FINANCIAL MANAGEMENT II

DIVIDEND POLICY, SHARE REPURCHASES, AND CORPORATE LIQUIDITY MANAGEMENT

Practical Analytical Report – Financial Analysis Project

Submitted by: Roshan

Student ID: PBM26037

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Executive Summary

This report discusses the effects of dividend policy and share repurchases on corporate value, shareholders and long-term liquidity. It discusses the difference between regular cash dividends, stock dividends and stock buybacks, and considers the balance between cash dividends and reinvestment of funds. The report is an integrated financial theory, illustrative numerical model and documented corporate examples. Shell and BP lowered their dividends in 2020 to preserve financial health and ability to weather the COVID-19 shock, and Microsoft's fiscal 2025 results demonstrate how one cash-generating company can invest and pay out dividends to shareholders. The main takeaway is that a sustainable regular dividend, with a buyback program reserved for excess cash and valuation, and a liquidity reserve that is tied to downside stress tests. Positive-NPV investment should come before, not before, payout decisions. Payout decisions should come after (not before) positive-NPV investment.

1. Introduction

A company's payout policy decides the amount of cash that it returns to shareholders and the amount of profits that it retains to invest in the future growth of the company. The ruling impacts the expectations of investors, financing options, capital structure, and the capacity to absorb unforeseen events. While a high payout ratio may be attractive to investors looking for income, it can also reduce investment and cash flow opportunities. Keeping all earnings can help maintain flexibility but can also be disappointing to investors when management is not able to find projects that will yield higher rate of return than the required one.

This report contrasts the payout methods, outlines valuation and signaling effects, analyzes actual policy changes for firms and builds a payout framework based on the liquidity of the payout stream. It relies on information from public company reports and a purposefully hypothetical numerical model. The model represents a forecast of an issuer and not an actual forecast, and historical examples do not show that any payout policy consistently performs better than others.

2. Theoretical Framework and Financial Models

2.1 Cash dividends, stock dividends and share repurchase

A cash dividend is an amount of cash paid to shareholders according to their ownership ratio. Regular dividend payments can offer steady income and offer a good indicator of management confidence, but can lead to expectations that can be difficult to break. Stock Dividend is distribution of more stocks instead of cash. It will raise the number of shares outstanding and lower the shareholder ownership of that number of shares, but it will not generate new operating value or cash to investors. A share repurchase involves the company acquiring shares through market purchases or a tender offer, with funds from the company's treasury. Can return excess

cash flexibly and can cut down on the number of shares, while it can destroy value if shares are bought back at a price that exceeds intrinsic value.

The Modigliani–Miller dividend irrelevance proposition argues that, with specific restrictions (perfect markets, no taxes and transaction costs, and a fixed investment policy), payout form does not alter the total value of the firm. In reality, taxes, information asymmetry, agency costs and investor preferences and market frictions can make all the difference in the world when it comes to a company's payout decisions. The dividend-signalization theory proposes that alterations in regular dividends may provide information regarding management's expectations on future cash flows. In addition, agency theory suggests that distributions can reduce the agency's control, and excessive distributions can tie up the funds which would otherwise be used for superior investments.

2.2 Payout ratios and valuation

The earnings payout ratio is defined as the cash dividends paid divided by the net income. The total payout ratio may include other means of distributing profits, such as repurchases. Dividend yield is the annual cash dividend that is paid per $1 share price. One way to measure dividend coverage is to see how many times earnings per share can cover dividends per share, but it is often more useful to calculate cash-flow coverage since accounting earnings are not cash. A simple sustainable-growth relationship is g = ROE × retention ratio, where, stable return on equity and reinvestment. These ratios are merely indicators and not stand-alone decision rules.

For a constant dividend growth, the equity value will be $P0 = D1/(r - g)$ and the required return on equity, r, will exceed sustainable growth, g. This model is sensitive to assumptions: small changes in r or g can have significant impact on estimated value. It may not be appropriate for firms that do not pay dividends or whose dividends are not tied to the cash generated over the long-term.

3. Dividend Policy and Payout Methods

A stable dividend policy is one where regular change of policy would be avoided, and would be suitable only if there is a regular cash generation capacity to support the commitment. A steady payout ratio ties the dividends to the company's profits, so the number of dividends varies depending on the profits. A residual policy is one that funds "good" investment projects first and goes to whatever remains with the rest of the cash. Some established firms have a regular dividend that is not large or out of the reach of their resources, but they also occasionally buy back stock when they see favorable market prices. This blend can be used to achieve a balance between predictability and flexibility.

Method	Cash impact	Potential benefit	Main limitation
Cash dividend	Immediate cash outflow	Predictable shareholder income	Creates expectations; reduces liquidity
Stock dividend	No immediate cash outflow	Preserves cash; increases share count	No automatic increase in wealth; EPS dilution
Share repurchase	Cash outflow; share count may fall	Flexible distribution	Overpayment, timing risk, lower liquidity
Retained earnings	Cash remains in company	Funds positive-NPV projects and resilience	May enable inefficient investment

Don't confuse stock dividends with cash dividends. A stock dividend of 10%, for instance, would mean that a shareholder received 100 additional shares for every 1,000 shares he or she owned. €50 pre-distribution price translates to a theoretical ex-distribution price of approximately €45.45 (50 / 1.10). The investor still has the theoretical investment value of approximately €50,000. The number of shares increases, but the value and proportion of ownership remain constant prior to market impacts, taxes and transaction costs.

4. Valuation, Quantitative Model and Sensitivity Analysis

The following model is provided as an example and in millions of €. Suppose a company makes a net income of €120m. It will spend €70m of capital and has €25m of debt payments scheduled,

plus a buffer of €20m for liquidity. The forecast operating cash flow is €150m. Cash available after these planned uses and the reserve is €35m: €150m − €70m − €25m − €20m = €35m. This is not a legal limit on distribution, but rather the highest distribution capacity given the aforementioned assumptions.

Management has recommended €24m of cash dividends, and €12m of repurchases, which will give a total payment of €36m. This is €1m over the cash capacity. A sensible adjustment brings buybacks to €11m, resulting in a total of €35m in distributions. For the cash dividend, the earnings payout ratio is 20% (€24m/€120m) and the total payout ratio (with number of dividends) is 29.2% (€35m/€120m). The cash dividend reduces reported net income by €64m, but the repurchases have no effect on net income.

Illustrative cash bridge	**€ million**
Operating cash flow	150
Capital expenditure	(70)
Scheduled debt service	(25)
Required liquidity reserve	(20)
Maximum cash available for distribution	35
Cash dividend	(24)
Maximum buyback within capacity	(11)
Remaining cash after distribution	0

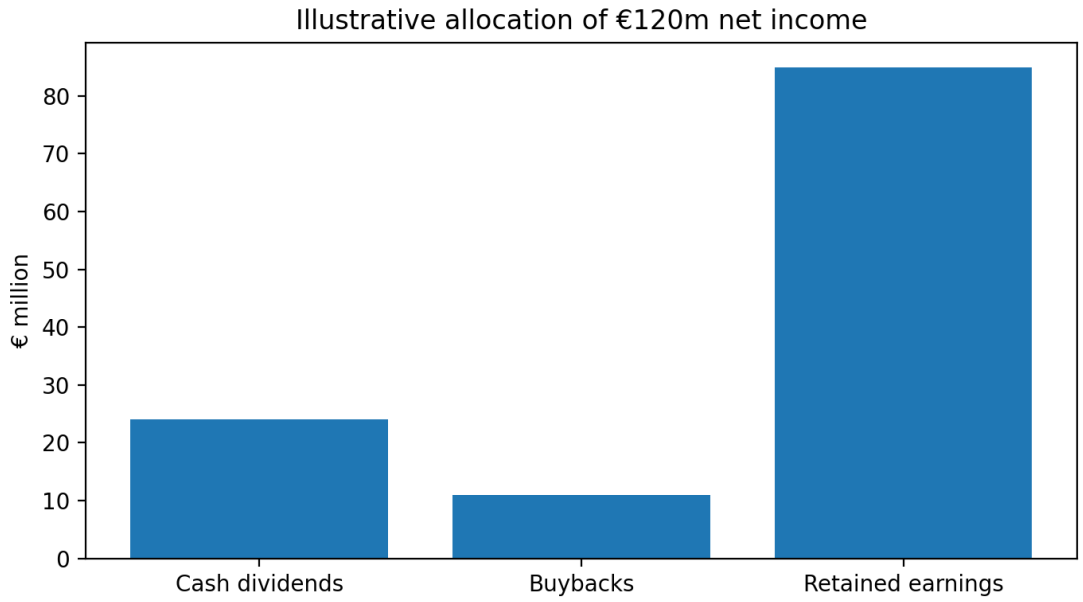


Figure 1. Illustrative allocation of €120m net income. Note. Author's own calculations using hypothetical assumptions.

Now, consider the following downside test to see why the reserve is important: At €125m of operating cash, €70m of capex, €25m of debt service and the €20m reserve, distributable cash is reduced to €10m (€125m − €70m − €25m − €20m). The company should then pause, or significantly scale back, its discretionary buybacks, and only consider the dividend after weighing legal restrictions, market dynamics and the short- or long-term nature of the cash-flow impact.

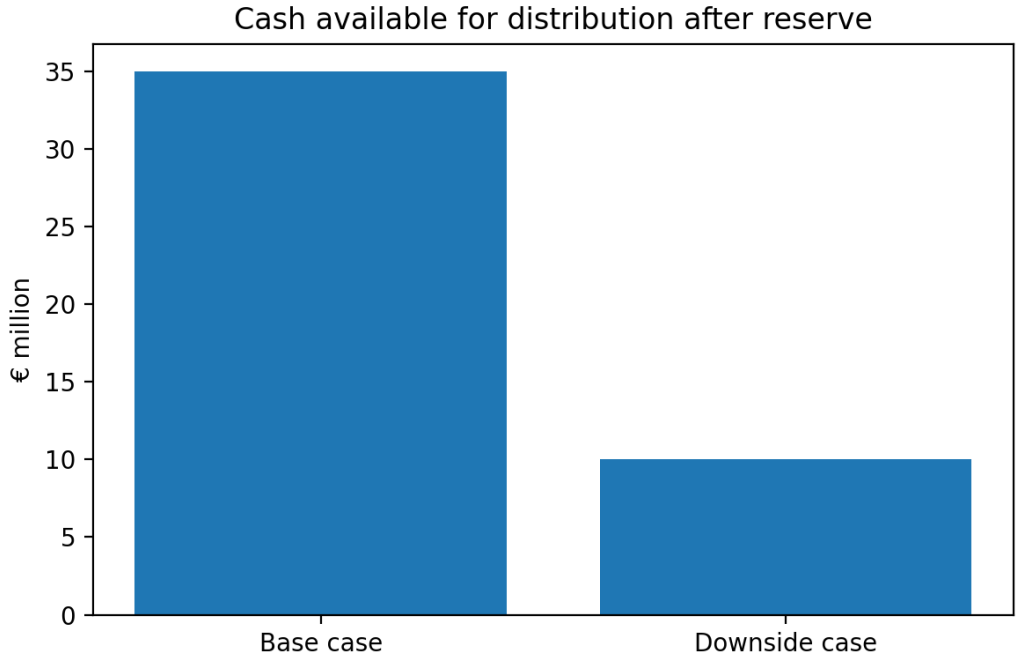


Figure 2. Distributable liquidity in base and downside scenarios. Note. Author's own calculations using hypothetical assumptions.

The model is designed to be as easy to use as possible. An extensive board-level analysis will also predict monthly working capital, taxes, lease obligations, pension obligations, debt covenants, committed acquisition obligations, foreign exchange exposures and refinancing

maturities. It should differentiate between accounting profit, free cash flow and cash actually available for distribution.

5. Empirical Corporate Examples

5.1 Shell: dividend reset during the 2020 shock

On 30 April 2020, Shell's first quarterly dividend was announced at US$0.16 per share, which is lower than the dividend of US$0.47 per share for the same period in 2019. The company attributed the decision to the effect of COVID-19, softer commodity price prospects and uncertain demand. Shell also mentioned the termination of the next phase of its share buy-back programmed and emphasizing on resilience and flexibility (Shell plc, 2020).

5.2 BP: lower dividend with conditional buyback framework

BP's quarterly dividend was at 5.25 US cents per share in August 2020, down from 10.5 cents per share in the previous quarter. Its new distribution network charted a path of an invulnerable dividend and a promise to buy back surplus cash flow at least 60% of it once net debt was cut to US$35bn, while maintaining investment grade credit rating. (BP p.l.c., 2020).

This led to a more consistent dividend than a one which could have depended on the balance-sheet situation. The lesson is that buybacks are not an obligation, but a possible step that must be taken if debt is being reduced and excess cash is available.

5.3 Microsoft: simultaneous investment and shareholder return

Microsoft’s fiscal 2025 annual report states that operating cash flow was US$136.2bn. That fiscal year, the firm bought back 31 million shares at a cost of US$13.0bn and paid out US$24.7bn in dividends. The report also outlines significant investments in property and equipment, such as data centers and AI infrastructure. (Microsoft Corporation, 2025).

This shows that it is possible to have large distributions and still have a strong operating cash generation. It is not meant to mean that all companies have to imitate MSFT, it has a unique scale, cash generation, access to capital and business mix.

Company / period	Observed action	Interpretation
Shell, Q1 2020	Dividend reduced from $0.47 to $0.16/share	Preserve resilience amid pandemic and commodity uncertainty
BP, Q2 2020 policy reset	Dividend set at $0.0525; buybacks linked to net-debt condition	Separate base dividend from conditional variable returns
Microsoft, FY2025	$24.7bn dividends; $13.0bn repurchases; $136.2bn operating cash flow	Cash generation supported investment and distributions

6. Corporate Liquidity Management Strategy

A strong payout structure starts with a fiscal plan and capital plan for a 12- to 18-month view, but with a longer-term outlook. Management should determine before making distributions, committed capital expenditures, working-capital seasonality, tax payments, debt maturities, and lease obligations and covenant headroom. The amount of liquidity reserve should be proportional to the volatility of revenue, access to credit, exposure to supply chains and the time needed to cut costs. The reserve should be evaluated and not just picked from a percentage.

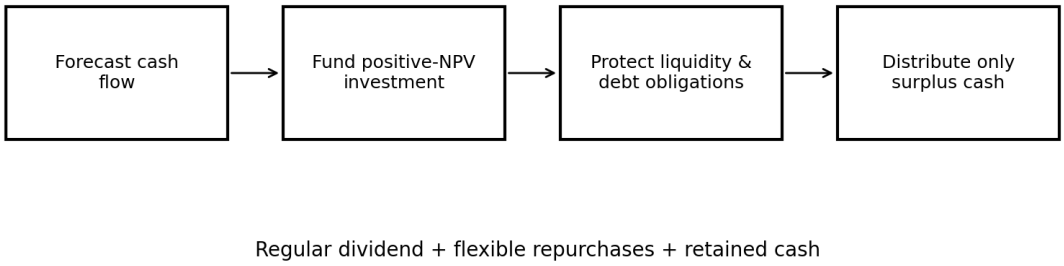


Figure 3. Recommended payout decision sequence. Note. Author's own creation.

The suggested order of projects is to first fund projects with positive-net-present values, then contractual commitments, then a buffer of liquidity, and finally distributing surplus cash.

Normally, regular dividends should be established at a level that can be sustained during a normal downturn.

7. Discussion and Managerial Implications

There are arguments in favor of a policy that depends on circumstances over a single standardized policy for paying out. While distribution of cash can help assure the income and communicate confidence, it is difficult to change without repercussions. Buybacks can be flexible and, indeed, have the potential to enhance earnings per share (EPS) by reducing the number of shares, but alone are not a measure of value creation.

? The repurchase of shares at a premium to their intrinsic value represents a transfer of value from the continuing shareholders to the person who is buying the shares. Stock dividends don't generate economic value to address a liquidity crisis; they just preserve cash.

Capital-allocation priorities and underlying assumptions need to be clearly stated by managers regarding decisions on payouts. The board should consider cash-flow projections, worst case scenarios, investment returns, debt covenants and the fairness of the buy-back pricing. Governance and disclosure are important because the shareholder expects to receive timely information to assess allocation of capital. The G20/OECD Principles of Corporate Governance highlight the following principles in governance: Shareholder rights; Equitable treatment and disclosure. (OECD, 2023).

The drawbacks are that the numerical company is a theoretical company and the corporate examples are case studies (disclosed-period cases) which are only a comparison. Treatment of the taxes varies among investors and jurisdictions, market reactions are based on expectations, and the valuation models used for dividends are based on estimates that are not guaranteed. These examples are not evidence of a causal finding of an increase in share prices or total shareholder return from the payout action.

8. Conclusion and Recommendations

Dividend policy is a component of a strategy and an allocation decision that relates shareholder distributions to investments, financing and liquidity. Repurchasing shares offers flexibility, but means that cash must be saved for the purpose as share values need to be controlled; cash dividends give a shareholder income immediately, and stock dividends preserve cash but do not necessarily generate wealth. When acting in "Fight mode", the two companies shell and BP demonstrate the resetting while doing it with the payouts, and when cash generation is healthy, the capacity to compress investments and significant payouts, as seen with Microsoft.

The recommendations are: (1) choose sustainable regular dividend based on cash flow over a cycle as opposed to one strong year; (2) focus on investment and obligations with positive cash-flow; (3) consider buybacks as a flexible residual tool based on valuation, liquidity and leverage; (4) establish a board approved liquidity pool, subject to downside conditions; (5) transparently disclose payout, cash flow coverage, debt maturity and investment opinions; and (6) review the policy when business risk, investment requirements and market-related conditions materially change.

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Appendix A: Spreadsheet Output and Valuation Models

APPENDIX A — CASH DISTRIBUTION MODEL

Illustrative hypothetical model |

Input / calculation	Base case (€m)	Formula / basis	Interpretation
Net income	€120.00	Given assumption	Accounting profit for the period
Operating cash flow (OCF)	€150.00	Given assumption	Cash generated from operations
Capital expenditure (Capex)	€70.00	Given assumption	Planned investment in long-term assets
Debt service	€25.00	Given assumption	Scheduled financing cash commitments
Liquidity reserve	€20.00	Given assumption	Minimum cash buffer retained
Maximum distributable cash	**€35.00**	**OCF − Capex − Debt service − Reserve**	**Cash capacity available for distributions**
Proposed cash dividend	€24.00	Given proposal	Planned cash dividend
Proposed share buyback	€12.00	Initial proposal	Initial proposed repurchase
Total proposed payout	€36.00	Dividend + buyback	Initial total payout
Excess / (shortfall)	(€1.00)	Distributable cash − proposed payout	Negative value means proposal exceeds capacity
Adjusted share buyback	€11.00	Distributable cash − cash dividend	Buyback reduced to keep payout within capacity
Adjusted total payout	**€35.00**	**Dividend + adjusted buyback**	**Final distribution aligned with available cash**
Cash dividend payout ratio	**20%**	**Cash dividend ÷ net income**	**20.00% of net income**
Total payout ratio	29%	Adjusted payout ÷ net income	29.17% of net income

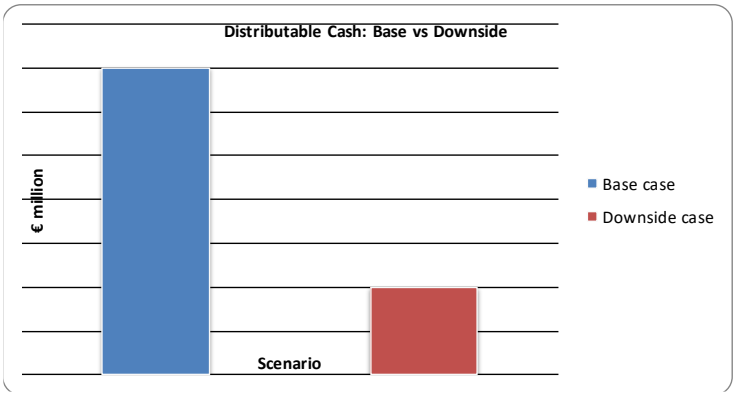
Appendix B: Liquidity Sensitivity

APPENDIX B — LIQUIDITY SENSITIVITY

Downside scenario illustrates how weaker operating cash flow reduces safe distribution capacity

Scenario	Operating cash flow (€m)	Distributable cash (€m)	Calculation
Base case	€150.00	€35.00	OCF − Capex 70 − Debt service 25 − reserve 20
Downside case	€125.00	€10.00	OCF − Capex 70 − Debt service 25 − reserve 20

Interpretation: When operating cash flow falls from €150m to €125m, distributable cash falls from €35m to €10m. The company should reduce or suspend discretionary buybacks and reassess dividends against liquidity needs.



Appendix C: Stock Dividend

APPENDIX C — STOCK DIVIDEND ILLUSTRATION

Theoretical illustration only; excludes market reaction, transaction costs and other real-world effects

Input / output	Value	Formula / basis	Explanation
Existing shares	1000	Given assumption	Shares before stock dividend
Market price per share (€)	€50.00	Given assumption	Illustrative pre-distribution price
Stock dividend rate	10%	Given assumption	10% additional shares
New shares issued	100	Existing shares × stock dividend rate	Additional shares credited
Shares after stock dividend	1100	Existing shares + new shares	Total shares after distribution
Theoretical ex-dividend price (€)	€45.45	Pre-distribution price ÷ (1 + stock dividend rate)	Theoretical mechanical price adjustment
Total theoretical value before (€)	€50,000.00	Existing shares × price	Illustrative value before
Total theoretical value after (€)	€50,000.00	Shares after × theoretical ex-dividend price	Illustrative value after, before market effects

Interpretation: The number of shares per retailer held by the shareholders is increased as a result of the stock dividend, but, in the simplified theoretical example, the total economic value in this case does not increase for each shareholder directly. Actual market prices will vary.

Appendix D: ASSUMPTIONS & FORMULA SCHEDULE

APPENDIX D — ASSUMPTIONS & FORMULA SCHEDULE

Model item	Formula / assumption	Use in analysis	Caution
Maximum distributable cash	OCF − Capex − Debt service − minimum liquidity reserve	Estimates cash available after core commitments	Simplified planning proxy; check legal distributable reserves and debt covenants
Cash dividend payout ratio	Cash dividend ÷ net income	Share of accounting earnings paid as cash dividends	Cash flow capacity matters as well as accounting earnings
Total payout ratio	(Cash dividend + share buyback) ÷ net income	Measures total cash returned to shareholders	Buybacks are discretionary and should adjust when liquidity weakens
Downside sensitivity	OCF reduced from €150m to €125m; other assumptions unchanged	Shows payout capacity under cash-flow pressure	Illustrative scenario, not a forecast
Stock dividend	10% additional shares; theoretical price = old price ÷ 1.10	Shows mechanical share-count and price adjustment	Actual market prices may differ
Data status	All company-model inputs are hypothetical assumptions	Separates model illustration from empirical disclosures	Do not present hypothetical inputs as observed company data