

Applied Corporate Finance

Payout Policy

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Modigliani-Miller Revisited

- Modigliani and Miller (1961) demonstrate that in perfect and complete capital markets, payout policy is irrelevant to firm value.
 - Investors wanting cash can just sell shares

Assumptions:

- 1. Information is costless and equally available to everyone.
- 2. There are not contracting or agency costs.
- 3. There are no taxes.
- 4. There are no transactions costs associated with purchasing or selling securities.
- 5. No investor or firm can individually influence the price of securities.



Theories & Determinants of Dividends

- Asymmetric information: Signalling
 - Confidence in future earnings;
 - Low investment opportunities.
- Agency theory: FCF problem
 - Too much cash around loosens managerial discipline
 - Investor protection laws
- Tax Preferences:
 - The preference for a payout policy depends on the difference between the dividend tax rate and the capital gains tax rate.
 - E.g., much lower taxes on capital gains leads to a strong preference from buybacks over dividends.
- Other financing frictions that could lead to need for precautionary or transactional cash holding motives:
 - Keep cash if external financing is very costly or investment opportunities are fleeting (e.g., R&D, acquisition opportunities).



Dividends and Information

- Managers' beliefs about information in payout decisions
 - Over 80% of managers say that dividend and repurchase decisions convey information to investors.
 - 88% believe there are negative consequences to reducing dividends.
 - There is not a similar stigma around repurchase decisions.

Dividend Smoothing

- Management believes that investors prefer stable dividends with sustained growth
 - 88% said they desire to maintain a smooth dividend stream
- Thus, firms raise their dividends only when they perceive a longterm sustainable increase in the expected level of earnings
 - 78% said they are reluctant to make changes that may have be reversed in the future.



Dividends and Information

- Dividend Signalling Hypothesis
 - When a firm increases its dividend:
 - It sends a positive signal to investors that management expects to be able to afford the higher dividend for the foreseeable future.
 - When a firm decreases its dividend:
 - It may signal that management has given up hope that earnings will rebound in the near term.
- Mixed Signals? Perhaps.
 - When a firm increases its dividend, it might instead signal a lack of investment opportunities.
- Empirical work has had difficulty finding strong support for signalling theories, but stock price reactions to dividend policy changes are consistent with them containing information.



Dividends and Agency Theory

- There are conflicts of interests between corporate insiders and outside investors.
- The insiders who control corporate assets can use these assets in ways that are detrimental to the outside investors.
 - Divert corporate assets to themselves (ex: perks)
 - Investments that give private benefits (e.g., empire building)
 - Dittmar & Mahrt-Smith (2007) find that an additional dollar inside a poorly governed firm may be valued as low as \$0.42
 - As much as \$1.62 in a well-governed firm.
- Dividends may mitigate the problem:
 - By paying dividends insiders are no longer capable of using these earnings to benefit themselves.
 - The possible need to come to the capital markets to raise funds and gives outside investors a chance to exercise some control



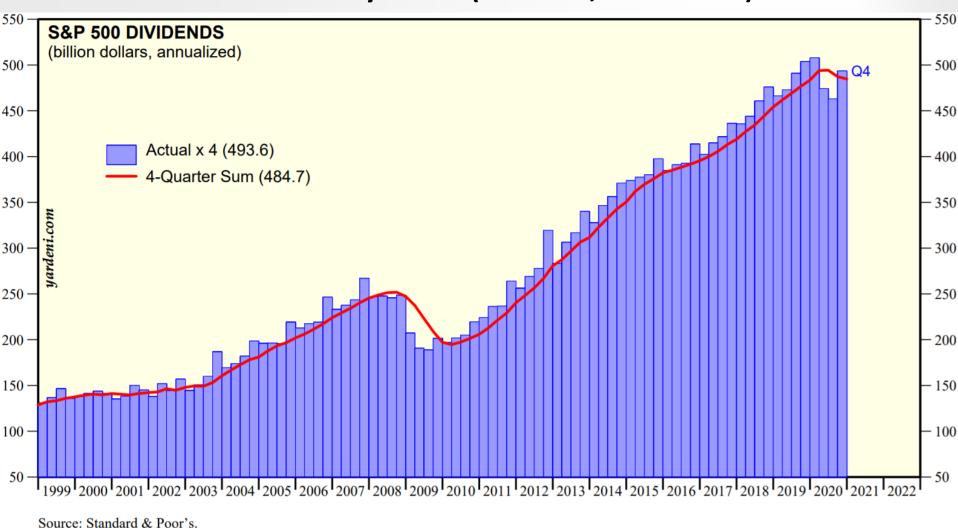
Factors that Influence Dividend Policy

- Taxes
 - Tax preference for/against dividends relative to capital gains.
- Earnings volatility
 - Because of the reactions to dividend cuts, firms with volatile earnings are sometimes reluctant to commit to dividends.
- Investment opportunities/financial flexibility
- Flotation costs
 - For smaller firms, the relative high costs of accessing external capital may discourage payouts.
- Contractual restrictions
 - E.g., bank loan covenants
- Ability to maintain dividends: Dividend coverage ratio
 - Dividend Coverage = Net Income / Dividends
 - This does not capture earnings volatility.



Dividend Policy: Recent Trends (1)

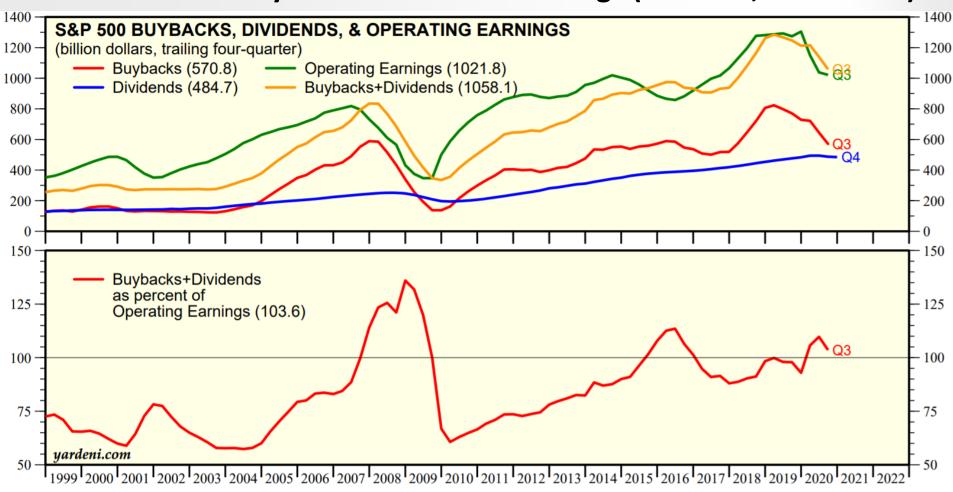
Dividend Payments (S&P 500, 1999-2020)





Dividend Policy: Recent Trends (2)

Dividends and Buybacks relative to Earnings (S&P 500, 1999-2020)



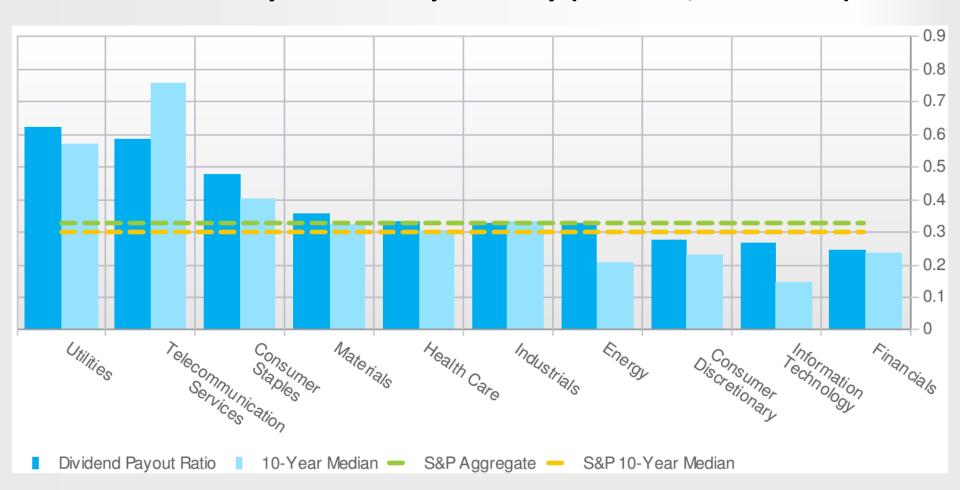
Source: Standard & Poor's.

source: racisei



Dividend Policy: Recent Trends (5)

Dividend Payout Ratio by Industry (S&P 500, 2005-2015)



Source: Factset

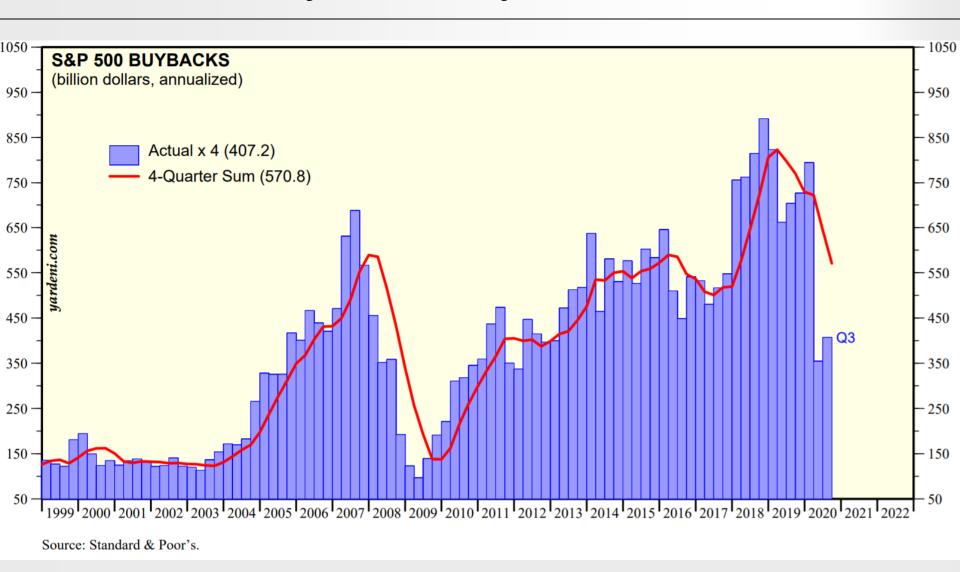


Share Buybacks (Repurchases)

- Motives for buying back shares include the following:
 - Signal that the stock is undervalued.
 - Flexibility of distributing cash without the expectation of cash dividends.
 - Similar to declaring a special dividend
 - Tax efficiency when the tax rate on capital gains is less than that of cash dividends.
 - Offset share increases from employee stock option exercises.
- Some countries place limits on repurchases (e.g., Canada), or require shareholder approval (e.g., UK, France, Germany)
- Usually executed through open market purchases, but occasionally through tender offer.

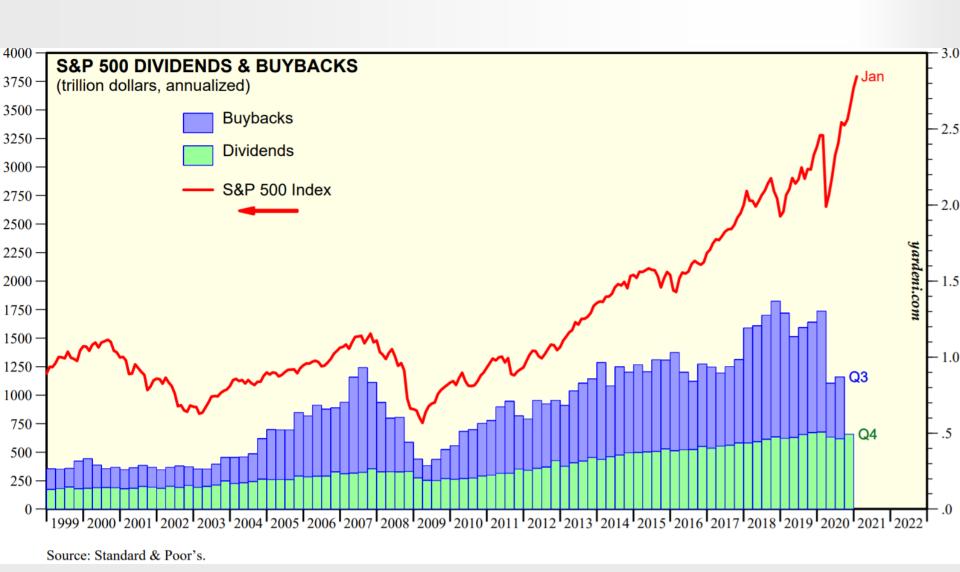


Buyback Policy: Recent Trends



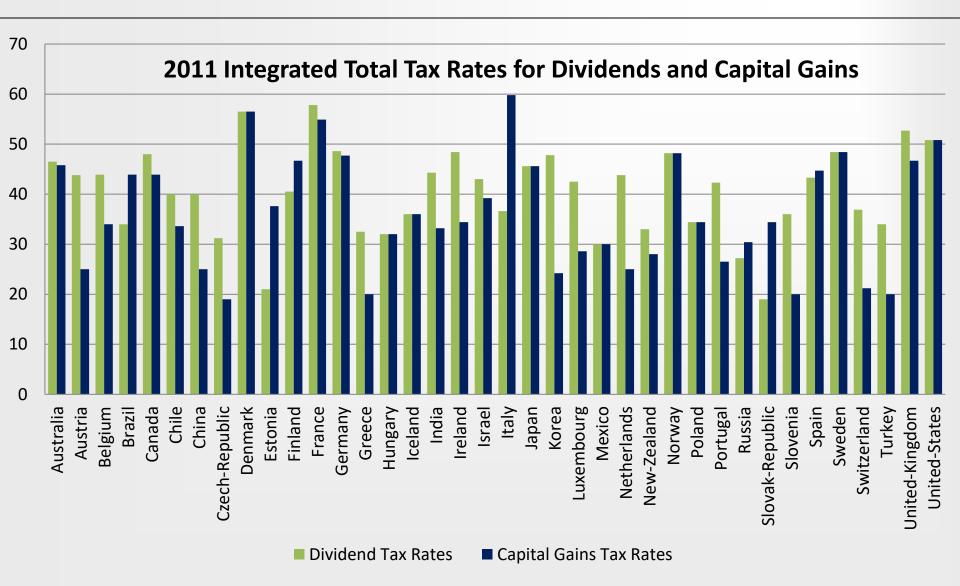


Payout Policy





Taxes: Dividends vs. Capital Gains (1)

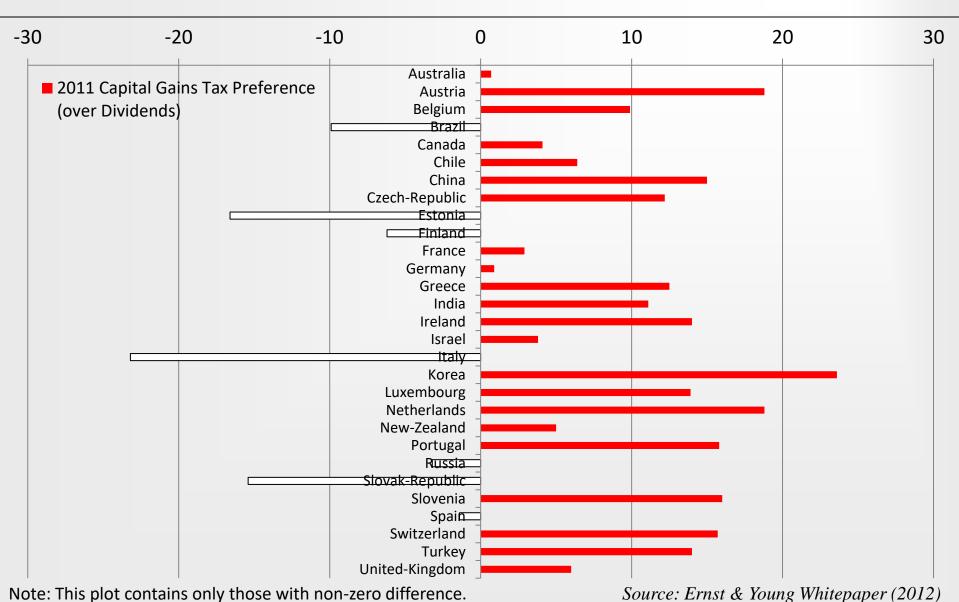


Note: Integrated rate takes into account both corporate and personal

Source: Ernst & Young Whitepaper (2012)



Taxes: Dividends vs. Capital Gains (2)





And Finally... A Behavioural Explanation

- Catering Theory of Dividends: Baker and Wurgler (JFE 2004)
 - When investor demand for dividends is high and arbitrage is limited, a stock price premium could appear for payers relative to nonpayers.
 - Firms may cater to this implied investor demand to capture this "dividend premium".
 - Changes in demand may come from "investor sentiment"
 - investors often prefer more "bond-like" stocks that pay stable cash flows and are easier to value.
 - At other times, investors have a greater appetite for risk.
 - Measures of the dividend premium correlates positively with aggregate dividend activity.
- However, this dividend premium is correlated with measures of firm maturity
 - could just be the agency motivations of mature firms in disguise.
 - Cannot explain why dividends are 'sticky'.



Evidence from a Survey (Brav et al 2005)

- Survey of 384 financial executives (256 public, of which 166 pay dividends, 167 repurchase shares, and 77 do not pay out).
- Maintaining the dividend level is a priority on par with investment decisions. The same is not true for buybacks.
 - Managers express a strong desire to avoid dividend cuts, except in extraordinary circumstances.
 - Would rather raise external funds than cut dividends
- Beyond maintaining the level of dividends per share, payout policy is a second-order concern:
 - increase in dividends are considered only after investment and liquidity needs are met.
- Two reasons dominate why nonpayers might initiate dividends:
 - a sustainable increase in earnings
 - demand by institutional investors.
- Tax treatment matter, but is not a top consideration.



Short Detour on Cash Holdings

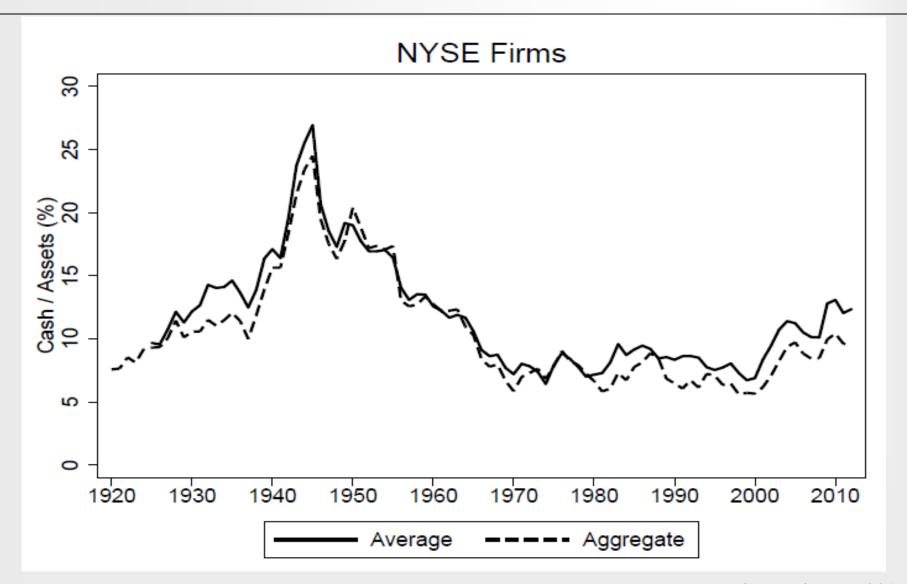


Cash Holdings

- A company that does not payout to investors can:
 - Reinvest its retained earnings
 - Hold cash
- There is currently a large debate about (excessive) cash holdings by some companies.
 - For example Apple has almost \$200B worth of cash
- Similar arguments that help explain payout policy also determine cash holdings



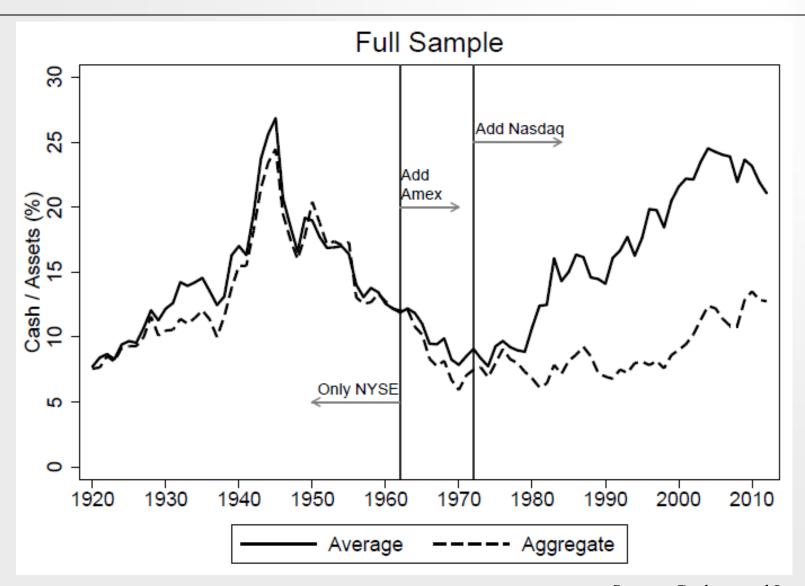
Cash Holdings for NYSE firms



Source: Graham and Leary (2015)



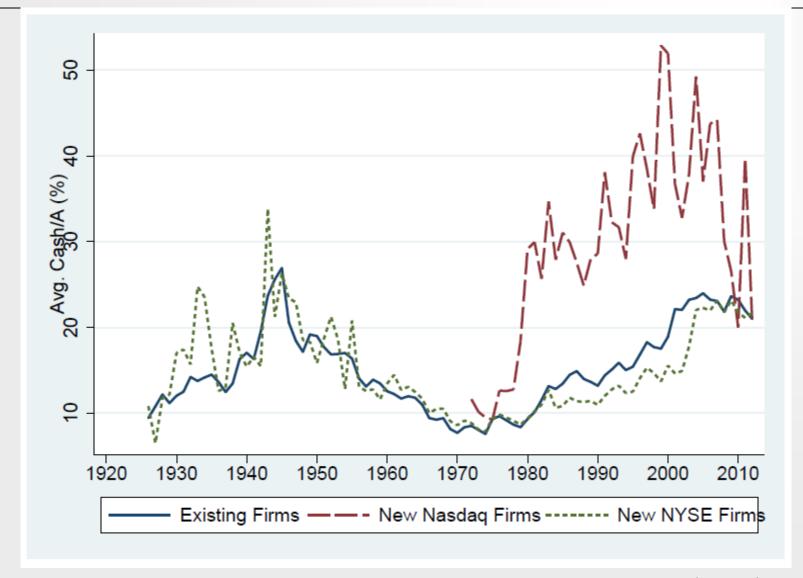
Cash Holdings including NASDAQ firms



Source: Graham and Leary (2015)



Cash Holdings including NASDAQ firms



Source: Graham and Leary (2015)



Take Away points on Cash Holdings

- On average cash holdings are not as high as t may seem.
 - Other points in history had similar levels
- A big part of the change in cash holdings in the recent years is driven by a composition effect
 - High Growth firms in technology and healthcare enter with large cash holdings
 - Earnings are now more concentrated in a few large firms
- Taxes are also a primary driver.
 - A lot of the cash held is outside of the US
 - Repatriation taxes have to be paid if the cash is sent back
 - Difference between US corporate tax and foreign corporate tax has increased over time
 - This can account for a large part of the recent evolution of cash
 - These results are by the same authors but is still not included in the paper.