

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)

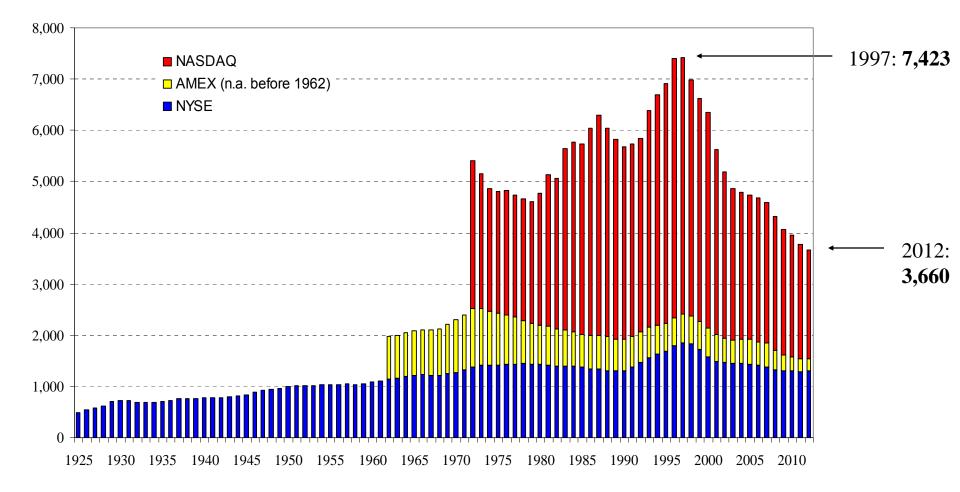
# **Stylized macro facts**



- 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.

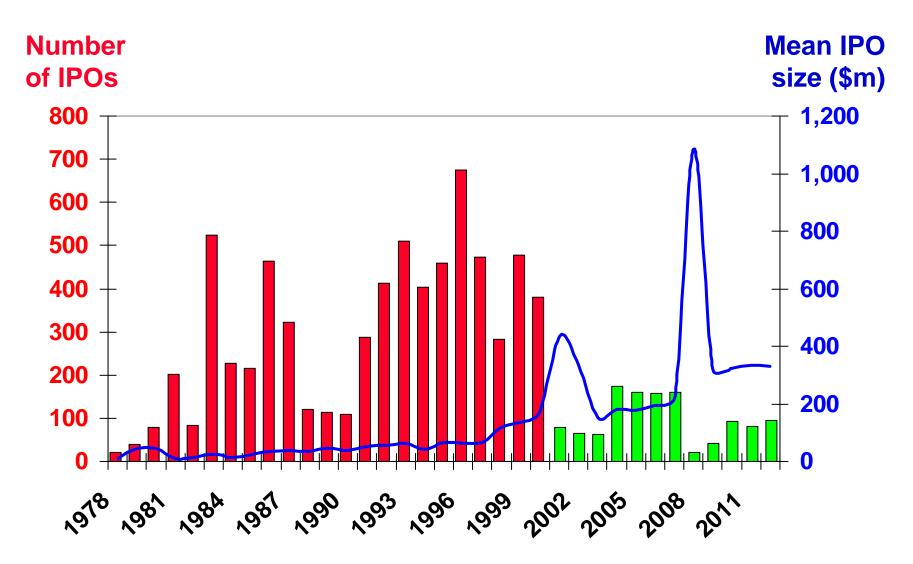
# Number of listed U.S. firms





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

# **Decline and fall**





# Mega IPOs still happen ...





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# Mega IPOs still happen ...





#### ... but smaller IPOs stay away



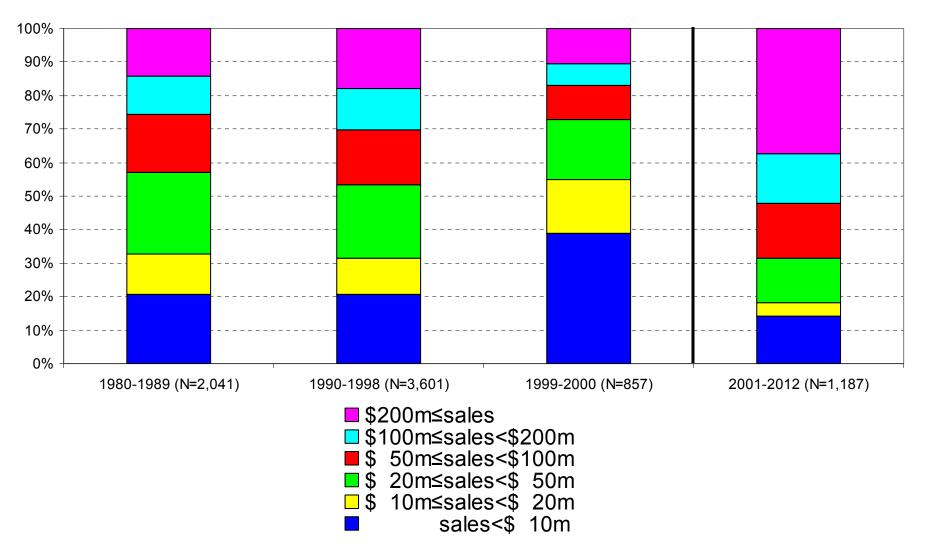
#### 800 Source: Thomson 700 600 500 400 300 200 100 0 '00' '92 '94 '96 '98 '02 '04 '08 '10 '90 '06 '12

#### U.S. Offerings less than \$100M

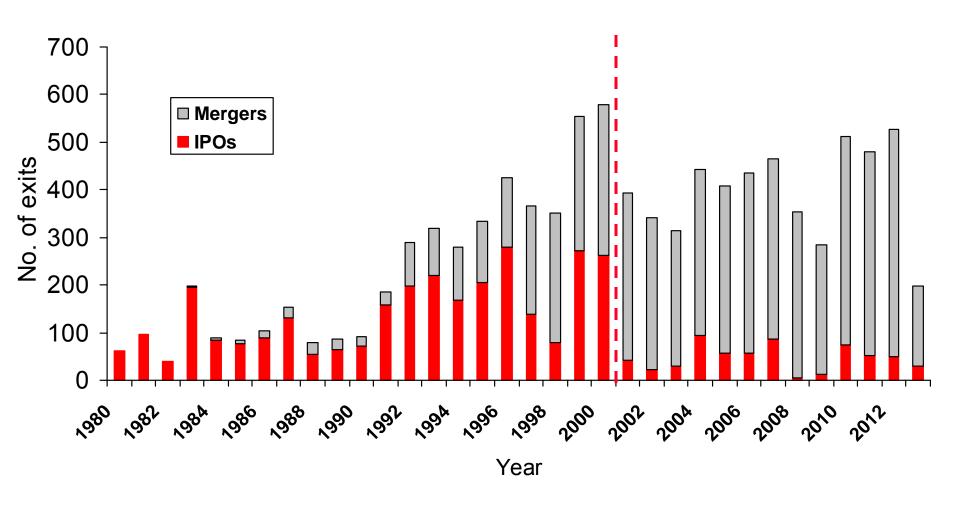
Source: NASDAQ OMX, April 2013

#### ... as do SMEs





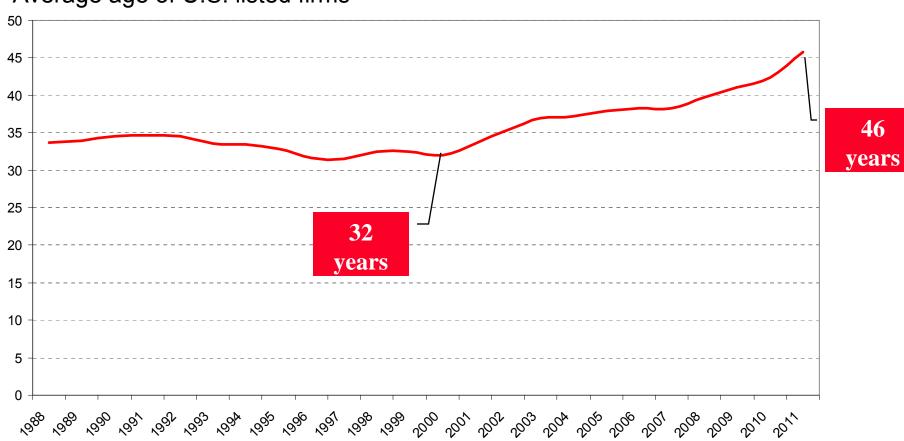
### ... and VC exits have shifted to M&A



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

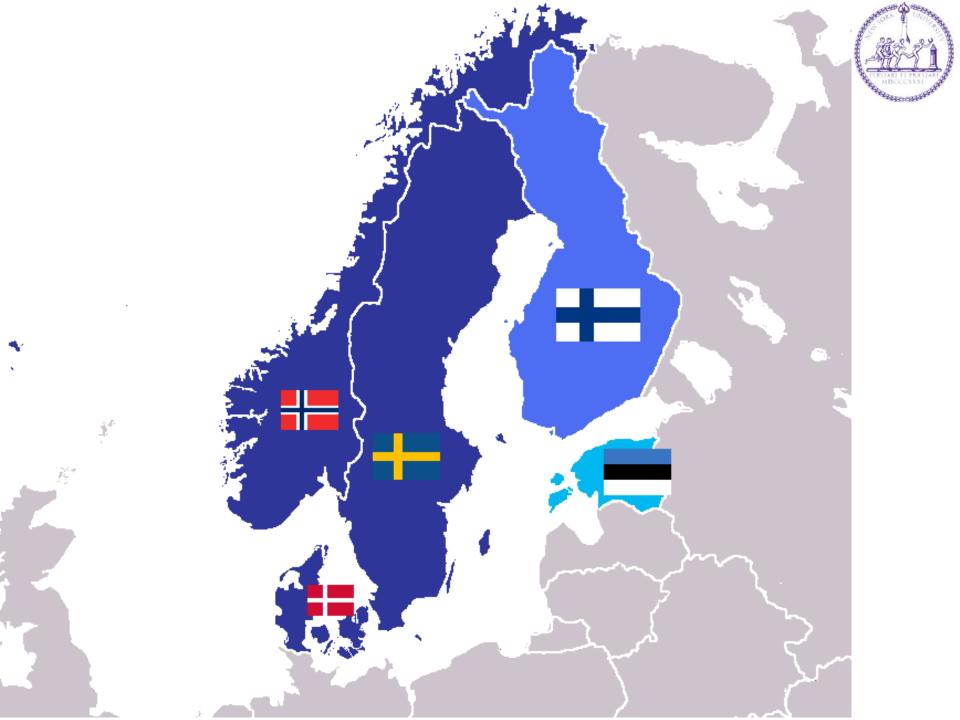
Stong

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

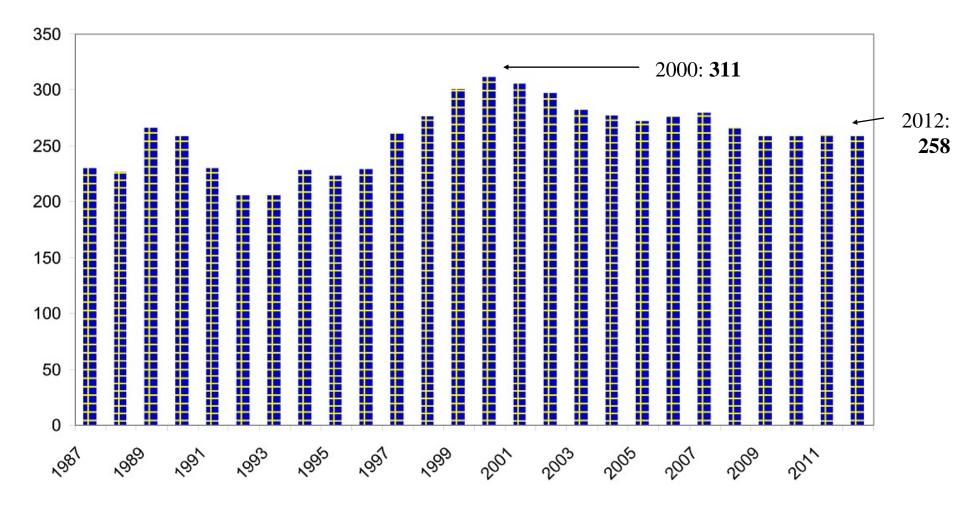


Average age of U.S. listed firms

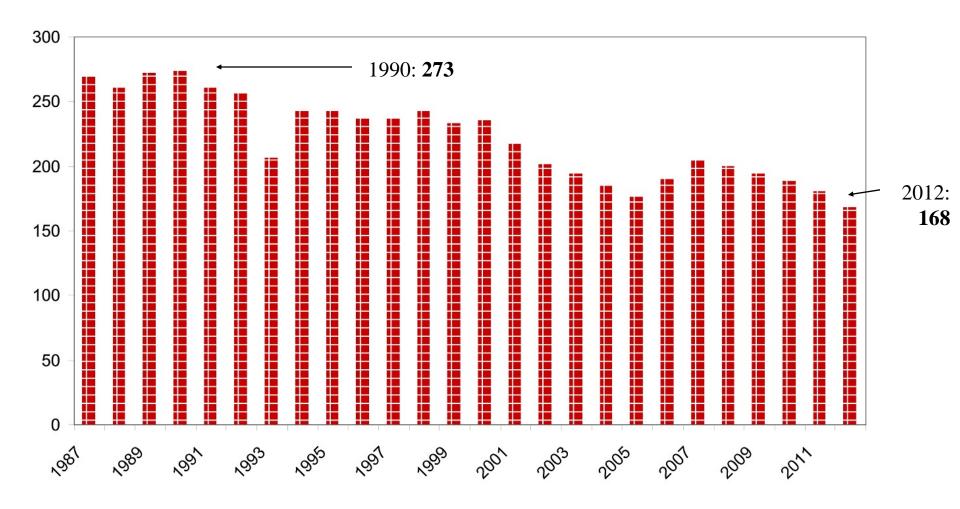
Source: Author's calculations using CRSP data



# Nordic listings: Sweden



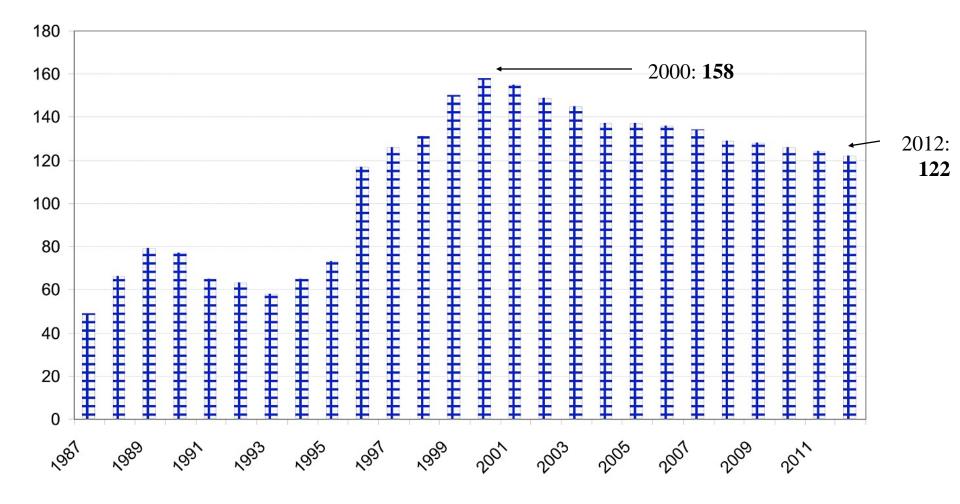
# Nordic listings: Denmark



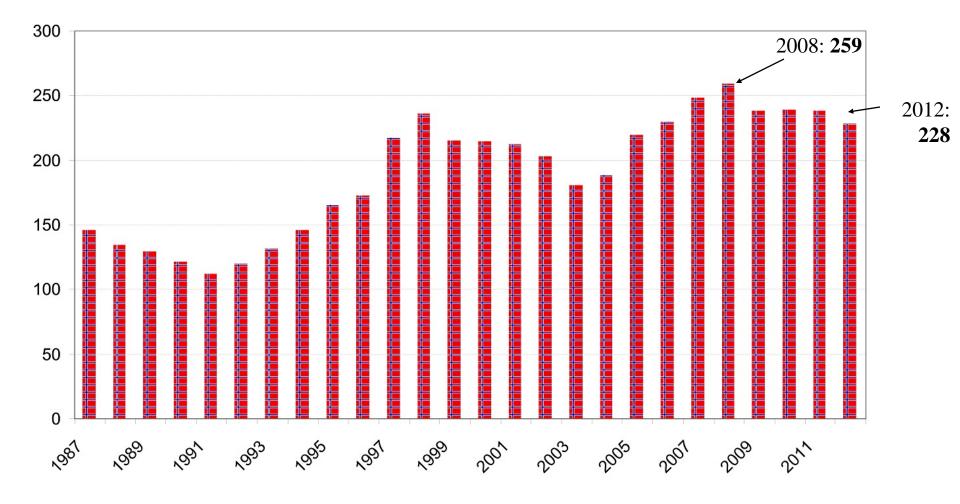
Source: NASDAQ OMX

Assessed

# Nordic listings: Finland



# Nordic listings: Norway

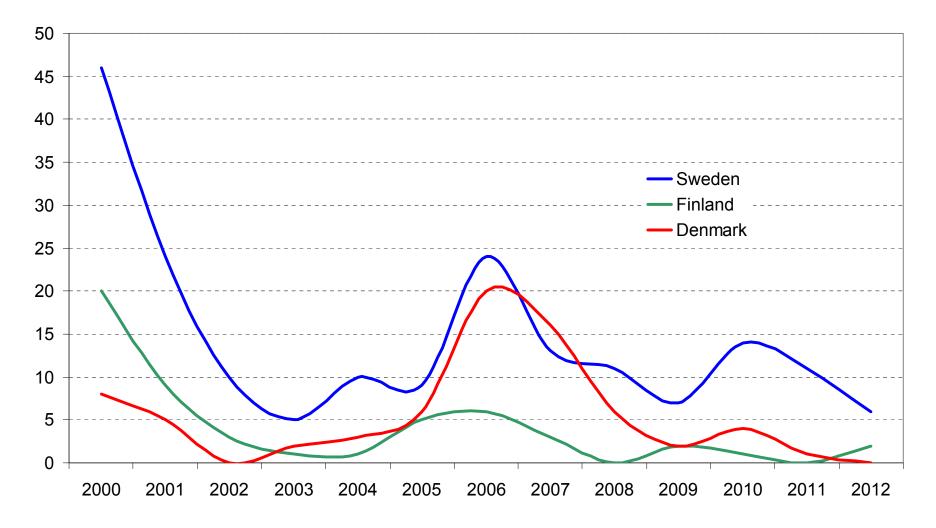


*Source:* World Federation of Exchanges; European Federation of Stock Exchanges

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?

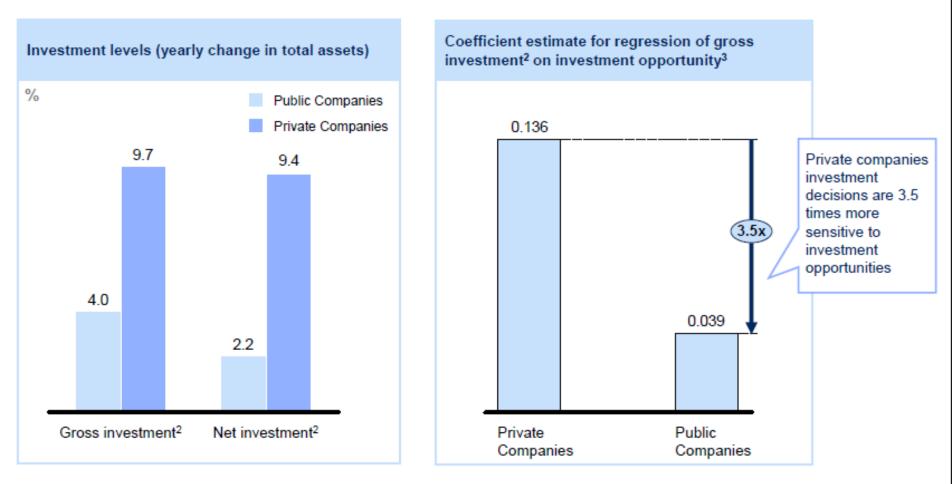


Two notable concerns (among others)

- 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 companies<sup>1</sup>



- 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