

Understanding Hotel Investment & Valuation Methodologies and Pro-Formas/Analysis

Presented by
Rick Pastorino, REVPAR International, Inc.
Rachel Roginsky, Pinnacle Advisory



Presenters



- Richard (Rick) Pastorino is the founder and principal of REVPAR International, a boutique hospitality asset management and advisory firm providing services throughout the U.S., Caribbean, Latin America and Europe.
- Rick has extensive experience in all areas of hospitality advisory and asset management including new development and acquisition; economic valuation, workouts, deal structure, branding, financial and operational analysis, market feasibility and expert witness, litigation support.
- Rick is actively involved in the industry including the *International Society of Hospitality Consultants;* he has authored industry-related research including CapEx 2000 A Study of Capital Expenditures in the U.S. Hotel Industry, guest lectures, and speaks at numerous industry-related events.



- Rachel Roginsky, Principal, Pinnacle Advisory, a premier hospitality consulting firm that provides advisory services throughout the US and Caribbean.
- For more than 30 years she has provided advisory services for the hospitality industry to include market and economic feasibility studies, operational analysis, appraisals, litigation support, and asset management.
- In addition to active participation in on-going consultation, Ms. Roginsky continues to lecture at some of the nation's top Universities (Cornell School of Hotel Administration, MIT, Boston University Hotel School) and at national hotel industry conferences.





Agenda/Topics of Discussion

- 1. Terminology
- STR Chain Scales
- 3. Hotel Options
- 4. Real Estate and Market Cycles
- 5. Ownership/Operating Structures
- 6. Risk Profile of Hotels Compared to Other Commercial Real Estate
- 7. Historical Average Overall Cap Rate Indices
- 8. U.S Hotel Industry Statistics
- 9. Independent vs. Branded
- 10. Process for New Hotel Development
 - a. Market Analysis
 - b. Facility Analysis
 - c. Financial Analysis
 - d. Investment Analysis
- 11. Other Discussion Points
- 12. Questions







Terminology

Performance	Financial	Valuation
1. Available room nights	1. Uniform System of Accounts	1. Capitalization (Cap) Rate
2. Occupied room nights	2. GRR (Gross Rooms Revenue)	2. DCF (Discounted Cash Flow)
3. Occupancy rate	3. Revenue	3. RRM (Rooms Revenue Multiplier)
4. Average Daily Rate (ADR)	4. Departmental Expenses	4. DSCR (Debt Service Coverage
5. RevPAR	5. Undistributed Operating Expenses	Ratio)
6. Penetration rate	6. Fixed Expenses	5. IRR (International Rate of Return)
7. ADR Index	7. Gross Operating Profit.	6. NPV (Net Present Value)
8. Yield	8. NOI	7. Payback Period
9. STR (Smith Travel Research)	9. EBIDTA	a. Going-in Rate
	10. STR HOST Report	b. Terminal Rate





2011 STR Chain Scales

Luxury	Upper Upscale	Upscale	Upper Midscale	Midscale	Economy
Fairmont Four Seasons InterContinental Loews Ritz Carlton W Hotel	Embassy Suites Hilton Hyatt Kimpton Marriott Omni Sheraton Westin	aloft Hotel Cambria Suites Courtyard Crowne Plaza Element Four Points Hilton Garden Inn Homewood Sts. Residence Inn SpringHill Suites	Best Western Plus Clarion Comfort Inn Fairfield Inn Hampton Inn Holiday Inn Ramada TownePlace Suites Wyndham Garden	Best Western Candlewood Sts. Country Inn & Suites Hawthorn Suites Howard Johnson La Quinta Inn Mainstay Suites Quality Inn Sleep Inn Wingate	Days Inn Econo Lodge Motel 6 Red Roof Inn Super 8 Travelodge





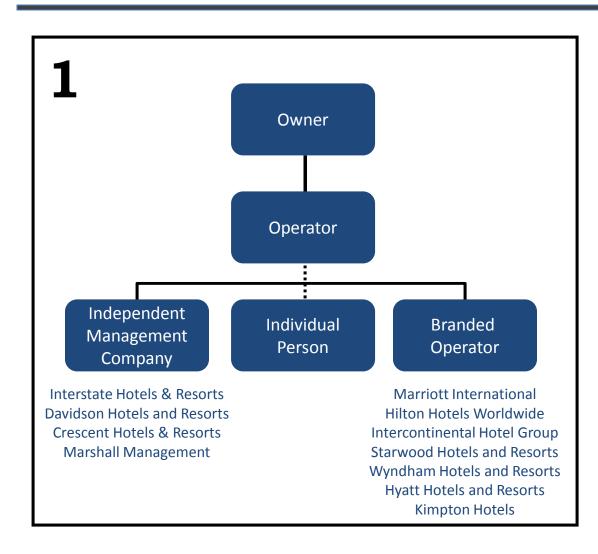
Hotel Options

Но	tel Products	Но	tel Types	Но	otel Affiliations
1.	Traditional	1.	Boutique	1.	Branded
2.	All-Suite	2.	Conference	2.	Independent
3.	Extended-Stay	3.	Convention		
		4.	Destination Resort		
		5.	Gaming/Casino		
		6.	Golf		
		7.	Ski		
		8.	Spa		
		9.	Waterpark		





Ownership/Operating Structures

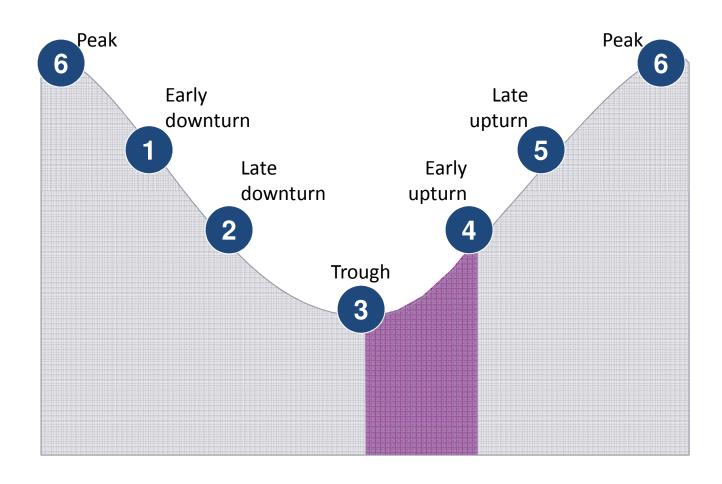








Real Estate & Market Cycle

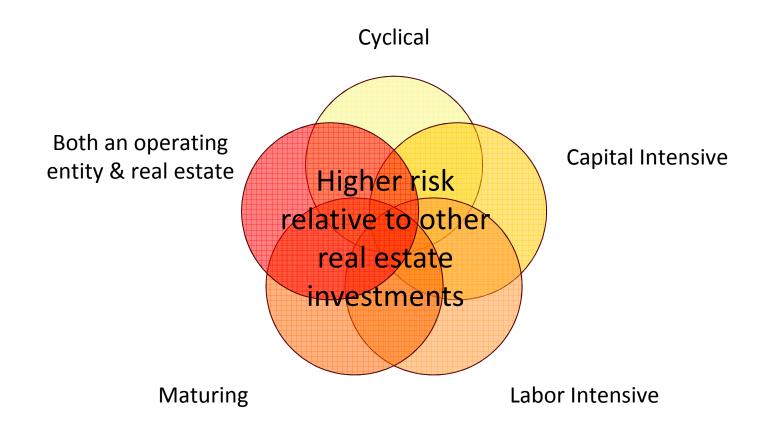








Risk Profile of Hotels Compared to Other Commercial Real Estate

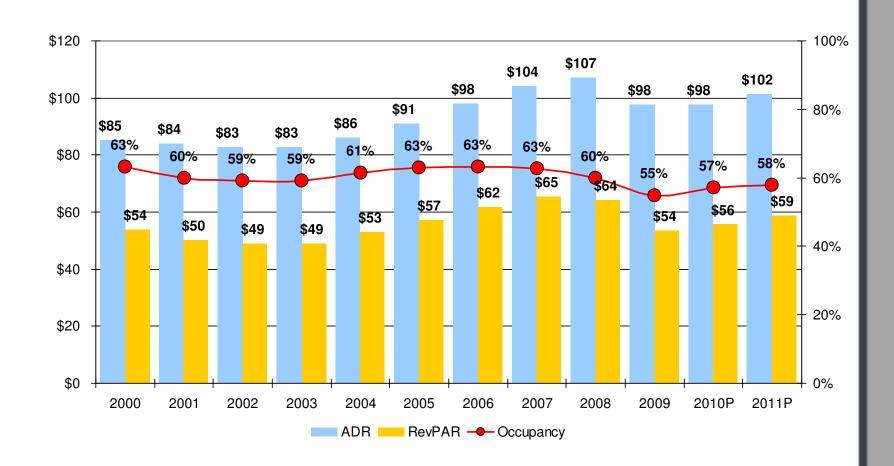








U.S. Hotel Performance Statistics

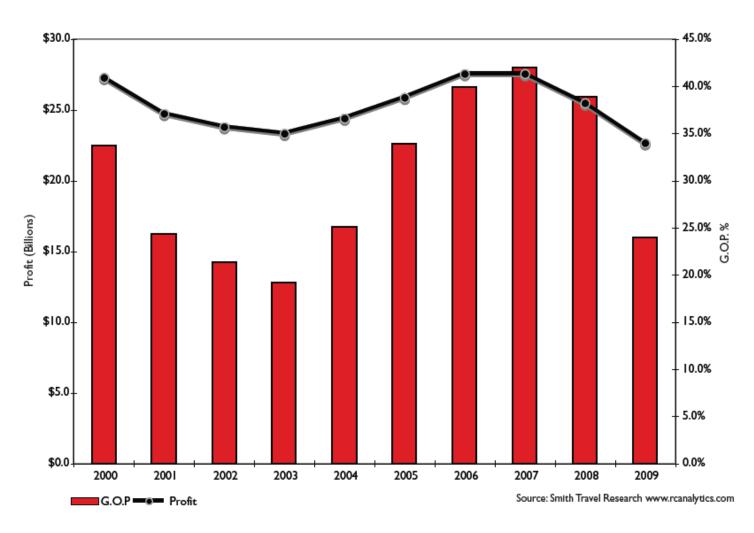








U.S. Hotel GOP & Profitability









Competitive Set for Hotel

Competitive Supply						
Competitive Hotels	Number of Rooms					
Doubletree	230					
Independent Property 1	264					
Independent Property 2	70					
Holiday Inn Express	100					
Hilton Garden Inn	229					
Marriott	401					
Crowne Plaza	299					
Omni	361					
Total	1,954					



Historical Operating Performance Defined Competitive Lodging Supply

Year	Occupied Room Nights	Available Room Nights	Annual Occ %	Average Daily Rate	RevPAR
2005	414,079	629,625	65.8%	\$111.46	\$73.31
2006	412,281	629,625	65.5%	\$119.91	\$78.51
2007	391,262	629,625	62.1%	\$133.36	\$82.88
2008	380,793	629,625	60.5%	\$131.30	\$79.41
2009	378,281	713,210	53.0%	\$120.09	\$63.70
CAG	(2.2%)	3.2%		1.9%	(3.5%)





Demand Generator Summary

Segment	Room Nights	% Total	
Business 1	500	11%	
Business 2	430	10%	
Business 3	290	6%	
Association 1	140	3%	
ABC Museum	130	3%	
Weddings	1,210	27%	
Military Installation	300	7%	
Other SMERF Activities (1)	1,510	33%	
Total	4,510	100%	

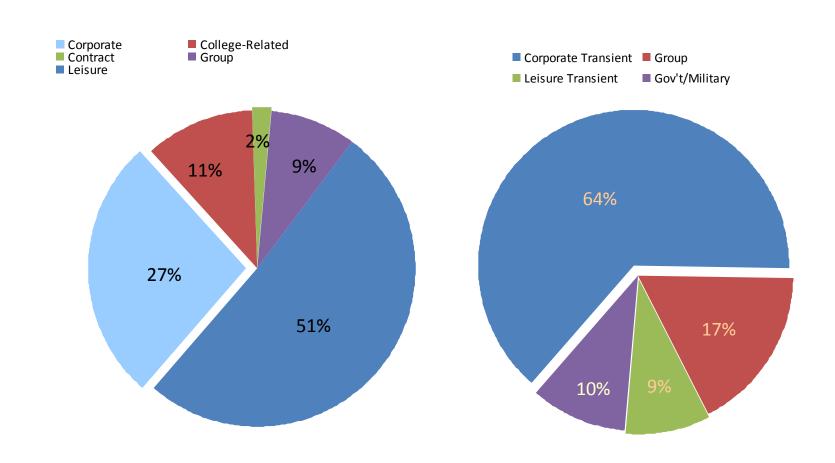
Note: (1) Includes all events and activities for market.







Market Segmentation for Local Supply and Proposed Hotel









Market Penetration Analysis

Year	2013		2014		2015		2016		2017		2018		2019	
Available Rooms in Comp. Set	2,070		2,070		2,070		2,070		2,070		2,070		2,070	
Available Room Nights Subject Hotel Total Market Subject's Fair Share	34,675 755,550 4.6%		34,675 755,550 4.6%		34,675 755,550 4.6%		34,675 755,550 4.6%		34,675 755,550 4.6%		34,675 755,550 4.6%		34,675 755,550 4.6%	
Corporate Total Segment Demand Fair Share of Demand	104,800 4,810	Market Mix	107,900 4,952	Market Mix	110,100 5,053	Market Mix	110,100 5,053	Market Mix	110,100 5,053	Market Mix	110,100 5,053	Market Mix	110,100 5,053	Market Mix
Penetration Rate Demand Captured	63% 3,000	14%	71% 3,500	15%	69% 3,500	14%	69% 3,500	14%	69% 3,500	14%	69% 3,500	14%	69% 3,500	14%
Government Total Segment Demand Fair Share of Demand Penetration Rate Demand Captured	66,200 3,038 81% 2,500	12%	67,500 3,098 82% 2,500] [68,800 3,157 94% 3,000]	68,800 3,157 94% 3,000] [68,800 3,157 94% 3,000] [68,800 3,157 94% 3,000	12%	68,800 3,157 94% 3,000	12%
Group Total Segment Demand Fair Share of Demand Penetration Rate Demand Captured	160,100 7,348 47% 3,500	16%	164,900 7,568 59% 4,500] [169,800 7,793 57% 4,500	18%	169,800 7,793 57% 4,500] [169,800 7,793 57% 4,500] 18%	169,800 7,793 57% 4,500	18%	169,800 7,793 57% 4,500	18%
Leisure Total Segment Demand Fair Share of Demand Penetration Rate Demand Captured	75,700 3,474 143% 5,000	23%	77,200 3,543 155% 5,500] [23%	78,800 3,616 165% 6,000	24%	78,800 3,616 165% 6,000] [24%	78,800 3,616 165% 6,000] 24%	78,800 3,616 165% 6,000	24%	78,800 3,616 165% 6,000	24%
University-Related Total Segment Demand Fair Share of Demand Penetration Rate Demand Captured	39,100 1,794 420% 7,500] 35%	40,000 1,836 435% 8,000] [40,800 1,872 425% 8,000	32%	40,800 1,872 425% 8,000] [40,800 1,872 425% 8,000	32%	40,800 1,872 425% 8,000	32%	40,800 1,872 425% 8,000	32%
Total Demand Total Market Demand Fair Share of Demand Penetration Overall Demand Captured	445,800 20,459 105% 21,500	100%	457,500 20,996 114% 24,000	100%	468,300 21,492 116% 25,000	100%	468,300 21,492 116% 25,000	100%	468,300 21,492 116% 25,000	100%	468,300 21,492 116% 25,000	100%	468,300 21,492 116% 25,000	100%
Estimated Subject Occ. Estimated Market Occ.	62% 59%		69% 61%		72% 62%		72% 62%		72% 62%		72% 62%		72% 62%	







Summary of Estimated Operating Results

Year	Stabilized	2013	2014	2015	2016	2017			
Occupancy and Average Daily Rate									
Number of Rooms	95	95	95	95	95	95			
Available Rooms Nights	34,675	34,675	34,675	34,675	34,675	34,675			
Occupied Rooms Nights	24,966	21,499	23,926	24,966	24,966	24,966			
Occupancy	72%	62%	69%	72%	72%	72%			
Average Daily Rate	\$118.00	\$125.00	\$133.00	\$137.00	\$141.00	\$145.00			
RevPAR	\$84.96	\$77.50	\$91.77	\$98.64	\$101.52	\$104.40			
	Marke	t Segmentation	1						
Corporate	14%	14%	15%	14%	14%	14%			
Government	12%	12%	10%	12%	12%	12%			
Group	18%	16%	19%	18%	18%	18%			
Leisure	24%	23%	23%	24%	24%	24%			
University-Related	32%	35%	33%	32%	32%	32%			
Total	100%	100%	100%	100%	100%	100%			
	Oper	ating Results							
Total Revenue (000)	\$3,224,000	\$2,949,000	\$3,483,000	\$3,742,000	\$3,852,000	\$3,963,000			
Operating Expenses (000) (1)	\$2,142,000	\$2,095,000	\$2,334,000	\$2,496,000	\$2,564,000	\$2,635,000			
Operating Expenses Percent of Total Revenue	66%	71%	67%	67%	67%	66%			
Net Operating Income (000)	\$1,082,000	\$854,000	\$1,149,000	\$1,246,000	\$1,288,000	\$1,328,000			
Net Operating Income Percent of Total Revenue	34%	29%	33%	33%	33%	34%			





Three Approaches to Value

Valuation should replicate the motivations and methodologies of the marketplace.

- 1. Income Approach Model future revenues and expenses, discount cash flow to a present value and as such, represents the anticipated future benefits attributable to ownership.
- 2. Sales Comparison Compare sales of similar properties to the subject with adjustments made to the reflected price per room for differences. This approach is driven by the economic principle of substitution whereby no investor would pay more for the subject property than it would cost him to purchase another hotel with similar income characteristics and functional utility.
- 3. Cost Based on the cost to reproduce or replace the subject improvements. Requires an estimate of land value as well as the cost to construct the improvements and an accurate understanding of depreciation of the asset over time. This approach is not typically employed by savvy real estate investors when pricing hotel properties.







Prepare Financial Pro Formas

Year (1)	2011		2012		2013		2014		2015		2016	
Number of Rooms:	498		502		502		502		502		502	
Occupancy:	80%		78%		79%		79%		79%		79%	
Average Rate:	\$161.38		\$170.80		\$187.53		\$200.39		\$206.40		\$212.59	
Avorago Hato.	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
REVENUES	Ψ	70										
Rooms	23,377	70.7%	24,408	70.1%	27,213	70.5%	29,079	70.2%	29,951	70.2%	30.850	70.2%
Food and Beverage	8,673	26.2%	9,360	26.9%	10,252	26.6%	11,116	26.9%	11,450	26.9%	11,793	26.9%
Other Operated Departments	516	1.6%	556	1.6%	610	1.6%	661	1.6%	681	1.6%	701	1.6%
Rentals & Other Income	486	1.5%	494	1.4%	514	1.3%	529	1.3%	545	1.3%	561	1.3%
Total	33,052	100.0%	34,818	100.0%	38,589	100.0%	41,385	100.0%	42,627	100.0%	43,905	100.0%
DEPARTMENTAL EXPENSES (2)	,		, , , ,		,		,		,-		-,	
Rooms	6,244	26.7%	6,389	26.2%	6,630	24.4%	6,829	23.5%	7,034	23.5%	7,245	23.5%
Food & Beverage	6,158	71.0%	6,552	70.0%	7,177	70.0%	7,538	67.8%	7,764	67.8%	7,997	67.8%
Other Operated Departments	797	154.5%	816	146.7%	844	138.4%	869	131.5%	895	131.4%	922	131.5%
Total	13,199	39.9%	13,757	39.5%	14,651	38.0%	15,236	36.8%	15,693	36.8%	16,164	36.8%
DEPARTMENTAL INCOME	19,853	60.1%	21,061	60.5%	23,939	62.0%	26,149	63.2%	26,934	63.2%	27,741	63.2%
OPERATING EXPENSES												
Administrative & General	2,493	7.5%	2,718	7.8%	2,975	7.7%	3,237	7.8%	3,335	7.8%	3,435	7.8%
Sales and Marketing	2,446	7.4%	2,519	7.2%	2,605	6.8%	2,689	6.5%	2,770	6.5%	2,853	6.5%
Property Oper. & Maintenance	1,376	4.2%	1,417	4.1%	1,465	3.8%	1,513	3.7%	1,558	3.7%	1,605	3.7%
Utilities	1,770	5.4%	1,822	5.2%	1,890	4.9%	1,954	4.7%	2,012	4.7%	2,073	4.7%
Total	8,085	24.5%	8,476	24.3%	8,935	23.2%	9,393	22.7%	9,675	22.7%	9,966	22.7%
GROSS OPERATING PROFIT	11,768	35.6%	12,585	36.2%	15,003	38.8%	16,756	40.5%	17,259	40.5%	17,775	40.5%
Management Fee	992	3.0%	1,045	3.0%	1,158	3.0%	1,242	3.0%	1,279	3.0%	1,317	3.0%
FIXED EXPENSES												
Rent	26	0.1%	27	0.1%	27	0.1%	28	0.1%	29	0.1%	30	0.1%
Property and Other Taxes	2,629	8.0%	2,708	7.8%	2,789	7.2%	2,873	6.9%	2,959	6.9%	3,048	6.9%
Insurance	294	0.9%	303	0.9%	313	0.8%	323	0.8%	332	0.8%	342	0.8%
Replacement Reserve	1,322	4.0%	1,393	4.0%	1,544	4.0%	1,655	4.0%	1,705	4.0%	1,756	4.0%
Total	4,271	13.0%	4,431	12.8%	4,673	12.1%	4,879	11.8%	5,025	11.8%	5,176	11.8%
NET OPERATING INCOME (3)	6,505	19.6%	7,109	20.4%	9,172	23.7%	10,635	25.7%	10,955	25.7%	11,282	25.7%







Financial Comparables

	0	Subject		
	Min	Max	Average	SOR
Revenues				
Rooms	66.0%	84.4%	77.2%	71.0%
Food & Beverage	14.2%	28.9%	19.7%	28.1%
Other Operated Departments	0.0%	5.1%	2.4%	0.6%
Rentals and Other	0.0%		0.7%	0.2%
Total	100.0%	100.0%	100.0%	100.0%
Departmental Expenses (1)				
Rooms	24.8%	33.9%	29.6%	32.0%
Food & Beverage	53.3%	124.9%	93.3%	80.0%
Other Operated Departments		10057.1%	2069.9%	107.7%
Total	35.7%	47.0%	41.6%	45.9%
Departmental Income	53.0%	64.3%	58.4%	54.1%
Undistributed Operating Expenses				
Administrative and General	9.2%	16.3%	12.9%	13.8%
Sales and Marketing	10.4%		13.1%	13.4%
Property Operations and Maintenance	6.2%		7.7%	4.5%
Utilities	6.0%		10.6%	6.2%
Total	38.3%	54.3%	44.4%	37.9%
Gross Operating Profit	4.7%	26.0%	14.0%	16.2%
Management Fee	0.0%	3.6%	1.9%	2.5%
Income Before Fixed Charges	1.7%	22.4%	12.1%	13.7%
Fixed Charges				
Rent	0.0%	0.7%	0.2%	0.5%
Property and Other Taxes	0.0%	4.7%	2.4%	2.7%
Insurance	0.0%		0.5%	1.1%
Total	0.0%	5.4%	3.2%	4.3%
Net Operating Income	1.7%	18.7%	8.9%	9.4%
Less: Reserves for Replacement	0.0%	4.0%	1.6%	4.0%
Adjusted Net Operating Income (2)	1.7%	14.7%	7.3%	5.4%

	Per Avail	able Room	
С	omparable	s	Subject
Min	Max	Average	SOR
\$10,146	\$25,033	\$15,643	\$14,892
\$2,745	\$5,993	\$3,849	\$5,897
\$1	\$1,054	\$505	\$133
\$0	\$398	\$106	\$51
\$13,503	\$29,652	\$20,103	\$20,973
\$3,444	\$6,197	\$4,487	\$4,764
\$2,720	\$4,091	\$3,370	\$4,718
\$143	\$681	\$325	\$144
\$6,353	\$10,587	\$8,181	\$9,626
\$7,150	\$19,065	\$11,922	\$11,347
V 1,100	4.0,000	* · · · , • = =	4.1,5. 1
\$1,246	\$3,319	\$2,577	\$2,903
\$1,785	\$4,441	\$2,657	\$2,805
\$1,162	\$1,843	\$1,512	\$949
\$1,639	\$2,393	\$1,962	\$1,303
\$6,123	\$11,350	\$8,708	\$7,960
\$769	\$7,715	\$3,215	\$3,387
\$0	\$1,071	\$442	\$523
*-	* ,-	•	• • •
\$279	\$6,644	\$2,773	\$2,864
\$0	\$134	\$47	\$103
\$0	\$954	\$503	\$559
\$0	\$539	\$134	\$231
\$0	\$1,088	\$685	\$893
\$279	\$5,557	\$2,088	\$1,971
\$0	\$1,186	\$403	\$841
\$279	\$4,371	\$1,685	\$1,130

Per Occ. Rm. Night Comparables Subject SOR												
Min Max Average SOR \$66.50 \$102.83 \$84.36 \$68.00 \$17.32 \$33.37 \$21.35 \$26.93 \$0.01 \$5.87 \$2.69 \$0.61 \$0.00 \$2.71 \$0.71 \$0.23 \$88.51 \$121.80 \$109.12 \$95.77 \$22.57 \$25.67 \$24.57 \$21.75 \$16.80 \$21.63 \$18.63 \$21.54 \$0.97 \$3.65 \$1.76 \$0.66 \$41.64 \$50.95 \$44.97 \$43.95 \$46.86 \$78.31 \$64.15 \$51.82 \$8.16 \$18.13 \$14.15 \$13.25 \$11.70 \$18.24 \$14.35 \$12.81 \$7.57 \$9.55 \$8.38 \$4.33 \$7.27 \$16.27 \$11.31 \$5.95 \$40.13 \$60.28 \$48.19 \$36.34 \$5.23 \$31.69 \$15.96 \$15.48												
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Investor Survey

Publication	Property Type	Discount Rates	Terminal Capitalization Rates	Overall Capitalization Rates
Korpacz Real Estate Investor Survey	Limited-Service	13.19%	11.25%	10.85%
(3rd Qtr 2009)		10.00% to 18.00%	9.00% to 14.00%	9.00% to 14.00%
Korpacz Real Estate Investor Survey	Full-Service	11.69%	10.22%	9.84%
(3rd Qtr 2009)		10.00% to 14.00%	7.50% to 12.00%	6.50% to 14.00%
IRR - Viewpoint (2010)	CBD Lodging - U.S. Avg.	11.43%	10.34%	10.30%
IRR - Viewpoint (2010)	CBD Lodging - Boston, MA	11.50%	10.25%	9.50%
USRC Hotel Investor Survey	Full-Service	12.10%	9.30%	9.30%
(Winter 2010)		10.00% to 15.00%	8.00% to 11.00%	5.00% to 12.00%

Source: Respective publications







Historical Average Overall Cap Rate Indices









Discounted Cash Flow

Discount Rate Terminal Capita	10.5% 8.5%				
		Factor at	Present Value	Cash on	
Year	Cash Flow	10.5%	Cash Flow	Cash Return	
2011	6,505,000	0.904977	5,886,875	5.8%	
2012	7,109,000	0.818984	5,822,157	6.3%	
2013	9,172,000	0.741162	6,797,938	8.2%	
2014	10,635,000	0.670735	7,133,267	9.5%	
2015	10,955,000	0.607000	6,649,685	9.7%	
2016	11,282,000	0.549321	6,197,440	10.0%	
2017	11,620,000	0.497123	5,776,569	10.3%	
2018	11,971,000	0.449885	5,385,573	10.7%	
2019	12,329,000	0.407136	5,019,580	11.0%	
2020	12,699,000	0.368449	4,678,934	11.3%	
Reversion	\$153,101,235	0.368449	56,409,997		
Indication of ma	\$115,758,015				
Estimated reversion: Terminal Year Expected Cash Flow (Year 2021) 13,079,000					
Terminal capital	8.5%				
Estimated sales	\$153,870,588				
Less: Costs of	\$769,353				
Amount of rever	\$153,101,235				
Indication of ma	\$115,758,015				
Less: Capital De	3,400,000				
Indication of ma	\$112,358,015 \$112,400,000				
(Rounded)	φ112,400,000				







Summary of Comparable Sales

			Unadjusted			NOI/Room
		Date of	Sale Price	# of Units/	ADR/OCC/	Cap Rate
Sale	Hotel/ Location	Sale	per Unit	Year Opened	RevPAR	RRM
1	Hyatt Regency	February-09	\$224,900	498	\$200.29	\$14,181,352
	Boston, MA			1985	79.6%	12.7%
					\$159.43	3.9
2	W Hotel	July-09	\$222,772	404	\$238.02	\$6,300,000
	San Francisco			1999	66.9%	7.0%
					\$159.24	3.8
3	LeMeridien	December-07	\$300,952	210	\$204.05	\$4,700,000
	Cambridge, MA		*\$340,952	1998	80.6%	6.6%
	- '				\$164.46	5.0

^{*}Prcie per key including renovation



Summary of Adjustments of Comparables Sales

Summary of Adjustments of Comparable	Sales			
-		Sale 1	Sale 2	Sale 3
Unadjusted Price per Room		\$224,900	\$222,772	\$300,952
Interest Conveyed		Downward	Equal	Equal
Financing		Equal	Equal	Equal
Market Conditions		Upward	Upward	Downward
Condition of Property		Equal	Equal	Equal
Occupancy		Equal	Equal	Equal
Income Prospects		Equal	Downward	Equal
Amenities		Equal	Equal	Equal
Location		Equal	Equal	Upward
Facilities		Equal	Equal	Equal
Physical Characteristics		Equal	Equal	Equal
TOTAL ADJUSTMENTS		Equal	Equal	Downward
Price per Room Adjusted	\$	224,900 \$	222,772 \$	210,666
Price per Room Adjusted w/ Renov	\$	224,900 \$	222,772 \$	238,666
Adjusted Price per Room	\$	224,900 \$	222,800 \$	250,700





RRM Approach

Projections	Projected Rooms Revenue	Room Revenue Multiplier	Indicated Value	Value Per Room
Management's 2010 Forecast ⁽¹⁾	\$2,251,464	<u>1.5</u> 2.0	\$3,377,196 \$4,502,928	<u>\$17,319</u> \$23,091
2011 Estimate	\$2,421,000	<u>1.5</u> 2.0	\$3,631,500 \$4,842,000	<u>\$18,623</u> \$24,831

Note: (1) Based on year-to-date 2010 actual performance through August.



Cost Approach Summary

Replacement Cost New	\$84,800,000
Furniture, fixtures, and equipment (FF&E)	\$12,450,000
Soft cost allocation	\$12,640,000
Entrepreneurial profit	\$11,000,000
Total Cost New	\$120,890,000
Less: Depreciation	\$12,875,000
Less: Economic Obsolecense	\$31,700,000
Depreciated Cost	\$76,315,000
Add: Land Value	\$36,105,000
Indicated Value by the Cost Approach	\$112,420,000
Rounded	\$112,400,000







Other Factors to Talk About

- Variable vs. Fixed Costs in Hotels
- Labor Highest Expense at Hotel
 - Management vs. Line Staff
 - Complexing and Cross Utilization
- Food and Beverage internal vs external to hotel
- Looking forward vs. looking back depends on where you are in cycle
- Encumbered property and impact on value







Questions



