

# **April Lodging RevPAR Monitor: Small improvements starting to add up**

Raising 2018 RevPAR est. again by 50bps on a bit more ADR growth

Based on our forward-looking observations in our internal RevPAR data analytics lab combined with conversations with private hotel owners, we saw another month of small improvements in forward RevPAR trends with ADR ticking up slightly. While we are still measuring monthly improvements in basis points, several consecutive months of +20-30 bps improvements has resulted in us taking our 2018 RevPAR forecast for full-service branded US hotels (aka the typical HLT and MAR branded hotel) up by another 50 bps., to +1-3% from +0.5-2.5% previously and from +0-2% two months ago. As we noted in our earnings preview last week, we see a greater than 50% chance HLT and MAR will raise their 2018 RevPAR guidances by 50 bps. and if they do not do it this quarter there is a higher probability they will do it next quarter. For the stocks, this signals continued opportunity to grind higher.

We attribute the small but consistent improvement in forward trends to traveler optimism around the tax cuts and consumer confidence near highest levels in nearly twenty years. Transient leisure continues to be the stand-out performer of the three major customer segments and this continues to bode well for Vacation Ownership, Regional Gaming, and Cruise companies, though with some weather related caveats for regional gaming and Cruise companies.

Introducing our 3Q RevPAR forecasts of +1.5-3.5% for full-service branded US hotels. Early indications for summer leisure travel look relatively good though mid-scale and economy hotels in some second and third tier markets will have a very difficult y/y solar eclipse comp in August.

• 2Q18: Still tracking at +2-4% which we believe is approx. 50-100bps. better than most on the Street are modeling.

As far as the stocks, based on our last several months of RevPAR data analytics observations, we are more positive on the hotel REITS than we were at the same time last year, though still not overly bullish like we are for the leisure focused sectors.

- Given recent forward-looking demand and pricing trends, we continue to have high confidence that numbers will not need to be cut in 2018 and that companies may actually have modest earnings beats and that dividends will be paid (though we're not expecting dividend raises of any size this year).
- We see the major issue/challenge for the hotel owners in 2018 as cost containment. In an environment of property-level operating costs of 2.5%+ vs. 1-3% RevPAR growth, this does not bode well for margin expansion for hotel owners (outside of PK, which has some unique self-help drivers).

C. Patrick Scholes 212-319-3915 patrick.scholes@suntrust.com

Bradford Dalinka 212-303-4190 bradford.dalinka@suntrust.com

Gregory J. Miller 212-303-4198 gregory.j.miller@suntrust.com

Jeffrey Stantial 212-590-0993 jeffrey.stantial@suntrust.com

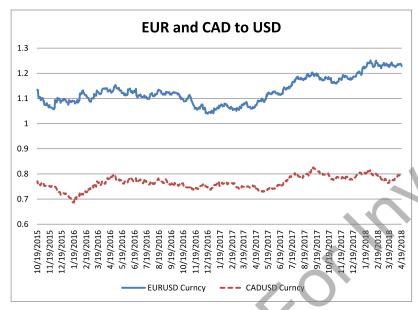
#### What's Inside

An in-depth update to our RevPAR outlook



- A second strike against the hotel REITS at this moment is that the growth in RevPAR is primarily driven by the leisure segment as opposed to the corporate segment (discussed further in this report), the latter being the bread and butter customer for the hotel REITS.
- Of the hotel REITS, PK is our favorite (see January's upgrade for detail). Positives for the REITS this year include:
  - At this level of RevPAR growth dividends are not stretched and barring a negative demand shock we do not attach a high level of risk they will be cut over the next year (LHO excluded). Most hotel REITS dividends are at an attractive 4-6% yield.
  - The bounce-back in San Francisco beginning in 2Q18 and accelerating through 2019 (1Q19 should be amazing). In this cycle, San Francisco has supplanted NYC as the most important market for the hotel REITS. Please see city-specific discussion below for additional detail and company impact.
  - The recent depreciation in the US\$ vs. the Euro and CAD\$ should be a benefit especially for the hotel REITS as they are congregated in major gateway
    markets that are popular for international visitation.

Assuming this trend continues, we would expect to see it to be a small tailwind to RevPAR growth beginning in the second quarter (there is a six month lag as to when changes in FX begin to help/hurt visitation due to the lengthy booking window of international leisure travel).



Source: STRH Research, Bloomberg

Looking at what could derail the lodging C-Corp stock party, the tough y/y comp in 4Q18 due to hurricane demand is a concern, but 4Q18 weakness seems to be isolated to Houston and is not showing up in our Florida checks. In 4Q17 Houston was +41% y/y while Miami was +16%, Orlando was 14% and Tampa was +10%. Houston is clearly tracking negative for 4Q18-1Q19 while major Florida cities are flat to up low single digits; not bad for Florida in our opinion considering the difficult y/y comp and we believe this attests to the strength in leisure travel. We see the biggest risk at the moment to the stocks in our sectors coming from unpredictability in the Oval Office.



## Looking at our most recent forward-looking demand and pricing observations:

#### 2Q18

- April: This month will benefit from the Easter shift. We see this month currently tracking above the high-end of our 2Q18 forecast of +2-4%.
- May: Looks to be a clean comp month, tracking at the low-to-mid-point of the 2Q18 range.
- June: Also looks to be a clean comp month, tracking at the midpoint of the range.

## 3Q18

- July: July 4<sup>th</sup> shifts to a Wednesday this year from a Tuesday last year. We believe this will knock out a little business travel for the week. We see the month tracking at the mid-point of our +1.5-3.5% 3Q RevPAR forecast.
- August: For the top 25 markets the trends look very strong, tracking at or above the high-end of the +1.5-3.5% range. That said, once we look outside of the top 25 markets, RevPAR growth will be more challenged due to a very tough solar eclipse comp.
- **September**: Both Jewish holidays fall in September this year with Rosh Hashanah beginning on Sunday, September 9<sup>th</sup> and Yom Kippur beginning on Tuesday September 18<sup>th</sup>. The timing of these holidays is not so dissimilar to 2017 where Rosh Hashanah began on Wednesday, September 20<sup>th</sup> and Yom Kippur started on Friday, September 29<sup>th</sup>. Subsequently, we do not see September or October of this year being materially impacted by holiday shifts. September is tracking near the mid-point of our +1.5-3.5% 3Q forecast.

	Quar	terly Tracking	
	2Q18E	3Q18E	2018E
	Overall	Overall	Overall forecast
Mar-18	+2-4%	+1.5-3.5%	+1-3%
Feb-18	+2-4%		+0.5-2.5%
Jan-18	+2-4%		+0-2%
Dec-17	+1.5-3.5%		+0-2%
Nov-17			-0.5% to +1.5%
Oct-17			-0.5% to +1.5%
Sep-17			-0.5% to +1.5%
Aug-17			-0.5% to +1.5%
Jul-17			-0.5% to +1.5%
Jun-17			-0.5% to +1.5%

Source: STRH Research

On the good news front, international RevPAR growth continues to be very strong though this is only a benefit to C-Corps and not hotel REITS. Internationally, RevPAR growth in 1Q in Europe in local currency likely came in better than anticipated as did Asia-Pacific:

• Based on STR data, Europe came in at +7.2% in January, +6.6% in February, and +6.4% in March (in local currency) but +20.1%, +18.8%, and +17.6% respectively in US\$.



- Objective Strict of Str
- Asia came in at +8.8% in January, +13.5% in February, and +11.9% in March in US\$.
  - By comparison, HLT expected Asia-Pacific for 2018 to be up in the mid-single digits with China +6-7% and MAR expected overall 1Q international RevPAR in constant currency to grow 3-5% y/y with Asia-Pacific up mid-single digits for the full year.

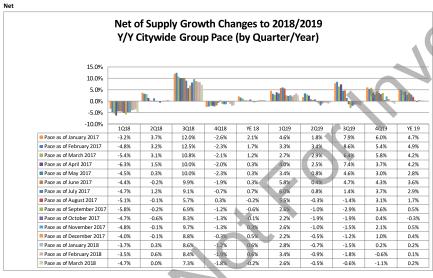
#### **Examining the three customer segments:**

**Leisure travel:** Underlying relative strength is coming from improving wage growth, near-full employment, near record consumer confidence, and continued low gas prices, which translates into moderate growth in the forward-looking hotel demand and pricing trends.

• Our latest pricing and demand observations from our RevPAR data lab show RevPAR growth for Spring and Summer leisure travel tracking approx. +3-4% for US full service hotels (approx. 100 bps. higher for limited service properties as hurricane demand falls under this segment). Early indications point to a strong summer (last week of August excluded for some second and third tier markets that benefited from the solar eclipse last year).

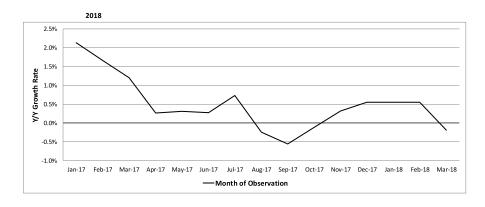
Individual business traveler RevPAR expectations (visibility is about 60 days) picked up slightly over the past six weeks. We expect this segment up 1-2.0% for the year.

Forward-looking Group/convention demand expectations were mixed over the past six weeks (primary data source: TAP):



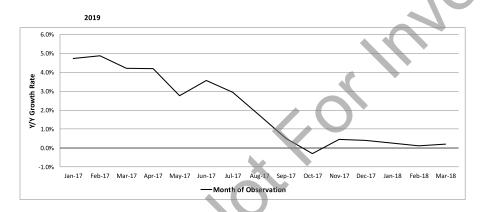
• 2018: Headline group demand is pacing approx. -0.2%. To this we add approx. 2.0 percentage points of rate growth to come up with a projection that same-store Group RevPAR is tracking at approx. +1.5-2.5% for 2018.

## 2018 Group demand pace trend



• 2019: Our net-of-supply group pace for 2019 is +0.2% at the moment. To this we add approx. 1.5 percentage points of rate growth to come up with a projection that same-store Group RevPAR is tracking at approx. +1.0-2.0% for 2019 at the moment. We note that 2019 will show massive gains in SF due to the completion of the Moscone Center renovations.

# 2019 Group demand pace trend





S	egmentation By Co	mpany	
	Transient Corporate	Transient Leisure	Group
REITS			
CHSP	45%	20%	35%
DRH	45%	20%	35%
HST	45%	15%	40%
LHO	55%	20%	25%
PK	45%	20%	35%
RHP	5%	15%	80%
RLJ	55%	25%	20%
SHO	45%	20%	35%
PEB (not covered)	60%	20%	20%
	Transient	Transient	Group

C-corps	Transient Corporate	Transient Leisure	Group
CHH	45%	45%	10%
H	40%	20%	40%
HLT	50%	20%	30%
IHG	45%	40%	15%
MAR	45%	20%	35%
WYN	45%	45%	10%

Source: STRH Research



## **Major Markets:**

The markets we observe with strong hurricane driven bump-ups in forward demand are (not surprisingly) Houston, Orlando, and Miami (easy Zika comps Florida - especially Miami - and seeing demand that would have gone to Key West and hurricane devastated Caribbean islands). We expected these markets to have outsized RevPAR growth rates through early September 2018, followed by difficult comp, most notably in Houston.

Ranking the big six major US markets for the remainder of 2018. Group/meeting bookings is the best way to think about market outperformance/ underperformance for time periods more than 90 days out. A healthy (or weak) convention calendar really drives city performance (with the notable exception of NYC as that is mostly a transient market). Based on initial group/convention bookings, we lump the top six markets into three buckets:

- 1. Strong in 2018: SF
- 2. **Average to slightly above average:** NYC (but see NYC comments above), Chicago (good city-wide performance but partly driven by demand at newly opened hotels and less good for same-store results)
- 3. Weak: Boston, DC, LA

Outside of the big six in North America, Canadian cities such as Montreal, Toronto, and Vancouver continue to look relatively strong, though as y/y comps get tougher and the FX tailwind subsides, the strength is beginning to wane. Unfortunately, very few REITS (only HST in our coverage) own hotels in Canada.



# Additional color on the big six:

#### **Boston:**

2Q: Well below average

3Q: Below average

4Q: Below average

Est exposure	to Boston ma	rket							
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
Boston	16%	16%	7%	19%	9%	2%	0%	2%	15%
Rank	2	2	6	1	5	7	9	7	4
Note: Est. exp	osures include	surroundi	ng areas						
Source: STRH	l Research, Co	mpany da	ta						

## Chicago:

2Q: Below average

3Q: Above average

4Q: Above average

2019 is not looking encouraging.

								-
	Group/co	onventio	n outlool	k for Chi	cago			10
Pace as of	<u>1Q18E</u>	<u> 2Q18E</u>	<u>3Q18E</u>	<u>4Q18E</u>	<u>1Q19E</u>	<u> 2Q19E</u>	3Q19E	4Q19E
Mar-18	44.1%	-1.3%	34.1%	28.4%	-25.3%	-9.9%	-12.1%	-21.3%
Feb-18	42.0%	-0.4%	35.0%	27.2%	-23.9%	-9.8%	-12.9%	-21.1%
Jan-18	41.1%	0.8%	35.5%	26.2%	-25.9%	-7.3%	-14.5%	-20.3%
Dec-17	40.0%	1.9%	36.0%	25.2%	-28.0%	-4.5%	-16.2%	-19.5%
Nov-17	38.0%	2.7%	42.3%	22.9%	-27.2%	-4.7%	-17.0%	-19.2%
Sep-17	34.9%	1.6%	36.7%	25.1%	-27.4%	-2.0%	-20.0%	-19.7%
Aug-17	10.4%	2.1%	33.6%	26.7%	7.3%	5.1%	-21.3%	-17.1%
Jul-17	5.0%	3.0%	61.4%	14.4%	-9.4%	4.9%	-14.7%	-22.1%



Est exposure	to Chicago m	arket							
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
Chicago	10%	12%	4%	7%	0%	6%	0%	4%	7%
Rank	2	1	6	3	8	5	8	6	3
Note: Est. exp	osures include	surroundi	ng areas						
Source: STRH	l Research, Co	mpany da	ta						

# Los Angeles:

2Q: Below average 3Q: Below average

4Q: Below average

	Group/convention outlook for Los Angeles												
Pace as of	1Q18E	2Q18E	3Q18E	4Q18E	1Q19E	2Q19E	3Q19E	4Q19E					
Mar-18	19.4%	-21.3%	-9.3%	3.2%	-30.7%	-1.7%	-3.2%	16.2%					
Feb-18	20.4%	-22.4%	-8.0%	4.3%	-32.9%	-0.1%	-21.1%	12.1%					
Jan-18	18.7%	-25.9%	-6.2%	4.5%	-28.6%	5.8%	-19.2%	12.9%					
Dec-17	16.9%	-29.7%	-4.0%	4.8%	-24.0%	11.9%	-17.3%	13.7%					
Nov-17	16.8%	-29.7%	-1.1%	6.2%	-25.6%	11.9%	-20.6%	22.2%					
Sep-17	13.1%	-32.1%	1.1%	8.1%	-24.0%	13.4%	-18.4%	28.6%					
Aug-17	16.9%	-32.3%	-0.3%	14.9%	-19.8%	13.3%	-19.6%	9.5%					
Jul-17	18.8%	-37.3%	16.5%	12.6%	-19.8%	13.3%	-15.5%	11.1%					

Est exposure	e to LA market								
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
LA	11%	1%	6%	9%	16%	0%	0%	5%	9%
Rank	2	7	5	3	1	8	8	6	3
				- 34					
Note: Est. ex	posures include :	surrounding	gareas						
Source: STR	H Research, Con	npany data							



NYC: Following an approx. +6% 1Q, NYC should see a positive RevPAR growth result for 2018 (we said the same things for 2017: It was very close but the final result was -0.3%). However even a flat-ish result should be considered a success given the massive amount of supply that has and is coming into the market. Helping NYC are new regulations on short-term rentals (Airbnb) which may take some of the new "shadow supply" pressure away. Additionally FX should move from a headwind to tailwind by the summer. That said, we believe it will be difficult for NYC to see anything much above flat RevPAR growth in 2018 as new hotel supply looms large.

• A major headwind to same store RevPAR growth in NYC is several years of compounded 4-6% new supply growth. Per Lodging Econometrics, city-wide new room supply grew 5.1% in 2016, 4.9% in 2017, and is expected to grow 8.3% in 2018, and 3.7% in 2019. Even if some of these expected new hotels never open, it is difficult to envision that NYC will not have continued pressure from above-average supply over the next several years.

Est exposure to	NYC marke	et							
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
NYC	5%	11%	10%	9%	0%	6%	0%	4%	4%
Rank	5	1	2	3	8	4	8	7	6
Note: Est. expo	sures include	surroundi	ng areas						
Source: STRH F	Research, Co	mpany da	ta						

San Francisco: 1Q18 will be the last quarter of Moscone-driven weakness. Specifically, March 2018 will be the month where SF turns the corner.

2Q: Well above average 3Q: Well above average 4Q: Above average

	Group/c	onventio	n outloo	k for San	Francisc	0	3	7
Pace as of	<u>1Q18E</u>	<u> 2Q18E</u>	<u>3Q18E</u>	<u>4Q18E</u>	<u>1Q19E</u>	<u> 2Q19E</u>	<u>3Q19E</u>	4Q19E
Mar-18	-19.0%	29.1%	66.1%	-17.6%	106.6%	54.8%	17.2%	80.1%
Feb-18	-18.9%	30.3%	66.7%	-19.6%	109.1%	55.0%	29.2%	82.7%
Jan-18	-21.2%	28.0%	67.6%	-11.7%	108.8%	51.4%	35.9%	63.8%
Dec-17	-23.7%	25.5%	68.5%	-3.7%	108.6%	47.7%	43.3%	48.5%
Nov-17	-25.0%	10.1%	78.0%	-3.9%	113.2%	47.2%	49.8%	48.2%
Sep-17	-21.9%	37.3%	77.6%	2.3%	121.8%	40.9%	49.1%	64.1%
Aug-17	-17.9%	50.7%	69.4%	6.3%	124.1%	42.5%	49.1%	67.5%
Jul-17	-15.2%	51.4%	70.0%	9.0%	126.0%	49.5%	50.5%	66.1%



Est exposure to	SF market								
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
San Francisco	22%	1%	7%	15%	25%	12%	0%	11%	8%
Rank	2	8	7	3	1	4	9	5	6
Note: Est. exposu	res include :	surroundi	ng areas						
Source: STRH Re	search, Con	npany dat	ta						

# **Washington DC:**

2Q: Average

3Q: Below average

4Q: Below average

	Group/convention outlook for Washington, D.C.												
Pace as of	1Q18E	<u> 2Q18E</u>	<u>3Q18E</u>	4Q18E	<u>1Q19E</u>	<u> 2Q19E</u>	<u>3Q19E</u>	4Q19E					
Mar-18	-21.3%	26.9%	-27.7%	-18.1%	28.9%	-32.0%	27.4%	-8.1%					
Feb-18	-21.0%	24.7%	-24.2%	-18.8%	32.0%	-31.7%	28.7%	-7.9%					
Jan-18	-24.2%	27.4%	-32.3%	-19.6%	34.4%	-33.9%	29.3%	-8.7%					
Dec-17	-27.7%	30.4%	-41.0%	-20.6%	37.1%	-36.1%	30.0%	-9.6%					
Nov-17	-27.2%	31.3%	-40.9%	-20.0%	37.1%	-35.3%	30.5%	-9.6%					
Sep-17	-26.5%	29.4%	-45.7%	-17.6%	36.7%	-36.4%	7.0%	-6.0%					
Aug-17	-26.4%	29.5%	-50.0%	-18.2%	37.7%	-35.7%	10.1%	-4.7%					
Jul-17	-26.0%	28.3%	-46.2%	-18.8%	33.7%	-35.4%	9.7%	-4.7%					

Est exposure	to DC market						4		
	CHSP	DRH	HST	LHO	PEB	PK	RHP	RLJ	SHO
DC	3%	5%	12%	15%	3%	3%	22%	5%	13%
Rank	7	5	4	2	7	7	1	5	3
Note: Est. exp	oosures include	surroundir	ng areas						
Source: STRF	H Research, Col	mpany data	a						
			,						



## **Current expectations for Top 25 Market new supply:**

Supply By Top 25 Markets (Sorted by Pipeline Rooms Growth as %of Census) As of 4Q17							
	Census Rank	YE 2015 Growth Rate	YE 2016 Growth Rate	YE 2017 Growth Rate	2018F Growth Rate	2019F Growth Rate	
Nashvi <b>ll</b> e	24	2.4%	3.7%	4.3%	9.0%	6.0%	
New York City	4	4.8%	5.1%	4.9%	8.3%	3.7%	
Miami	14	3.0%	4.2%	3.4%	3.6%	4.4%	
Seattle	20	3.2%	2.3%	4.3%	6.3%	5.1%	
Denver	16	2.9%	2.6%	5.6%	3.3%	7.7%	
Da <b>l</b> las	8	1.5%	3.2%	5.9%	4.4%	4.1%	
Boston	13	1.7%	4.3%	3.1%	4.7%	2.1%	
Houston	9	3.6%	6.9%	3.9%	3.7%	5.0%	
Detroit	21	1.3%	2.3%	3.1%	3.6%	5.3%	
Los Angeles	6	0.8%	1.0%	4.2%	2.3%	3.6%	
Philadelphia	18	0.3%	1.6%	3.2%	3.8%	3.0%	
San Diego	11	1.2%	1.6%	1.3%	2.4%	3.2%	
Minneapolis	23	2.4%	6.0%	1.8%	4.2%	3.1%	
Atlanta	7	0.7%	1.4%	1.7%	2.5%	3.2%	
Orlando	2	0.8%	1.8%	0.8%	1.2%	1.0%	
Anaheim	12	1.1%	3.3%	1.9%	0.9%	3.3%	
San Francisco	15	0.7%	0.1%	1.8%	1.9%	1.6%	
Phoenix	10	1.4%	1.6%	2.8%	0.8%	4.0%	
Tampa	17	0.7%	1.5%	3.7%	2.4%	2.0%	
Washington, D.C.	5	1.6%	2.0%	2.0%	2.0%	0.9%	
San Antonio	19	0.8%	1.9%	1.4%	2.3%	3.1%	
Saint Louis	27	0.5%	1.3%	2.1%	1.6%	2.1%	
Chicago	3	2.6%	2.5%	2.2%	1.7%	2.0%	
Oahu Island	37	0.5%	1.3%	0.6%	0.0%	0.0%	
Norfolk	26	0.6%	0.0%	1.2%	0.0%	0.9%	
Total Top 25 Markets		1,7%	2,6%	2.9%	3.1%	3,1%	

Source: Lodging Econometrics, STRH Research

Notes: The largest market in the U.S., Las Vegas, is not included in this chart due to its casino orientation, 2018-2019 are forecasts.



## **Companies Mentioned in This Note**

Bluegreen Vacations Corporation (BXG, \$24.04, Buy, C. Patrick Scholes)

Choice Hotels International, Inc. (CHH, \$80.50, Hold, C. Patrick Scholes)

Chesapeake Lodging Trust (CHSP, \$29.48, Hold, C. Patrick Scholes)

DiamondRock Hospitality Company (DRH, \$11.04, Hold, C. Patrick Scholes)

Hyatt Hotels Corporation (H, \$78.11, Hold, C. Patrick Scholes)

Hilton Grand Vacations Inc. (HGV, \$44.15, Buy, Bradford Dalinka)

Hilton Worldwide Holdings Inc. (HLT, \$82.09, Buy, C. Patrick Scholes)

Host Hotels & Resorts, Inc. (HST, \$19.46, Hold, C. Patrick Scholes)

InterContinental Hotels Group PLC (IHG, \$61.98, Hold, C. Patrick Scholes)

LaSalle Hotel Properties (LHO, \$31.16, Hold, C. Patrick Scholes)

Marriott International, Inc. (MAR, \$137.63, Hold, C. Patrick Scholes)

Park Hotels & Resorts Inc. (PK, \$28.68, Buy, C. Patrick Scholes)

Ryman Hospitality Properties, Inc. (RHP, \$79.29, Hold, C. Patrick Scholes)

RLJ Lodging Trust (RLJ, \$20.41, Hold, C. Patrick Scholes)

Sunstone Hotel Investors, Inc. (SHO, \$15.64, Hold, C. Patrick Scholes)

Marriott Vacations Worldwide Corporation (VAC, \$135.91, Hold, C. Patrick Scholes)

Wyndham Worldwide Corporation (WYN, \$115.71, Buy, C. Patrick Scholes)

Airbnb (Private)

Pebblebrook Hotel Trust (PEB, NR)

## **Analyst Certification**

I, C. Patrick Scholes, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject company(ies) and its (their) securities. I also certify that I have not been, am not, and will not be receiving direct or indirect compensation in exchange for expressing the specific recommendation(s) in this report.

I, Bradford Dalinka, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject company(ies) and its (their) securities. I also certify that I have not been, am not, and will not be receiving direct or indirect compensation in exchange for expressing the specific recommendation(s) in this report.

# **Required Disclosures**

Analyst compensation is based upon stock price performance, quality of analysis, communication skills, and the overall revenue and profitability of the firm, including investment banking revenue.

As a matter of policy and practice, the firm prohibits the offering of favorable research, a specific research rating or a specific target price as consideration or inducement for the receipt of business or compensation. In addition, associated persons preparing research reports are prohibited from owning securities in the subject companies.

Charts indicating changes in ratings can be found in recent notes and/or reports at our website or by contacting SunTrust Robinson Humphrey. Please see our disclosures page for more complete information at <a href="https://suntrust.bluematrix.com/sellside/Disclosures.action">https://suntrust.bluematrix.com/sellside/Disclosures.action</a>.



# **STRH Ratings System for Equity Securities**

#### **Dissemination of Research**

SunTrust Robinson Humphrey (STRH) seeks to make all reasonable efforts to provide research reports simultaneously to all eligible clients. Reports are available as published in the restricted access area of our website to all eligible clients who have requested a password. Institutional investors, corporates, and members of the Press may also receive our research via third party vendors including: Thomson Reuters, Bloomberg, FactSet, and S&P Capital IQ. Additional distribution may be done by sales personnel via email, fax, or other electronic means, or regular mail.

For access to third party vendors or our Research website: https://suntrustlibrary.bluematrix.com/client/library.isp

Please email the Research Department at STRHEquityResearchDepartment@SunTrust.com or contact your STRH sales representative.

#### The rating system effective as of Oct. 7, 2016:

#### **STRH Rating System for Equity Securities**

SunTrust Robinson Humphrey (STRH) rates individual equities using a three-tiered system. Each stock is rated relative to the broader market (generally the S&P 500) over the next 12-18 months (unless otherwise indicated).

**Buy (B)** – the stock's total return is expected to outperform the S&P 500 or relevant benchmark over the next 12-18 months (unless otherwise indicated)

**Hold (H)** – the stock's total return is expected to perform in line with the S&P 500 or relevant benchmark over the next 12-18 months (unless otherwise indicated)

**Sell (S)** – the stock's total return is expected to underperform the S&P 500 or relevant benchmark over the next 12-18 months (unless otherwise indicated)

Not Rated (NR) - STRH does not have an investment rating or opinion on the stock

**Coverage Suspended (CS)** – indicates that STRH's rating and/or target price have been temporarily suspended due to applicable regulations and/or STRH Management discretion. The previously published rating and target price should not be relied upon

STRH analysts have a price target on the stocks that they cover, unless otherwise indicated. The price target represents that analyst's expectation of where the stock will trade in the next 12-18 months (unless otherwise indicated). If an analyst believes that there are insufficient valuation drivers and/or investment catalysts to derive a positive or negative investment view, they may elect with the approval of STRH Research Management not to assign a target price; likewise certain stocks that trade under \$5 may exhibit volatility whereby assigning a price target would be unhelpful to making an investment decision. As such, with Research Management's approval, an analyst may refrain from assigning a target to a sub-\$5 stock.

## **Legend for Rating and Price Target History Charts:**

B = Buy

H = Hold

S = Sell

D = Drop Coverage

CS = Coverage Suspended

NR = Not Rated

I = Initiate Coverage

T = Transfer Coverage



#### The prior rating system until Oct. 7, 2016:

3 designations based on total returns\* within a 12-month period\*\*

- · Buy total return ≥ 15% (10% for low-Beta securities)\*\*\*
- · Reduce total return ≤ negative 10% (5% for low Beta securities)
- · Neutral total return is within the bounds above
- · NR NOT RATED, STRH does not provide equity research coverage
- · CS Coverage Suspended

\*Total return (price appreciation + dividends); \*\*Price targets are within a 12-month period, unless otherwise noted; \*\*\*Low Beta defined as securities with an average Beta of 0.8 or less, using Bloomberg's 5-year average

SunTrust Robinson Humphrey ratings distribution (as of 04/25/2018):

Coverage Univer	se		Investment Banking Clients Past 12 Months				
Rating	Count	Percent	Rating	Count	Percent		
Buy	456	64.04%	Buy	140	30.70%		
Hold/Neutral	253	35.53%	Hold/Neutral	43	17.00%		
Sell/Reduce	3	0.42%	Sell/Reduce	1	33.33%		

## **Other Disclosures**

Information contained herein has been derived from sources believed to be reliable but is not guaranteed as to accuracy and does not purport to be a complete analysis of the security, company or industry involved. This report is not to be construed as an offer to sell or a solicitation of an offer to buy any security. SunTrust Robinson Humphrey, Inc. and/or its officers or employees may have positions in any securities, options, rights or warrants. The firm and/or associated persons may sell to or buy from customers on a principal basis. Investors may be prohibited in certain states from purchasing some over-the-counter securities mentioned herein. Opinions expressed are subject to change without notice. The information herein is for persons residing in the United States only and is not intended for any person in any other jurisdiction.

SunTrust Robinson Humphrey, Inc.'s research is provided to and intended for use by Institutional Accounts as defined in FINRA Rule 4512(c). The term "Institutional Account" shall mean the account of: (1) a bank, savings and loan association, insurance company or registered investment company; (2) an investment adviser registered either with the SEC under Section 203 of the Investment Advisers Act or with a state securities commission (or any agency or office performing like functions); or (3) any other person (whether a natural person, corporation, partnership, trust or otherwise) with total assets of at least \$50 million.

SunTrust Robinson Humphrey, Inc. is a registered broker-dealer and a member of FINRA and SIPC. It is a service mark of SunTrust Banks, Inc. SunTrust Robinson Humphrey, Inc. is owned by SunTrust Banks, Inc. ("SunTrust") and affiliated with SunTrust Investment Services, Inc. Despite this affiliation, securities recommended, offered, sold by, or held at SunTrust Robinson Humphrey, Inc. and at SunTrust Investment Services, Inc. (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including SunTrust Bank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. SunTrust Bank may have a lending relationship with companies mentioned herein.

Please see our Disclosure Database to search by ticker or company name for the current required disclosures, Link: https://suntrust.bluematrix.com/sellside/Disclosures.action



Please visit the STRH equity research library for current reports and the analyst roster with contact information, Link (password protected): STRH RESEARCH LIBRARY

SunTrust Robinson Humphrey, Inc., member FINRA and SIPC. SunTrust and SunTrust Robinson Humphrey are service marks of SunTrust Banks, Inc.

If you no longer wish to receive this type of communication, please request removal by sending an email to STRHEquityResearchDepartment@SunTrust.com

© SunTrust Robinson Humphrey, Inc. 2018. All rights reserved. Reproduction or quotation in whole or part without permission is forbidden.

**ADDITIONAL INFORMATION IS AVAILABLE** at our website, **www.suntrustrh.com**, or by writing to: SunTrust Robinson Humphrey, Research Department, 3333 Peachtree Road N.E., Atlanta, GA 30326-1070