

Valuation: Looking Behind the Curtain

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Agenda

Background

- Stages of Development and Valuation Needs
- Case Study Background
- Defining the engagement What, Why, and When

Valuation Approaches

- Starting Point
- Income Approach
- Market Approach
- Other Considerations

• Appendices:

- Speaker Background/Contact Information
- Bibliography



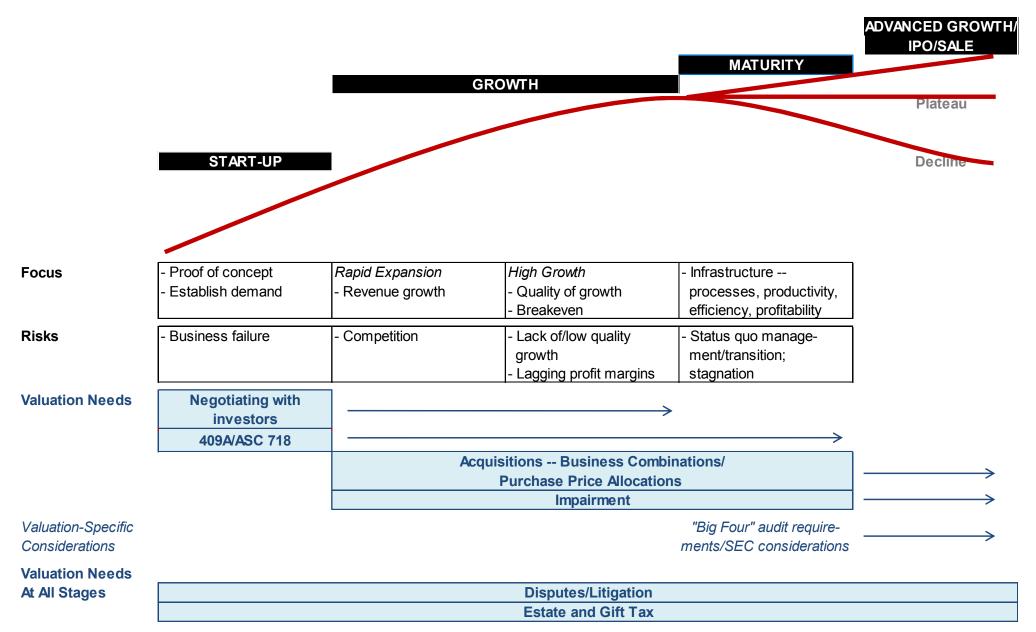




Stages of Development and Valuation Needs

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Stages of Development and Valuation Needs





Stages of Development and Valuation Needs *Valuation Service Drivers and Examples – "Why"*

Financial Reporting

- Purchase price allocations related to business combinations
- Impairment testing related to goodwill and long-lived assets
- Stock options and equity grants
- Financial instruments

Tax Planning and Reporting

- Valuations for domestic and international tax planning – including legal entities, taxable reorganizations, asset transfers, net operating loss limitations and built-in gains, conversions of C-corporations to S-Corporations

Corporate Reorganization and Bankruptcy

- Determination of post-bankruptcy company reorganization values
- Fresh start accounting valuations

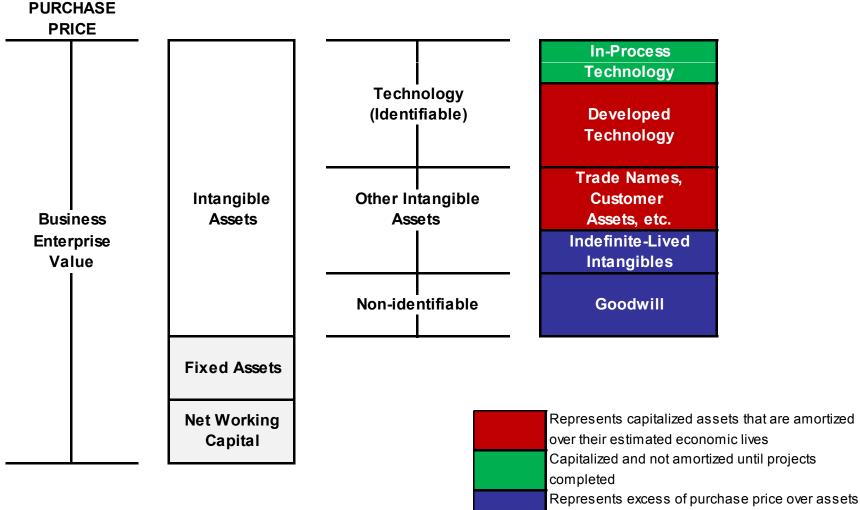
Disputes/Litigation Support

- Shareholder and contract disputes (e.g., partner/shareholder buy-outs)
- Damage calculations
- Patent infringement



Stages of Development and Valuation Needs

Purchase Price Allocation Framework (Valuation of Intangible Assets – ASC 805)



acquired (not amortized)







Case Study Background





Defining the Engagement

Defining the Engagement "What, Why, and When"

Understand <u>WHAT</u> you are valuing

- Definition assets vs. equity in a business
- For businesses size and characteristics of the
 - subject interest
 - Control vs. minority
 - Marketability considerations
 - "Value chain"
 - Control (e.g., entire business)



- Non-marketable, minority (e.g., shares of publicly traded businesses)
- Non-marketable minority (e.g., small interest in closely held businesses)

p.9-10

- Understand <u>WHY</u> you are doing the valuation <u>10.4,11</u>
- Understand <u>WHEN</u> the valuation is relevant date of value



Defining the Engagement *"What" – Types of Business Interests and Assets*

Business Entities and Interests

- Closely held companies
- Partial interests
- Family limited partnership and limited liability company interests
- Business operations, including subsidiaries, divisions, profit centers, and reporting units

Financial Assets

- Preferred stock and debt instruments
- Options and warrants
- Investment portfolios, including private equity, venture capital, and hedge funds

Tangible & Intangible Assets

- Buildings and machinery and equipment
- Intellectual property
 - Patents
 - Trademarks and trade names
 - Copyrights
 - Trade secrets

Other intangible assets

- Proprietary technology
- In-process research and development
- Customer lists/relationships
- Contract rights
- Covenants-not-to-compete
- Others



Defining the Engagement *"What" – Value Chain*

Levels of Value





Defining the Engagement *"Why" – Premise of Value*

"Why" considers the valuation service drivers on page 4

Sample Premises of Value:

- Fair Market Value
 - "Price at which an entity would change hands between a willing buyer and a willing seller when neither is acting under compulsion and when both have reasonable knowledge of the relevant facts as of the date of valuation"

Fair Value -- financial reporting definition

- "Price that would be received to <u>sell</u> an asset or paid to transfer a liability in an orderly transaction between <u>market participants</u> at the measurement date"
- SFAS 157 concepts: exit price, principal market, levels of value

Investment / Strategic Value

- "Specific value of an investment to a particular investor or class of investors based on individual investment requirements; distinguished from [fair] market value which is impersonal and detached"







Valuation Approaches

Valuation Approaches & Considerations – Starting Point

INCOME	 Present value of future economic benefits
APPROACH	 Discount cash flows to present value at a rate of return that incorporates risks associated with the particular investment
MARKET APPROACH	 Comparison of subject property to recently priced property (sale, license, transactions, etc.) that is similar and for which price information is available
	 Two methodologies for a business:
	 Public company market multiples method
	- Similar transactions method

COST APPROACH

- Values an asset by the cost to reconstruct or replace it
- For a business measures the value of a company through an appraisal of individual assets of the business (current, fixed, and intangible)

Best Practices – Common for <u>All</u> Valuations

- Importance of understanding, incorporating, and documenting the "story behind the numbers"

- Playing devil's advocate from the outset of an engagement
- Consideration of as many approaches/methodologies/benchmarks as possible

Project Framework – Case Study

Similar Transactions Method Identified Broker Income Transactions Input Approach 1. Valuation of "Company Business", before Adjustment Related to Managers' IP Total Asset value Weighting Weighted values Sum of weighted values from approaches 2. Valuation of Managers' IP Value of IP 3. **Purchase Price Calculation** Company Business value less: Value of Managers' IP Adjusted Company Business value Calculation of Purchase Price To ABC Owners/Management Company To XYZ Owners **Total Purchase Price**



\$000's

Project Framework – Case Study

Current Liabilities Current Assets (Non-Interest Bearing) Cash Accounts Payable Accrued Expenses Accounts Receivable ("A") Inventory Income Taxes Payable Other Current Assets Other Current Liabilities ("B") Net working capital Long-Term Liabilities ("C") (Non-Interest Bearing) **Total Assets** Fixed Assets ("A") + ("C") + ("D") **Building Improvements** Interest Bearing Debt Enterprise Value/ Equipment (includes current and long-**Invested Capital** ("B") + ("D") term debt) ("D") Other Assets Shareholders' Intangible Assets / Equity Goodwill Starting definition for case study -Typical subject of valuation for per buy-sell agreement partner/shareholder buy-out



Assets

Liabilities / Equity

Income Approach

Discounted Cash Flow Method

- Uses a multi-period cash flow and a discount rate to determine value

Key Assumptions

- Forecast
- Discount rate
- Terminal value



Income Approach (continued)

Forecast

- Five years is the typical starting point -> for companies exhibiting high and/or volatile growth, the period
 may be extended
- Typically represents a "most likely case"
- For some projects, it may make sense to consider multiple cash flow scenarios upside, downside, etc.
 - Expected cash flows = probability-weighted average of possible outcomes

Discount Rate

- Methodologies:
 - Capital Asset Pricing Model ("CAPM")
 - Weighted Average Cost of Capital ("WACC")
 - Build-Up Method

Terminal Value

- Represents value after the forecast period
- Two methodologies often considered:
 - Gordon Growth Method = Terminal year cash flow / (Discount rate long-term growth)
 - Exit multiple (theoretically inconsistent; combines Market Approach and Income Approach concepts)



Income Approach – Case Study Discounted Cash Flow Model

\$0	00's	12/1 to 12/31		cal years en		ber 31
		2014	2015	2016	2017	2018
1) 2)	Revenue Cost of goods sold Gross profit					
3)	Adjusted operating expenses (excluding depreciation) Adjusted EBITDA					
4)	Depreciation and amortization Adjusted EBIT					
5)	Income tax expense (benefit) Net income					
6)	less: Capital expenditures					
4) 7)	plus: Depreciation					
7)	plus / less: Change in debt-free net working capital Subtotal, cash flows					
8)	Partial period adjustment Cash flows	\$17	\$282	\$265	\$258	\$231
9)	Period	0.04	0.58	1.58	2.58	3.58
10)	Discount rate / present value factor 23.0%	0.991	0.886	0.720	0.586	0.476
	Present value of after-tax cash flow	\$16	\$250	\$191	\$151	\$110
	Sum of discounted cash flows	\$718				
11)	plus: Present value of residual value	533				
	Invested capital value	1,251				
	plus: Benefit associated with Company's status as a	200				
	pass-through entity plus: Current non-interest bearing liabilities	200 95				
12)		0				
	Indicated Total Asset value	\$1,546				



Income Approach – Case Study Discount Rate – Build-Up Method

INDUSTRY BETA & CAPITALIZATION	Beta	Market Value	Interest Bearing	Other (Pf Stk,	Tax		Unlevered
Ticker Company Name	Levered	Equity	Debt	Etc.)	Rate		Beta
Selected beta / capitalization	0.71	100.0%	0.0%	0.0%	39.9%		0.71
SUBJECT COMPANY		Unlevered Beta	Equity Market Value	Interest Bearing Debt	Other (Pf Stk, etc.)	Tax Rate	Beta Levered
Selected capital structure		0.71	100.0%	0.0%	0.0%	39.9%	0.71

COST OF EQUITY

Capital As	set Pricing Model	Rf + (Rm*B) + SSP + e
Where: Rf = Rm =	Risk Free Rate Equity Risk Premium	2.62% 6.00%
B = SSP =	Beta Small stock premium	0.00 <i>%</i> 0.71 12.12%
e =	Other Premiums	3.50%
Cost of E	quity	22.5%

WEIGHTED AVERAGE COST OF CAPITAL

Equity as a percent of total capital Debt as a percent of total capital Average cost of debt	100.0% 0.0% 8.7%
After tax cost of debt (tax rate as above)	5.2%
Cost of equity	22.5%
Weighted Average Cost of Capital ("WACC")	22.5%
Concluded WACC	23.0%



Market Approach – Similar Transactions Method

- Considers data from transactions involving entire companies or controlling interests
 - Includes public buyer or seller transactions
 - Includes private-to-private transactions
 - Results in a control value
- Common transaction databases
 - S&P Capital IQ (used in case study)
 - Pratt's Stats (used in case study)
 - Merger Stat; BizComps

Transaction considerations and limitations

- Transaction should be between unrelated parties
- Information on transaction can be limited (e.g., purchase price and target company financial data); rationale behind transaction not known





Market Approach – Similar Transactions Method (continued)

Multiple x Subject Company Financial Data = Value

Common multiples:

- Enterprise Value / Invested Capital Multiples
 - Enterprise Value = Equity Value + Debt/Preferred Securities Cash
- EV / Revenue
- EV / EBITDA
- Need to adjust for differences between market transactions and subject company considering:
 - Size, product mix/diversification, growth, profitability, other company-specific factors
- Need to adjust **financial data** to which multiples are applied to:
 - Normalized results (excluding non-recurring items)
 - Depending on project purpose, may need to adjust for normalized owner salaries, nonoperating/non-business (owner-personal) expenses



Excerpts from Pratt's Stats

\$'s											
ψü			Tran	saction Price	e and Multiples		Target Company Financial Data				
_								_	_	% of Sa	es
Trans.	Sale	Business	MVIC	MVIC /	MVIC /	MVIC /		Gross		Gross	
Number	Date	Description	Price	Sales	Gross Profit	EBITDA	Net Sales	Profit	EBITDA	Profit	EBITDA
30944	12/9/2013	Neighborhood Bar	\$900,000	0.54	0.83	3.07	\$1,667,808	\$1,085,737	\$292,724	65.1%	17.6%
18358	6/28/2011	Bar	\$700,000	0.47	0.59	2.33	\$1,500,000	\$1,180,000	\$300,000	78.7%	20.0%
		Measures of Central T	endency								
		for Transactions									
		All Transactions									
		High		0.84	1.74	7.13	\$1,667,808	\$1,180,000	\$300,000	81.7%	36.7%
		Third Quartile		0.48	0.83	3.27	1,092,056	655,891	182,674	74.0%	25.7%
		Average		0.40	0.67	2.43	793,874	511,246	141,959	64.1%	20.4%
		Median		0.42	0.59	1.76	798,375	524,941	111,832	65.7%	22.6%
		First Quartile		0.30	0.45	1.64	369,438	247,618	80,448	55.5%	12.1%
		Low		0.08	0.12	0.33	250,000	74,000	43,733	28.5%	6.1%



Excerpts from S&P Capital IQ

\$000's				Total		Total
Close				Enterprise		EV/
Date	Buyer	Target	Target Description	Value	Revenue	Revenue
4/4/2012	JW Lees & Co (Brew ers) Ltd.	Deckers Restaurants Ltd, Tw o Gastro Pubs	As of April 4, 2012, Tw o Gastro Pubs of Deckers Restaurants Ltd w as acquired by JW Lees & Co. Brew ers Ltd. Tw o Gastro Pubs of Deckers Restaurants Ltd comprises tw o The Plough & Flail Pub and Restaurant; and The Rope & Anchor. The pubs are located in Mobberley and Dunham Massey, United Kingdom.	\$1,588	\$3,969	0.40
4/1/2009	The Capital Pub Company PLC	Terisco Limited	Terisco Limited ow ns and operates 'The Bishop', 'Lordship Lane', 'East Dulw ich', and 'London SE22' pub. The company w as incorporated in 2004 and is based in Southall, United Kingdom. As of April 1, 2009, Terisco Limited operates as a subsidiary of The Capital Pub Company PLC.	\$1,088	\$1,886	0.58



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Adjusted Historical Financial Data – For Multiples Application

For the 12 mos. ended 11/30/2014	\$000's
	Revenue
	Cost of goods sold
	Gross profit
	Operating expenses
1,574	Unadjusted operating expenses
145	Adjustments
1,430	Subtotal
527	Adjusted EBITDA
54	Depreciation and amortization
474	Adjusted EBIT
	Broker's Adjusted Cash Flow
\$527	Adjusted EBITDA
65	plus: One working owner's salary
	press one monang officer o datary
\$592	Broker's adjusted cash flow



Conclusion

\$000's	_	ldent	ified Transaction	ns	Broker In	put
	_	IC to Revenue	IC to Gross Profit	IC to EBITDA	IC to Adjusted Cash	n Flows
					Range of Mu	ltiples
Selected multiples		0.45		3.00	2.0	2.5
Trailing twelve months adjusted financial data	_	\$2,575		\$527	\$592	\$592
Invested capital values		\$1,159		\$1,582	\$1,185	\$1,481
Average invested capital value	\$1,436				\$1,333	
plus: Current non-interest bearing liabilities	95				95	
plus: Long-term non-interest bearing liabilities	0				0	
Indicated total asset value	\$1,531				\$1,428	



Conclusions – Case Study

			Similar Transacti	ons Method	
\$00	00's		Identified	Broker	Income
			Transactions	Input	Approach
1.	Valuation of "Company Business", before				
	Adjustment Related to Managers' IP				
	Total Asset value		\$1,531	\$1,428	\$1,546
	Weighting		33.3%	33.3%	33.3%
	Weighted values		\$510	\$476	\$515
	Sum of weighted values from approaches	\$1,50	2		
2.	Valuation of Managers' IP				
	Value of IP	\$42	0		
3.	Purchase Price Calculation				
	Company Business value	\$1,50	2		
	less: Value of Managers' IP	(42)	0)		
	Adjusted Company Business value	1,08	2		
	Calculation of Purchase Price				
	To ABC Owners/Management Company	20.0% \$21	6		
	To XYZ Owners	40.0% 43	3		
	Total Purchase Price	\$64	9		



Other Engagement Considerations (Not Case Study-Specific))

 Another variation of the Market Approach – based on multiples from publicly traded companies

Discount for Lack of Marketability

- Applied to minority value of an equity interest in a closely-held company to reflect the lack of a recognized market for the equity, as well as the fact that the equity interest may not readily be transferable

Discount for Lack of Control

- Considers that the pro rata value of a controlling interest may exceed the pro rata value of a noncontrolling interest in a business enterprise that reflects the power of control -- often associated with takeovers of public companies
- Often not applied to Income Approach value indications (economic, pro rata value similar in both a control vs. noncontrolling situation; SEC/other guidance on this)
- Discount typically applied to Similar Transaction indications (to derive a non-controlling interest for valuing partial interests in privately held companies)







Q & A

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Speaker Background / Contact Information

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Current Responsibilities

Josette Ferrer is the founder and a Managing Director of Clairent Advisors. Since 1993, Josette has been assisting clients with the valuation of closely held businesses and business interests, intangible assets, intellectual property, stock options, debt instruments, capital equipment / fixed assets, and other assets.

Experience

Prior to founding Clairent Advisors in 2010, Josette was the U.S. Practice Leader of Marsh's Valuation Services Group (formerly Kroll's Valuation Services Practice). Her career includes serving as the Managing Director in charge of the San Francisco Valuation Services Group of WTAS, Inc. ("WTAS", now operating as Andersen Tax), a former subsidiary of HSBC Group. At WTAS, Josette's responsibilities included developing and overseeing all technical, operational, marketing functions for the SF valuation team. Prior to WTAS, Josette was a director with Huron Consulting Group and a senior manager at Arthur Andersen LLP.

While Josette has extensive experience serving clients in many industries, areas of specialty include telecommunications, high technology, service companies, consumer products, manufacturing, and financial services. Her clients have ranged from small, emerging businesses to Fortune 500 companies. Josette has been a guest speaker for a wide variety of forums, including Financial Executives International/FEI, the Institute of Management Accountants/IMA, the Practicing Law Institute/PLI, CalCPA, the San Francisco and Contra Costa Bar Associations, Santa Clara University, BIOCOM, and various venture capital roundtables.

Education and Affiliations

- B.S. in Business Administration, University of California, Berkeley
- Board Member, SF Chapter, Financial Executives International
- Member, Fair Value Forum
- Corporate Affiliate, Finance Scholars Group
- Strategic Partner, Strategic Alliances Resources Network
- Executive Committee Member, ProVisors SF3 Group



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