

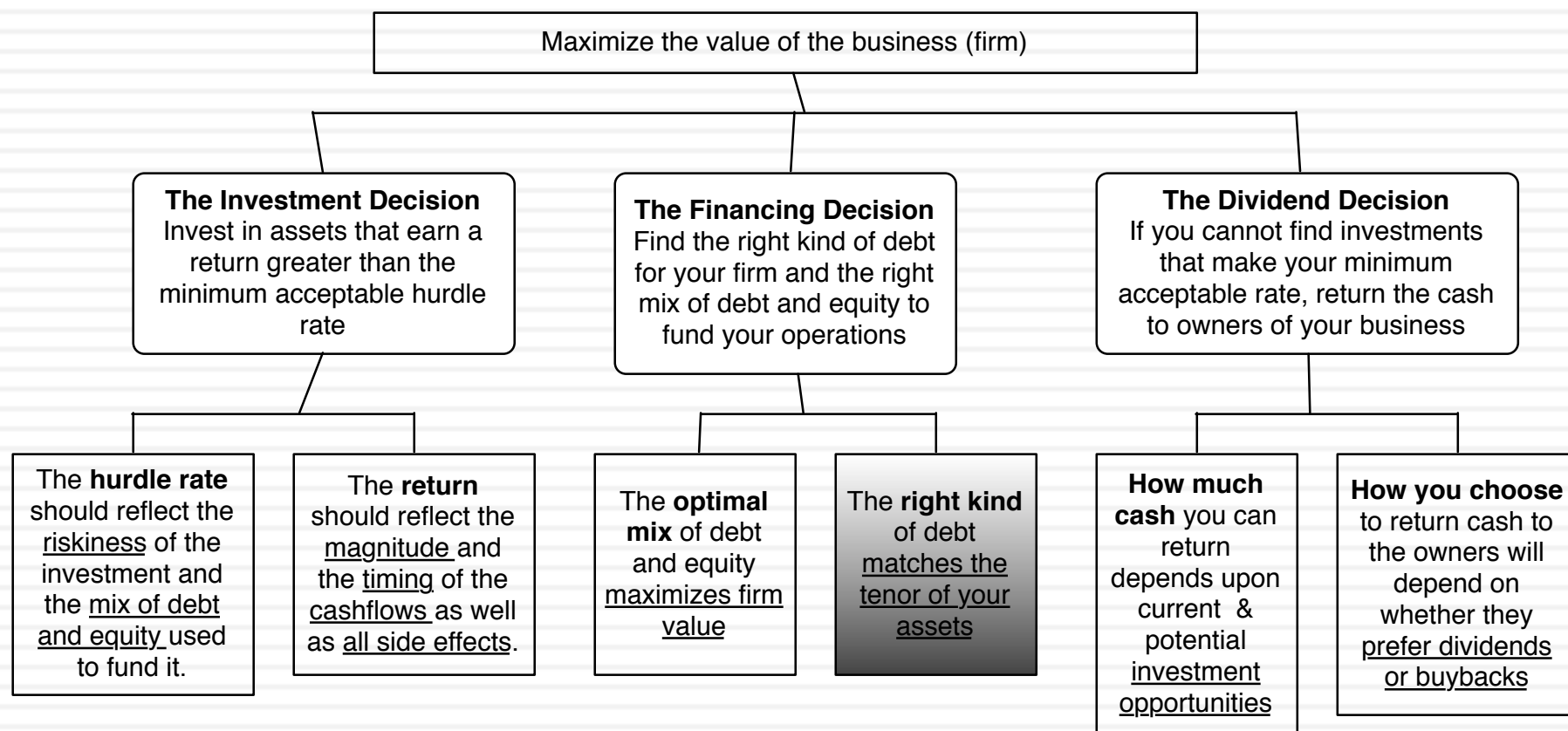


# GETTING TO THE OPTIMAL: TIMING AND FINANCING CHOICES

You can take it slow.. Or perhaps not...

# Big Picture...

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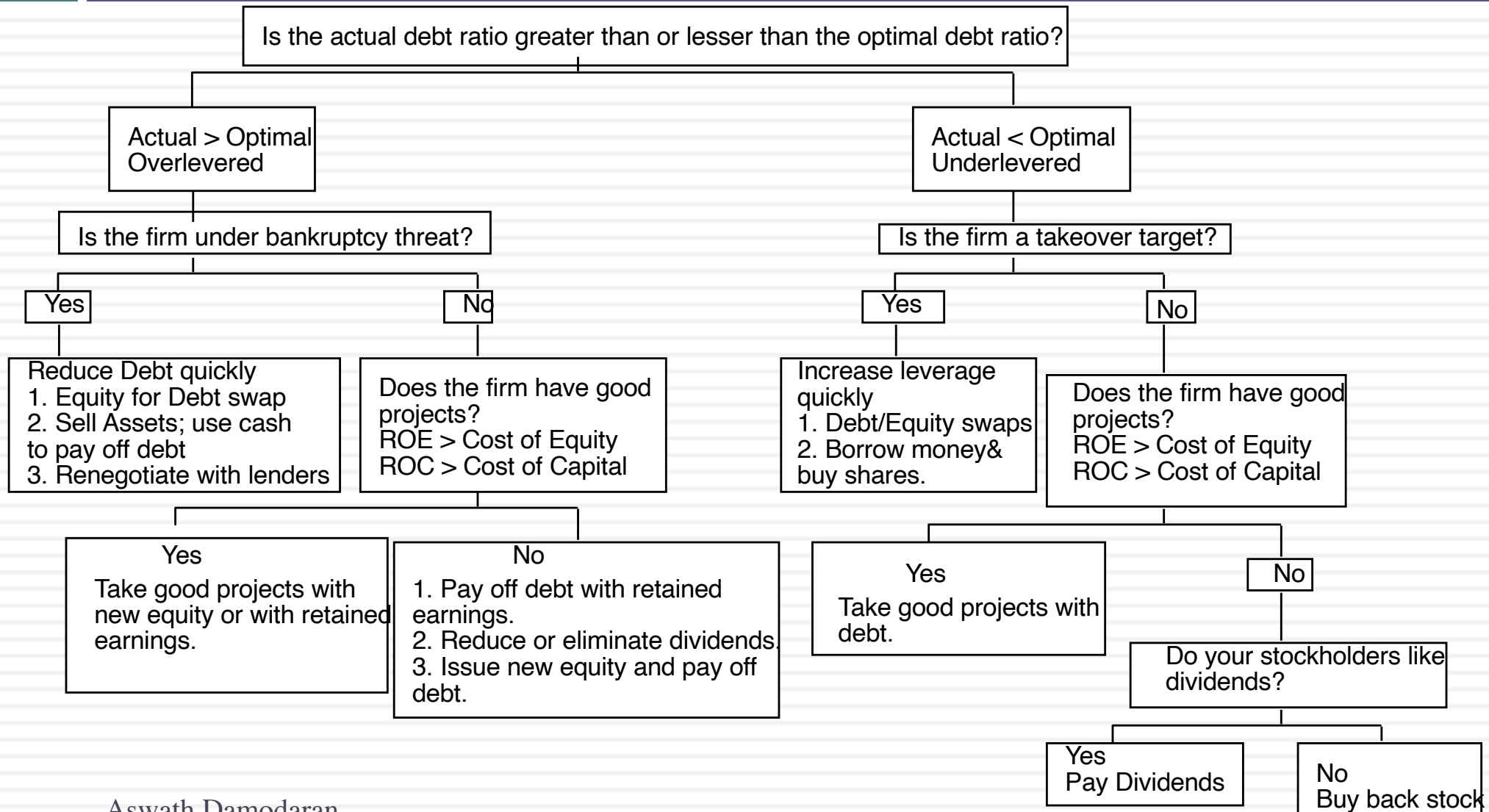
# Now that we have an optimal.. And an actual.. What next?

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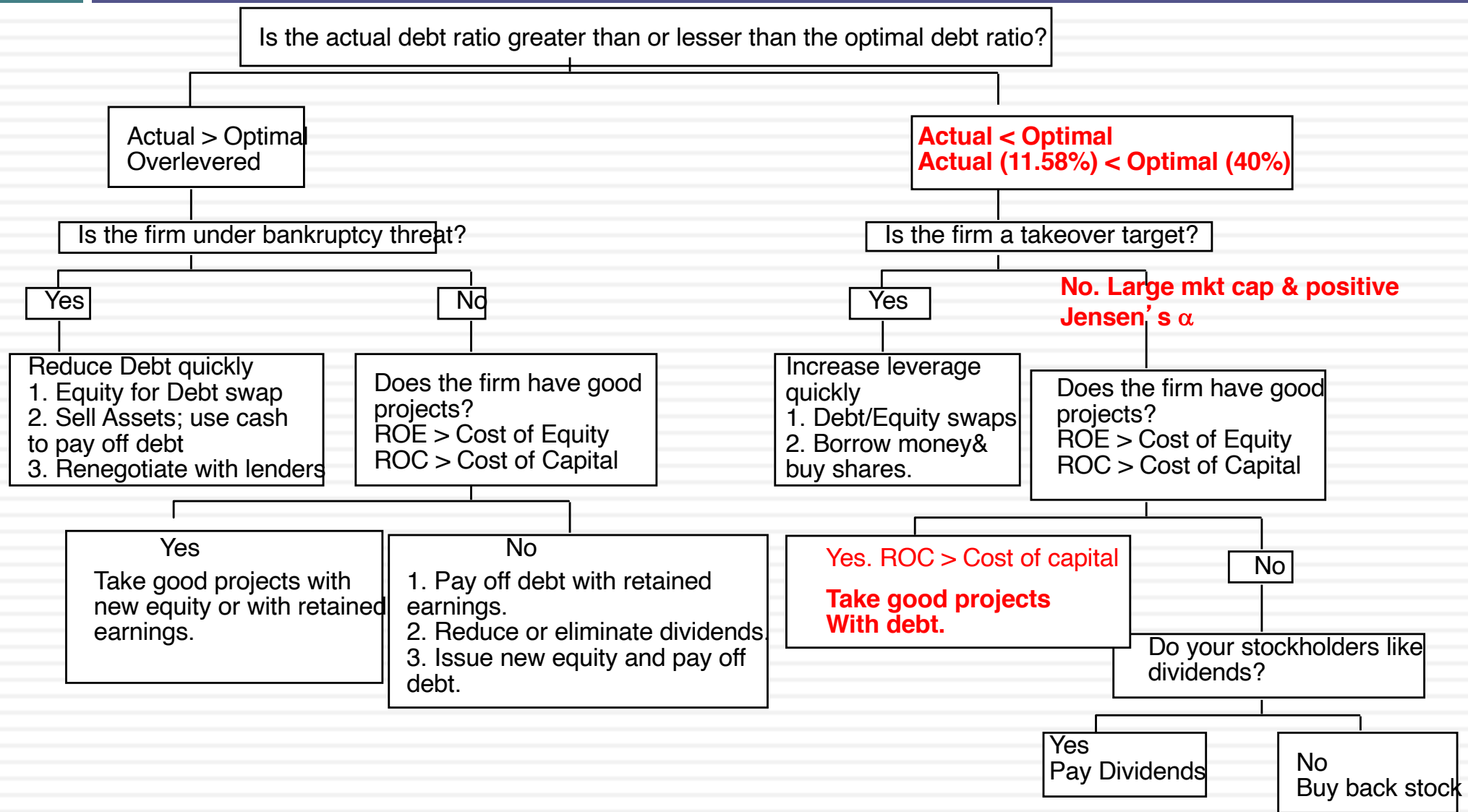
- At the end of the analysis of financing mix (using whatever tool or tools you choose to use), you can come to one of three conclusions:
  1. The firm has the right financing mix
  2. It has too little debt (it is under levered)
  3. It has too much debt (it is over levered)
- The next step in the process is
  - ▣ Deciding how much quickly or gradually the firm should move to its optimal
  - ▣ Assuming that it does, the right kind of financing to use in making this adjustment

# A Framework for Getting to the Optimal

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# Disney: Applying the Framework



## Application Test: Getting to the Optimal

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- ☐ Based upon your analysis of both the firm's capital structure and investment record, what path would you map out for the firm?
  - a. Immediate change in leverage
  - b. Gradual change in leverage
  - c. No change in leverage
- ☐ Would you recommend that the firm change its financing mix by
  - a. Paying off debt/Buying back equity
  - b. Take projects with equity/debt

# The Mechanics of Changing Debt Ratio quickly...

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## To decrease the debt ratio

*Sell operating assets  
and use cash to pay  
down debt.*

*Issue new stock to retire  
debt or get debt holders to  
accept equity in the firm.*

Assets	Liabilities
Cash	Debt
Operating Assets in place	
Growth Assets	Equity

*Sell operating assets  
and use cash to buy  
back stock or pay or  
special dividend*

*Borrow money and buy  
back stock or pay a large  
special dividend*

## To increase the debt ratio

# The mechanics of changing debt ratios over time... gradually...

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- To change debt ratios over time, you use the same mix of tools that you used to change debt ratios gradually:
  - ▣ Dividends and stock buybacks: Dividends and stock buybacks will reduce the value of equity.
  - ▣ Debt repayments: will reduce the value of debt.
- The complication of changing debt ratios over time is that firm value is itself a moving target.
  - ▣ If equity is fairly valued today, the equity value should change over time to reflect the expected price appreciation:
  - ▣ Expected Price appreciation = Cost of equity – Dividend Yield
  - ▣ Debt will also change over time, in conjunction as firm value changes.



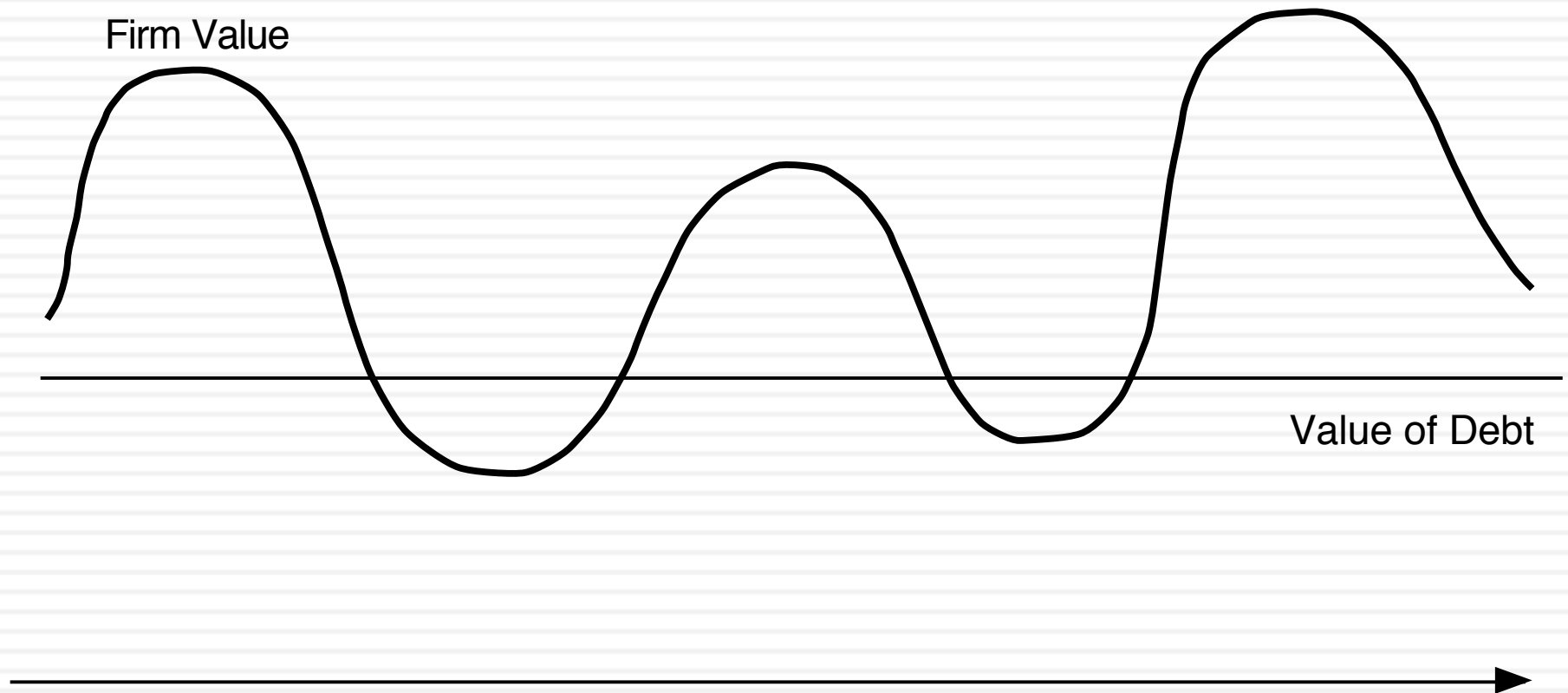
# Designing Debt: The Fundamental Principle

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- The objective in designing debt is to make the cash flows on debt match up as closely as possible with the cash flows that the firm makes on its assets.
- By doing so, we reduce our risk of default, increase debt capacity and increase firm value.

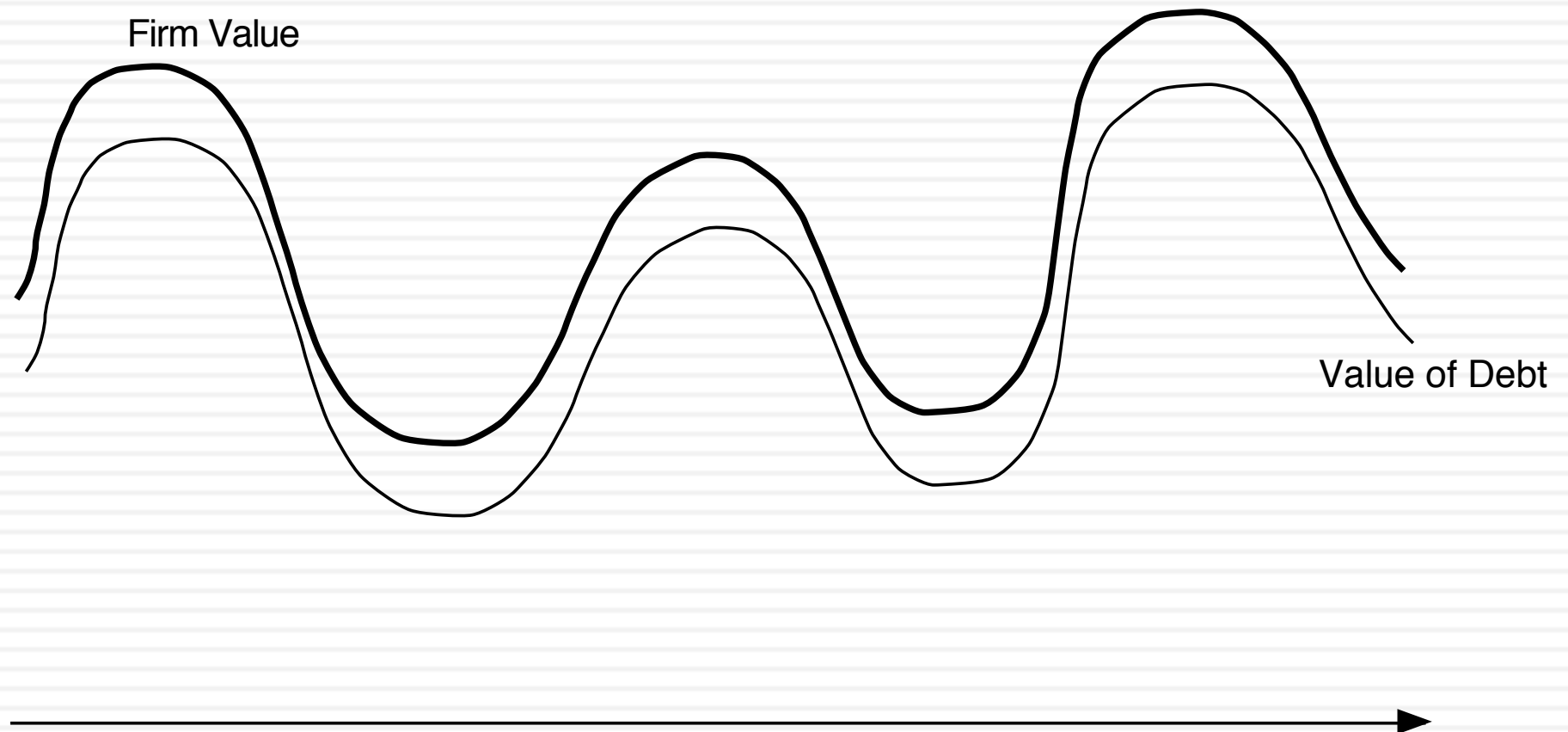
# Firm with mismatched debt

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# Firm with matched Debt

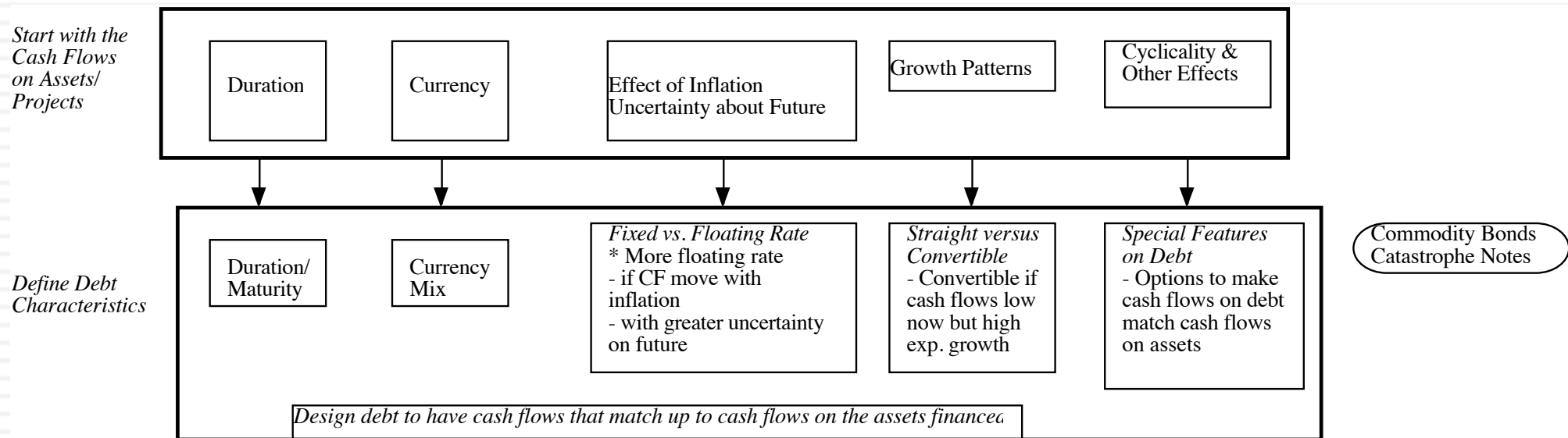
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# Design the perfect financing instrument

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- The perfect financing instrument will
  - ▣ Have all of the tax advantages of debt
  - ▣ While preserving the flexibility offered by equity



# Ensuring that you have not crossed the line drawn by the tax code

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- All of this design work is lost, however, if the security that you have designed does not deliver the tax benefits.
- In addition, there may be a trade off between mismatching debt and getting greater tax benefits.

*Overlay tax preferences*

