

## **Finance Recruiting Interview Preparation**

Mergers and Acquisitions, and Leveraged Buy Outs

Session #4

# **Introduction & Limestone Capital Offering**

### **Finance Interview Preparation Workshops**

"Preparing for finance recruiting isn't just skimming The Vault anymore. Students should study for recruiting like a course and do their homework, because the final exam is the interview."

- VP. Recruiter for Queen's

- Like a course, there should be:
  - "Homework:" regular readings are necessary
  - Practice (mock interviews)
  - Comprehensive, accessible resources for all interested students
- The most important "exam" of a finance student's life

### **Limestone Capital Offering**

- 4 Sessions: Customized curriculum to prepare you to answer any technical finance question that your recruiters may throw at you
  - 1. Accounting, Enterprise Value
  - 2. Comparable Analysis & Precedents
  - 3. Introduction to DCFs
  - 4. M&A & Leveraged Buyouts

### Rationale

- Candidates differentiate themselves by knowing hard M&A and LBO questions
- Queen's needs to offer comprehensive resources to continue being competitive
- You will not learn the required knowledge from class
- It is insufficient to memorize an interview guide from WSO, WSP, M&I, Vault, walk into an interview, and hope you
  get the same questions
- Start early!



# **Agenda**



- 1 M&A Overview
- 2 M&A Process
- 3 Accretion / Dilution
- 4 LBO Case Studies
- 5 IRR
- 6 LBO Financing
- **7** LBO Model



# **Types of Mergers & Acquisitions**

### **Strategic**

Strategic Acquisition: Purchase of an operating business that is in the same industry or complements the buyer's current business

### **Sponsor**

Sponsor Acquisition: Purchase of a business by a financial sponsor (private equity firm, venture capital firm) typically funded primarily through debt

**Acquirer** 

**Target** 

**Acquirer** 

**Target** 



































Which type of acquirer can typically afford to pay more?



# **Synergies Through Add-On Acquisitions**

**Roark Capital Group (Restaurant Chains)** 

Thoma Bravo (Cybersecurity)







































# **Types of Mergers & Acquisitions**

#### Horizontal

- Acquirer and the target are in the same industry
- Same industry vertical (supply chain level)
- Usually to enhance market power, exploit economies of scale, or expand quickly
- Barrick and Randgold are both major explorers and developers of gold deposits





#### Vertical

- May be operating in different industries
- Different levels of the same supply chain
- Usually to achieve forward or backward integration of operations
- AT&A is a distributor and will gain access to Time Warner content including Turner, CNN and HBO





## Conglomerate

- Acquirer and target are not necessarily related to each other
- Conglomerate attempts to diversify volatility in overall corporate performance by buying unrelated companies
- Most conglomerates have been dismantled as institutional investors realized they could achieve diversification risk reduction benefits more efficiently through realigning their own securities portfolios and are therefore unwilling to pay a premium for the diversification efforts of conglomerate managers













# **Types of Transactions**

### **Plan of Arrangement**

- No actual "plan" is prepared, showing the steps needed to close the deal
- No direct offer to shareholders
- Requires shareholder approval of two-thirds majority (66.67%)
- Provides maximum flexibility for structuring (e.g. three-way mergers)
- Useful when:
  - Multiple classes of shares involved
  - Buying a subsidiary of a publicly traded target corporation
- Costs more and takes longer
- Requires court approval
- Must be a friendly deal

#### **Takeover Bid**

- Offer to acquire outstanding voting or equity securities
- Bid must be made to all holders of the class with equal consideration
  - If bidder increases price, everybody who tendered gets the benefit of the increased price

### One Stage Process:

 If 90% of shareholders tender, then compulsory acquisition of the remaining 10%

### Two Stage Process:

- If only two-thirds tender, then move into second stage process
- Company must call a shareholder meeting
- Shareholders will vote to merge / amalgamate, requiring two-thirds approval
- Minority shareholders are squeezed out



# **Types of Transactions**

### Benefits of a Friendly Deals Over Hostile Takeover Bids

**Friendly Deal:** A business combination that the management of both firms believe will be beneficial to shareholders, and is mutually negotiated.

**Hostile Takeover Bid:** An attempt to take over a company w/o the approval of the company's board of directors, making offers directly to shareholders to gain a controlling interest.

- 1. **Retention:** Targets key management and key employees who would leave in the event of a hostile takeover
- 2. **Due Diligence**: Bidder needs to conduct extensive due diligence on the target company's financials to satisfy its own board or financial backers
  - Much more difficult with a hostile takeover as target management will withhold non-public information
- 3. Deal Protection: Special ancillary conditions of the deal can be negotiated between 2 companies in a friendly deal
  - Break fees, no-shop, go-shop clauses
- 4. Tax Benefits: Only realizable through structured, negotiated transactions
- Regulatory Approval: Government approval is much easier with the cooperation of the target company's management team



# **Types of Transactions**

#### Stock Deals vs. Asset Deals

**Stock Deal:** By far the most common type of transaction, where the aggressor acquires the entire target entity by purchasing all of the target's equity ownership

**Asset Deal:** The aggressor acquires a majority of the target's assets. The target uses the cash to pay back shareholders and debt holders and "liquidates itself", leaving a shell firm with a corporate charter. This option is only available in a friendly negotiated transaction.

## Advantages of an asset deal

- 1. Acquirer is only purchasing the assets that it desires, and keeping only the employees that it needs
- 2. Acquirer avoids the target firm's contingent liabilities
- 3. Ability to depreciate purchased assets at purchase value and not historical cost to claim higher capital consumption allowances



# **Defensive Tactics Against Hostile Takeover Bids**

| Method              | Description   | Example   |  |
|---------------------|---|---|--|
| White<br>Knight     | <ul> <li>Seeking out a firm that management feels more<br/>comfortable handing over control to because of<br/>favorable and negotiated terms</li> </ul>   | <ul> <li>After an unsolicited takeover offer from<br/>Ensign Energy Services, Trinidad Drilling<br/>found a "white-knight" in Precision Drilling</li> </ul>   |  |
|                     | <ul> <li>Even if the white knight is unsuccessful in its<br/>defensive bid, the terms of the deal will still be<br/>better because it bid up the price</li> </ul>                               | Precision TRINIDAD DRILLING   |  |
| Poison<br>Pill      | <ul> <li>Allowing existing shareholders to buy a large<br/>number of shares in TargetCo at a discounted<br/>price, increasing the number of shares the<br/>aggressor has to purchase</li> </ul> | <ul> <li>Papa John's implemented a Stockholders<br/>Rights plan granting existing investors (excl.<br/>ex-Chairman John Schnatter) a dividend<br/>distribution of one 'right' per common share</li> </ul> |  |
|                     | <ul> <li>Makes the takeover more expensive. Aggressor<br/>can concede and start negotiating in the friendly<br/>process, or fight the imposition of poison pill in<br/>media / court</li> </ul> | PAPA JOHNS  |  |
| Golden<br>Parachute | Management severance packages that are  triaggrand upon taken yer.  | <ul> <li>Had Staples and Office Depot merged in<br/>2016, the CEO of Office Depot stood to<br/>collect \$39 million under the terms of his</li> </ul>   |  |
|                     | <ul> <li>triggered upon takeover</li> <li>Increases the cost of takeovers, sometimes prohibitively so</li> </ul>  | STAPLES Office DEPOT.   |  |



# **Defensive Tactics Against Hostile Takeover Bids**

| Method                                | Description  | Example   |  |
|---------------------------------------|--|---|--|
| Scorched<br>Earth /<br>Crown<br>Jewel | <ul> <li>TargetCo makes itself unattractive</li> <li>One method is to sell off attractive assets that the aggressor is interested in (i.e. oil wells of patents)</li> <li>Another method is spending excess cash on acquiring a company that has absolutely nothing to do with TargetCo's business model</li> </ul>  | <ul> <li>After Unicorp Canada (P/E firm) made bid to acquire Union Gas, Union Gas acquired Burns Foods (a meatpacker in a completely unrelated industry) for \$125 million</li> <li>Uniongas</li> </ul> |  |
| Pac Man                               | <ul> <li>Target company buying acquirer company,<br/>effectively negating loss of control</li> </ul>   | <ul> <li>In 2013, Jos. A. Bank launched a bid to acquire Men's Wearhouse. Men's Wearhouse ended up buying Jos. A. Bank for \$1.8 billion.</li> </ul>  |  |
| General<br>Tactics                    | <ul> <li>Press releases and mailed correspondence to TargetCo's shareholders from senior managers of the target company undermining the bid in attempts to convince shareholders not to tender shares</li> <li>Target management / accountants can nitpick at the takeover bid for areas where the acquirer failed to meet regulatory requirements in their documentation</li> </ul> |   |  |



# **M&A Financing Options**

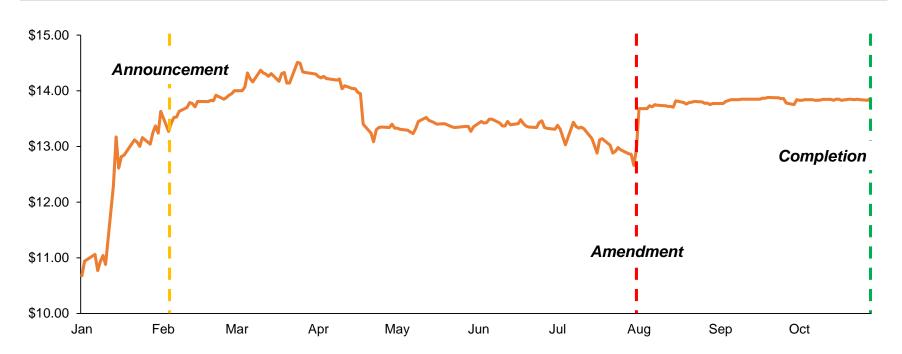
## Many deals are financed using a combination of the three sources of financing presented below

|      | Cash (From Balance Sheet)  | Debt  | Stock / Equity   |
|------|--|---|--|
|      | <ul> <li>AcquireCo realizes all<br/>synergy-related gains</li> </ul>   | <ul> <li>AcquireCo realizes all<br/>synergy-related gains</li> </ul>  | <ul> <li>Easiest way access to<br/>external financing</li> </ul>   |
| Pros | <ul> <li>Cheapest form of financing</li> <li>No need to access capital markets for financing</li> <li>Lower level of bidder disclosure</li> <li>No ownership control change</li> </ul>                             | <ul> <li>Cheaper form of financing than equity financing</li> <li>Lower level of bidder disclosure</li> <li>No ownership control change</li> </ul>                            | <ul> <li>Beneficial if AcquireCo's management believes its firms are over-valued</li> <li>TargetCo shareholders can defer capital gains taxes</li> </ul>   |
| Cons | <ul> <li>Most companies do not carry sufficient cash for major acquisitions on hand</li> <li>May reduce ability to be opportunistic in the future</li> <li>Immediate capital gains tax on cash proceeds</li> </ul> | <ul> <li>Taking on significant leverage to finance an acquisition may increase the riskiness of the business</li> <li>Immediate capital gains tax on cash proceeds</li> </ul> | <ul> <li>Most expensive form of financing</li> <li>Share synergy-related gains with TargetCo shareholders</li> <li>Dilutes ownership for existing shareholders and alters ownership control</li> <li>Prospectus-level disclosure of the aggressor firm and resulting entity is required</li> </ul> |



# How do we gauge the probability of a merger's success?

### Silver Lake / Michael Dell Management Buyout of Dell Case Study

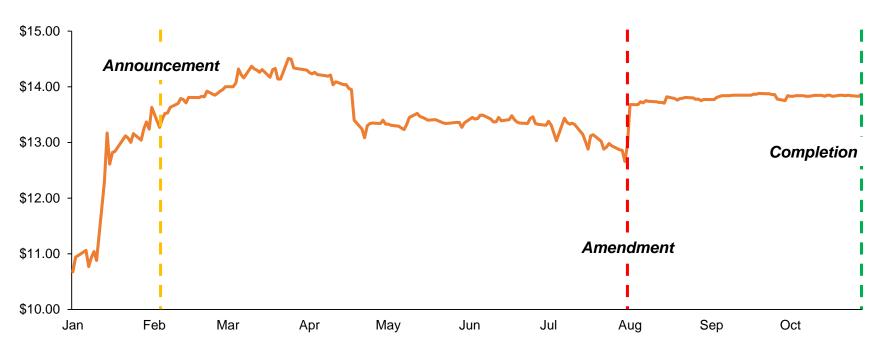


- Amended offer price of \$13.75 per share in cash consideration, plus payment of a special cash dividend of \$0.13 per share, for total consideration of \$13.88 per share in cash
- Why did the share price react in January **BEFORE** the deal announcement (yellow line)?
- What does the share price reaction on the amendment date mean (red line)?



# How do we gauge the probability of a merger's success?

### Silver Lake / Michael Dell Management Buyout of Dell Case Study (cont'd)



- Market price and trading volume reactions of the target are a good indicator of the likelihood of the bid's success
- If TargetCo price jumps above the bid price, investors think the bid is too low and higher competing bids are likely
- If TargetCo price hovers around the bid price, investors think the bid is fair
- If there is no unusual spike in volume, this means that shareholders are likely sitting on their shares unwilling to tender, which means the likelihood of the bid's success is low
- If there is a spike in volume on the announcement date, TargetCo shareholders are selling out to merger arbitrageurs, and a change in control is inevitable



# **Merger Motives**

### **Cost Synergies**

- Building or manufacturing consolidation
- Layoffs of redundant support/admin staff
- Economies of scale
  - Spread fixed overhead costs over a larger number of units
  - More bargaining power with suppliers
- Vertical Integration
  - Disintermediation removes mark-ups, delivery fees
- Access to key competencies, IP, technology, infrastructure, or employees/management

### **Revenue Synergies**

- Cross-sell products to new customers
- Up-sell products to existing customers
- Expand into new geographies
- Market / monopoly power
- Revenue synergies are tough to predict, hard to measure, and at time intangible
  - Often ignored in M&A analysis

### **Other Synergies**

- Net Operating Losses
  - Bidding firm with past losses could acquire a profitable target and then apply its NOLs
  - Profitable bidding firm could acquire a target that is losing money, and apply its NOLs to its own stream of net income
- Increased Debt Capacity: A larger, more stable firm can sometimes get cheaper and more predictable financing
- Depreciation: Write-up purchased assets to fair market value, which provides a larger depreciation tax shield
- Goodwill: Amortization of goodwill leads to similar tax benefits but is no longer allowed under IFRS
- Tax Benefits: Access to a lower tax jurisdiction

### **Example of Vertical Integration**





The merger of Live Nation and Ticketmaster created a an entertainment company that manages and represents artists, produces shows and sells tickets.



# Why does most M&A destroy value?

#### Value Destruction

- About two thirds of mergers and acquisitions destroy value
- From 1980 to 2001, acquisitions resulted in an average of 1 − 3% decline in acquirer share price, or \$218 billion of value transferred from acquirers to sellers (McKinsey & Co.)

## **Reasons Why Mergers Fail**

- Management egos: A larger company means bigger bonuses if compensation is tied to equity
- Diversification results in loss of management focus
- Acquirer paid too much for target
- Unsuccessful at integrating disparate corporate cultures leading to attrition of key personnel
- Managers focusing too intently on cost-cutting measures to neglect day-to-day business, resulting in lost customers
- Easy to overestimate synergies
  - Synergies are often not enough to overcome control premium and financing/transaction fees
  - Synergies take time to realize
- Winner's curse
  - When an attractive target is put into play, competing bidders often bid up the price
  - Potential merger gains become slimmer

**Overpaid (1994)** 





**CEO Power Struggle (1995)** 





**CEO Power Struggle (1997)** 





Systems Integration (1998)





Overpaid (2001)





**Unsuccessful Integration (2005)** 





**Horrible Timing (2007)** 







## Role of Investment Bankers in M&A

#### How do investment bankers add value to M&A transactions?

#### Structure of Transaction

 Plan of arrangement, takeover bid, amalgamation

#### Consideration

Cash, shares, preferred shares, warrants, special warrants

### Offer / Bid Price

Requires a full suite of valuation work

#### Deal Terms

- Break fee, reverse break fee, go-shop clause
- Are options assumed by buyer, cashed out, or ignored?
- Mgmt lock-up agreements, for board of directors, large shareholders

### Tax Consequences

- Creation of goodwill
- Transaction structure and consideration will affect taxes

#### Execution

- M&A process can be lengthy
- Many legal procedures need to be followed
- Due diligence

### Regulation

- Certain deals must be carefully structured to maintain compliance with anti-trust, national interest, and other legal issues
- Many large deals get blocked by the government
- How can the acquirer avoid restrictive regulatory legislation preventing the deal from passing?

Investment banks can add a great deal of strategic value compared to more transaction oriented situations like equity or debt issuances. Many investment banks focus exclusively on M&A as their niche.



## Role of Investment Bankers in M&A

#### How do investment bankers add value?

## Special Situations

- Buying firm after bankruptcy or restructuring
  - Deloitte acquiring Monitor
- Insider bids (protection of minority shareholders)
- Reverse mergers
- Three-way mergers

### Fairness Opinion

- Independent valuation to determine if offer price is fair, associated with lower fees for the bankers
- Most Boards of Directors require a fairness opinion before approving the deal

#### Other

- Spinoffs / divestitures
- Acquisitions / divestitures of specific assets, especially in oil and gas, mining, real estate (Scotia Waterous, Brookfield Financial)
- Hostile Defense
  - Is our company undervalued?
  - Are we vulnerable to a raider?

### How does a firm choose an investment bank?

- Relationship business
- Strategic expertise can play a role
  - Certain banks are strong in certain sectors
- Can banks compete by lowering their price?
  - Most banks have competitive pricing and similar fee structures
  - Decision to hire an advisor is rarely based on fees
- Buy Side Advisory
  - Ease of and terms of financing offered by each bank is an important decision criteria
- Stapled Financing Package
  - The sell side advisor provides financing for buyers
  - Buyers no longer need to scramble for last minute financing



# Buy Side vs. Sell Side

### Buy Side vs. Sell Side

- Investment banks advise on the buy side or sell side
- Buy Side: Advising the acquirer / aggressor / bidder
  - Helps determine the right bid and deal terms
  - Can be complex with multiple bidders or with hostile takeover
  - Takes 16 36 weeks
  - Takes another 3 4 months to close after announcement
- Sell Side: Advising the seller / target
  - See previous slide

Which advisory role do investment banks typically prefer?

### **Good Case Studies to Read Up On**





















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  - See previous slide

### Sell Side, Strong Side?

- Investment bankers are paid a small portion of the total fee up front (work fee)
- The bulk of the fee is not paid until the deal is closed and approved by regulatory bodies
- Sell side advisory roles have much higher chance of closing than buy side advisory roles
- When a company is being sold, they are being sold for a good reason
- On the buy-side, there are typically multiple bidders meaning the bank may not be successful

### **Good Case Studies to Read Up On**





















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# **Buy Side Process**

Assessment

(4 - 8 weeks)

- Analyze competitive landscape
- Identify potential targets
- Find key issues to address:
  - Pensions, contingent liabilities, off balance sheet items, inside ownership, unusual equity structures, special warrants
- Build out acquisition timetable, most of which have the tendency to be optimistic

Contacting Targets & Valuation

(4 - 8 weeks)

- Contact potential target candidates
- Negotiate a confidentiality agreement (CA)
- Perform preliminary valuation on target, including trading comparables, precedent transactions, discounted cash flow analysis, accretion / dilution model, LBO floor valuation

Pursuing the Deal & Due Diligence

(4 - 10 weeks)

- Send letter of intent (LOI) with details of initial offer
- Conduct due diligence: Create data room, analyze products and services, analyze the company and industry, assess the company's financials, identify contingent liabilities, conferences with management, auditors, lawyers, site visits
- Finish valuation

Definitive Agreement & Closing

(4 - 10 weeks)

- Finish due diligence
- Arrange, negotiate and execute definite agreement
  - Board must approve transaction for it to be considered "friendly"
- Provide financing, unless stapled financing package in place
- Conduct any required filings and announce deal
- Seek shareholder and regulatory approval, may take another 3-4 months before official close



## **Sell Side Process**

Find An Advisor (1 – 2 weeks)

- Contact an investment bank with which it has a strong relationship
- Contact an investment bank which has strategic expertise in the company's sector
- Invite multiple investment banks to a beauty contest
  - During a beauty contest, multiple investment banks will present their qualifications, expertise, proposed strategy, key issues, and universe of buyers to the firm

**Preliminary Assessment** 

(2 – 4 weeks)

Identify seller's objectives and determine appropriate sale process: broad or narrow auction?

- Broad Auction: Contact many potential buyers, more bidders usually means a higher price
  - Risks leaking competitive information,
  - Could interfere with the deal itself and the morale of employees
- Strategic Review: When a company announces this, it usually means a broad auction
- Narrow Auction: Contact a few strategic buyers to prevent the leaks

**First Round** 

- Contact potential buyers and execute confidentiality agreements
- Send out Confidential Information Memorandums (CIM) and initial bid procedures letter
- Prepare management presentation, build data room, negotiate stapled financing package
- Receive initial bids, and filter buyers to second round

**Second Round** 

- Facilitate Management Presentations: Mgmt. brings bankers to add legitimacy
- Facilitate Due Diligence: Site visits, open up data room to buyers
- Send out final bid procedures letter and create a draft of the definitive agreement
- Buyers make final bids

Negotiations & Closing

- Evaluate final bids, negotiate with top bidders, and select the winning bidder, which may not always be the highest bidder
  - Other factors like deal terms, type of consideration, future plans are also important
- Arrange for fairness opinion, receive board approval and execute definitive agreement
- Announce Transaction
- Closing: Shareholder approval, regulatory approval, financing, and closing



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## **Accretion / Dilution**

#### What is accretion / dilution?

- Accretion: If pro forma (combined) EPS of the merged company is greater than the acquirer's original EPS
- Dilution: If pro forma EPS of the merged company is less than the acquirer's original EPS

### Acquirer P/E of 10x, Target P/E of 5x, Accretive?

- What is the consideration?: Assume all stock
- This transaction is accretive
  - In an all stock deal, the transaction is accretive if the P/E of the target is less than the P/E of the acquirer
  - You are paying for a company that is generating more earnings than you are per dollar of stock price
  - Your shareholders are paying less for \$1 of earnings than you would normally
  - Your EPS will thus go up if you buy their relatively underpriced stock with your own relatively overpriced stock
- Note: we have not accounted for financing fees, transaction fees, or synergies

### **Effects of an Acquisition**

- Depends on the consideration
- Foregone interest on cash
  - Opportunity cost of balance sheet cash used in the transaction is lost interest income
- Interest on debt
  - If leverage is used, additional interest expense will be charged to the acquirer
- Additional shares outstanding
  - If consideration is a share exchange, acquirer will have to issue additional shares from treasury
- Combined Financial Statements
- Creation of Goodwill and other intangibles
  - Write up target's assets from historical cost to fair value
  - Goodwill represents the premium over this amount (approximately)



## **Accretion / Dilution**

### **All-Cash Acquisition**

- If a deal is financed only through cash and debt, there is a shortcut for calculating accretion / dilution
- If: interest expense for debt + foregone interest on cash < target's pre-tax income, then acquisition is accretive</p>
- Think of it as: pre-tax cost of financing being used < pre-tax income being consolidated with your own</li>
- Assumes no synergies, transaction fees, financing fees
- Complete equation:

### Mix of Stock & Cash Consideration

- There are no shortcuts for finding accretion / dilution for acquisitions that use a mix of cash and stock
- Must build merger model
- Advantages of using a merger model:
  - Intrinsic valuation allows you to understand break-even synergies, key variables, as well as bull, base, and bear case scenarios
- Disadvantages of using a merger model:
  - Using precedent transactions may provide a more objective view, since there is less room for manipulation
  - Difficult to model out synergies, transition costs, effect on corporate culture and employee morale



# Merger Model Walkthrough

### Steps to a M&A Accretion / Dilution Model

- 1. Input purchase price assumptions (% cash, % stock, % debt
- Build stand-alone income statement and balance sheet for acquirer AND target
- 3. Allocate purchase price to the writing-up of assets to fair value, the creation of new goodwill, and transaction fees
- 4. Build a sources and uses of capital table to calculate the necessary amount of sponsor equity needed to fill the gap
- 5. Make adjustments to the target's balance sheet based on Step 3
- 6. Create pro forma post-merger balance sheet and income statement, making adjustments for any synergies or new debt / interest expenses
- 7. Calculate post-merger fully diluted shares outstanding
- 8. Did EPS increase? Sensitize analysis to purchase price, % stock / cash / debt, revenue synergies, and expense synergies



# **Advanced Merger Model Concepts**

#### **Deferred Tax Liabilities**

- Writing up target's assets to fair value creates deferred tax liabilities (DTLs)
- On your books, it seems like you don't have to pay as much tax, since you are writing up your assets up and increasing your depreciation base
- In reality, you still have to pay the same amount of tax
- Naturally, the government does not let you reduce taxes by writing up the target's assets after an acquisition
- There will be a discrepancy between your books and the taxes you actually pay
- This discrepancy creates a DTL
- DTL = Asset Write-Up x Tax Rate

#### Goodwill

- We write up the target's assets from historical cost to fair market value
- We then have to account for any DTLs

**Equity Purchase Price** 

less: Seller's Book Value

#### Premium Paid Over Book

add: Seller's Existing Goodwill

less: Asset Write-Ups less: Seller's Existing DTL

add: Writedown of Seller's Existing DTA

add: Newly Created DTL

**Merged Company Goodwill** 



## **Interview Questions**

### **M&A Interview Questions**

- 1. Walk through a merger model?
- 2. Why would one company want to acquire another company?
- 3. Rule of thumb for accretion / dilution?
- 4. Complete effects of an acquisition?
- 5. Why is goodwill created in an acquisition?
- 6. What are synergies and can you provide an example?
- 7. Which type of synergies is taken more seriously?
- 8. All else being equal, what type of consideration would be ideal for a deal?
- 9. How do you determine the purchase price?



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# **Leveraged Buyout Overview**

#### What is an LBO?

- Acquisition of a company, division, or collection of assets "target" using a large amount of debt
  - Usually around 60 70% debt
  - Some shops like Birch Hill use less → 40 -60%
- Remainder of purchase price comes from an equity contribution by a financial sponsor
  - Private Equity Firm, Venture Capital
- The financial sponsor usually has no intention of staying in the company for the long-term

### Why Leverage?

- Debt is taken out on the target's balance sheet
  - The PE firm is the holding company
- If the portfolio company defaults, holding company has limited liability
  - Holding company cannot lose more than its equity investment
- Leverage increases returns
- Diversification

#### **How are Returns Generated?**

- Burden of leverage is placed on target company's balance sheet
- Annual cash flows of target company used to pay off debt
  - Equity % stake in company increases, similar to paying off mortgage
- PE firm holds target for a set amount of years, helping it grow organically, through acquisitions, cost-cutting measures, or by installing new management / board members to implement all of the above
- PE firm sells target for a profit at the end of holding period
- Returns are most commonly measured by IRR





# What Makes a Good LBO candidate?







Technology Driven / R&D Intensive / Automotive Industry

**Power & Utilities Company** 

**Consulting Firm** 

#### **Financial Characteristics**

- Steady and predictable cash flows
  - Greater volatility → greater risk of default → higher cost of debt
- Strong tangible asset base (e.g. real estate)
  - More collateral → lower cost of debt
- Clean balance sheet
  - Little existing debt allows more excess debt capacity for the private equity firm to lever up the balance sheet
- Divestible assets
  - Returns can be enhanced through spinoffs or selling non-core parts of the business

#### **Non-Financial Characteristics**

- Strong management team
- Viable exit strategy
- Synergies with other portfolio companies
- Potential for expense reduction
- Strong defensible market position
- Depressed market price because of special situation
  - Going private can sometimes solve these situations much quicker than a public situation, both operationally and legally



## **LBO Case Studies**

#### "Classic" LBO Situations

- CEO wants to retire soon and needs to find a buyer who can help transition in professional management
- PE firm gains an effective monopoly on an industry
  - Birch Hill with school uniforms
- Target is bad at controlling costs; PE firm sees expense reduction opportunities
- A division is going through labour or legal difficulties
  - These issues may be easier to resolve if PE firm buys the division from the company, so the entire company is no longer at risk

### RJR Nabisco - Barbarians at the Gate



### **Husky International – Cost Cutting**

- One of the world's largest injection molding equipment suppliers purchased with \$622 million equity contribution from Onex in December 2007
- Multiple cost cutting initiatives led to both EBITDA and multiple expansion
- Former owner was intent on having all parts sourced from Ontario
- Onex was able to source parts from China and reduce costs significantly
- Cost discipline was very low
  - Simply by switching from organic chicken to non-organic chicken in the employee cafeteria, \$100k+ of annual savings were realized
- Onex sold Husky in June 2011 for net proceeds of \$1.8 billion
  - IRR of 36%





## **LBO Case Studies**

### Spirit AeroSystems - Labour Negotiations

- Previously a division of Boeing
- Provided large component parts and assemblies for commercial aircraft
- The division was undergoing labour negotiations
  - Complex for Boeing, since if a division signs a new contract, all North American operations must also get their contracts reviewed
  - Easier for Boeing to just sell the division
- Onex bought the division at a discount, and worked with management and unions to realize cost savings
- Previous contract had many wasteful and inefficient clauses that neither the union or management liked
  - Support staff was supposed to empty garbage bins twice a day even if there was barely anything in them
  - If a screw fell out, instead of putting the screw back in the component, the component would have to be placed in a bucket, labeled, and put in a special line for a different crew to examine
- Onex was able to renegotiate a favourable contract for all sides and sold the company about half a year later for an IRR of more than 80%

#### **Hawker Beechcraft**

- Business, special-mission and trainer aircraft manufacturer purchased in March 2007 for \$537 million
- Horrible timing
  - When subprime crisis hit, luxury aircraft sales were next to nil
- Firm filed for bankruptcy protection in the U.S. in Q2 2012
- Onex will have minimal ownership interest in Hawker Beechcraft following restructuring









# **Agenda**



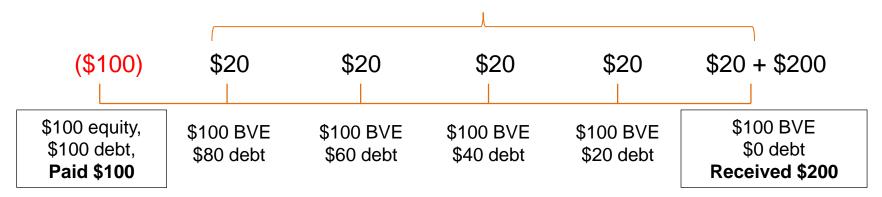
- **1** M&A Overview
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## **Internal Rate of Return**

Cash Flow Sweep, All Cash Used To Pay Down Debt

## Cash flow sweep: All cash is used to pay down debt



### How do we Calculate IRR?

- Since there is no debt, and the firm is worth \$200, the market value of our equity ownership is \$200
- Beginning equity market value (at 50% ownership) = \$100
- Ending equity market value (at 100% ownership) = \$200
- Remember CAGR formula:

$$CAGR = \left(\frac{Ending \ Value}{Beginning \ Value}\right)^{\left(\frac{1}{\# \ of \ years}\right)} - 1$$

IRR = CAGR = 
$$(200 / 100)^{(1/5)} - 1$$
  
= 14.9%

#### Rule of 72

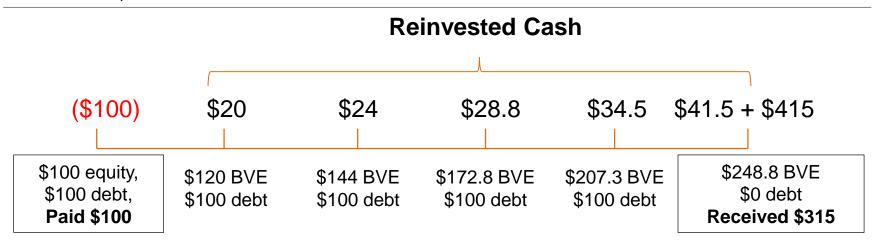
- You can approximate these CAGRs in your head using the rule of 72
- CAGR = 72 ÷ doubling period
- For example, in the previous example:





## Internal Rate of Return

#### No Cash Flow, Excess Cash is Reinvested



#### **Assumptions**

- Cash is reinvested into business at 20% return, as opposed to paying down debt
- Company is sold at 10x EV / EBITDA
  - For simplicity, assume cash flow = EBITDA
  - Final year cash flow is \$41.50
  - Sold at EV of \$415
- No debt has been paid down

#### **Transaction Calculations**

- Since selling price is \$415, but \$100 of debt is still outstanding
- Price-implied equity value is \$415 \$100 = \$315
  - EV Leftover Debt = Equity Value
  - Assuming no financing / transaction fees, minority interest, preferred equity, cash, etc.
- Beginning equity market value (at 50% ownership) = \$100

IRR = 
$$(315 / 100)^{(1/5)} - 1 = 25.8\%$$



## Internal Rate of Return

#### Other Methods of Generating Returns – Dividend Recapitalization





#### **Assumptions**

- Cash Flow Sweep: All cash flow each year is used to pay down debt, debt goes down by \$20 each year
- In Year 2: Take out \$100 of debt to pay a special dividend of \$100 to the financial sponsor (ourselves)
- At exit: Assume we sell our company for \$220
  - With \$120 of debt remaining, that implies an equity value of \$100
  - After paying off debt, we effectively receive \$100 in year 5

#### **Transaction Calculations**

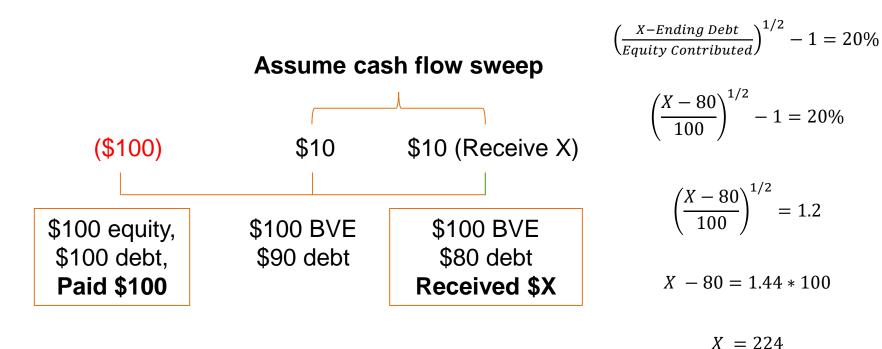
- Can't calculate IRR using CAGR method since we are receiving cash flows at two discrete points in time
- Must use Excel (=IRR function) or financial calculator

$$0 = -100 + 100 / (1 + IRR)^2 + 100 / (1 + IRR)^5 = ???$$



# **Sample LBO Interview Question**

You are a financial sponsor, buying a company for \$200mm, 50% debt, 50% cash. You earn \$10 earnings every year. \$10 cash flow each year expected in the future. Assume cash flow sweep. You hold it for two years at an IRR of 20%, how much did you sell it at?





# **Net Effect of Other Methods of Raising Returns**

#### **Dividend Recapitalization**

- No changes to income statement
- On balance sheet, debt goes up as you lever up, and shareholder's equity goes down since you are paying out the dividend
- The changes counteract each other out so the balance sheet balances
- Cash flow from financing would go up from the additional debt and then go down from the cash paid to investors
- They cancel each other out, no change

#### **Multiple Expansion**

- Another example of how PE firms can generate returns is by expanding the exit multiple of the portfolio company
- If a PE firm can increase a portfolio company's growth prospects by:
  - Reshuffling current management or appointing new management
  - Resolving legal or labour issues
  - Rebranding
  - Establishing a successful strategy
- The PE firm can justify selling the firm at a higher multiple than what it bought it at, given the improved growth prospects

#### What do private equity firms do in reality to raise returns?

- Usually, private equity firms will try to use a combination of debt repayment, EBITDA expansion and multiple expansion to try to maximize returns
- Dividend recaps are not as common since they have a negative stigma attached
- PE firms may also exit part of their holdings by having an IPO
- Especially common if the portfolio company was a public company before
- Will only sell a portion to public, and will hold onto the other portion of the shares and participate in any price increase or decrease in the public markets



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# Financing an LBO

#### **Sources of Financing**

Bank Debt

Second Lien Secured Debt

First Lien Secured Debt

High Yield Bonds

**Senior Unsecured Debt** 

Senior Subordinated Debt

Mezzanine Debt

**Subordinated Debt** 

Equity

Common Stock

**Preferred Stock** 

### Sources of Financing

- The higher the debt is ranked, the less risk there is
- First Lien Secured Debt is typically secured by inventory, accounts receivable, etc.
- Second Lien is typically secured by PP&E, fixed assets
- Much less collateral as you go down the chain
- Mezzanine could also include convertible debt

#### **Revolving Credit Facility**

- Line of credit provided to PE firm
- Like a credit card
- Can tap into it anytime they need it
- Must pay a financing fee (typically 0.5%) to keep this line of credit open
- Generally the least expensive form of capital in LBO financing

#### **Revolving Credit Facility**

- Sometimes bridge loan is necessary since PE firm cannot immediately access the necessary financing and wishes to perform the LBO quickly
- Bridge loan is a short term loan, which gives the PE firm time to arrange for more long term financing



### Covenants

#### **Affirmative vs. Negative Covenants**

- Banks often require covenants to prevent moral hazard
  - Although additional leverage may increase returns for the PE firm, it also increases risks for the lenders
- Affirmative vs. negative covenants
  - Affirmative covenants include: maintaining insurance, complying with laws, continuing in the same line of business, regular financial reporting
  - Negative covenants include: limitations on debt, dividends, investments, mergers, prepayments of certain types of debt
  - We tend to focus on negative covenants more than affirmative
- In today's market, most debt financings are "CovLite"
  - Focus only on affirmative covenants

#### Maintenance vs. Incurrence Covenants

- Maintenance vs. incurrence covenants
  - Maintenance covenants are checked periodically and need to be maintained consistently
  - Incurrence covenants are only checked for given some trigger event, such as the issuing of new debt
- Common financial maintenance covenants include:
  - Senior debt to EBITDA
  - Total debt to EBITDA
  - EBITDA to interest expense
  - Maximum CAPEX
  - Minimum EBITDA



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## LBO Model Walkthrough

#### Steps to a LBO Model

- Build 3 statement model but leave debt-related items blank; build IS down to EBIT, B/S with liabilities section blank, CF with financing blank
- 2. Enter purchase price assumptions (% debt, % sponsor equity, purchase premium, holding period, exit multiple)
- 3. Build sources and uses table with equity contribution as the plug
- Link sources and uses to balance sheet adjustments
- 5. Build debt schedule and find cash interest expense
- 6. Complete pro forma IS, B/S and CF and arrive at IRR
- 7. Sensitize IRR to entry and exit multiple, amount of debt



## **Sources & Uses**

| Sources of Funds          |           |            |           |            |           | Uses of Funds           |           |            |
|---------------------------|-----------|------------|-----------|------------|-----------|-------------------------|-----------|------------|
| ·                         |           | % of Total | Multiple  | of EBITDA  |           |                         |           | % of Total |
|                           | Amount    | Sources    | 9/30/2008 | Cumulative | Pricing   |                         | Amount    | Uses       |
| Revolving Credit Facility | -         | - %        | - x       | - x        | L+325 bps | Purchase ValueCo Equity | \$825.0   | 71.1%      |
| Term Loan A               | -         | - %        | - X       | - x        | NA        | Repay Existing Debt     | 300.0     | 25.9%      |
| Term Loan B               | 450.0     | 38.8%      | 3.1x      | 3.1x       | L+350 bps | Tender / Call Premiums  | -         | - %        |
| Term Loan C               | -         | - %        | - x       | 3.1x       | NA        | Financing Fees          | 20.0      | 1.7%       |
| 2nd Lien                  | -         | - %        | - x       | 3.1x       | NA        | Other Fees and Expenses | 15.0      | 1.3%       |
| Senior Notes              | -         | - %        | - x       | 3.1x       | NA        |                         |           |            |
| Senior Subordinated Notes | 300.0     | 25.9%      | 2.0x      | 5.1x       | 10.000%   |                         |           |            |
| Equity Contribution       | 385.0     | 33.2%      | 2.6x      | 7.7x       |           |                         |           |            |
| Rollover Equity           | -         | - %        | - x       | 7.7x       |           |                         |           |            |
| Cash on Hand              | 25.0      | 2.2%       | 0.2x      | 7.9x       |           |                         |           |            |
| Total Sources             | \$1,160.0 | 100.0%     | 7.9x      | 7.9x       |           | Total Uses              | \$1,160.0 | 100.0%     |

#### **Sources**

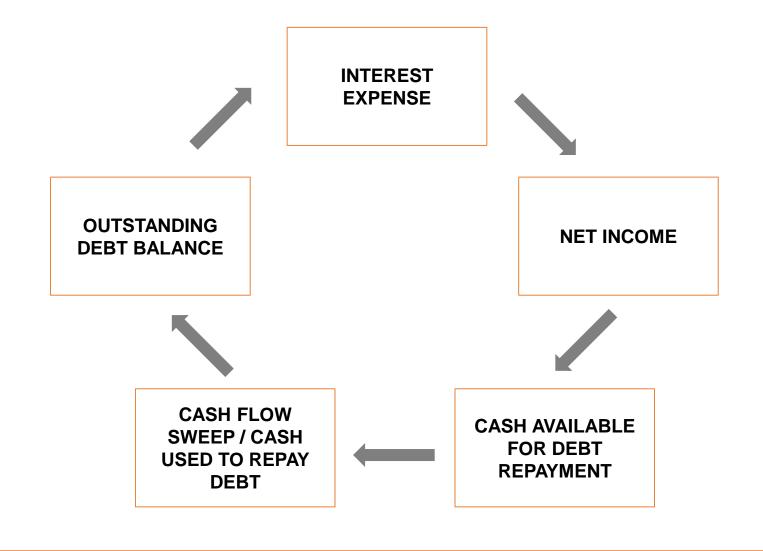
- Find total amount of debt available for financing (usually ~4.0 – 5.0x Debt / EBITDA) based on the expected EBITDA of the target
  - Can also be based on target firm's target capital structure
  - Split between new senior and high yield debt
- Cash on hand (from the target's balance sheet)
- Equity contribution is the plug to pay the financing / other fees in addition to the purchase price of the target

#### Uses

- Purchase price
- Existing debt on balance sheet of target
- Financing fees (fees paid to investment banks for raising money)
- Advisory fees (fees paid to lawyers, investment bankers, and accountants for services provided during the transaction)



## **The Circular Reference**



## **Interview Questions**

#### **LBO Interview Questions**

- 1. Walk through an LBO model?
- 2. Why would you use leverage?
- 3. What variables impact an LBO the most?
- 4. How to pick purchase and exit multiples?
- 5. Ideal LBO candidate?
- Real life LBO?
- 7. How is the balance sheet affected in an LBO?
- 8. If a strategic transaction would usually be preferred with a cash consideration (lowest cost of funds), why would an LBO use debt?
- 9. Bank debt vs. high yield debt?
- 10. How can you increase returns in an LBO?
- 11. What is a dividend recapitalization?

