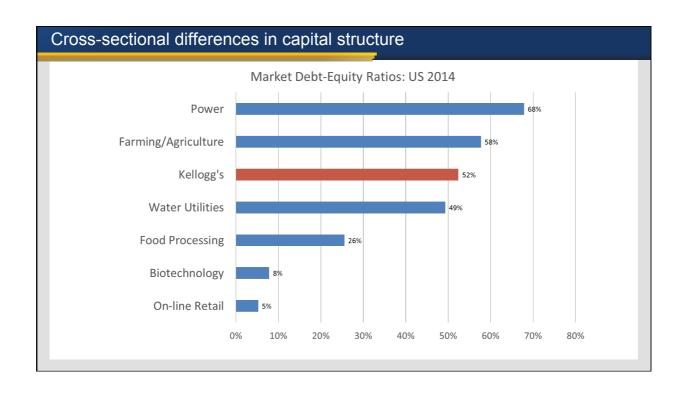


Corporate Financial Decision-Making for Value Creation Raising Debt Capital 2: Explaining Differences in Debt Levels (On borrowed time) Presenter: Sean Pinder THE UNIVERSITY OF MELBOURNE BNY MELLON

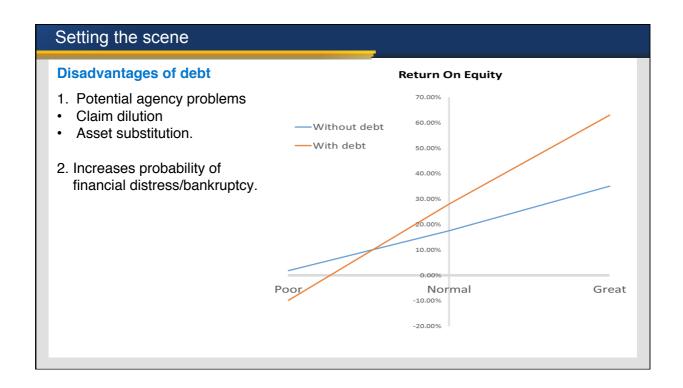


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I



Setting the scene **Advantages of debt** 1. Looks cheaper than equity 2. Tax deductibility of interest No debt Debt 100,000 100,000 **Operating Profit** less Interest Expense 20,000 100,000 Net Income before Tax 80,000 less Tax (@30%) 30,000 24,000 Net Income 70,000 56,000 Note: \$6,000 Tax Shield 3. Financial discipline · Soaking up free cash flow.





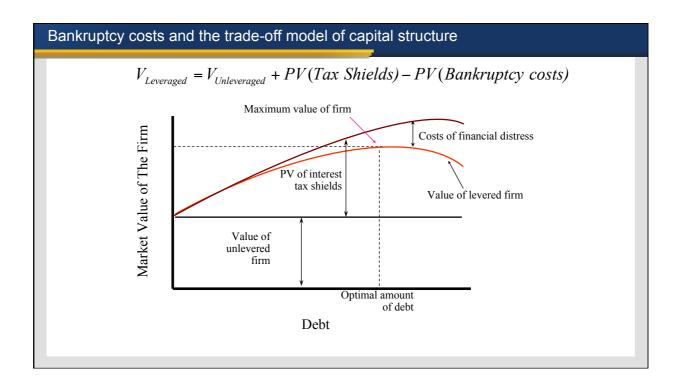
Bankruptcy costs

When a firm goes into financial distress (or ultimately bankruptcy) both **Direct** and **Indirect Costs** are incurred.

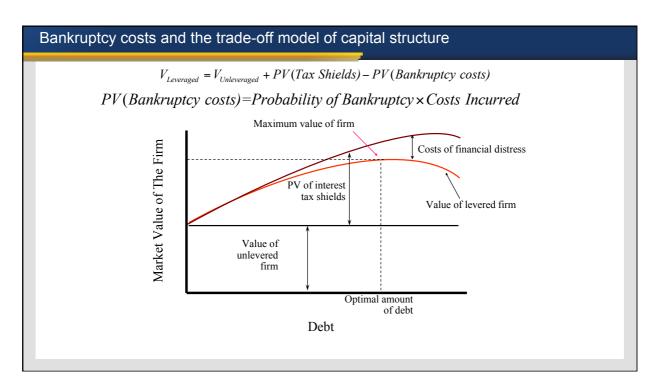
- **Direct Costs**: Fees paid to lawyers, accountants etc. to manage the process.
- Indirect Costs: Loss of customers, managerial time spent on trying to avert distress, missed opportunities etc.

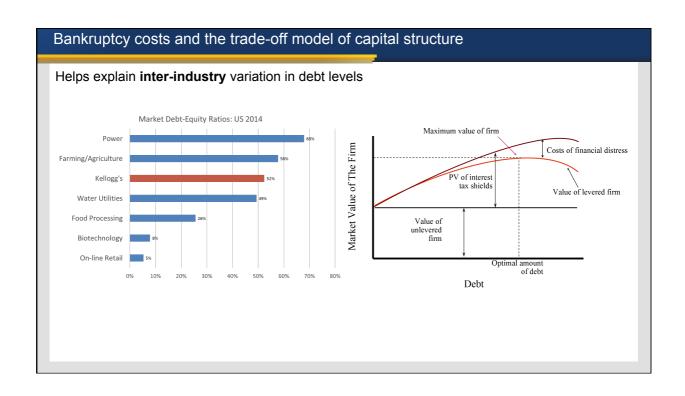
Debtholders bear the realized costs of bankruptcy.

Shareholders will bear the *expected* costs of bankruptcy – as cost of debt will reflect them.

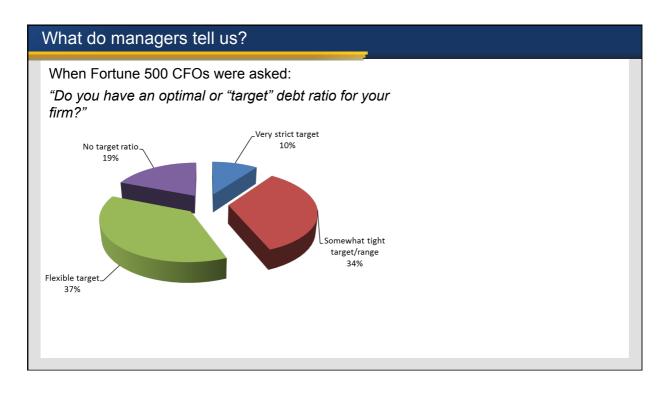


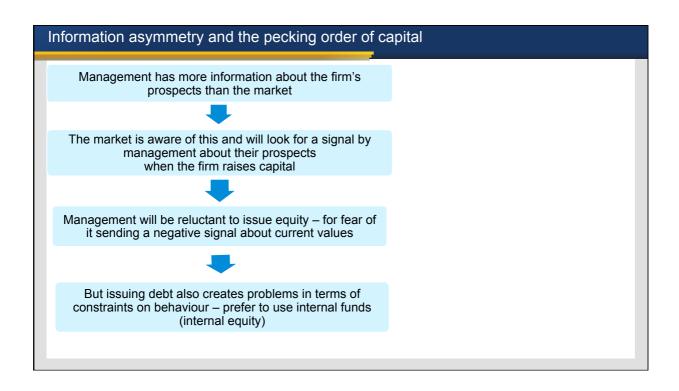














Internal equity Debt External equity Helps explain intra-industry variation in debt levels... What sort of firms in an industry have to go to the debt markets first?

What do managers tell us?

Many surveys conducted around the world have asked CFOs:

"What factors affect how you choose the appropriate amount of debt for your firm?"

Reason	USA	Germany	Australia
Financial flexibility – restrict debt so we have enough internal funds to pursue new projects	1	1	2
Volatility of earnings and cash flows	3	3	1
Credit rating	2	2	3
Transactions costs and fees of issuing debt	5	4	4
Tax advantage of interest deductibility	4	5	5



Summary

- Introducing debt into a firm can assist by reducing taxes paid and enforcing financial discipline within the firm.
- It also increases the risk and costs of financial distress.
- The trade-off theory suggests that firms might balance out the benefits and costs of debt to maximize the value of assets.
- The pecking order theory suggests that firms might prefer debt to external equity – for signaling reasons – and internal equity to debt – to maintain flexibility.
- There is empirical support for both of these theories (as well as many others!).

So ... what do we do with our profits?

Source list

Slide 2 and 8: Industry Market Debt-Equity. Graph prepared by Sean Pinder from data obtained from http://www.stern.nyu.edu/~adamodar/pc/datasets/dbtfund.xls, Kellogg's data obtained from Kellogg Company Annual Report 2014, 25 February 2015 http://investor.kelloggs.com/files/doc_financials/annual_reports/K_2014-Annual-Report_v001_g725z5.pdf), and the Datastream financial database.

Slide 4: Return on equity. Graph prepared by Sean Pinder. © The University of Melbourne.

Slide 6, 7 and 8: Maximum value of firm. Figure prepared by Sean Pinder. © The University of Melbourne.



Source list

Slide 9: Chart prepared by Sean Pinder from data sourced from Graham, J. R., & Harvey, C. R. (2001). The theory and practice of corporate finance: Evidence from the field. *Journal of Financial Economics*, 60(2), pp. 187-243. © The University of Melbourne.

Slide 12: Table prepared by Sean Pinder from data sourced from Graham, J. R., & Harvey, C. R. (2001). The theory and practice of corporate finance: Evidence from the field. *Journal of Financial Economics*, 60(2), pp. 187-243; Coleman, L., Maheswaran, K., & Pinder, S. (2010). Narratives in managers' corporate finance decisions. Accounting & Finance, 50(3), pp. 605-633 and Brounen, D., de Jong, A. & Koedijk, K. (2006). Capital structure policies in Europe: survey evidence. *Journal of Banking and Finance*, 30(5), pp. 1409-1442. © The University of Melbourne.