital by issuing shares to the investing public

+ "Secondary" market functions: trading

- To serve as a trading venue for a firm's shares, thereby providing <u>liquidity</u> to the firm's shareholders and an opportunity for <u>diversification</u>
- To price a firm's shares, thereby providing market feedback to the firm's management and aid in efficient capital allocation (price discovery)

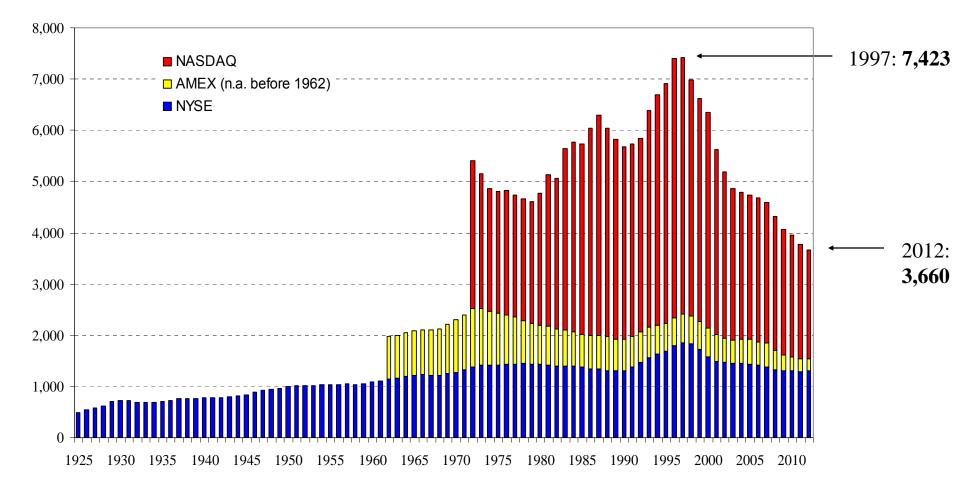
Stylized macro facts



- Most U.S. firms are not stock market listed
 Of the 5.7 million U.S. firms in 2010, 3,948 (=0.06%) were public
- This is true even for large firms
 - Among firms with >500 employees, only 13.6% are public
- Privately held firms account for a large part of economic activity
- Stock market listed firms rarely raise equity
 - Most listed firms never do; those that do, do so every 3-5 years
 - Listed firms raise more equity capital from employee option exercises than from the stock market
 - At macro level, stock market is a net use (not source) of capital
- Stock market listings (and IPOs) have fallen out of favor – dramatically so in the U.S.

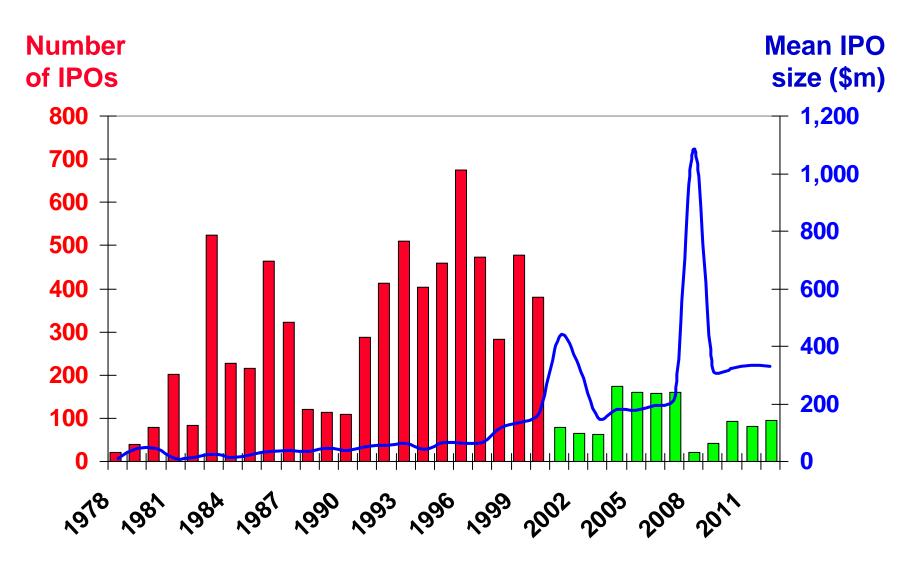
Number of listed U.S. firms





Source: Author's calculations using CRSP data (ordinary common shares only)

Decline and fall





Mega IPOs still happen ...





Mega IPOs still happen ...





Mega IPOs still happen ...





... but smaller IPOs stay away



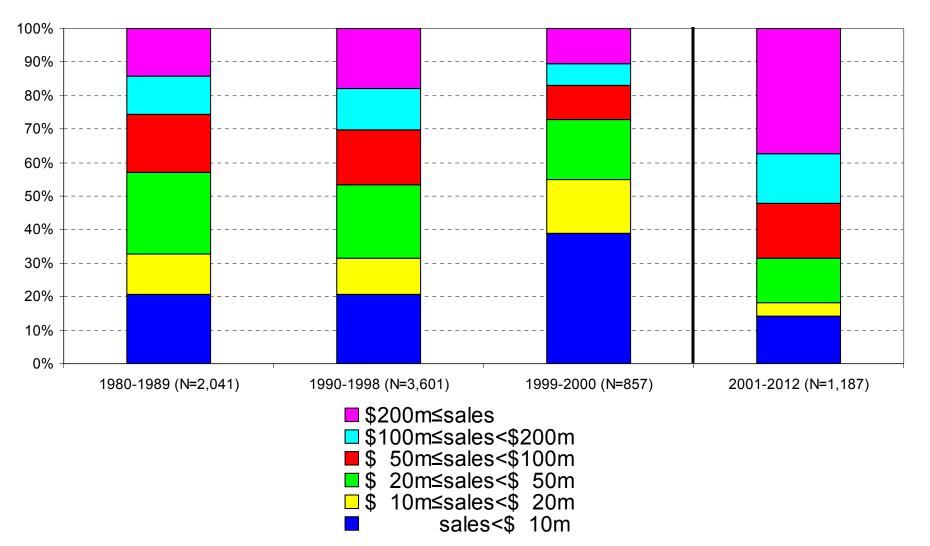
800 Source: Thomson 700 600 500 400 300 200 100 0 '00' '92 '94 '96 '98 '02 '04 '08 '10 '90 '06 '12

U.S. Offerings less than \$100M

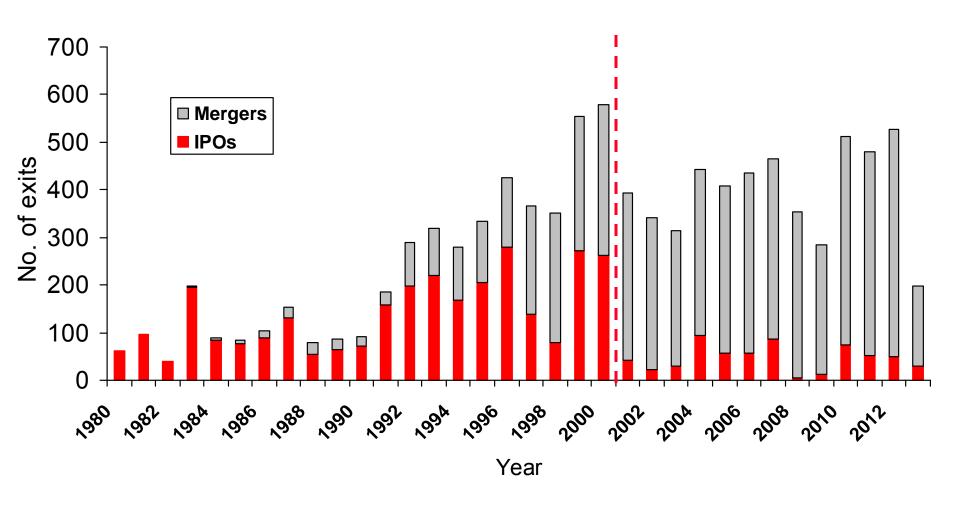
Source: NASDAQ OMX, April 2013

... as do SMEs





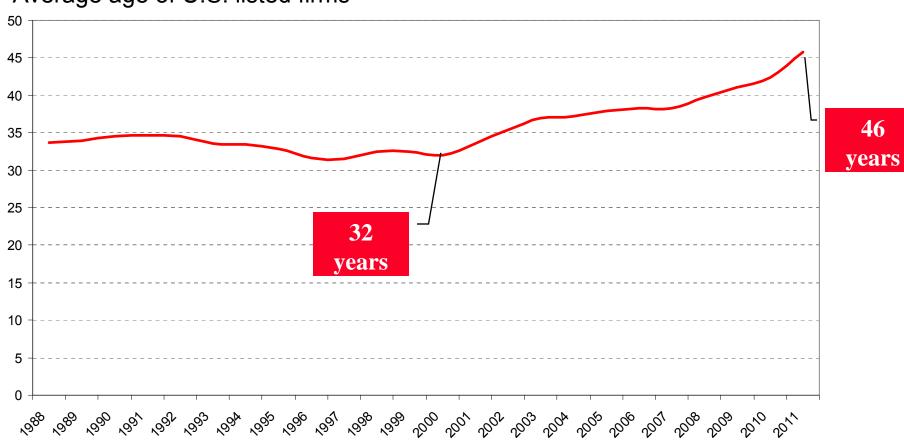
... and VC exits have shifted to M&A



Source: National Venture Capital Association (2013 data is for H1)

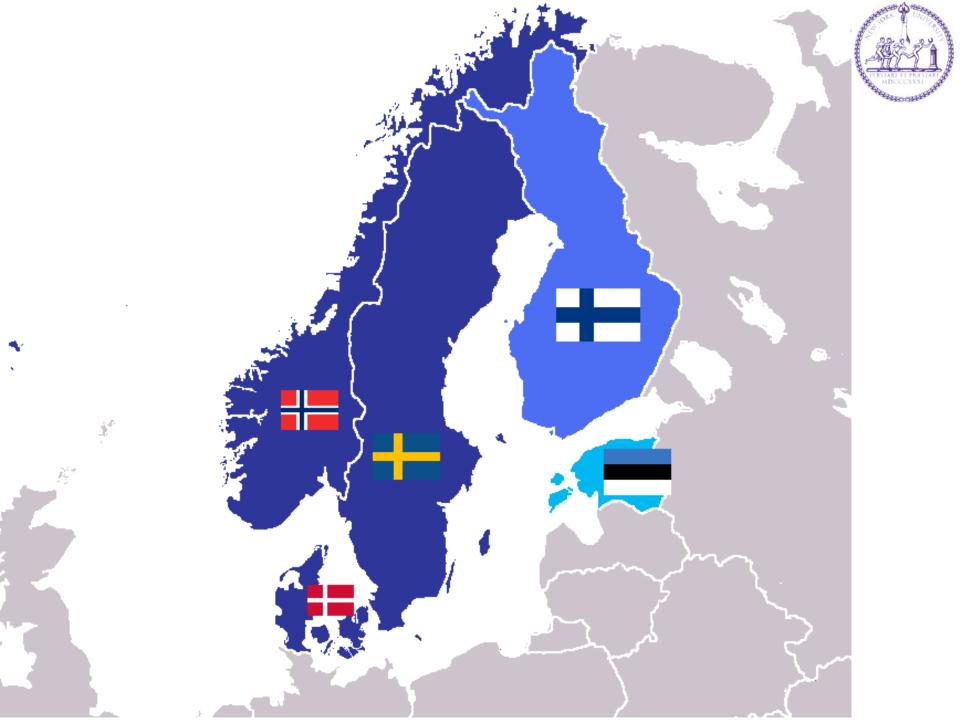
Stong

The "greying" of the U.S. stock market

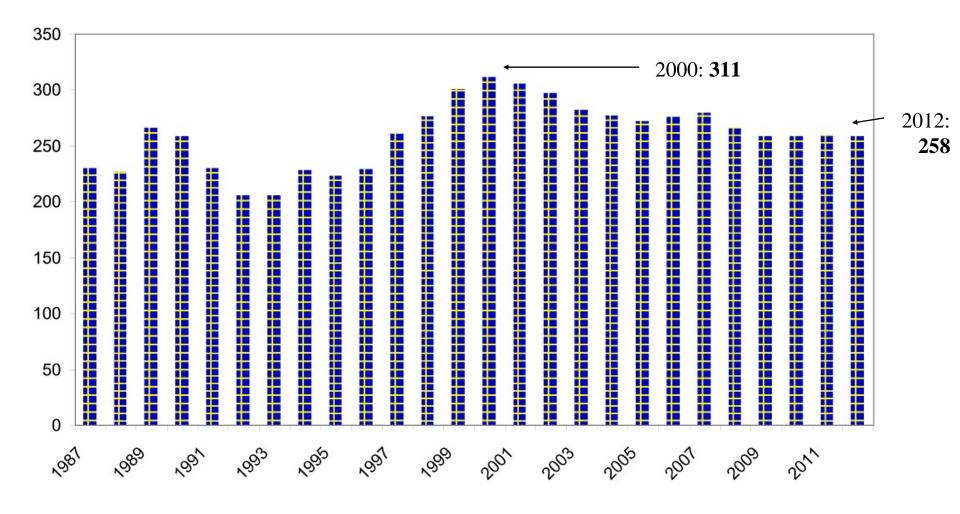


Average age of U.S. listed firms

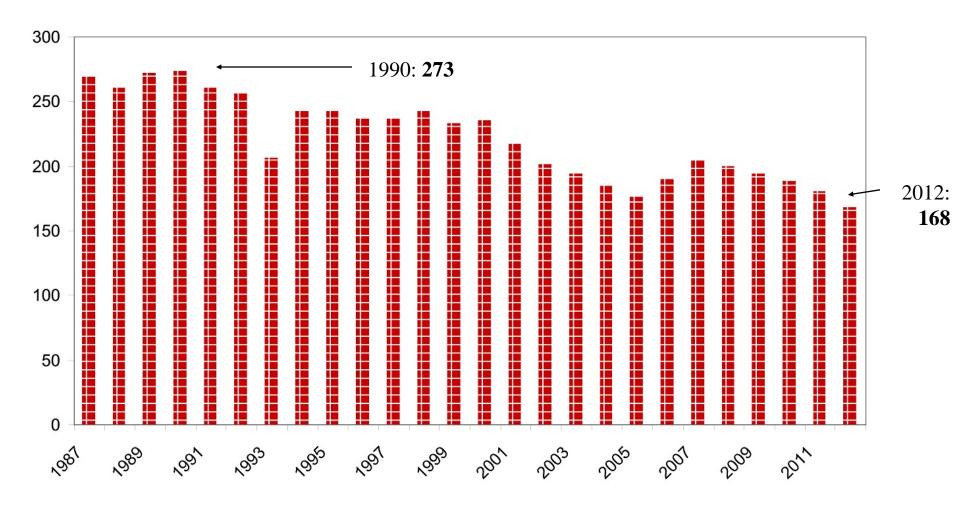
Source: Author's calculations using CRSP data



Nordic listings: Sweden



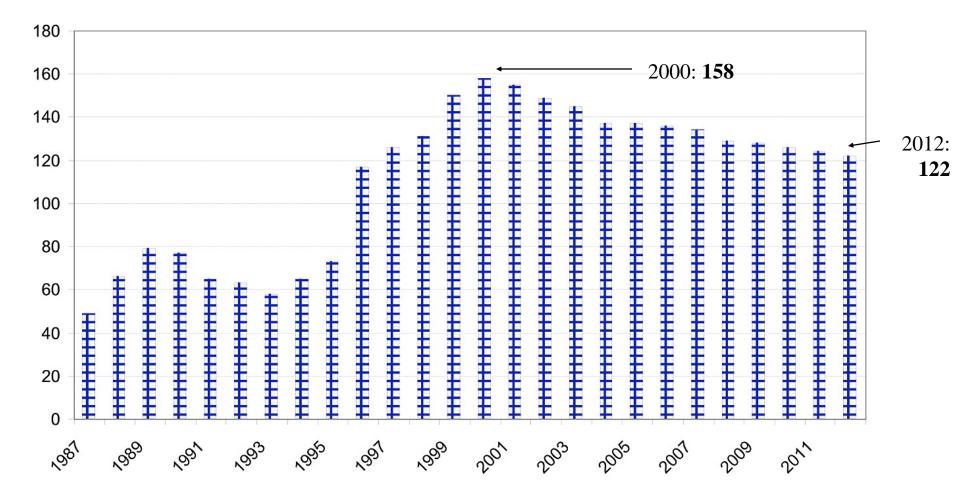
Nordic listings: Denmark



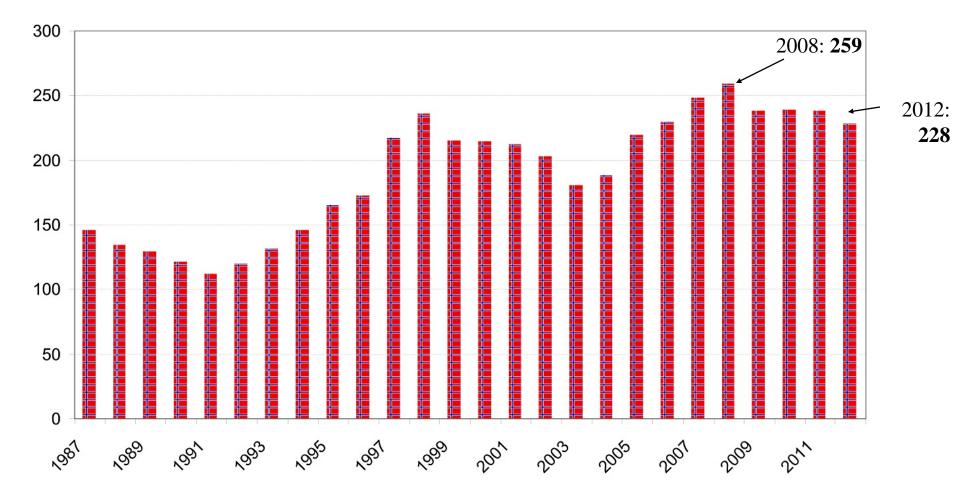
Source: NASDAQ OMX

Assessed

Nordic listings: Finland



Nordic listings: Norway

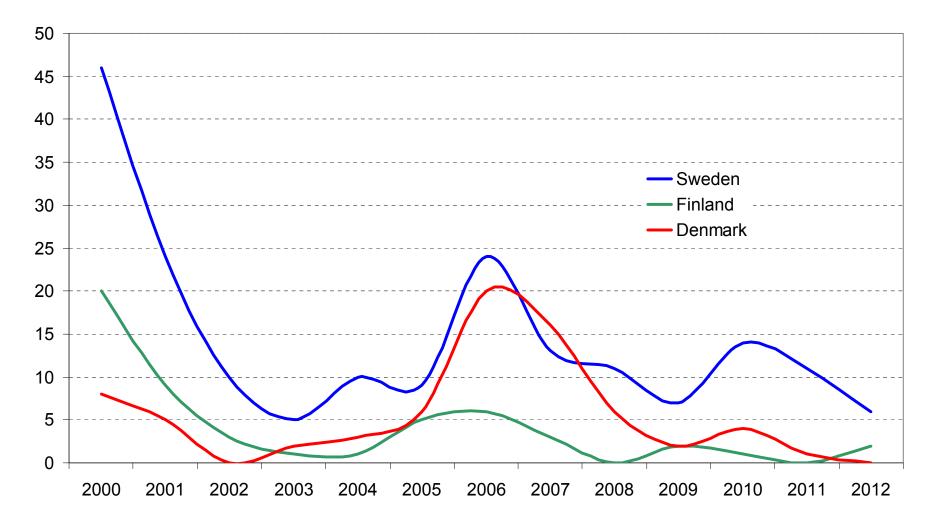


Source: World Federation of Exchanges; European Federation of Stock Exchanges

Assessed

Nordic IPOs





Source: NASDAQ OMX (excludes First North)

Exchanges are fighting back



- Sept. 2013 NASDAQ OMX Stockholm: Proposals for improving IPO climate in Sweden
- May 2013 NYSE Euronext: "EnterNext"

April 2012

- March 2013 LSE: "High Growth Segment"
 - Borsa Italiana: "Elite Program"



A shifting cost-benefit trade-off



Increased costs?

- Regulatory burdens
 - disclosure
 - Sarbanes-Oxley
 - Dodd-Frank
 - (various initiatives aimed at reducing regulatory burdens: JOBS Act, MiFID II, revised "Transparency Directive")
- Onerous governance rules
 - say on pay
 - "expensive distractions": proxy battles with shareholders (Ed Knight, General Counsel, NASDAQ)

Reduced benefits?

- Less trading liquidity for small-caps
 - less analyst research
 - less institutional interest
- Increased competition from other sources of capital and trading venues
 - equity: crowdfunding (?), angels, venture capital, growth equity
 - debt: "business development companies"
 - trading venues: SharesPost, Second Market



Consequences



- If growth companies turn their backs on the public equity markets – is that necessarily such a bad thing?
 - Probably bad for the exchanges
 - reduced revenue from listing fees
 - if the primary market dies, can the secondary market survive?
 - But innovation disrupting businesses is nothing new
 - What is lost to the economy?
 - 1. Unlisted firms have a higher cost of capital, which impacts investment, innovation, growth, job creation ...
 - but the cost-of-capital gap may be shrinking
 - 2. "Ordinary" investors miss the opportunity to participate in the wealth created by growth companies
 - wealth inequality may widen; public support for shareholder capitalism could decline
 - Might something be gained as well?

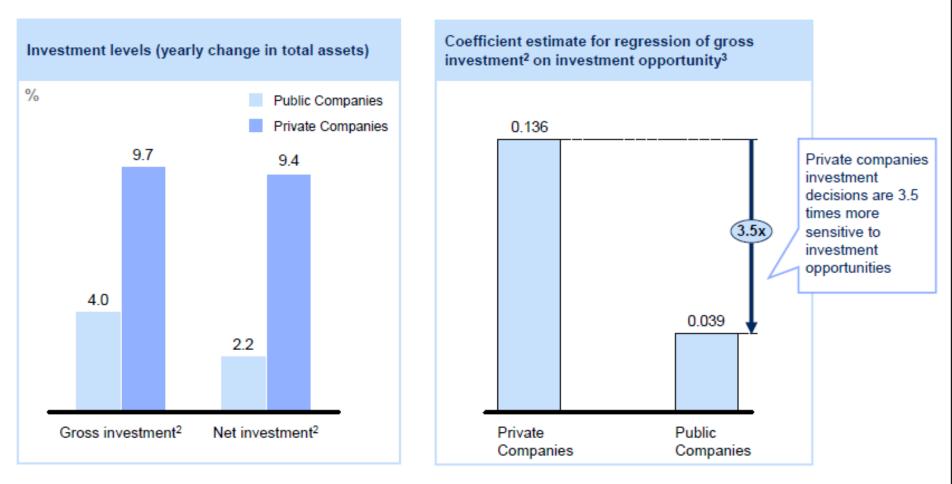


Two notable concerns (among others)

- Quarterly reporting cycle may encourage excessive focus on short term results, at the expense of long term wealth creation
 - Graham, Harvey, and Rajgopal: "The majority of [US] managers would avoid initiating a positive NPV project if it meant falling short of the current quarter's consensus earnings [forecasts]."
- 2. Disclosure requirements may hinder a firm's ability to build support for a change in corporate or financial strategy
 - how easy is it to cut the dividend to finance a profitable investment opportunity, without a) panicking investors and b) revealing too much sensitive information to competitors?
- Attractions of private ownership:
 - more "patient" capital
 - more "private" dialogue with shareholders

Public companies invest less and are less sensitive to investment opportunities than matched private companies

For matched private and public companies¹



- 1 Using NAICS 4 matched on size and industry (North American Industry Classification System)
- 2 Gross investment defined as annual increase in gross fixed assets scaled by beginning of year total assets; net investment defined as annual increase in net fixed assets
- 3 Investment opportunities considered using sales growth

SOURCE: "Comparing the Investment Behaviour of Public and Private Firms", Asker, Farre-Mensa, Ljungqvist

Take-aways



The decline and fall of the stock market

- Dramatic decline in the demand for listing services: companies increasingly don't use the stock market to fund investment and growth
- In fact, more capital formation among <u>private</u> firms in the U.S., despite their cost of capital disadvantage

Does it matter?

- Stock market still the most efficient way to supply capital to growth companies – but the gap may narrow, eroding the stock market's competitive advantage
- Hard for 'ordinary' investors to participate in wealth created by privately held firms
- But private firms may have advantages: more patient capital and better long-term investment incentives