

Hotels - Hong Kong/China

YA 2024: Cyclical slowdown vs. structural drivers; Reiterate Buy on HTHT/ATAT

Estimate Change

Key concern: Will RevPAR slow down and by how much?

Macro weakness and potential RevPAR slowdown remains to be the biggest concern for investors. 2H23 RevPAR has been holding up better than feared but we believe investors need to see a few more quarters of resilient RevPAR before re-gaining confidence to the sector. We forecast blended RevPAR growth for HTHT to be flat YoY in 2024E, as we expect mix/product upgrades and market share gains to largely offset the industry RevPAR decline caused by the easing of pent-up leisure travel demand and higher hotel supply. In terms of RevPAR sensitivity for HTHT, 1% change in RevPAR would lead to 1.9% EBITDA/2.3% earnings change. We forecast ATAT's RevPAR growth in 2024E to be flat as well. There is no mix upgrade benefit but we believe ATAT also has less exposure to leisure travel which could decline off a high base in 2023.

RevPAR aside, what is the investment story for hotels?

Given the focus on RevPAR risks, we believe there are several structural drivers that the market may not fully appreciate now. We summarize as below:

#1) Asset-lite model with strong FCF

Leading hotel operators have gradually evolved from asset-heavy L/O-focused model to asset-lite F/M-focused model with strong FCF generation. Given the strong FCF, there is more potential for them to increase capital return. For example, HTHT recently announced a maiden dividend policy of 45%.

#2) Visible unit growth potential for leading operators

We believe leading hotel operators have visible unit growth potential through low-tier cities penetration and consolidation by branded operators. While the market is increasingly looking for firms with foreign expansion potential, we believe leading operators still have room to grow domestically as the long development horizon for physical hotels suggests a slower penetration nationwide in the past.

#3) More stable industry supply growth

We estimate nominal supply growth at 6-7% in 2024, which would be below the 8-11% average seen during the 2017-19 cycle, based on Inntie industry data and company data forecast. We believe the high supply growth due to low entry barrier in the past amplifies the RevPAR cycle. As we expect supply growth to be more stable going forward given a higher base and higher entry barrier for mid to upscale hotels, we expect RevPAR volatility to decline over time.

Increasing divergence between the best & the average

We reiterate Buy on HTHT and ATAT given their better than class execution and growth prospect. We have seen increasing divergence between the best (HTHT/ATAT) and the average branded operators in the hotel space and we expect this trend to continue.

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 16 to 20. Analyst Certification on page 15. Price Objective Basis/Risk on page 15.

Timestamp: 10 January 2024 03:30PM EST

11 January 2024

Equity Hong Kong/China Hotels

Ronald Leung, CFA >> Research Analyst Merrill Lynch (Hong Kong) +852 3508 3728 ronald.leung@bofa.com

Yoyo Pang >> Research Analyst Merrill Lynch (Hong Kong) +852 3508 7607 yoyo.pang@bofa.com

Candice Zhang >> Research Analyst Merrill Lynch (Hong Kong) +852 3508 7399 candice.zhang@bofa.com

Exhibit 1: Rating and PO summary

Prefer HTHT and ATAT

	Rating	PO	Upside Pot'l
HTHT	Buy	51.0	63%
ATAT	Buy	25.0	47%

Source: BofA Global Research estimates, company

report

BofA GLOBAL RESEARCH

RevPAR: Revenue per available room

L/O: leased and operated

F/M: franchised and manachised

HSD: high-single-digit

HTHT: H World

BTG: hotels

ATAT: Atour Lifestyle

FCF: Free cash flow

Key concern: Will RevPAR slowdown and by how much

Macro weakness and potential RevPAR slowdown remains to be the biggest concern for investors. 2H23 RevPAR has been holding up better than feared but we believe investors need to see a few more quarters of resilient RevPAR before re-gaining confidence to the sector. We forecast blended RevPAR growth for HTHT to be flat YoY in 2024E, as we expect mix/product upgrades and market share gains to largely offset the industry RevPAR decline caused by the easing of pent-up leisure travel demand and higher hotel supply. In terms of RevPAR sensitivity for HTHT, 1% change in RevPAR would lead to 1.9% EBITDA/2.3% earnings change. We forecast ATAT's RevPAR growth in 2024E to be flat as well. There is no mix upgrade benefit but we believe ATAT also has less exposure to leisure travel which could decline off a high base in 2023.

Exhibit 2: Summary of RevPAR assumptions

We forecast flat RevPAR growth in 2024

	2023 recovery	2024 YoY
HTHT	121%	0%
ATAT	115%	0%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

HTHT: Forecast RevPAR to be flat in 2024E

We forecast HTHT's RevPAR to be flat as we expect company-specific drivers such as mix/product upgrades and market share gains to largely offset the industry RevPAR decline caused by the easing of pent-up leisure travel demand and increasing hotel supply.

Company-specific drivers

- Mix and product upgrades
- Penetration into low-tier cities

Industry drivers

- Ease of pent-up leisure travel demand
- Steady business travel recovery
- Increasing inbound visitations
- Increase in hotel supply

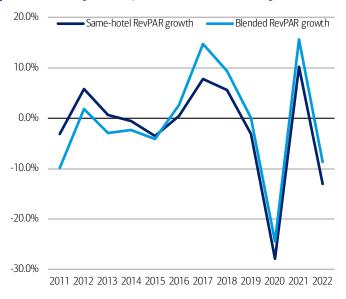
Company-specific drivers

One of the methods to estimate the RevPAR impact of company-specific drivers of RevPAR growth for HTHT is to calculate the difference between blended RevPAR growth and same-hotel RevPAR growth. The difference would be the RevPAR impact of new hotels, including mix upgrades, product upgrades, and increasing mix of low-tier cities. In 2016-22, the difference between same-hotel and blended RevPAR growth was 2.3-6.9%. In our view, the impact of such a difference would gradually decline over time as the hotel inventory growth would slow down off a higher base.



Exhibit 3: HTHT's annual blended and same-hotel RevPAR growth

Blended RevPAR growth outperformed same-hotel RevPAR growth

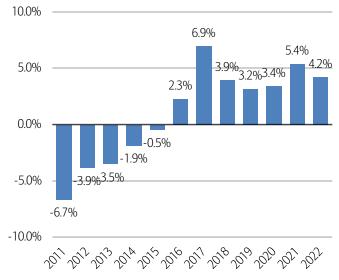


Source: Company data

BofA GLOBAL RESEARCH

Exhibit 4: HTHT's blended RevPAR growth minus same-hotel RevPAR growth

The outperformance of blended RevPAR growth over same-hotel RevPAR growth was due to product and mix upgrades



Source: Company data

BofA GLOBAL RESEARCH

Mix upgrade (to mid and upscale hotels)

We define mix upgrade as the increasing mix of mid to upscale hotels among HTHT's portfolio. The mix of mid and upscale hotels increased from 8% in 2013 to 41% in 2023. As mid and upscale hotels RevPAR is about 60% higher than economy hotels, an increase in the mix of mid and upscale hotels mix by 3% in 2022 would result in an estimated 2% RevPAR uplift impact.

Exhibit 5: Estimated impact of mix upgrade

We estimate the impact of mix upgrade to mid and upscale hotels to be 2.0% in 2022

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Number of hotels										
Economy	1,309	1,819	2,453	2,813	2,974	2,891	3,485	4,362	4,772	4,930
Mid and upscale hotels	116	176	310	456	772	1,338	2,133	2,307	2,934	3,481
Total	1,425	1,995	2,763	3,269	3,746	4,229	5,618	6,669	7,706	8,411
% mix										
Economy	92%	91%	89%	86%	79%	68%	62%	65%	62%	59%
Mid and upscale hotels	8%	9%	11%	14%	21%	32%	38%	35%	38%	41%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Change in mid and upscale mix (i)		1%	2%	3%	7%	11%	6%	-3%	3%	3%
Same-hotel RevPAR										
Economy		164	152	146	158	168	164	121	138	123
Mid and upscale hotels		275	246	246	264	262	261	198	221	196
Total		169	159	158	173	189	194	148	172	156
Differences in RevPAR (ii)		68%	62%	68%	67%	56%	59%	64%	60%	59%
Estimated mix upgrade impact (i) * (ii)			1.5%	1.9%	4.5%	6.2%	3.7%	-2.1%	2.1%	2.0%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Product upgrade

Product upgrade is one of the key RevPAR growth drivers for the economy and mid/upscale segments. HTHT achieved product upgrades through two initiatives in the past: i) removing low-quality hotels such as economy soft/Hanting 1.0 from the system through closures or conversions, and ii) launching of new product versions to replace older versions. For example, it launched its first Hanting 3.5 in 2020 to drive RevPAR growth for the product. In the midscale segment, there were also various product upgrades. For example, it launched Orange 3.0 and Ji hotel 5.0 this year. Orange 3.0 product has been successful as it has received good response. Since the opening of first



Orange 3.0 in Tianjin in May and national promotion of the product since July, it has recorded 100+ hotel sign-ups by Nov.

We estimate the impact of closures for economy soft/Hanting 1.0 hotel in 2020-23 to be 1.8-2.1% to overall RevPAR.

In terms of benefits from new product versions, it is hard to estimate because the company does not disclose the number of different versions of hotels. If we estimate the net hotel growth to be 10% and half of that would be new product versions, the mix of new production versions can increase by 5%. If the new products' RevPAR is 20% above the average, it could lead to 0.4% RevPAR uplift.

Exhibit 6: Estimated impact of removal of low quality economy soft/Hanting 1.0 hotels

We estimate the positive impact from product upgrades to be 1.8-2.1% in 2021-23 YTD

	Calculation	2020	2021	2022	3Q23
Mix as % of total HTHT's hotel					
Economy soft + Hanting 1.0	(i)	25.9%	19.3%	13.4%	8.2%
Economy hotels as % of total	(ii)	65%	62%	59%	55%
Mix as % of overall economy segment					
Economy soft + Hanting 1.0	(iii) = (i) / (iii)	39.6%	31.2%	22.9%	14.8%
Change in mix (YoY)					
Economy soft + Hanting 1.0	(iv)		-8.4%	-8.3%	-8.0%
Estimated RevPAR differences					
Economy soft/Hanting 1.0 vs. average economy segment	(v)		-40%	-40%	-40%
Estimated RevPAR impact within the economy					
segment	(vi) = (v) * (iv)		3.4%	3.3%	3.2%
	(vii) = (vi) *				
Estimated RevPAR impact to overall RevPAR	(ii)		2.1%	1.9%	1.8%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Increasing mix of low-tier cities

The increasing mix of low-tier cities hotels for HTHT would be a drag to the overall RevPAR growth. HTHT's tier-1 hotel mix declined from 21% in 2020 to 18% in 3Q23, while tier-3 or below hotels mix increased from 38% in 2020 to 40% in 3Q23. If we assume tier-3 or below cities' RevPAR to be 80% of tier-1/2 level, the RevPAR drag is estimated to be 0.2-0.9% in 2021-23 (YTD to Sep).

Exhibit 7: Estimated impact of increasing mix of low tier cities

We estimate the drag of increasing mix of low-tier cities to be 0.4-0.9% in 2021-23 YTD

	2020	2021	2022	3Q23
Tier 1 and 2	63%	63%	62%	60%
Tier 3 and below	38%	37%	38%	40%
Tier 1 & 2 (set 100 as base for Tier 1&2)	100	100	100	100
Tier 3 and below	80	80	80	80
Blended RevPAR (set 100 as base for Tier 1 and 2)	93.4	92.6	92.4	92.0
Impact of RevPAR drag		-0.9%	-0.2%	-0.4%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Industry drivers

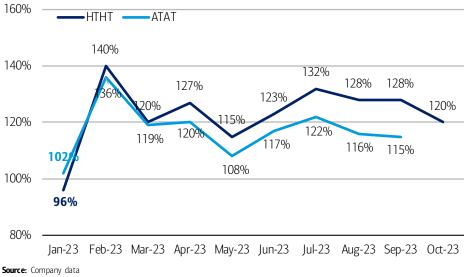
Lapse of pent-up leisure travel demand

We believe there was a release of pent-up leisure travel demand in 2023. This can be shown by the strong RevPAR recovery during the travel season, including May/Oct Golden Weeks and July/Aug summer holidays. For HTHT, RevPAR recovery was at close to 130% during the long holidays. If we assume the pent-up leisure travel demand impact to be 10% of RevPAR (130% vs. the normal level of 120%) and there are an estimated three months of impact, the absence of pent-up leisure travel demand in 2024 could lead to 2.5% RevPAR decline.



Exhibit 8: HTHT/ATAT monthly RevPAR trends

Stronger RevPAR recovery during long holidays (Golden Weeks, summer holidays)



BofA GLOBAL RESEARCH

Improving business travel and increasing inbound visitations

We believe business travel recovery has been lagging leisure travel in 2023. This can be demonstrated by the following. i) Tier-1 cities such as Beijing/Shanghai RevPAR recovery was slower than national average. We believe Beijing and Shanghai are likely to have higher business mix. ii) HTHT's occupancy still has not fully recovered to 2019 level. As occupancy is likely to be close to 100% during the leisure travel season, the occupancy gap is likely to be due to slower business recovery.

In our view, there could be room for further recovery potential in business travel in 2024, off from a relatively low base in 2023. Increasing inbound visitations could be positive to business travel, as the scale of meetings, incentives, conferences, and exhibitions (MICE) events would also depend on the number of inbound travellers. Although inbound business travelers are more likely to stay at high-end hotels, we believe there could be increasing demand for mid- to high-end hotels given budgets constraints.

HK visitations - incremental driver

In 2023, there has been increasing popularity among Hong Kong citizens to travel to Guangdong for leisure and consumption, particularly during holidays. We attribute the popularity to better transport infrastructure (high-speed rail available since 2018), favorable FX, and attractive prices for similar level of quality/services. The increasing HK visitations to Guangdong could also be an incremental positive to hotel RevPAR in the southeast region of China. Based on our checks, HK visitation is a key customer contributor to certain hotels in Guangdong province during weekends/holidays.



Exhibit 9: RevPAR recovery for China and Beijing/Shanghai

Beijing and Shanghai RevPARs have been recovering slower than the national average $\,$

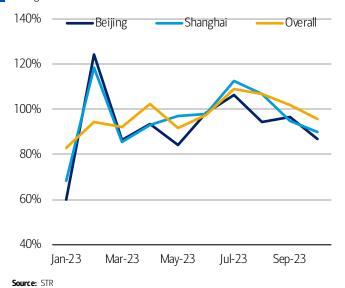
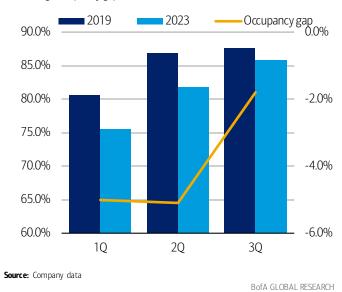


Exhibit 10: HTHT's quarterly occupancy in 2019 and 2023

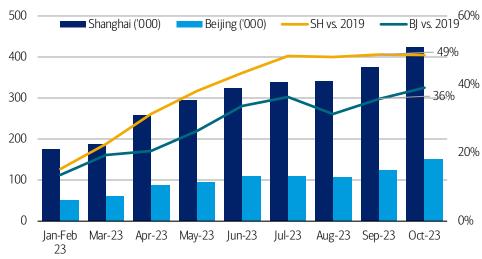
Narrowing occupancy gap in 3Q23 vs. 1Q/2Q23



BofA GLOBAL RESEARCH

Exhibit 11: Inbound visitations to Shanghai and Beijing

Inbound visitations to Shanghai and Beijing have been recovering



Source: Shanghai and Beijing government

BofA GLOBAL RESEARCH

RevPAR sensitivity to earnings

In terms of RevPAR sensitivity, 1% change in RevPAR would lead to 1.9%/1.4% EBITDA and 2.3%/1.4% earnings change for HTHT/ATAT, if we assume 75% EBITDA flow-through from revenue change (Exhibit 12). In the past decade, the lowest blended/same-hotel RevPAR for HTHT was 3.6/4.1% decline in 2015. If we assume HTHT's RevPAR to be down at 4% YoY in a negative case scenario (similar to 2015 level), HTHT's EBITDA/net income would be revised down 8%/10%.



Exhibit 12: Earnings sensitivity analysis to RevPAR changes

We estimate 1.9%/1.4% decline in HTHT/ATAT's EBITDA for 1% decline in RevPAR

		Base case			1% F	RevPAR d	ecline		% chang	e	Flow	-through
	Overall revenue	Domestic hotel revenue	EBITDA	Net profit	Revenue	EBITDA	Net profit	Revenue	EBITDA	Net profit	EBITDA	Net profit
HTHT	23,201	18,323	7,287	4,576	(183)	(137)	(103)	-0.8%	-1.9%	-2.3%	75.0%	56.3%
ATAT	5,301	2,913	1,606	1,183	(29)	(22)	(16)	-0.5%	-1.4%	-1.4%	75.0%	56.3%

Source: BofA Global Research estimates, company report

Note: Domestic hotel revenue: It refers to the estimated China domestic hotel revenue which would be affected by RevPAR changes.

BofA GLOBAL RESEARCH

Industry supply outlook

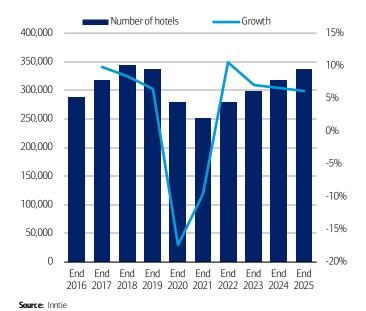
We estimate overall nominal supply growth at 6-7%, which would be well below the 8-11% average over 2017-19, based on the following assumptions: i) Inntie data: according to Inntie, the total number of hotels was down 17% from 340k in 2019 to 280k in 2022. The \sim 60k reduction in hotels is expected to gradually return to the market in three years, implying on average 7% growth in 2023-25; ii) company data: the major five branded operators are expected to post 12% growth in hotel inventory in 2024. If we assume 50% of the growth is from conversions from existing hotels, the nominal growth in hotel supply is estimated to be 6-7%. Yet, the impact of hotel supply to branded operators' RevPAR could be less due to market-share gains from a competitive hotel set.

Inntie supply growth

According to Inntie, the total number of hotel supply (for hotels with 15+ rooms) was down 17% from 340k in 2019 to 280k in 2022. The \sim 60k reduction in hotels is expected to gradually return to the market in three years, implying on average 7% growth in 2023-25 vs. 8%/11% CAGR for the number of hotels/hotel rooms in 2017-19.

Exhibit 13: Inntie hotel growth (Number of hotels)

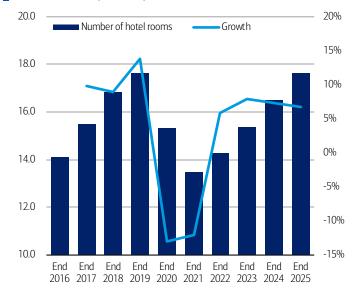
Hotels are expected to see 6.6% CAGR in 2022-25 (3-year)



BofA GLOBAL RESEARCH

Exhibit 14: Inntie hotel growth (Number of rooms)

Hotel rooms are expected to post 7.3% CAGR in 2022-25



Source: Inntie

*Note: Estimates for 2023-2025

BofA GLOBAL RESEARCH

Operators' supply growth

*Note: Estimates for 2023-2025

Major branded operators' supply growth has been slowing down since the COVID outbreak in 2020 from 17-26% in 2017-19. If we assume supply growth to slow down to low teens level in 2024 and 50% of the new hotel supply for the branded operators to be conversion of existing hotels, the nominal hotel supply growth for the industry would be 6-7% in 2024.



Exhibit 15: Major branded operators supply growth

The supply growth of major operators has been slowing down

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E
#hotels												
Shanghai Jinjiang (Domestic)	2,647	3,262	4,030	4,647	5,395	6,147	7,221	8,138	9,355	10,335		
H World (Legacy Huazhu)	1,425	1,995	2,763	3,269	3,746	4,230	5,618	6,669	7,706	8,411	9,323	10,903
BTG	2,313	2,764	3,095	3,402	3,712	4,049	4,450	4,895	5,916	5,983		
Greentree	993	1,219	1,521	1,712	2,289	2,757	3,957	4,340	4,659	4,059		
Dossen 口呈集口		257	453	733	906	1,238	1,770	2,153	2,235	2,372	2,672	2,972
Sunmei 尚美数智	301	428	822	1,107	1,870	2,467	3,267	3,835	3,979	4,145	4,445	4,745
Atour			51	104	159	275	420	570	745	932	1,198	1,538
Total	7,679	9,925	12,735	14,974	18,077	21,163	26,703	30,600	34,595	36,237	39,794	
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E
#hotels YoY growth	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E
#hotels YoY growth Shanghai Jinjiang (Domestic)	2013	2014 23%	2015 24%	2016 15%	2017 16%	2018 14%	2019 17%	2020 13%	2021 15%	2022 10%	2023E	2024E
	2013										2023E	2024E 17%
Shanghai Jinjiang (Domestic)	2013	23%	24%	15%	16%	14%	17%	13%	15%	10%		
Shanghai Jinjiang (Domestic) H World (Legacy Huazhu)	2013	23% 40%	24% 38%	15% 18%	16% 15%	14% 13%	17% 33%	13% 19%	15% 16%	10%		
Shanghai Jinjiang (Domestic) H World (Legacy Huazhu) BTG	2013	23% 40% 19%	24% 38% 12%	15% 18% 10%	16% 15% 9%	14% 13% 9%	17% 33% 10%	13% 19% 10%	15% 16% 21%	10% 9% 1%		
Shanghai Jinjiang (Domestic) H World (Legacy Huazhu) BTG Greentree	2013	23% 40% 19%	24% 38% 12% 25%	15% 18% 10% 13%	16% 15% 9% 34%	14% 13% 9% 20%	17% 33% 10% 44%	13% 19% 10% 10%	15% 16% 21% 7%	10% 9% 1% -13%	11%	17%
Shanghai Jinjiang (Domestic) H World (Legacy Huazhu) BTG Greentree Dossen ロ星集口	2013	23% 40% 19% 23%	24% 38% 12% 25% 76%	15% 18% 10% 13% 62%	16% 15% 9% 34% 24%	14% 13% 9% 20% 37%	17% 33% 10% 44% 43%	13% 19% 10% 10% 22%	15% 16% 21% 7% 4%	10% 9% 1% -13% 6%	11%	17% 11%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Supply growth will be structurally slower, less volatile, and more predictable

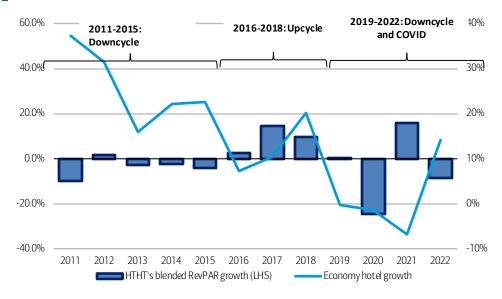
In our view, the industry supply growth will become lower in absolute growth terms over time due to i) slower growth for the branded operators on higher base, ii) higher entry barrier and development horizon for mid to upscale hotels, and iii) slower macro growth suggesting more rationale behavior by franchisees.

We believe the high volatility of supply growth also amplified the RevPAR cycle in the past, given the low entry barrier of new supply and the lagged nature of supply growth to demand. After 2010, when RevPAR was lifted by the demand to the World Expo, there was a five-year downcycle between 2011 and 2015, which we attribute to rapid supply growth despite solid demand/GDP growth. As supply growth decelerated in 2016, it underpinned a RevPAR upcycle in 2H16-2018 before a supply acceleration in 2019 – one of the drivers – caused a RevPAR slowdown again. The RevPAR downcycle during the COVID disruption of 2020-22 led to supply reduction, underpinning a fast recovery of RevPAR in 2023. In our view, supply growth will become more stable and likely maintain at low-single digit to mid-single digit level going forward. Given lower volatility and lower absolute supply growth, we believe RevPAR would be more correlated to demand, and in turn to GDP and inflation. This would offer higher RevPAR and earnings visibility for the sector longer term.



Exhibit 16: HTHT's blended RevPAR growth and economy hotel growth

Supply growth volatility magnifies the RevPAR cycle*



Source: Inntie, Company data

*Note: We use economy hotel growth data as it has a longer history. Mid and upscale hotel growth mainly started from 2016

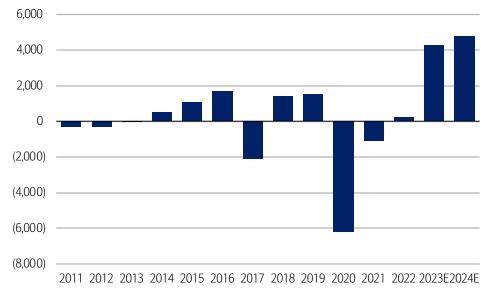
BofA GLOBAL RESEARCH

Asset-lite model with strong FCF generation and capitalreturn potential

We believe major branded operators in China have been gradually evolving from an asset-heavy leased and operated (L/O) model to an asset-lite franchised and manachised (F/M) model with strong FCF generation. Given the strong cash flow generation, we believe this would enhance the operators to return capital to shareholders, e.g., HTHT announced its maiden dividend policy of paying out 45% of its net profit in Nov'23.

Exhibit 17: HTHT's FCF

We expect substantial improvement in HTHT's FCF, thanks to transformation to an asset-lite model



Source: BofA Global Research estimates, company report



Exhibit 18: HTHT hotel mix by L/O & F/M
HTHT has an increasing mix from F&M hotels in terms of hotel properties and revenue

	2015	2016	2017	2018	2019	2020	2021	2022	2023
#Hotel properties									
L&0	616	624	671	699	688	681	662	623	608
F&M	2,147	2,645	3,075	3,531	4,930	5,988	7,044	7,788	8,715
Total	2,763	3,269	3,746	4,230	5,618	6,669	7,706	8,411	9,323
%mix									
L&0	22%	19%	18%	17%	12%	10%	9%	7%	7%
F&M	78%	81%	82%	83%	88%	90%	91%	93%	93%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%
Revenue (mn									
RMB)									
L&0	4,987	5,212	6,338	7,470	7,718	5,439	6,674	6,062	9,396
F&M	1,124	1,411	1,851	2,527	3,342	3,093	4,342	4,324	7,445
Total	6,111	6,624	8,189	9,997	11,060	8,532	11,016	10,386	16,841
%mix									
L&0	82%	79%	77%	75%	70%	64%	61%	58%	56%
F&M	18%	21%	23%	25%	30%	36%	39%	42%	44%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%

Source: BofA Global Research, company report

Visible unit growth outlook

We believe leading branded operators have visible unit growth potential through low-tier cities penetration and consolidation by branded operators. While the market is increasingly looking for companies with foreign market expansion potential, we believe leading hotel operators still have substantial room to grow domestically as the long development horizon for physical hotels implies a slower penetration nationwide than in the past.

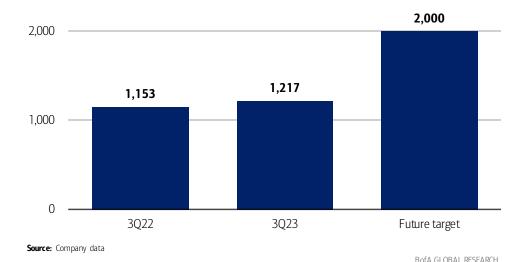
Long investment horizon for hotel industry

One of the major differences for the hotel industry compared with other consumer industry is its capex-heavy nature and long investment horizon. This would mean that the penetration of leading branded operators to the vast China market is likely to take longer. HTHT was found on 2003. Yet, after 20 years of development, its membership base is only at 199mn, representing 14% of China population. Its penetration is to 1,217 cities, which is at 60% of its future cities target of 2,000.

Exhibit 19: HTHT's city coverage (hotels in operation and pipeline)

We see room for further penetration for HTHT

3.000



Delicate balance among corporate, franchisee, and consumer interests

As hotels development requires heavy capex, hotel companies have to rely on franchisees for rapid penetration. As such, the industry has to find a model where consumers find value for the product but the franchisees can be profitable as well. It has to find a product which has the "just-right" level of offerings but not too much and too less. We believe hotel is a complex consumer product. It takes several trials and errors to find the right balance. As such, it is not easy for any new competitor to enter the market with meaningful market-share gains in the short term.



Earnings revisions in 2023

HTHT and ATAT are one of the few HK/US-listed stocks in the consumer space with earnings upgrades rather than downgrades in 2023. These imply a 27%/6% multiple compression in 2024E P/E. In our view, this also reflects the potential RevPAR decline concerns. As such, we see 20-30% upside potential just from rollover to 2025, as long as there is no earnings cut and further de-rating.

Exhibit 20: Earnings revision by major consumer companies

HTHT and ATAT are one of the few consumer companies with earnings upgrades in 2023

		Price (i	n local curr	ency)	Consensi	ıs 2024E EP	S (RMB)	2	2024E P/E	
Company Hotel	Ticker	Begin-2023	Current	%revision	Begin-2023	Current	%revision	Begin-2023	Current	%revision
H World	HTHT US	42.90	31.24	-27%	12.7	14.1	11%	22.9	15.8	-31%
Atour (End-1Q23)	ATAT US	19.33	16.99	-12%	8.0	8.1	2%	16.5	14.9	-10%
Jinjiang	600754 CH	57.77	29.94	-48%	2.3	1.6	-32%	25.0	18.9	-24%
BTG	600258 CH	24.21	15.20	-37%	1.0	0.9	-14%	23.7	17.3	-27%
Shangri-la	69 HK	6.60	5.10	-23%	0.4	0.5	22%	14.2	9.3	-34%
Sportswear										
Anta	2020 HK	104.20	71.00	-32%	4.3	4.1	-6%	21.3	16.0	-25%
Li Ning	2331 HK	69.35	17.68	-75%	2.7	1.6	-39%	22.8	9.8	-57%
Restaurant										
Haidilao	6862 HK	22.80	14.44	-37%	0.6	0.9	40%	32.4	15.1	-53%
YUMC	YUMC US	56.42	39.16	-31%	15.1	15.3	1%	25.4	18.2	-28%
Baijiu										
Kweichow Moutai	600519 CH	1,730.01	1,641.50	-5%	66.4	69.6	5%	26.1	23.6	-9%
Wuliangye	000858 CH	178.20	128.80	-28%	8.8	8.9	1%	20.3	14.5	-29%
Jiangsu Yanghe	002304 CH	157.13	100.25	-36%	8.5	8.2	-4%	18.5	12.3	-34%
Luzhou Laojiao	000568 CH	219.86	160.51	-27%	9.8	10.7	10%	22.5	15.0	-33%
Beer										
BUD APAC	1876 HK	24.95	13.12	-47%	0.7	0.6	-6%	32.3	18.7	-42%
CR Beer	291 HK	54.95	30.60	-44%	1.9	1.9	0%	25.6	14.7	-42%
Tsingtao Brew-H	168 HK	78.10	49.90	-36%	3.2	3.7	17%	21.7	12.3	-44%
Food & Beverage										
Nongfu Spring	9633 HK	43.65	40.75	-7%	1.0	1.1	12%	39.6	34.0	-14%
Tingyi	322 HK	14.02	8.64	-38%	0.8	0.7	-9%	16.0	11.2	-30%
Haitian Flavouring	603288 CH	64.74	34.82	-46%	1.6	1.3	-22%	40.5	27.9	-31%
Shuanghui	000895 CH	25.71	26.88	5%	2.0	1.8	-8%	13.1	14.9	14%
Fuling Zhacai	002507 CH	19.66	13.43	-32%	1.4	0.8	-42%	14.1	16.8	19%
Yili	600887 CH	30.70	26.57	-13%	2.1	1.8	-10%	15.0	14.4	-4%
OEM										
Shenzhou	2313 HK	88.65	75.45	-15%	4.0	3.4	-16%	19.4	20.4	5%
Household Appliances										
Haier Smart Home	600690 CH	24.37	21.49	-12%	2.2	2.0	-5%	11.3	10.5	-7%
Gree	000651 CH	32.50	33.67	4%	5.4	5.3	-3%	6.0	6.4	6%
Average				-28%			-4%			-23%

Source: BofA Global Research, Visible Alpha



Increasing divergence between the best and the average

As macro growth slows, there will unlikely be more "rising tide to lift all boats" in the China hotel industry, like what happened in the 2016-2018 upcycle when strong RevPAR growth meant decent profitability for all operators. In our view, the weaker operators will have less room to survive in a highly competitive market. This will underpin an increasing divergence between the best, the average, and the non-branded operators.

Comparing the key operating metrics such as RevPAR growth and hotel inventory growth of major operators between the periods of 2016-19 and 2020-23, we have seen a greater divergence of performance between the best (HTHT and ATAT) and the average branded operators.

Exhibit 21: Summary of RevPAR recovery and hotel openings

HTHT and ATAT outperformed peers

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023E	2024E	2025E
Blended RevPAR (RMB)												
HTHT	159	153	157	180	197	198	149	172	157	239	240	244
ATAT						330	275	295	261	379	379	387
Jinjiang	147	141	145	150	158	157	119	138	114			
BTG (Incl. soft branded)			144	154	162	158	99	119	97			
Greentree		118	123	130	135	131	105	116	101			
Blended RevPAR growth												
HTHT		-3.8%	2.6%	14.6%	9.4%	0.5%	-24.7%	15.4%	-8.7%	52.4%	0.1%	1.8%
ATAT							-16.5%	7.2%	-11.6%	45.3%	0.0%	2.0%
Jinjiang		-4.0%	2.7%	3.2%	5.8%	-0.7%	-24.2%	15.3%	-17.2%			
BTG				6.9%	4.0%	-2.5%	-37.3%	20.2%	-18.5%			
Greentree			4.2%	5.7%	3.8%	-3.0%	-19.8%	10.5%	-12.9%			
Blended RevPAR recovery (vs. 2019)												
HTHT							75%	87%	79%	121%	121%	123%
ATAT							83%	89%	79%	115%	115%	117%
Jinjiang							76%	87%	72%			
BTG							63%	75%	61%			
Greentree							80%	89%	77%			
Hotel inventory												
HTHT (Legacy-Huazhu)	1,995	2,763	3,269	3,746	4,230	5,618	6,669	7,706	8,411	9,323	10,903	12,525
ATAT						420	570	745	932	1,198	1,538	1,968
Jinjiang (Domestic)	967	1,073	4,647	5,395	6,147	7,221	8,138	9,355	10,335			
BTG (Incl. soft branded)	169	156	3,247	3,712	4,049	4,450	4,895	5,916	5,983			
Greentree			1,964	2,289	2,757	3,957	4,340	4,659	4,059			
Hotel inventory growth												
HTHT		38.5%	18.3%	14.6%	12.9%	32.8%	18.7%	15.5%	9.1%	10.8%	16.9%	14.9%
ATAT							35.7%	30.7%	25.1%	28.5%	28.4%	28.0%
Jinjiang		11.0%	333.1%	16.1%	13.9%	17.5%	12.7%	15.0%	10.5%			
BTG		-7.7%	1981.4%	14.3%	9.1%	9.9%	10.0%	20.9%	1.1%			
Greentree				16.5%	20.4%	43.5%	9.7%	7.4%	-12.9%			

Source: BofA Global Research estimates, company report



Stock picks: Reiterate Buy on HTHT/ATAT

We reiterate Buy on HTHT and ATAT given their better than class execution capability, better growth prospect, stronger balance sheet, and capital return potential.

Exhibit 22: Summary of earnings changes

We slightly tweaked our estimates

EBITDA

	No	ew	Ol	ld	Char	1ges
	2023	2024	2023	2024	2023	2024
HTHT (RMB mn)	6,401	7,287	6,371	7,287	0%	0%
ATAT (RMB mn)	1,234	1,606	1,234	1,620	0%	-1%

Adjusted core profit

	No	ew	0	ld	Changes			
	2023	2024	2023	2024	2023	2024		
HTHT (RMB mn)	4,163	4,576	4,140	4,576	1%	0%		
ATAT (RMB mn)	881	1,183	881	1,186	0%	0%		

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Exhibit 23: Summary of PO and earnings changes

Our POs for HTHT/ATAT remain unchanged at US\$51/25

		EV/EBITDA		P/E PO		Potential			
	Valuation methodology	Old	New	Old	New	Old	New	Change	
HTHT	EV/EBITDA	15.0x	15.0x	25.8x	25.8x	51.0	51.0	0%	63%
ATAT	P/E	12.6x	12.6x	20.0x	20.0x	25.0	25.0	0%	47%

Source: BofA Global Research estimates, company report

BofA GLOBAL RESEARCH

Exhibit 24: Valuation table

HTHT/ATAT is trading at 8.6x/8.0 2024E EV/EBITDA and 15.8/13.6x 2024E P/E

	Bloomberg Ticker	Currency	Price	Market cap (US mn)	E\	V/EBITD	A	EBIT	DA gro	wth		PE		Earn	ings gro	owth
					2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E	2023E	2024E	2025E
Atour	ATAT US	USD	17.0	2,338	12.0	8.0	5.4	NA	30%	29%	19.4	13.6	10.7	NA	34%	27%
H World	HTHT US	USD	31.2	9,959	10.3	8.6	6.1	NA	14%	20%	17.2	15.8	11.8	NA	28%	29%

Source: BofA Global Research estimates

BofA GLOBAL RESEARCH

HTHT

We reiterate Buy and maintain our PO at US\$51 for HTHT. Our PO of US\$51 is based on 15x 2024E EV/EBITDA, implying 26x P/E. We believe the 15x 2024E EV/EBITDA is justified as it implies 0.9x to adj. EBITDA CAGR of 17% in 2023-25. The implied 26x 2024E P/E based on our PO implies 0.9x to 29% earnings CAGR in 2023-25.

ATAT

We reiterate Buy and maintain our PO at US\$25 for ATAT. Our PO of US\$25 is based on 20x 2024E P/E, implying 13x EV/EBITDA. We believe the 20x 2024E P/E is justified as it implies only 0.63x to earnings CAGR of 30% in 2023-25. The implied target P/E of 20x is lower than 26x for HTHT to reflect ATAT's lower liquidity and shorter execution track record. We believe ATAT's valuation gap vs. HTHT can narrow over time when it can prove its execution and its trading liquidity improves.



Exhibit 25: Summary of financials

We summarize key metrics for HTHT/ATAT below

	2019	2020	2021	2022	2023	2024	2025
Revenue							
HTHT	11,212	10,196	12,787	13,862	21,590	23,201	25,229
Atour	1,567	1,567	2,148	2,263	4,392	5,301	6,510
Growth							
HTHT		-9%	25%	8%	56%	7%	9%
Atour		0%	37%	5%	94%	21%	23%
EBITDA							
HTHT	3,384	(244)	1,571	610	6,401	7,287	8,719
Atour	182	161	299	424	1,234	1,606	2,035
Growth							
HTHT		-107%	-744%	-61%	949%	14%	20%
Atour		-12%	86%	42%	191%	30%	27%
Adjusted net profit							
HTHT	1,563	(1,805)	(260)	(1,375)	4,163	4,576	5,831
Atour			140	259	881	1,183	1,509
Growth							
HTHT*		-216%	-86%	NM	NM	10%	29%
Atour			NM	86%	240%	34%	27%

Source: BofA Global Research estimates, company report

Note: HTHT: If we exclude an estimated RMB600mn non-recurring gains for Accor disposals and FX n 2023E, net profit growth in 2024E is estimated to be 28%

BofA GLOBAL RESEARCH

Stocks mentioned

Prices and ratings for stocks mentioned in this report

BofA Ticker	Bloomberg ticker	Company name	Price	Rating
ATAT	ATAT US	Atour Lifestyle	US\$ 16.99	C-1-9
HTHT	HTHT US	H World Group	US\$ 31.24	C-1-9
XHUAF	1179 HK	H World Group	HK\$ 24.4	C-1-9

Source: BofA Global Research

BofA GLOBAL RESEARCH

Price objective basis & risk

Atour Lifestyle (ATAT)

Our price objective of US\$25 is based on 20x 2024E P/E. The target multiple 20x is at a premium to 30% China hotel peers. We believe this is justified given its faster growth prospect and reduced concerns on lower liquidity and ADR delisting risks. Downside risks to our price objective are 1) prolonged COVID disruption, 2) increased competition, 3) short company track record, and 4) ADR delisting.

H World Group Limited (HTHT / XHUAF)

Our price objective of US\$51/HK\$39.5 is based on 15x 2024E EV/EBITDA, which is inline with its long-term average due to similar projected growth. Downside risks to our price objective are 1) inflation risk, 2) limited operating history, 3) slower-than-expected expansion of the hotel network, and 4) inability to secure suitable locations.

Analyst Certification

I, Ronald Leung, CFA, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.



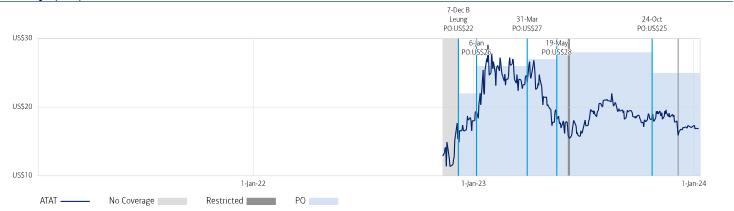
APR - Gaming & Leisure Coverage Cluster

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
BUY				
	Aristocrat Leisure	ARLUF	ALL AU	Sriharsh Singh
	Atour Lifestyle	ATAT	ATAT US	Ronald Leung, CFA
	Bloomberry Resorts	BLBRF	BLOOM PM	Joahnna See-Soriano
	Central Plaza Hotel	XWTDF	CENTEL TB	Charti Phrawphraikul
	China Travel International	CTVIF	308 HK	Ronald Leung, CFA
	Galaxy Entertainment	GXYEF	27 HK	Karl Choi, CFA
	H World Group Limited	HTHT	HTHT US	Ronald Leung, CFA
	H World Group Limited	XHUAF	1179 HK	Ronald Leung, CFA
	Lottery Corp	LTRCF	TLC AU	Ware Kuo
	MGM China	MCHVF	2282 HK	Karl Choi, CFA
	Minor International	MINOF	MINT TB	Charti Phrawphraikul
	NagaCorp Ltd.	NGCRF	3918 HK	Ronald Leung, CFA
	Paradise	PDCLF	034230 KS	Susie Lee
	Sands China Ltd.	SCHYF	1928 HK	Karl Choi, CFA
	Shangri-La Asia	SHALF	69 HK	Ronald Leung, CFA
	Songcheng Performance	XMUGF	300144 CH	Ronald Leung, CFA
	The Erawan Group	XCZVF	ERW TB	Charti Phrawphraikul
NEUTRAL				
	China Tourism Group Duty Free	XCTVF	601888 CH	Ronald Leung, CFA
	Genting Singapore	GIGNF	GENS SP	Ronald Leung, CFA
	Grand Korea Leisure	XFAIF	114090 KS	Susie Lee
	Melco Resorts	MLCO	MLCO US	Karl Choi, CFA
	Wynn Macau, Limited	WYNMF	1128 HK	Karl Choi, CFA
UNDERPERFORM				
	BTG Hotels	XYGTF	600258 CH	Ronald Leung, CFA
	China CYTS Tours Holding	XCMWF	600138 CH	Ronald Leung, CFA
	Genting Malaysia	GMALF	GENM MK	Ronald Leung, CFA
	Kangwon Land	KGWNF	035250 KS	Susie Lee
	Shanghai Jin Jiang Intl Hotels Dev Co.	XGCQF	600754 CH	Ronald Leung, CFA
	SJM Holdings Limited	SIMHF	880 HK	Karl Choi, CFA
	Wangfujing Group	BJNGF	600859 CH	Ronald Leung, CFA
	3 7 0 · · · · r	,		

Disclosures

Important Disclosures

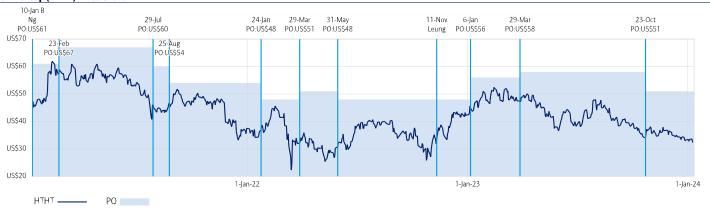
Atour Lifestyle (ATAT) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

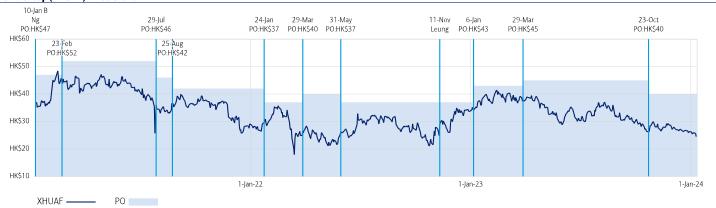
H World Group (HTHT) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

H World Group (XHUAF) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Leisure - Hotel/Lodging Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	16	61.54%	Buy	12	75.00%
Hold	3	11.54%	Hold	2	66.67%
Sell	7	26 92%	Sell	5	71 43%

Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

^[8] Issuers that were investment banking dients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R2}

 Buy
 ≥ 10%
 ≤ 70%

 Neutral
 ≥ 0%
 ≤ 30%

 Underperform
 N/A
 ≥ 20%

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Atour Lifestyle, H World Group.

BofAS or an affiliate was a manager of a public offering of securities of this issuer within the last 12 months: Atour Lifestyle.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates. Atour Lifestyle.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: Atour Lifestyle.

BofAS together with its affiliates beneficially owns one percent or more of the common stock of this issuer. If this report was issued on or after the 9th day of the month, it reflects the ownership position on the last day of the previous month. Reports issued before the 9th day of a month reflect the ownership position at the end of the second month preceding the date of the report: Atour Lifestyle.

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Atour Lifestyle, H World Group.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudéntiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI, BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Equities (Australia) Limited, regulated by the Australian Securities and Investments Commission; Merrill Lynch (Hong Kong): Merrill Lynch (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch Canada Inc, regulated by the Canadian Investment Regulatory Organization; Merrill Lynch (Mexico): Merrill Lynch Mexico, SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limitéd, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS



Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services or other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does not change your service provider. Please refer to the Electronic Communications Disclaimers for further information.

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content



contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

