CORPORATE FINANCE FOR LONG-TERM VALUE

Chapter 16: Issues and payouts – changes in capital structure

Part 5: Corporate financial policies

#### Chapter 16: Issues and payouts – changes in capital structure

# The BIG Picture

□ Issues raise cash from providers of capital and payouts pay cash to providers of capital

Discussion

- □ Issues and payouts are only value relevant in imperfect markets
- □ Financial payout ratio is payout (dividends + share buybacks) as percentage of profit
- Impact of E and S on financial issues and payouts is most obvious through their impact on risk, debt capacity and cash flows
- Integrated payout ratio calculates payout as percentage of integrated value flows
- Caution on payouts in the presence of significant liabilities on E or S

# Issues of financial capital

- □ When companies need extra capital, they might issue additional capital:
  - Bonds debt
  - Shares equity
- The *initial public offering* (IPO) is a company's first equity issue in public equity markets
- □ Subsequent equity issues are called *seasoned equity offerings* (SEOs)
- A *rights issue* invites existing shareholders to purchase additional new shares in the company

# Issues in perfect capital markets

- If a company with 5 million shares raises 10 million in equity:
  - Assets and cash increase by 10 million
  - The stock price remains the same
    - 20 / 5 = 4 value per share before issue
    - 30 / 4 = 7.5 million outstanding shares after issue (so 2.5 million shares issued)
  - Leverage (debt / equity) decreases
    - From 0.20 (= 5 / 25) to 0.14 (= 5 / 35)
    - Company reduces risk

Market value balance sheet - before equity issue

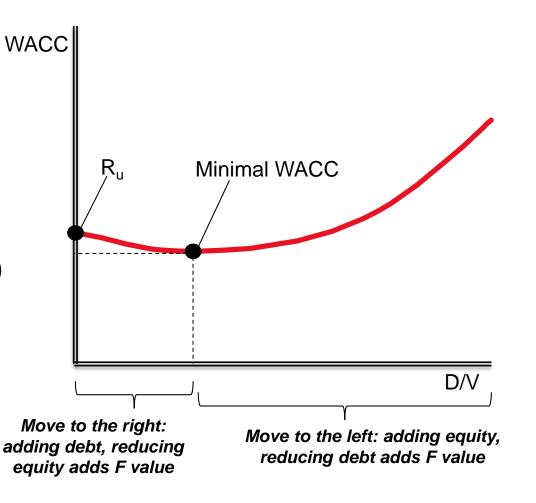
F assets	25	F debt	5
		F equity	20
Total assets	25	Total liabilities	25

Market value balance sheet – after equity issue

F assets	35	F debt	5
		F equity	30
Total assets	35	Total liabilities	35

# Cost of issues due to market imperfections

- Due to the tax deductibility of interest,
  adding debt might increase FV until
  bankruptcy costs outweigh tax benefits
- Optimal capital structure is where the weighted average cost of capital (WACC)
   is lowest
  - is lowest



# Cost of issues due to market imperfections

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- Assume that information asymmetries
  result in a -3% stock price reaction at
  announcement of the issue:
  - Equity (and assets) decreases by 0.6 (= 3% x 20)
  - Share price drops to 3.88 (= 19.4 / 5)
- □ To raise 10 million in equity:
  - The company will need to issue more shares:
    10 / 3.88 = 2.577 million shares

Market value balance sheet - before announcement

F assets	25	F debt	5
		F equity	20
Total assets	25	Total liabilities	25

Market value balance sheet - after announcement

-0.6	F assets	24.4	F debt	5	
			F equity	19.4	-0.6
	Total assets	24.4	Total liabilities	24.4	

Market value balance sheet - after equity issue

F assets	34.4	F debt	5
		F equity	29.4
Total assets	34.4	Total liabilities	34.4

# Why do companies issue capital?

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- Two main reasons why companies issue equity or debt despite the costs:
  - 1. In need of cash for investments with NPV > negative APV (adjusted present value) of issue
  - 2. Owners of privately-owned company may want to (partially) exit
- Additional long-term factors for issuing equity:

#### Reduce leverage

- Improve liquidity of shares
- Enhance company image and publicity
- Motivate employees and management
- Explore mispricing
- Disadvantages for issuing equity
  - High cost of issues
  - Loss of control and ownership

APV includes funding costs of transaction

# Internal errors in issuing capital

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- The adjusted present value (APV) method judges the attractiveness of an issue
- □ Internal errors: managers overestimate cash flows and/or underestimate risk

APV components	20% overvalued by management	10% undervalued by management
plus: cash in	300	300
minus: management's valuation of the shares	-360	-270
minus: transaction costs	-15	-15
sum: management's perceived APV	-75	15

- □ If APV is negative: management feels it is giving away value
- Positive APV is unlikely
- This APV calculation doesn't take into consideration positive NPVs for future investments

# External errors in issuing capital

External errors: market under- or overvalues (groups of ) companies or market indices

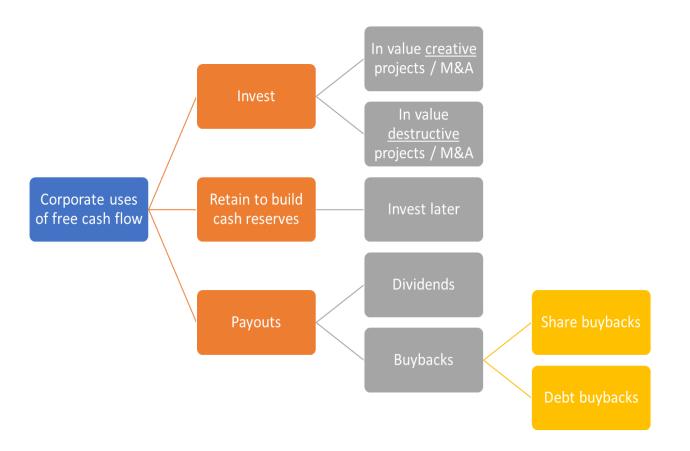
APV components	20% overvalued by the market	25% undervalued by the market
plus: cash in	300	300
minus: management's valuation of the shares	-250	-400
minus: transaction costs	-15	-15
sum: management's perceived APV	35	-115

- Corporate executives "time the market"
  - **Examples:** 'tronics boom in the early 1960s & internet IPOs in the late 1990s

# Payouts to financial capital

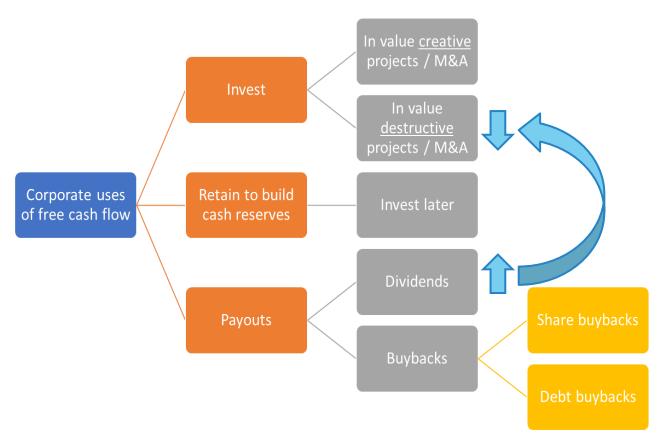
- In payouts, companies return capital to the financiers
- Payouts on equity: dividends & share repurchases / buybacks
- For investors, payouts are a way to get income from invested funds

 $Payout \ ratio = \frac{Payouts}{Net \ income}$ 



# Payouts to financial capital

- In perfect capital markets, dividend payment = stock price drop
- Free Cash Flow (FCF) Theory: managers tend to waste FCF
   on negative NPV projects and
   overconsumption of perks (i.e.,
   corporate jets)
  - Higher dividends reduce investment in value destructive projects



## Dividends

- **Signaling theory**: high and rising dividends signal high company quality
- □ Lintner (1956) found that companies establish long-run target payout ratios
- Managers prefer to smooth dividends
  - Reserve earnings from good financial years to pay dividends in bad years
  - Leads to negative perception of dividends cuts, with negative stock price reaction
- Cash dividends are cash payments to shareholders
- Repurchases / buybacks: company buys shares from its shareholders

## Example: timeline Telenor 2020 dividend

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# Calculating dividends

#### Company has:

- 3 million shares outstanding, with a per share value of 237 (711 million / 3 million)
- Dividend policy of 50% payout ratio
- Most recent FY: profit of 66 million, so 33 million in dividends and 11 per share (= 33 million / 3 million)
- Dividend yield of 4.6% (= 11 / 237)

F investment projects	760	F debt	112
F cash	63	F equity	711
Total assets	823	Total liabilities	823

Number of shares outstanding, millions	3
Value per share	237
Net profits, millions	66
Payout ratio	50%
Total dividend paid, millions	33
Dividend per share	11
Dividend yield	4.6%

# Stock dividend and stock splits

- $\square$  Paying dividends with shares  $\rightarrow$  not really payout
- □ Increase in shares outstanding is corrected by falling share price
- □ Stock splits lead to dramatic changes in shares outstanding
  - Undertaken for shares with high price per share

	Value before the 15:1 stock split	Value after the 15:1 stock split
Stock market value, € billions	26	26
Number of shares, millions	80	1200
Value per share, €	325	21.67

# Share repurchases & taxes

- Two ways to do share repurchases (also known as share buybacks):
  - Open market operations a company buys back shares in the market
  - Tender offers shareholders receive an offer that asks to submit (tender) a portion of their shares
- Dividends are more heavily taxed than capital gains and repurchases
- Tax rates differ across shareholders, with some (such as pension funds) being tax-exempt
- Dividend capture theory: in absence of transaction costs, investors can trade shares so that non-taxed investors receive dividends

# Behavioural view on payouts

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- Internal errors: managers may be tempted to pay too-high dividends or do too-big share repurchases due to overestimated earnings and underestimated risk
- □ A strong rationale for paying dividends lies in catering to investor needs:
  - Self-control: dividends make people less reliant on self-control with trading shares
  - Mental accounting: segregating overall gain/loss into several components
  - Regret avoidance: people feel more regret over selling too early (cheaply) than not reinvesting in the same stock

# E and S issues and payouts of financial capital

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- E and S affect factors (such as risk, debt capacity and cash flows) that influence whether companies will do payouts or new issues
- □ The sudden internalisation of costs could lead to issues and payouts
  - Example: Bayer made dividend cuts in 2021 after litigation on E issues (Monsanto)
- Internalisation over time
  - **Rising carbon tax**  $\rightarrow$  invest in new technologies  $\rightarrow$  reduce FCF  $\rightarrow$  lower dividends

# Example of E and S effect on dividend policy

#### Option 1: continue to pay dividends

	2022	2023	2024	2025	2026	2027
Net profit	140	-45	-58	-33	76	187
Depreciation	20	20	22	22	22	22
Capex	-25	-86	-94	-67	-23	-23
FCF	135	-111	-130	-78	75	186
Dividend (fixed)	60	60	60	60	60	60
Payout ratio	43%	-133%	-103%	-182%	79%	32%
Cash position without dividend cut	247	76	-114	-252	-237	-111

# Cash position with dividend cut

Cash position without dividend cut

#### Option 2: cut dividends until cash and FCF turns

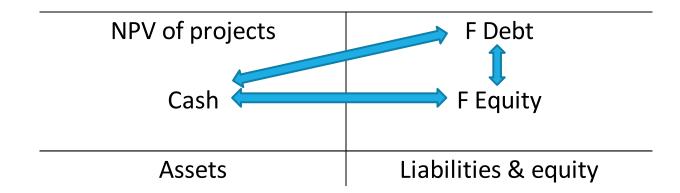
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Depreciation	20	20	22	22	22	22
Сарех	-25	-86	-94	-67	-23	-23
FCF	135	-111	-130	-78	75	186
Dividend (fixed)	60	0	0	0	0	60
Payout ratio	43%	0%	0%	0%	0%	32%
Cash position with dividend cut	247	136	6	-72	3	129

# E and S issues and payouts of financial capital

- Value destruction on E and S puts future cash flows at risk
  - This should make payouts less likely for ethical managers
- □ However, a short-term minded manager will likely opt for payouts to "milk the cash"
- □ A positive contribution to E and S creates value, which strengthens capital structure
- Example: Novozymes a Danish bioenergy provider
  - Expected positive E flows
  - Positive effect on financial position (due to increased demand for low carbon fuels)
  - Could lead to increased dividend payouts in the future

# Issues and payouts for social (S) and natural (E) capital

- □ The value of assets, equity and liabilities on E and S change over time
- Unclear whether changes take the form of payouts or issues
- Difference between F and S and/or E: cash on F balance sheet



## Integrated view on payouts

$$Payout \ ratio = \frac{Payouts}{Net \ income} \quad \Rightarrow \quad Integrated \ payout \ ratio = \frac{Payouts}{Net \ integrated \ income}$$

#### □ Net integrated income is derived from the integrated profit & loss account (IP&L)

	Positive	Negative	Net	Payouts
E value flows	1	-12	-11	
S value flows	9	-2	7	
F value flows	6	0	6	
Payout				4
Financial payout ratio				67% (= 4 / 6)
Net integrated flows	16	-14	2	
Payout				4
Integrated payout ratio				200% (= 4 / 2)

# E and S issues and payouts of financial capital

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- In case of high integrated payout ratio (>100%), cutting dividends could allow for more investment to fix negative E and S flows
- □ Ang and Lambooy (2022) propose an integrated payout test:
  - Let payout policy depend on social and natural capital, on top of financial capital
  - Test based on financial, social and environmental metrics
- Auditing rules already require companies to take provisions when they are aware of contingent social or environmental liabilities

# Company cases

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	Flows in € billions
(1) Net profit	3.25
(2) Net positive social flows	4.10
(3) Net negative social flows	-2.88
(4) Net negative environmental flows	-3.73
(5) Net integrated flows (= sum 1 to 4)	0.74
(6) Dividend	2.19
(7) Financial payout ratio (= 6 / 1)	67%
(8) Integrated payout ratio (= 6 / 5)	296%

	Flows in € billions
(1) Net profit	0.40
(2) Net environmental flows	1.16
(3) Net integrated flows (= 1 + 2)	1.56
(4) Dividend	0.21

(5) Financial payout ratio (= 4 / 1)	53%
(6) Integrated payout ratio (= 4 / 3)	13%

# Conclusions

- Issues raise cash from providers of capital and payouts pay cash to providers of capital
- Issues and payouts are only value relevant in imperfect markets
- The impact of E and S on financial issues and payouts is most obvious through their impact on risk, debt capacity and cash flows
- The integrated payout ratio calculates payouts as percentage of integrated value flows
- Caution on payouts in the presence of significant liabilities on E or S