





#### **Hotel Values & CAP Rates**

Meet The Money 2011

May 2-4, 2011 – Sheraton Gateway Hotel Los Angeles

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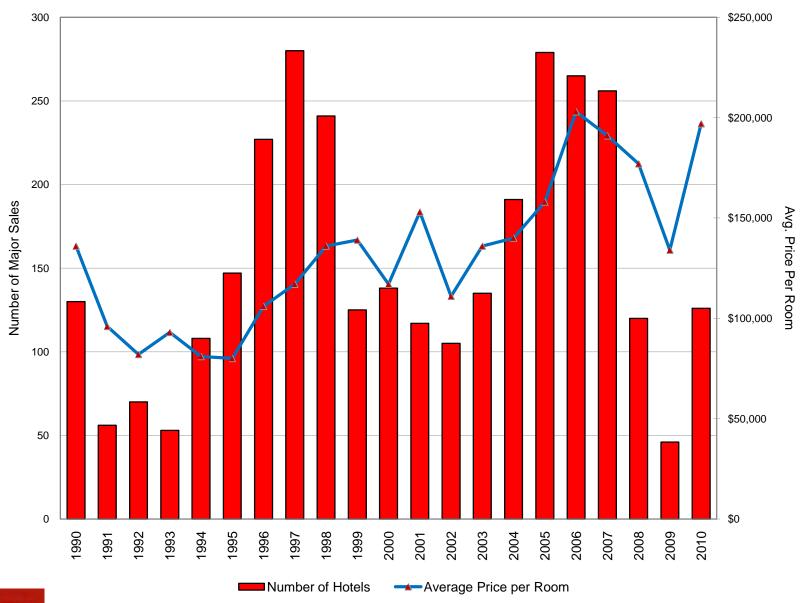
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# Major Sales Transactions (>\$10 Million)





Source: HVS -

# Major Hotel Sales Transactions (Sales Price > \$10 Million)

1991	56	-56.9 %	96,000	-29.4 %
1992	70	25.0	82,000	-14.6
1993	53	-24.3	93,000	13.4
1994	108	103.8	81,000	-12.9
1995	147	36.1	80,000	-1.2
1996	227	54.4	106,000	32.5
1997	280	23.3	117,000	10.4
1998	241	-13.9	136,000	16.2
1999	128	-46.9	148,000	8.8
2000	150	17.2	116,000	-21.6
2001	105	-30.0	146,000	25.9
2002	106	1.0	111,581	-23.6
2003	142	34.0	132,944	19.1
2004	189	33.1	136,056	2.3
2005	331	75.1	168,225	23.6
2006	270	-18.4	201,935	20.0
2007	252	-6.7	192,566	-4.6
2008	114	-54.8	176,067	-8.6
2009	46	-59.6	133,629	-24.1
2010	129	180.4	196,134	46.8

Source: HVS



# What is the reference point in the discussion of hotel capitalization rates and values?

- Luxury and Upper Upscale Hotels make up less than 15% of the total supply of hotel rooms in the U.S.
- Luxury, Upper Upscale and Upscale Hotels make up less than 25% of total rooms in the U.S.
- These are the hotels that attain average rates above \$100 per night and occupancy levels > 65%
- The balance of the U.S. hotel supply operates at levels below the industry average
- Capitalization rates and the factors that impact them vary with property type, age, location, etc.
- Barriers to entry, age and type of construction most significant factors



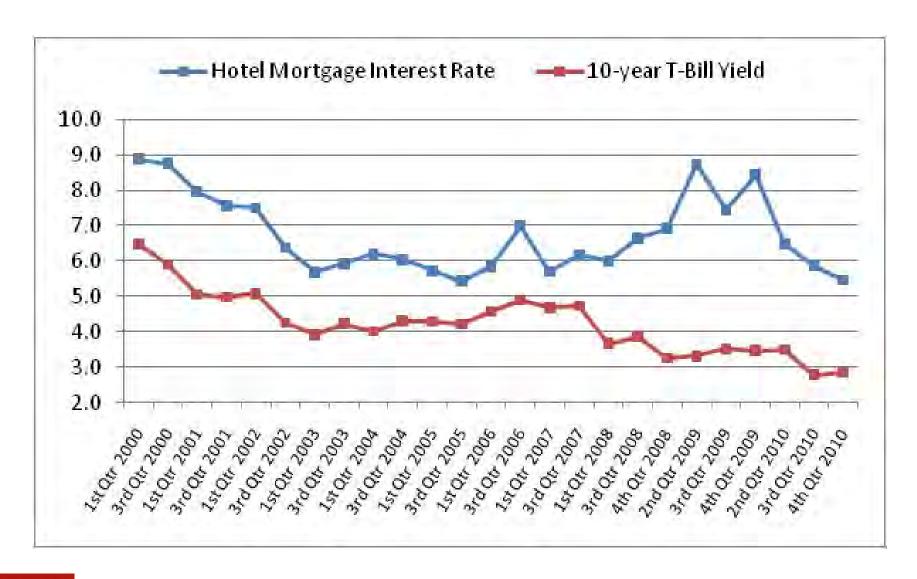
# Capitalization Rates Derived From Historical Net Income

	200	09	2010	0		
	Average	Range		Average	Range	
Full Service	10.0 %	6.6 -16.7	%	5.3 %	1.7 - 8.0	%
Select and Extended Stay	N/A	N/A		7.8	3.1 - 12.4	
Limited Service	11.8	1.4 - 28.8		8.5	1.3 - 16.3	



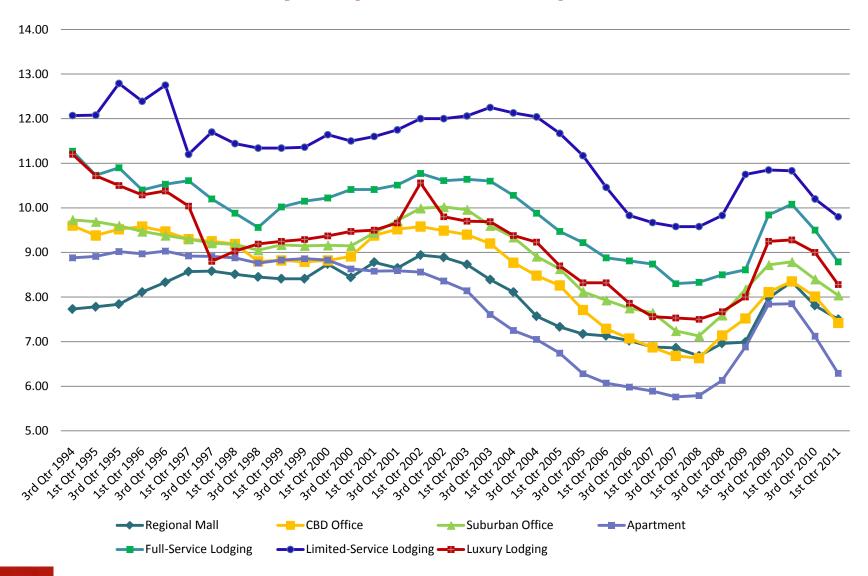
Source: HVS

### **Hotel Mortgage Interest Rates**



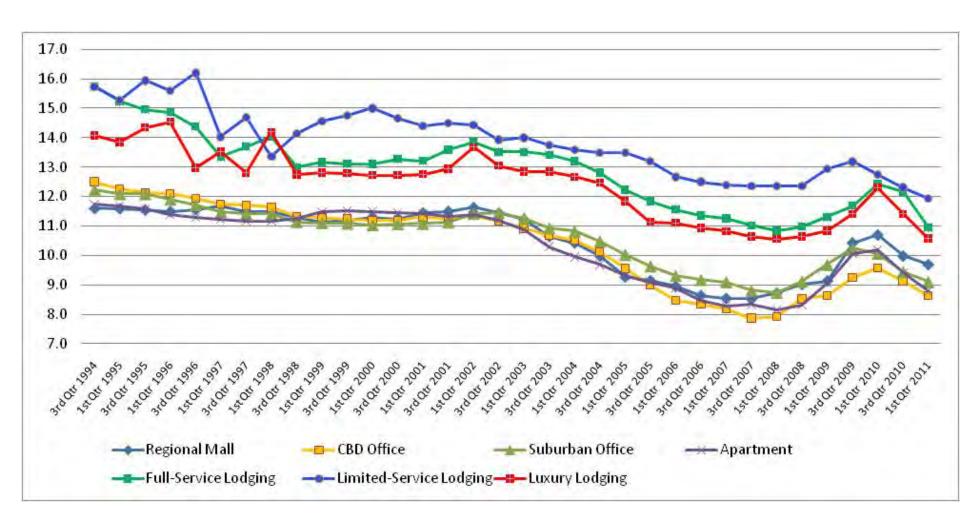


### **Survey Cap Rate Comparison**



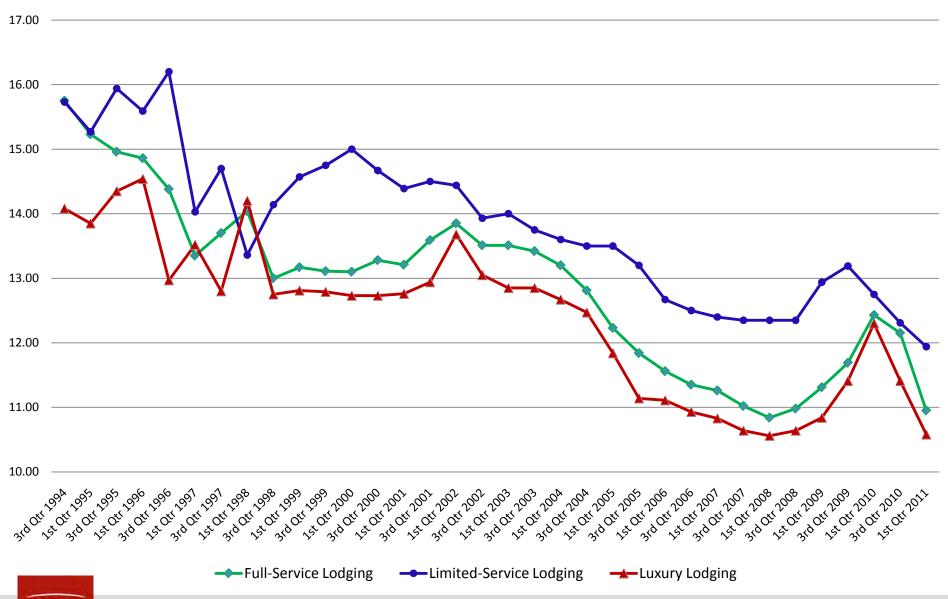


### **Survey Discount Rate Comparison**





### **Survey Hotel Discount Rate Comparison**





### **Historical Cap Rates – Select Set of Full Service Hotels**

	Cap Rate based on Historical NO	Cap Rate based on 1st Yr. Projected NO	Free and Clear Discount Rate	Equity Yield
2011	4.5	6.0	11.7	15.5
2010	4.6	5.4	11.8	15.9
2009	8.0	6.4	13.7	16.9
2008	6.6	5.3	11.9	20.0
2007	6.0	6.8	11.6	21.3
2006	5.5	5.7	10.8	18.9
2005	5.2	6.9	11.4	19.7
2004	5.8	7.4	12.2	19.7
2003	7.9	8.2	14.0	21.4
2002	8.9	9.8	13.6	21.0
2001	8.2	9.8	14.6	22.2
2000	9.2	10.4	14.0	21.0
1999	10.3	11.4	15.5	24.9
1998	8.8	9.7	14.5	22.2
1997	9.3	10.5	15.4	23.9
1996	7.0	9.8	13.5	21.4
1995	7.0	11.1	14.1	20.5
1994	5.7	8.3	14.8	21.8
1993	8.5	12.0	20.8	34.3
1992	4.8	7.7	15.1	21.9
1991	6.4	8.9	19.4	24.0
1990	8.0	10.0	15.1	22.4
1989	9.5	9.4	17.6	28.8
1988	9.1	9.7	14.7	21.4



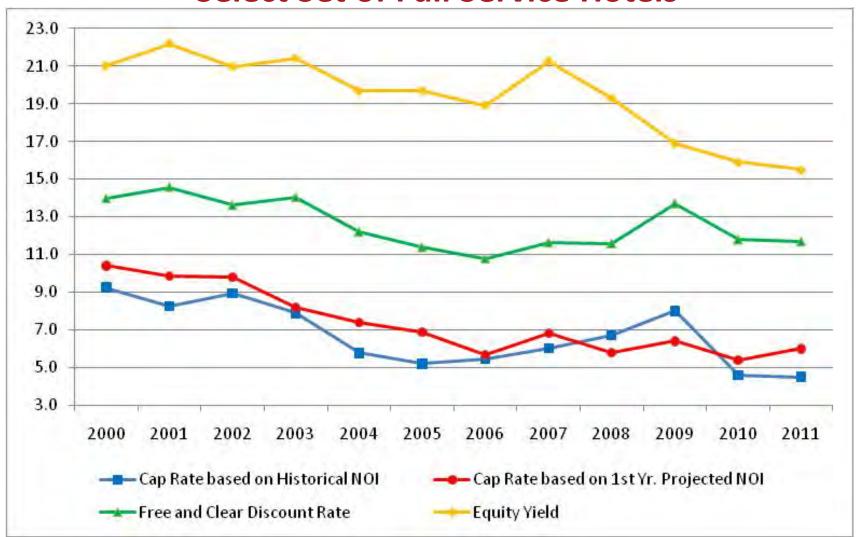
Source: HVS - 1

### **Historical Cap Rates – Select Set of Full Service Hotels**

	Cap Rate based on Historical NO	Cap Rate based on 1st Yr. Projected NO	Free and Clear Discount Rate	Equity Yield
2011	4.5	6.0	11.7	15.5
2010	4.6	5.4	11.8	<b>15.9</b>
2009	8.0	6.4	13.7	16.9
2008	6.6	5.3	11.9	20.0
2007	6.0	6.8	11.6	21.3
2006	5.5	5.7	10.8	18.9
2005	5.2	6.9	11.4	19.7
2004	5.8	7.4	12.2	19.7
2003	7.9	8.2	14.0	21.4
2002	8.9	9.8	13.6	21.0
2001	8.2	9.8	14.6	22.2
2000	9.2	10.4	14.0	21.0
1999	10.3	11.4	15.5	24.9
1998	8.8	9.7	14.5	22.2
1997	9.3	10.5	15.4	23.9
1996	7.0	9.8	13.5	21.4
1995	7.0	11.1	14.1	20.5
1994	5.7	8.3	14.8	21.8
1993	8.5	12.0	20.8	34.3
1992	4.8	7.7	15.1	21.9
1991	6.4	8.9	19.4	24.0
1990	8.0	10.0	15.1	22.4
1989	9.5	9.4	17.6	28.8
1988	9.1	9.7	14.7	21.4



# Capitalization and Discount Rates – Select Set of Full Service Hotels





Source: HVS - 12 -

### **Transaction Cap Rate Comparisons**

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	Boston Copley Marriott	Le Meridien New Orleans	Lexington Radisson	Marriott East Side	Westin St. Francis	Boston Long Warf Marriott	Hyatt Regency Orange County	W San Francisco	Tuscan Inn San Francisco	Average of Two Hotels San Francisco
Transaction Size	\$214 Million	\$93.5 Million	\$214 Million	\$287 Million	\$440 Million	\$231 Million	\$112 Million	\$90 Million	\$36.5 Million	\$93 Million
Trailing CAP Rate	8.4%	6.7%	6.2%	5.2%	5.3%	5.5%	7.8%	8.0%	6.6%	2.2%
Forward CAP Rate	7.0%	8.6%	7.1%	6.5%	6.0%	5.9%	9.5%	6.4%	6.6%	3.6%



Source: HVS

### Tuscan Inn – San Francisco

- Sold in January 2010 for \$36,500,000 or \$165,158 per room at an overall capitalization rate of 6.7%
- Resold in February 2011 for \$52,250,000 or \$236,425 per room at a reported capitalization rate of 5.5%
- 43% increase in value
- Revenue had increased roundly 10% from January 2010 to February 2011
- NOI increased by roundly 20% over the same period
- Less than 50% of appreciation was driven by an NOI increase
- Majority of appreciation driven by reduction in required rate of return
- With cap rates and cost of capital at historic low, future appreciation will have to be driven by NOI gains alone



# **Sample Forecast Illustrating Operating Leverage**

	Historical								
	Operating	Results	For	ecast of	Income and	Expense			
	2010		2011/12		2012/13		2013/14		Stabilized
Number of Rooms:	260		260		260		260		260
Occupancy:	70%		72%		74%		74%		74%
Average Rate:	\$120.00		\$126.00	5.0%	\$134.19	6.5%	\$143.58	7.0%	\$149.33
RevPAR:	\$84.00		\$90.72	8.0%	\$99.30	9.5%	\$106.25	7.0%	\$110.50
Days Open:	365		365		365		365		365
Occupied Rooms:	66,430	%Gross	68,328	%Gross	70,226	%Gross	70,226	%Gross	70,226
REVENUE									
Total Revenues	10,109	100.0	10,840	100.0	11,745	100.0	12,473	100.0	12,949
DEPARTMENTAL EXPENSES *									
Total	3,366	33.3	3,481	32.1	3,588	30.5	3,695	29.6	3,806
DEPARTMENTAL INCOME	6,743	66.7	7,359	67.9	8,157	69.5	8,778	70.4	9,143
UNDISTRIBUTED OPERATING EX	PENSES								
Total	2,922	28.9	3,045	28.2	3,193	27.2	3,338	26.8	3,452
HOUSE PROFIT	3,821	37.8	4,314	39.7	4,964	42.3	5,440	43.6	5,691
Management Fee	354	3.5	325	3.0	352	3.0	374	3.0	388
INCOME BEFORE FIXED CHARGI	3,468	34.3	3,989	36.7	4,611	39.3	5,065	40.6	5,302
FIXED EXPENSES									
Total	849	8.4	891	8.3	940	8.0	984	7.9	1,017
NET INCOME	\$2,618	25.9 %	\$3,098	28.4	% \$3,671	31.3 %	\$4,082	32.7 %	\$4,285
% CHANGE IN NOI			18.3%			18.5%		11.2%	
Total % Change	64%								



### **Valuation of Sample Hotel**

### **Valuation Input**

Stabilized Inflation: 3.0%

Loan/Value: 65%

Amortization: 30 Years

Term: 10 Years

Interest Rate: 6.00%

Terminal Cap Rate: 8.50%

Transaction Costs: 3.0%

Equity Yield: 16.0%



# Valuation of Sample Hotel at Current Rates of Return

\$48 012 871

1.4

10%

#### **Valuation Output**

Value:

\$48,000,000
\$185,000
10.3%
5.6%
6.5%
1.2
8%

Debt Coverage Ratio (1st Year NOI)

Debt Yield (1st Year NOI)



# Valuation at End of Year 3 100 bp Increase in Interest Rate, Leverage up to 75% LTV (all else equal)

#### **Valuation Input**

Year of Value: 2014/15

Stabilized Inflation: 3.0%

Loan/Value: 75%

Amortization: 30 Years

Term: 10 Years

Interest Rate: 7.00%

Terminal Cap Rate: 8.50%

Transaction Costs: 3.0%

Equity Yield: 18.0%



# Value at End of Year Three 100 bp Increase in Interest Rate; 75% LTV

Valuation Output: End of 3rd Year	
Before Deduct:	
Value:	\$52,628,167
(Say):	\$52,600,000
Value per Room:	\$202,308
Overall Discount Rate:	10.6%
Overall Rate (Historical NOI):	7.8%
Overall Rate (1st Year NOI):	8.1%

Debt Coverage Ratio (Hist. NOI)

Debt Coverage Ratio (1st Year NOI)

Debt Yield (Historical NOI)

Debt Yield (1st Year NOI)



1.3

1.4

10.3%

10.9%

### Value at End of Year Three

### Appreciation = 9.6%

**Before Deduct:** 

Value: \$52,628,167

(Say): \$52,600,000

Value per Room: \$202,308

Overall Discount Rate: 10.6%

Overall Rate (Historical NOI): 7.8%

Overall Rate (1st Year NOI): 8.1%

Debt Coverage Ratio (Hist. NOI) 1.3

Debt Yield (Historical NOI) 10.3%

Debt Coverage Ratio (1st Year NOI) 1.4

Debt Yield (1st Year NOI) 10.9%



# Valuation of Sample Hotel at End of Year 3 150 bp Increase in Interest Rate; 100 bp Increase in Equity Yield and Terminal Rate

#### **Valuation Input**

Year of Value: 2014/15

Stabilized Inflation: 3.0%

Loan/Value: 75%

Amortization: 30 Years

Term: 10 Years

Interest Rate: 7.50%

Terminal Cap Rate: 9.00%

Transaction Costs: 3.0%

Equity Yield: 19.0%



# Valuation of Sample Hotel at End of Year 3 Result is 100 bp Increase in Discount Rate

Appreciation = 2.5%

Valuation Output: End of 3rd Year	
Before Deduct:	
Value:	\$49,207,052
(Say):	\$49,200,000
Value per Room:	\$189,231
Overall Discount Rate:	11.3%
Overall Rate (Historical NOI):	8.3%
Overall Rate (1st Year NOI):	8.7%
Debt Coverage Ratio (Hist. NOI)	1.3
Debt Yield (Historical NOI)	11.1%
Debt Coverage Ratio (1st Year NOI)	1.4
Debt Yield (1st Year NOI)	11.6%



# **Actual Example of Operating Leverage**

_	Historical Statement of Income and Expense								
	2004			2005		2006		2007	
Number of Rooms:	800			800		800		800	
Occupancy:	72%			74%		80%		83%	
Average Rate:	\$164.50			\$182.50	10.9%	\$204.11	11.8%	\$212.56	4.1%
RevPAR:	\$118.86			\$133.03	11.9%	\$164.16	23.4%	\$176.61	7.6%
REVENUE									
Total Revenues	55,763	100.0	%	61,179	100.0 %	6 72,137	100.0 %	81,076	100.0 %
DEPARTMENTAL EXPENSES *								_	
Total	23,433	42.0		24,175	39.5	27,647	38.3	30,488	37.6
DEPARTMENTAL INCOME	32,330	58.0		37,004	60.5	44,490	61.7	50,588	62.4
UNDISTRIBUTED OPERATING EXP	PENSES								
Total	11,481	20.6		13,666	22.3	14,051	19.5	15,010	18.5
HOUSE PROFIT	20,849	37.4		23,338	38.2	30,439	42.2	35,578	43.9
Management Fee	1,639	2.9		571	0.9	1,569	2.2	2,279	2.8
INCOME BEFORE FIXED CHARGE	19,210	34.5		22,767	37.2	28,870	40.0	33,299	41.1
FIXED EXPENSES									
Total	5,897	10.6		6,505	10.6	7,311	10.1	8,746	10.8
NET INCOME	\$13,313	23.9	%	\$16,262	26.6 %	6 \$21,559	29.9 %	\$24,553	30.3 %
% CHANGE IN NOI		22%			33%		14%		14%
Total % Change		84%							



# Valuation as of Year One Based on Historical Cash Flow of Actual Hotel (2004-2007)

#### Valuation Based on Actual Historical Cash Flow

Value: \$269,857,720

(Say): \$269,900,000

Value per Room: \$337,000

Overall Discount Rate: 10.5%

Overall Rate (Historical NOI): 3.7%

Overall Rate (1st Year NOI): 4.9%



# Value of Actual Hotel Assuming Cost of Capital Remains the Same

#### Valuation Based on Actual Historical Cash Flow

#### **Before Deduct:**

Value: \$313,427,275

(Say): \$313,400,000

Value per Room: \$391,750

Overall Discount Rate: 10.5%

Overall Rate (Historical NOI): 6.9%

Overall Rate (1st Year NOI): 7.8%

Appreciation: 16.1%



# Value of Actual Hotel Assuming 100 bp increase in Weighted Cost of Capital

#### Valuation Based on Actual Historical Cash Flow

#### **Before Deduct:**

Value: \$293,281,731

(Say): \$293,300,000

Value per Room: \$366,625

Overall Discount Rate: 11.5%

Overall Rate (Historical NOI): 7.4%

Overall Rate (1st Year NOI): 8.4%

Appreciation: 8.7%



### **Outlook**

- Expect capitalization rates on both historical and projected 1<sup>st</sup> year
   NOI to drift upwards over the next two years
- Interest rates likely to rise, offset in large part by higher leverage
- Values will continue to rise
- Expectation for operating leverage to continue over the near term
- Values expected to continue to rise, but appreciation will be constrained due to rise in cost of capital
- Capital improvement costs will further challenge appreciation levels
- Look out for new supply, especially limited and select service, as well as extended stay.
- Take care when valuing a specific property make sure the capitalization rate and/or discount rate you apply fits the profile of the asset!!



# Please, E-Mail for a Copy of This Presentation or Call Me With Any Questions

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Thank You!



#### Suzanne R. Mellen, MAI, CRE, FRICS, ISHC

Suzanne R. Mellen is Senior Managing Director of Consulting & Valuation for HVS San Francisco and Las Vegas and President of HVS Gaming Services. HVS is a full-service consulting and valuation firm specializing in hotel, gaming, and hospitality properties worldwide. Under Ms. Mellen's leadership, HVS San Francisco and Las Vegas have become renowned for excellence and integrity. Suzanne Mellen's professional experience includes consulting and appraisal positions with HVS New York, Morgan Guaranty Trust, Laventhol & Horwath, and Helmsley-Spear Hospitality Services, Inc. in New York City and Harley-Little Associates in Toronto, Canada. She gained her operational experience at the Plaza Hotel in New York.

Ms. Mellen has a B.S. degree in Hotel Administration from Cornell University and holds the following designations: MAI (Appraisal Institute), CRE (Counselor of Real Estate), FRICS (Fellow of the Royal Institution of Chartered Surveyors), and ISHC (International Society of Hospitality Consultants). She has been appraising hotels, gaming assets and related real estate for over 30 years, has authored numerous articles, and is a frequent lecturer and expert witness on the valuation of hotels, casinos and related issues. She developed the Simultaneous Valuation Formula, a mortgage-equity income capitalization formula for variable income properties, and developed the software for the model.

