

Rating

Buy
North America

United States

Consumer Restaurants

Company

Texas Roadhouse

Reuters Bloomberg Exchange Ticker TXRH.OQ TXRH US NSM TXRH

Date

23 October 2023

Results

Price at 20 Oct 2023 (USD)	96.19
Price Target	111.00
52-week range	117.27 - 90.95

Into the 3023 Print

TXRH 3023 Earnings Preview

TXRH reports 3Q23 earnings 10/26 AMC.

Last week we initiated on TXRH with a Buy rating. Based on our conversations with investors, sentiment on TXRH was among the most negative across our coverage into 3Q, reflecting expectations for largely in-line SSS (mid-7%), an EPS miss and concerns on the initial guide for beef costs in 2024 (initial guide generally provided on 3Q call). We believe expectations for commodity inflation in 2024 are likely in the LSD-MSD range (with MSD-HSD beef cost inflation). Sell-side estimates for COGS to improve ~10bps in 2024 and price of 3.1% imply commodity inflation of ~2.9%. Long-term, investors were more receptive to our call, with TXRH one of the few restaurant companies generating positive traffic, a path for meaningful upside to numbers once the beef cycle eventually turns and relatively inexpensive valuation.

In 2024, we model SSS of 4.5% (price 3.5% and traffic 1%), ahead of consensus' 4% (price 3.1% and traffic 0.9%). We model that the restaurant margin expands 30bps to 15.8%, primarily driven by leverage in COGS and other opex, in line with consensus. We model EPS of \$5.48 in 2024 (+18%), relative to consensus' \$5.41, with buy-side likely lower (particularly on restaurant margin).

- SSS: In 3Q, we model SSS of 7.8% (traffic 3.5%, price 5.1%, mix -0.8%), noting SSS in the first four weeks of 3Q were 10.7%, or 9.3% excluding a ~1.4% benefit from an outsized July 4th. Our 3Q estimate implies 4-yr SSS of 42.7%. In 4Q we model SSS of 7.6% (traffic 3.5%, price 4.6%, mix -0.5%), implying 4-yr SSS of 40%. Compares ease in 4Q as TXRH saw trends slow in the last 7-10 days of the December period (which is generally outsized) given cold weather and headwinds from the holiday shift as Christmas fell on a Sunday last year, though will be on a Monday this year. Compares are toughest in October and easiest in December. TXRH raised menu prices in mid-October, which we estimate at 2.2%, noting TXRH suggested the increase would be in the 2-3% range. Our price analysis suggests prices closer to ~3%, though there is significant variability across menu items and markets, and thus we are not embedding that level of price. Consensus models SSS below our estimates at 7.4% in 3Q and 6.6% in 4Q.
- Units: In 2023, we model 29 organic units as well as 8 units acquired from franchisees in 1023. TXRH has guided to up to 28 Texas Roadhouse and Bubba's 33 restaurants, as well as 3 Jaggers locations.

Valuation & Risks

Lauren Silberman, CFA

Research Analyst +1-212-250-1285

Raymon Wang

Research Associate

+1-212-250-1088

Deutsche Bank Securities Inc.



- Restaurant Margin: In 3Q, TXRH restaurant margin guidance implies another quarter of contraction, primarily driven by labor (wage inflation 5-6%, still elevated labor hour growth as TXRH laps prior year staffing headwinds), and opex (lapping \$4MM benefit in 3Q22 related to an adjustment for general liability insurance; 3Q22 also benefitted from a \$6MM breakage adjustment at 100% flow-through, added ~60bps to margin and unlikely to be as high this year). 3Q reported margin will be below 3Q22's 15.4%, though underlying margins should improve (excluding the adjustment). We model 3Q margin of 15%, down ~40bps YOY, and below consensus' 15.2%, driven by consensus' expectation for better opex, which we think could be mis-modeled. In 4Q, TXRH should see restaurant margin expand for the first time in what will be seven quarters, reflecting leverage across all line items. We model restaurant margin of 15.5%, up ~95bps YOY, ahead of consensus' 15.2%, primarily driven by better labor and other opex (we model SSS higher).
- **EPS:** In 3Q, we model EPS of \$1.02, below consensus of \$1.06, primarily due to lower restaurant margin. In 4Q, we model EPS of \$1.11, ahead of consensus' \$1.07 given higher SSS and restaurant margin estimates.

Figure 1: TXRH Earnings Preview: DBe vs Consensus

3Q23E	DR ve	: Con	sen	SHIS

	DBe	Consensus	Delta	3Q22A	YOY	Guidance
Price	5.1%	5.1%	0bps	7.2%		5.1% price
Mix	-0.8%	-0.8%	-2bps	0.5%		
Traffic	3.5%	3.0%	49bps	0.5%		
SSS	7.8%	7.4%	37bps	8.2%		10.7% QTD (first 4 weeks)
Sales	\$1,123	\$1,123	0.1%	\$993	13.1%	
COGS	34.6%	34.7%	-8bps	34.7%	-5bps	
Labor	33.7%	33.8%	-8bps	33.5%	25bps	
Rent	1.6%	1.6%	0bps	1.7%	-6bps	
Other Opex	15.0%	14.7%	35bps	14.8%	24bps	
Restaurant Margin	15.0%	15.2%	-18bps	15.4%	-38bps	
G&A	\$48	\$48	0.1%	\$43	12.8%	
D&A	\$38	\$37	2.0%	\$34	12.4%	
Operating Income	\$82	\$84	-2.2%	\$75	8.6%	
Operating Margin	7.3%	7.5%	-17bps	7.6%	-30bps	
EPS	\$1.02	\$1.06	-3.6%	\$0.93	10.0%	

4Q23E DB vs Consensus

	DBe	Consensus	Delta	4Q22A	YOY	Guidance
Price	4.6%	4.5%	13bps	6.3%		
Mix	-0.5%	-0.5%	0bps	-0.1%		
Traffic	3.5%	2.6%	95bps	1.1%		
SSS	7.6%	6.6%	102bps	7.3%		
Sales	\$1,146	\$1,138	0.8%	\$1,010	13.6%	
COGS	34.8%	34.8%	3bps	35.1%	-25bps	
Labor	33.2%	33.4%	-26bps	33.4%	-20bps	
Rent	1.6%	1.6%	-4bps	1.7%	-9bps	
Other Opex	14.9%	15.0%	-4bps	15.3%	-40bps	
Restaurant Margin	15.5%	15.2%	30bps	14.5%	94bps	
G&A	\$49	\$48	1.7%	\$40	22.1%	
D&A	\$38	\$38	0.3%	\$35	8.1%	
Operating Income	\$89	\$84	5.6%	\$69	29.2%	
Operating Margin	7.8%	7.4%	35bps	6.8%	94bps	
EPS	\$1.11	\$1.07	4.4%	\$0.89	25.2%	

Source : Company data, Consensus Metrix, Deutsche Bank estimates



Financial Models

Figure 2: Income Statement

Fexas Roadhouse (TXRH) \$ in millions)	Fiscal Yr 2021	1Q22	202 2Q22	3Q22	4Q22	Fiscal Yr 2022	1Q23	202 2Q23	3Q23E	4Q23E	Fiscal Yr 2023E	1Q24E	202 2Q24E	3Q24E	4Q24E	Fiscal Yr 2024E	Fiscal 2025
ncome Statement	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023E	Mar-24	Jun-24	Sep-24	Dec-24	2024E	2025
Revenues																	
Restaurant and other sales YOY %	\$3,439.2 44.5%	\$981.0 23.4%	\$1,018.1 14.1%	\$987.0 14.4%	\$1,002.8 12.8%	\$3,988.8 16.0%	\$1,167.6 19.0%	\$1,164.4 14.4%	\$1,116.4 13.1%	\$1,138.8 13.6%	\$4,587.2 15.0%	\$1,283.5 9.9%	\$1,269.9 9.1%	\$1,217.8 9.1%	\$1,317.7 15.7%	\$5,088.9 10.9%	\$5,43 6
Franchise royalties and fees YOY %	\$24.8 38.0%	\$6.5 14.2%	\$6.5 3.2%	\$6.3 1.8%	\$6.8 3.6%	\$26.1 5.5%	\$6.8 4.0%	\$6.8 4.1%	\$6.8 8.5%	\$7.6 11.8%	\$28.0 7.1%	\$7.7 13.3%	\$7.9 15.4%	\$7.9 15.8%	\$9.0 19.3%	\$32.5 16.0%	\$3 8
Total Revenue YOY %	\$3,463.9 44.4%	\$987.5 23.3%	\$1,024.6 14.0%	\$993.3 14.3%	\$1,009.5 12.7%	\$4,014.9 15.9%	\$1,174.4 18.9%	\$1,171.2 14.3%	\$1,123.2 13.1%	\$1,146.4 13.6%	\$4,615.2 15.0%	\$1,291.2 10.0%	\$1,277.7 9.1%	\$1,225.7 9.1%	\$1,326.7 15.7%	\$5,121.4 11.0%	\$5,47
Cost of sales	\$1,156.6	\$337.4	\$347.0	\$342.0	\$351.7	\$1,378.2	\$410.7	\$401.2	\$386.3	\$396.6	\$1,594.8	\$447.0	\$436.3	\$420.2	\$457.6	\$1,761.0	\$1,8
YOY %	48.2%	34.2%	17.4%	14.7%	12.9%	19.2%	21.7%	15.6%	12.9%	12.8%	15.7%	8.8%	8.7%	8.8%	15.4%	10.4%	
% of Restaurant and other sales Margin Chg. YOY	33.6% 83bps	34.4% 276bps	34.1% 98bps	34.7% 9bps	35.1% 4bps	34.6% 92bps	35.2% 78bps	34.5% 37bps	34.6% -5bps	34.8% -25bps	34.8% 22bps	34.8% -35bps	34.4% -10bps	34.5% -10bps	34.7% -10bps	34.6% -16bps	-2
abor	\$1,123.0	\$321.9	\$333.0	\$330.2	\$334.8	\$1,320.0	\$385.8	\$391.3	\$376.3	\$378.0	\$1,531.4	\$422.9	\$425.5	\$412.3	\$439.3	\$1,700.0	\$1,8
YOY % % of Restaurant and other sales	28.2% 32.7%	24.7% 32.8%	15.6% 32.7%	15.2% 33.5%	15.4%	17.5% 33.1%	19.9% 33.0%	17.5% 33.6%	14.0% 33.7%	12.9% 33.2%	16.0% 33.4%	9.6%	8.7% 33.5%	9.6%	16.2% 33.3%	11.0% 33.4%	
Margin Chg. YOY	-414bps	35bps	43bps	24bps	75bps	44bps	23bps	90bps	25bps	-20bps	29bps	-10bps	-10bps	15bps	15bps	2bps	'
Rent YOY %	\$60.0	\$16.4	\$16.7	\$16.7	\$17.0	\$66.8	\$17.8	\$18.0	\$18.2	\$18.3	\$72.4	\$19.2	\$19.4	\$19.5	\$20.8	\$78.9	\$
% of Restaurant and other sales	10.3% 1.7%	13.3% 1.7%	11.8% 1.6%	10.7% 1.7%	9.9% 1.7%	11.4% 1.7%	8.9% 1.5%	7.7% 1.5%	9.1% 1.6%	7.6% 1.6%	8.3% 1.6%	7.8% 1.5%	7.6% 1.5%	7.1% 1.6%	13.5% 1.6%	9.0% 1.6%	
Margin Chg. YOY	-54bps	-15bps	-3bps	-6bps	-4bps	-7bps	-14bps	-10bps	-6bps	-9bps	-10bps	-3bps	-2bps	-3bps	-3bps	-3bps	
Other operating YOY %	\$517.8 28.3%	\$144.2 16.8%	\$152.5 12.5%	\$146.0 14.3%	\$153.6 17.2%	\$596.3 15.2%	\$167.5 16.2%	\$171.1 12.2%	\$167.9 15.0%	\$169.9 10.6%	\$676.4 13.4%	\$183.3 9.4%	\$185.2 8.2%	\$180.7 7.7%	\$194.6 14.6%	\$743.9 10.0%	\$
% of Restaurant and other sales	15.1%	14.7%	15.0%	14.8%	15.3%	14.9%	14.3%	14.7%	15.0%	14.9%	14.7%	14.3%	14.6%	14.8%	14.8%	14.6%	
Margin Chg. YOY	-191bps \$2.857.4	-83bps \$819.8	-21bps \$849.3	-1bps \$835.0	58bps \$857.2	-11bps \$3,361.3	-35bps \$981.9	-29bps \$981.6	24bps \$948.7	-40bps \$962.8	-21bps \$3.875.0	-7bps \$1.072.4	-11bps \$1.066.4	-20bps \$1,032,7	-15bps \$1.112.3	-13bps \$4.283.8	\$4.
	\$2,857.4		\$168.7	\$835.0	\$857.2	\$627.5	\$185.7	\$981.6	\$948.7	\$962.8	\$3,875.0	\$1,072.4	\$1,066.4	\$1,032.7	\$1,112.3	\$4,283.8	\$4,: SI
Restaurant Profit YOY %	119.0%	\$161.2 9.2%	6.6%	12.5%	3.4%	7.9%	15.2%	8.3%	10.3%	20.9%	13.5%	13.7%	11.4%	10.4%	16.7%	13.0%	
Restaurant Margin Margin Chg. YOY	16.9% 575bps	16.4% -213bps	16.6% -116bps	15.4% -26bps	14.5% -132bps	15.7% -118bps	15.9% -53bps	15.7% -88bps	15.0% -38bps	15.5% 94bps	15.5% -21bps	16.4% 55bps	16.0% 33bps	15.2% 18bps	15.6% 13bps	15.8% 29bps	
Pre-opening expenses	\$24.3	\$4.3	\$5.3	\$5.7	\$6.6	\$21.9	\$5.4	\$5.7	\$6.5	\$7.0	\$24.5	\$7.8	\$6.2	\$6.8	\$7.5	\$28.2	
Depreciation & amortization	\$126.8	\$33.6	\$34.4	\$33.7	\$35.5	\$137.2	\$36.2	\$37.4	\$37.9	\$38.3	\$149.9	\$39.2	\$40.2	\$40.8	\$43.7	\$163.8	s
YOY %	7.5%	8.9%	8.8%	6.7%	8.7%	8.3%	7.8%	8.7%	12.4%	8.1%	9.2%	8.2%	7.4%	7.5%	14.0%	9.3%	Ψ
% of Total Revenue Margin Chg. YOY	3.7% -126bps	3.4% -45bps	3.4% -16bps	3.4% -24bps	3.5% -13bps	3.4% -24bps	3.1% -32bps	3.2% -16bps	3.4% -2bps	3.3% -17bps	3.2% -17bps	3.0% -5bps	3.1% -5bps	3.3% -5bps	3.3% -5bps	3.2% -5bps	
mpairment and closure	\$0.7	(\$0.6)	\$0.4	\$0.8	\$1.1	\$1.6	\$0.1	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
General & administrative expenses	\$157.5	\$40.3	\$49.2	\$42.8	\$40.4	\$172.7	\$49.9	\$51.0	\$48.3	\$49.3	\$198.5	\$51.2	\$53.6	\$51.2	\$56.0	\$212.0	s
YOY %	31.8% 4.5%	9.8%	33.5%	3.8%	-5.3%	9.7%	23.8%	3.6% 4.4%	12.8%	22.1%	14.9%	2.7%	5.1%	6.1%	13.6%	6.8%	ψ.
% of Total Revenue Margin Chg. YOY	-44bps	-50bps	4.8% 70bps	4.3% -44bps	4.0% -76bps	4.3% -24bps	4.2% 17bps	-45bps	4.3% -1bps	4.3% 30bps	4.3% 0bps	4.0% -28bps	-16bps	4.2% -12bps	-8bps	-16bps	
Total costs and expenses	\$3,166.8	\$897.3	\$938.7	\$918.0	\$940.7	\$3,694.7	\$1,073.4	\$1,075.8	\$1,041.4	\$1,057.4	\$4,248.0	\$1,170.6	\$1,166.3	\$1,131.5	\$1,219.5	\$4,687.9	\$4,9
Operating Income YOY %	\$297.2 1146.4%	\$90.1 11.4%	\$85.9 -4.2%	\$75.3 22.0%	\$68.9 6.2%	\$320.2 7.7%	\$100.9 12.0%	\$95.4 11.1%	\$81.8 8.6%	\$89.0 29.2%	\$367.1 14.7%	\$120.6 19.5%	\$111.4 16.8%	\$94.2 15.1%	\$107.2 20.5%	\$433.5 18.1%	\$4
Operating Margin	8.6%	9.1%	8.4%	7.6%	6.8%	8.0%	8.6%	8.1%	7.3%	7.8%	8.0%	9.3%	8.7%	7.7%	8.1%	8.5%	
Margin Chg. YOY	759bps	-98bps	-160bps	48bps	-42bps	-60bps	-53bps	-24bps	-30bps	94bps	-2bps	75bps	57bps	40bps	32bps	51bps	
interest income (expense), net Equity income from investments in unconsolidated affiliates	\$3.7 \$0.6	\$0.4 (\$0.3)	\$0.4 (\$0.5)	\$0.1 (\$0.2)	(\$0.8) (\$0.2)	\$0.1 (\$1.2)	(\$1.2) (\$0.8)	(\$1.0) (\$0.3)	\$0.0 (\$0.2)	\$0.0 (\$0.2)	(\$2.2) (\$1.4)	\$0.0 (\$0.2)	\$0.0 (\$0.3)	\$0.0 (\$0.2)	\$0.0 (\$0.2)	\$0.0 (\$0.9)	
Pre-Tax Income	\$292.9	\$90.1	\$86.1	\$75.4	\$69.8	\$321.3	\$102.9	\$96.7	\$82.0	\$89.2	\$370.8	\$120.8	\$111.7	\$94.4	\$107.4	\$434.4	\$4
Pre-Tax Margin	8.5%	9.1%	8.4% \$11.5	7.6%	6.9%	8.0% \$43.7	8.8%	8.3% \$12.3	7.3%	7.8%	8.0%	9.4%	8.7%	7.7%	8.1%	8.5%	
ncome tax expense Tax Rate	\$39.6 13.5%	14.2%	13.4%	\$11.4 15.2%	11.5%	13.6%	\$14.3 13.9%	12.7%	\$11.5 14.0%	\$12.5 14.0%	\$50.6 13.6%	\$16.9 14.0%	\$15.6 14.0%	\$13.2 14.0%	\$15.0 14.0%	\$60.8 14.0%	
Net income attributable to noncontrolling interests	\$8.0	\$2.1	\$2.1	\$1.6	\$1.9	\$7.8	\$2.2	\$2.2	\$2.0	\$2.0	\$8.4	\$2.0	\$2.0	\$2.0	\$2.0	\$8.0	
Net Income Net Income Margin	\$245.3 7.1%	\$75.2 7.6%	\$72.4 7.1%	\$62.3 6.3%	\$59.9 5.9%	\$269.8 6.7%	\$86.4 7.4%	\$82.3 7.0%	\$68.5 6.1%	\$74.7 6.5%	\$311.9 6.8%	\$101.9 7.9%	\$94.1 7.4%	\$79.2 6.5%	\$90.4 6.8%	\$365.5 7.1%	\$
Adj EPS	\$3.50	\$1.08	\$1.07	\$0.93	\$0.89	\$3.97	\$1.28	\$1.22	\$1.02	\$1.11	\$4.64	\$1.52	\$1.41	\$1.19	\$1.36	\$5.48	
YOY %	681.3%	18.5%	-0.8%	23.8%	17.4%	13.5%	18.4%	14.7%	10.0%	25.2%	16.9%	18.7%	15.2%	16.5%	22.0%	18.1%	1
Weighted Average Basic Shares	69.7	69.1	67.7	66.9	66.9	67.6	67.0	67.0	66.9	66.8	66.9	66.6	66.5	66.3	66.2	66.4	
YOY % Weighted Average Diluted Shares	0.4% 70.1	-0.8% 69.4	-3.1% 67.9	-4.2% 67.2	-3.8% 67.3	-3.0% 67.9	-3.0% 67.3	-1.0% 67.2	0.0% 67.1	-0.3% 67.0	-1.1% 67.2	-0.6% 66.9	-0.7% 66.7	-0.8% 66.6	-0.9% 66.5	-0.7% 66.7	
	0.4%	-1.1%	-3.2%	-4.3%	-3.9%	-3.1%	-3.0%	-1.0%	0.0%	-0.4%	-1.1%	-0.6%	-0.7%	-0.8%	-0.9%	-0.7%	
YOY %	\$1.20	\$0.46	\$0.46	\$0.46	\$0.46	\$1.84	\$0.55	\$0.55	\$0.55	\$0.55	\$2.20	\$0.66	\$0.66	\$0.66	\$0.66	\$2.64	
Cash Dividends per Share	ψ1L0	#DIV/0!	15.0%	15.0%	15.0% 51.7%	53.3% 46.3%	19.6% 42.8%	19.6% 44.9%	19.6% 53.9%	19.6% 49.4%	19.6% 47.4%	20.0% 43.3%	20.0% 46.8%	20.0% 55.5%	20.0% 48.5%	20.0% 48.2%	2
	233.3% 34.3%	42.4%	43.1%	49.6%													
cash Dividends per Share YOV % Payout Ratio	233.3%			49.6%	01.770												
Cash Dividends per Share YOY % Payout Ratio	233.3%			\$75.3	\$68.9	\$320.2	\$100.9	\$95.4	\$81.8	\$89.0	\$367.1	\$120.6	\$111.4	\$94.2	\$107.2	\$433.5	9
Cash Dividends per Share YOY % Payout Ratio BIITDA Deparating income Depreciation	233.3% 34.3% \$297.2 \$126.8	\$90.1 \$33.6	\$85.9 \$34.4	\$75.3 \$33.7	\$68.9 \$35.5	\$137.2	\$36.2	\$37.4	\$37.9	\$38.3	\$149.9	\$39.2	\$40.2	\$40.8	\$43.7	\$163.8	\$
Cash Dividends per Share YOY % Payout Ratio BITOA Operating income	233.3% 34.3% \$297.2	42.4% \$90.1	43.1% \$85.9	\$75.3	\$68.9												\$ \$ \$

Source : Company data, Deutsche Bank estimates

Texas Roadhouse



Figure 3: Balance Sheet

Texas Roadhouse (TXRH)	Fiscal Yr		202			Fiscal Yr		202			Fiscal Yr		202			Fiscal Yr	Fiscal Yr
(\$ in millions)	2021	1Q22	2Q22	3Q22	4Q22E	2022	1Q23	2Q23	3Q23E	4Q23E	2023E	1Q24E	2Q24E	3Q24E	4Q24E	2024E	2025E
Balance Sheet	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023E	Mar-24	Jun-24	Sep-24	Dec-24	2024E	2025E
Cash and cash equivalents	\$335.6	\$325.7	\$180.4	\$185.3	\$173.9	\$173.9	\$156.1	\$107.3	\$90.1	\$122.2	\$122.2	\$78.1	\$125.2	\$98.4	\$124.1	\$124.1	\$128.1
Receivable, net	\$161.4	\$45.2	\$45.5	\$37.8	\$150.3	\$150.3	\$41.5	\$60.5	\$47.8	\$108.1	\$108.1	\$108.0	\$56.8	\$52.7	\$119.9	\$119.9	\$128.1
Inventories	\$31.6	\$30.0	\$31.8	\$32.9	\$38.0	\$38.0	\$36.8	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1	\$38.1
Prepaid income taxes	\$10.7	\$2.7	\$4.5	\$1.1	\$50.0 \$5.1	\$5.1	\$0.0	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4	\$1.4
Prepaid expenses	\$24.2	\$22.4	\$18.8	\$20.2	\$29.6	\$29.6	\$34.2	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9	\$25.9
Deferred tax assets, net	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other current assets	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Current Assets	\$563.5	\$426.0	\$280.9	\$277.4	\$396.8	\$396.8	\$268.7	\$233.3	\$203.4	\$295.7	\$295.7	\$251.5	\$247.4	\$216.6	\$309.5	\$309.5	\$321.6
Total Gallett Addition	Ψ000.0	ψ-120.0	φ200.0	QL11.4	φουσ.σ	4000.0	Ψ200.7	Q200.0	Q200.4	ΨΕ00.7	ΨΕ00.7	Ψ201.0	φ2-111	ΨΕ10.0	φοσσ.σ	φουυ.υ	Q021.0
Property and equipment, net	\$1,162,4	\$1,181.7	\$1,208.0	\$1,237,3	\$1,270,3	\$1,270.3	\$1,310.8	\$1,360.1	\$1,392.2	\$1,428.9	\$1,428.9	\$1,459.7	\$1,489,5	\$1,523.8	\$1,565.1	\$1,565.1	\$1.702.9
Operating lease right-of-use asset, net	\$578.4	\$605.1	\$611.9	\$626.6	\$630.3	\$630.3	\$643.5	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7	\$662.7
Goodwill	\$127.0	\$144.3	\$148.7	\$148.7	\$148.7	\$148.7	\$169.6	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7	\$169.7
Intangible assets	\$1.5	\$6.8	\$7.0	\$6.3	\$5.6	\$5.6	\$5.9	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0	\$5.0
Other assets	\$79.1	\$73.3	\$65.1	\$68.7	\$73.9	\$73.9	\$76.4	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2	\$84.2
Total Assets	\$2,512.0	\$2,437.3	\$2,321.7	\$2,365.1	\$2,525.7	\$2,525.7	\$2,474.9	\$2,515.0	\$2,517.1	\$2,646.2	\$2,646.2	\$2,632.8	\$2,658.5	\$2,661.9	\$2,796.2	\$2,796.2	\$2,946.1
Current maturities of long-term debt and capital leases	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Current portion of operating lease liabilities	\$22.0	\$23.8	\$24.5	\$25.0	\$25.5	\$25.5	\$26.5	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0	\$27.0
Accounts payable	\$95.2	\$100.1	\$101.6	\$98.7	\$105.6	\$105.6	\$113.8	\$120.7	\$116.0	\$118.2	\$118.2	\$123.3	\$129.7	\$127.3	\$130.5	\$130.5	\$138.6
Deferred revenue gift cards	\$300.7	\$221.5	\$208.4	\$182.3	\$335.4	\$335.4	\$240.7	\$226.1	\$211.1	\$311.1	\$311.1	\$251.1	\$236.1	\$221.1	\$321.1	\$321.1	\$331.1
Accrued wages and payroll taxes	\$64.7	\$79.8	\$81.1	\$85.8	\$54.5	\$54.5	\$66.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2	\$67.2
Income taxes payable	\$0.1	\$3.5	\$0.5	\$1.4	\$0.4	\$0.4	\$5.7	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0	\$2.0
Accrued taxes and licences	\$33.4	\$33.7	\$34.7	\$37.4	\$35.3	\$35.3	\$38.4	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7	\$40.7
Dividends payable	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other accrued liabilities	\$86.1	\$79.3	\$77.7	\$85.1	\$95.3	\$95.3	\$96.8	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4	\$88.4
Total Current Liabilities	\$602.1	\$541.8	\$528.5	\$515.7	\$652.0	\$652.0	\$588.1	\$572.0	\$552.3	\$654.5	\$654.5	\$599.6	\$591.1	\$573.6	\$676.8	\$676.8	\$694.9
Long-term debt and capital leases, excl. current maturities	\$100.0	\$100.0	\$75.0	\$75.0	\$50.0	\$50.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Operating lease liabilities, net of current portion	\$622.9	\$649.1	\$657.5	\$672.8	\$677.9	\$677.9	\$692.0	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8	\$712.8
Stock options and other deposits	\$8.0	\$8.2	\$8.2	\$8.1	\$8.0	\$8.0	\$8.5	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6	\$8.6
Deferred rent	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Deferred tax liabilities	\$11.7	\$14.2	\$15.4	\$16.8	\$21.0	\$21.0	\$23.7	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5	\$22.5
Other liabilities	\$93.7	\$88.9	\$83.1	\$84.1	\$89.2	\$89.2	\$92.1	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9	\$100.9
Total Liabilities	\$1,438.5	\$1,402.1	\$1,367.7	\$1,372.4	\$1,498.0	\$1,498.0	\$1,404.3	\$1,416.7	\$1,397.1	\$1,499.3	\$1,499.3	\$1,444.4	\$1,435.8	\$1,418.3	\$1,521.6	\$1,521.6	\$1,539.6
	. ,	. , .	. ,		. ,	. ,	.,	. ,	. ,	.,	. ,	. ,	. ,	.,		. ,	. ,
Common Stock	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1
Additional paid-in capital	\$114.5	\$32.8	\$0.0	\$7.1	\$13.1	\$13.1	\$6.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Retained earnings/accumulated deficit	\$943.6	\$987.0	\$938.8	\$970.4	\$999.4	\$999.4	\$1,048.9	\$1,082.9	\$1,124.7	\$1,171.6	\$1,171.6	\$1,238.1	\$1,297.3	\$1,343.2	\$1,399.3	\$1,399.3	\$1,641.1
Treasury stock, at cost	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	(\$20.0)	(\$40.0)	(\$40.0)	(\$65.0)	(\$90.0)	(\$115.0)	(\$140.0)	(\$140.0)	(\$250.0)
Accumulated other comprehensive income (loss)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Noncontrolling interests	\$15.4	\$15.5	\$15.1	\$15.1	\$15.0	\$15.0	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3	\$15.3
Shareholders' Equity	\$1,073.5	\$1,035.3	\$954.0	\$992.6	\$1,027.7	\$1,027.7	\$1,070.5	\$1,098.3	\$1,120.0	\$1,146.9	\$1,146.9	\$1,188.4	\$1,222.6	\$1,243.6	\$1,274.6	\$1,274.6	\$1,406.5
Total Liabilities & Shareholders' Equity	\$2,512.0	\$2,437,3	\$2,321.7	\$2,365,1	\$2,525,7	\$2,525.7	\$2,474.9	\$2,515.0	\$2,517,1	\$2,646,2	\$2,646.2	\$2,632,8	\$2.658.5	\$2,661.9	\$2,796.2	\$2,796.2	\$2,946,1
check	Q2,312.0	Q2,407.0	ψ <u>υ</u> ,υ <u>ν</u> 1.7	ψ±,303.1	QL,020.1	Q2,323.7	Q2,474.0	Q2,013.0	Q2,017.1	Q2,340.2	Q2,040.2	ψ <u>2,332.0</u>	ψ <u>ε</u> ,000.0	Q2,001.0	Q2,730.2	Q2,780.2	ψ <u>2,</u> 340.1
	1																l
Balance Sheet Analysis	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23E	4Q23E	2023E	1Q24E	2Q24E	3Q24E	4Q24E	2024E	2025E
Debt Analysis																	
Long-term debt and capital lease, excl. current maturities	\$100.0	\$100.0	\$75.0	\$75.0	\$50.0	\$50.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Current maturities of long-term debt and capital leases	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total Debt	\$100.0	\$100.0	\$75.0	\$75.0	\$50.0	\$50.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Cash and cash equivalents	\$335.6	\$325.7	\$180.4	\$185.3	\$173.9	\$173.9	\$156.1	\$107.3	\$90.1	\$122.2	\$122.2	\$78.1	\$125.2	\$98.4	\$124.1	\$124.1	\$128.1
Net Debt	(\$235.6)	(\$225.7)	(\$105.4)	(\$110.3)	(\$123.9)	(\$123.9)	(\$156.1)	(\$107.3)	(\$90.1)	(\$122.2)	(\$122.2)	(\$78.1)	(\$125.2)	(\$98.4)	(\$124.1)	(\$124.1)	(\$128.1)
	1																l
Average Debt	\$170.0	\$100.0	\$87.5	e75 ^	\$62.5	\$75.0	\$25.0	\$0.0	60.0	00.0	\$25.0	\$0.0	\$0.0	20.0	20.0	\$0.0	20.0
Average Debt	\$170.0 (\$179.4)	\$100.0 (\$230.7)	\$87.5 (\$165.6)	\$75.0 (\$107.9)	\$62.5 (\$117.1)	\$75.0 (\$179.8)	\$25.0 (\$140.0)	\$0.0 (\$131.7)	\$0.0 (\$98.7)	\$0.0	\$25.0 (\$123.0)	\$0.0 (\$100.1)	\$0.0 (\$101.6)	\$0.0 (\$111.8)	\$0.0 (\$111.3)	\$0.0 (\$123.2)	\$0.0 (\$126.1)
Average Net Debt TTM EBITDA	(\$179.4) \$424.0	(\$230.7) \$435.9	(\$165.6) \$434.9	(\$107.9) \$450.6	(\$117.1) \$457.4	(\$179.8) \$457.4	(\$140.0) \$470.8	(\$131.7) \$483.3	(\$98.7) \$494.0	(\$106.2) \$517.0	(\$123.0) \$517.0	(\$100.1) \$539.7	(\$101.6) \$558.5	(\$111.8) \$573.7	(\$111.3) \$597.3	(\$123.2) \$597.3	(\$126.1) \$658.5
NTM EBITDA		\$435.9 \$470.8	\$434.9 \$483.3	\$450.6 \$494.0	\$457.4 \$517.0	\$457.4 \$517.0	\$470.8 \$539.7	\$483.3 \$558.5	\$494.0 \$573.7	\$517.0 \$597.3	\$517.0 \$597.3	\$539.7 \$615.9	\$558.5 \$633.6	\$5/3./ \$650.3	\$597.3 \$658.5	\$597.3 \$658.5	\$658.5 \$728.6
Total Debt/TTM EBITDA	\$457.4 0.2x	\$470.8 0.2x	\$483.3 0.2x	\$494.0 0.2x	\$517.0 0.1x	\$517.0 0.1x	\$539.7 0.0x	\$558.5 0.0x	\$5/3./ 0.0x	\$597.3 0.0x	\$597.3 0.0x	\$615.9 0.0x	\$633.6 0.0x	\$650.3 0.0x	\$658.5 0.0x	\$658.5 0.0x	
Net Debt/TTM EBITDA	-0.6x	-0.5x	-0.2x	-0.2x	-0.3x	-0.3x	-0.3x	-0.2x	-0.2x	-0.0x	-0.2x	-0.1x	-0.2x	-0.2x	-0.2x	-0.2x	0.0x -0.2x
Net Debt/ I M EBITDA	-U.6X	-U.5X	-0.2x	-0.2x	-u.3x	-u.3x	-0.3x	-U.2X	-0.2x	-U.2X	-U.2X	-U.1X	-0.2x	-U.2X	-U.2X	-U.2X	-U.2X

Source : Company data, Deutsche Bank estimates

Texas Roadhouse



Figure 4: Cash Flow Statement

Texas Roadhouse (TXRH)	Fiscal Yr		202	22		Fiscal Yr		202	!3		Fiscal Yr		202	4		Fiscal Yr	Fiscal Yr
(\$ in millions)	2021	1Q22	2Q22	3Q22	4Q22	2022	1Q23	2Q23	3Q23E	4Q23E	2023E	1Q24E	2Q24E	3Q24E	4Q24E	2024E	2025E
	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023E	Mar-24	Jun-24	Sep-24	Dec-24	2024E	2025E
Cash Flow Statement																	
Operating Cash Flows	\$253.3	\$77.3	\$74.5	\$64.0	\$61.8	\$277.6	\$88.6	\$84.4	\$68.5	\$74.7	\$316.2	\$101.9	\$94.1	\$79.2	\$90.4	\$365.5	\$411.0
Net income, incl. noncontrolling interests		\$77.3 \$33.6	\$74.5 \$34.4	\$64.0 \$33.7	\$35.5	\$137.2	\$88.6 \$36.2	\$37.4	\$68.5 \$37.9	\$74.7	\$316.2 \$149.9	\$39.2	\$40.2	\$40.8	\$90.4		\$411.0
Depreciation and amortization Deferred income taxes, net	\$126.8 \$8.9	\$33.6 \$2.6	\$34.4 \$1.3	\$33.7 \$1.3	\$35.5 \$4.2	\$137.2 \$9.5	\$36.2 \$3.0	\$37.4 (\$1.2)	\$37.9 \$0.0	\$38.3 \$0.0	\$149.9 \$1.8	\$39.2 \$0.0	\$40.2 \$0.0	\$40.8 \$0.0	\$43.7 \$0.0	\$163.8 \$0.0	\$172.2 \$0.0
	\$3.2	\$2.6 \$1.2	\$0.8	\$1.3 \$1.6	\$4.2 \$1.6	\$9.5 \$5.2	\$3.0 \$1.2	(\$1.2) \$2.3	\$0.0 \$0.0	\$0.0 \$0.0	\$1.8	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0
Loss on impairment and disposition of assets Impairment and closure costs	\$0.7	\$0.0	\$0.8 \$0.4	\$0.4	\$1.0	\$5.2 \$1.8	\$1.2 \$0.0	\$2.3 \$0.0	\$0.0	\$0.0	\$3.5 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Equity in income from investments in unconsolidated affiliates	\$0.7	(\$0.3)	(\$0.5)	(\$0.2)	(\$0.2)	(\$1.2)	(\$0.8)	(\$0.3)	\$0.0	\$0.0	(\$1.0)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Distributions of income received from investments in unconsolidated armitates	\$1.1	\$0.3)	\$0.3	\$0.2	\$0.2	(\$1.2) \$1.0	\$0.2	\$0.2	\$0.0	\$0.0	(\$1.0) \$0.4	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Provision for doubtful accounts	\$0.0	\$0.0	\$0.0	\$0.2	(\$0.0)	\$0.0	\$0.2	(\$0.0)	\$0.0	\$0.0	\$0.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Share-based compensation	\$38.1	\$9.1	\$9.5	\$9.6	\$8.5	\$36.7	\$8.2	\$8.6	\$10.1	\$8.9	\$35.7	\$8.6	\$9.0	\$10.6	\$9.3	\$37.5	\$39.4
Minority interest	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Changes in working capital:	*****			****	*****			****			4		****			40.0	40.0
Receivables	(\$62.4)	\$116.4	(\$0.4)	\$7.6	(\$112.5)	\$11.1	\$109.5	(\$19.0)	\$12.7	(\$60.3)	\$42.9	\$0.1	\$51.2	\$4.1	(\$67.2)	(\$11.9)	(\$8.2)
Inventories	(\$9.2)	\$1.8	(\$1.7)	(\$1.1)	(\$5.1)	(\$6.1)	\$1.6	(\$1.3)	\$0.0	\$0.0	\$0.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Prepaid expenses	(\$2.5)	\$0.7	\$3.6	(\$1.5)	(\$9.4)	(\$6.5)	(\$3.2)	\$8.3	\$0.0	\$0.0	\$5.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other assets	(\$13.9)	\$5.8	\$8.1	(\$3.5)	(\$4.5)	\$5.8	(\$2.3)	(\$7.9)	\$0.0	\$0.0	(\$10.1)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Accounts payable	\$27.7	\$6.3	(\$2.0)	(\$2.4)	\$3.5	\$5.4	\$10.4	\$3.9	(\$4.6)	\$2.2	\$11.9	\$5.1	\$6.5	(\$2.5)	\$3.2	\$12.3	\$8.1
Deferred revenue - gift cards	\$67.8	(\$80.0)	(\$13.2)	(\$26.2)	\$153.1	\$33.8	(\$95.8)	(\$14.6)	(\$15.0)	\$100.0	(\$25.4)	(\$60.0)	(\$15.0)	(\$15.0)	\$100.0	\$10.0	\$10.0
Accrued wages	\$12.7	\$15.1	\$1.3	\$4.7	(\$31.3)	(\$10.2)	\$11.6	\$1.0	\$0.0	\$0.0	\$12.6	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Excess tax benefits from share-based compensation	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Prepaid income taxes and income taxes payable	(\$9.0)	\$11.4	(\$4.8)	\$4.3	(\$4.9)	\$6.0	\$10.4	(\$5.2)	\$0.0	\$0.0	\$5.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Accrued taxes and licenses	\$8.6	\$0.3	\$1.0	\$2.7	(\$2.1)	\$1.9	\$3.1	\$2.2	\$0.0	\$0.0	\$5.3	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other accrued liabilities	\$20.4	(\$10.7)	\$2.3	(\$0.6)	\$11.1	\$2.1	\$3.0	(\$10.7)	\$0.0	\$0.0	(\$7.6)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Deferred rent	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Operating lease right-of-use assets and lease liabilities	\$5.6	\$1.5	\$1.8	\$0.6	\$1.3	\$5.3	\$1.1	\$2.1	\$0.0	\$0.0	\$3.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Other liabilities	(\$9.7)	(\$4.8)	(\$5.8)	\$1.0	\$5.0	(\$4.5)	\$2.9	\$8.9	\$0.0	\$0.0	\$11.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Net Operating Cash Flows	\$468.8	\$187.8	\$110.9	\$96.4	\$116.7	\$511.7	\$189.0	\$99.3	\$109.6	\$163.8	\$561.6	\$94.9	\$186.0	\$117.0	\$179.4	\$577.3	\$632.4
Year-to-date		\$187.8	\$298.7	\$395.1	\$511.7		\$189.0	\$288.2	\$397.8	\$561.6		\$94.9	\$280.8	\$397.9	\$577.3		1
I																	
Investing Cash Flows	(\$200.7)	(\$49.0)	(\$59.5)	(\$65.6)	(074.0)	(\$246.1)	(\$66.7)	(\$87.8)	(\$70.0)	(\$75.0)	(\$299.6)	(\$70.0)	(070.0)	(\$75.0)	(\$85.0)	(\$300.0)	(\$310.0)
Capital expenditures - property and equipment	\$0.0	(\$49.0)	(\$6.6)	(365.6)	(\$71.9) \$0.0	(\$246.1)	(\$39.1)	(\$87.8)	\$0.0	(\$75.0) \$0.0	(\$299.6)	(\$70.0) \$0.0	(\$70.0) \$0.0	(\$75.0) \$0.0	(\$85.0) \$0.0	(\$300.0) \$0.0	\$0.0
Acquisition of franchise restaurants, net of cash acquired Proceeds from sale of property and equipment, incl. insurance p	\$0.0 \$5.6	\$2.2	\$0.3	\$0.0 \$9.2	\$3.8	(\$33.1) \$15.5	(\$39.1) \$2.5	(\$0.0) \$5.2	\$0.0	\$0.0	(\$39.2) \$7.7	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0
Other	\$0.0	\$2.2 \$0.0	\$0.3 \$0.0	\$9.2 \$0.0	\$0.0	\$0.0	\$2.5 \$0.0	\$0.2 \$0.0	\$0.0	\$0.0	\$7.7	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0
Net Investing Cash Flows	(\$195.1)	(\$73.3)	(\$65.9)	(\$56.5)	(\$68.1)	(\$263.7)	(\$103.3)	(\$82.7)	(\$70.0)	(\$75.0)	(\$331.0)	(\$70.0)	(\$70.0)	(\$75.0)	(\$85.0)	(\$300.0)	(\$310.0)
Year-to-date	(\$133.1)	(\$73.3)	(\$139.1)	(\$195.6)	(\$263.7)	(\$205.7)	(\$103.3)	(\$186.0)	(\$256.0)	(\$331.0)	(\$331.0)	(\$70.0)	(\$140.0)	(\$215.0)	(\$300.0)	(\$300.0)	(\$510.0)
		(+1-010)	(0.00.)	(4.000)	(0=0011)		(41000)	(+)	(0=0010)	(400110)		(41.010)	(0)	(+=)	(400000)		1
Financing Cash Flows																	1
Proceeds from revolving credit facility, net	(\$140.0)	\$0.0	(\$25.0)	\$0.0	(\$25.0)	(\$50.0)	(\$50.0)	\$0.0	\$0.0	\$0.0	(\$50.0)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt issuance costs	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Proceeds from finance lease obligation	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Proceeds from noncontrolling interest contribution	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Repurchase of shares of common stock	(\$51.6)	(\$84.7)	(\$128.2)	\$0.0	\$0.0	(\$212.9)	(\$9.6)	(\$23.4)	(\$20.0)	(\$20.0)	(\$73.1)	(\$25.0)	(\$25.0)	(\$25.0)	(\$25.0)	(\$100.0)	(\$110.0)
Distributions to noncontrolling interest holders	\$0.0	(\$2.0)	(\$3.9)	(\$1.7)	(\$1.9)	(\$9.5)	(\$2.0)	(\$2.2)	\$0.0	\$0.0	(\$4.1)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Excess tax benefits from share-based compensation	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Proceeds from stock option and other deposits, net	\$0.0	\$0.3	(\$0.1)	(\$0.0)	\$0.2	\$0.3	\$0.5	(\$0.1)	\$0.0	\$0.0	\$0.4	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Repayment of stock option and other deposits, net	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Indirect repurchase of shares for minimum tax withholdings	\$0.0	(\$6.2)	(\$2.5)	(\$2.4)	(\$2.5)	(\$13.6)	(\$5.4)	(\$2.8)	\$0.0	\$0.0	(\$8.2)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Principal payments on long-term debt and capital lease obligation	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Excess tax benefits from share-based compensation	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Dividends paid to shareholders	(\$83.7)	(\$31.8)	(\$30.8)	(\$30.8)	(\$30.8)	(\$124.1)	(\$36.9)	(\$36.8)	(\$36.8)	(\$36.7)	(\$147.2)	(\$44.0)	(\$43.9)	(\$43.8)	(\$43.7)	(\$175.3)	(\$208.5)
Investments in unconsolidated affiliates	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0
Other	(\$25.9)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0	\$0.0
Net Financing Cash Flows	(\$301.2)	(\$124.4)	(\$190.4)	(\$35.0)	(\$60.0)	(\$409.8)	(\$103.4)	(\$65.4)	(\$56.8)	(\$56.7)	(\$282.3)	(\$69.0)	(\$68.9)	(\$68.8)	(\$68.7)	(\$275.3)	(\$318.5)
Year-to-date		(\$124.4)	(\$314.8)	(\$349.8)	(\$409.8)		(\$103.4)	(\$168.8)	(\$225.5)	(\$282.3)		(\$69.0)	(\$137.9)	(\$206.6)	(\$275.3)		1
Change in cash and equivalents	(\$27.5)	(\$9.9)	(\$145.3)	\$4.9	(\$11.5)	(\$161.8)	(\$17.7)	(\$48.8)	(\$17.2)	\$32.0	(\$51.7)	(\$44.1)	\$47.1	(\$26.7)	\$25.7	\$2.0	\$3.9
Cash at beginning of period	\$363.2	\$335.6	\$325.7	\$180.4	\$185.3	\$335.6	\$173.9	\$156.1	\$107.3	\$90.1	\$173.9	\$122.2	\$78.1	\$125.2	\$98.4	\$122.2	\$124.1
Cash at end of period	\$335.6	\$325.7	\$180.4	\$185.3	\$173.9	\$173.9	\$156.1	\$107.3	\$90.1	\$122.2	\$173.9	\$78.1	\$125.2	\$98.4	\$124.1	\$124.1	\$128.1
outh at the of period	\$000.0	4020. 1	\$100.4	\$100.3	\$175.9	\$175.9	\$150.1	\$107.3	930.1	9122.2	9122.2	\$10.1	9123.2	930.4	φ124.1	\$124.1	\$120.1
Cash on Balance Sheet	\$335.6	\$325.7	\$180.4	\$185.3	\$173.9	\$173.9	\$156.1	\$107.3	\$90.1	\$122.2	\$122.2	\$78.1	\$125.2	\$98.4	\$124.1	\$124.1	\$128.1
check	-	- VOLU.7	Ψ.00.4	ψ.00.0	ψ1.70.0	ŲO.B	ψ100.1	ψ.σσ	400.1	ψ.LL.E	Ψ	ψ. σ. ι	ψ.LU.2	400.4	ψ (±-4.1	ψ12-4.1	ψ.L.O.1
000000000000000000000000000000000000000																	1 1
Free Cash Flow	2021	1Q22	2Q22	3022	4Q22	2022	1Q23	2Q23	3Q23E	4Q23E	2023E	1Q24E	2Q24E	3Q24E	4Q24E	2024E	2025E
Operating Cash Flow	\$468.8	\$187.8	\$110.9	\$96.4	\$116.7	\$511.7	\$189.0	\$99.3	\$109.6	\$163.8	\$561.6	\$94.9	\$186.0	\$117.0	\$179.4	\$577.3	\$632.4
Less: Capex	(\$200.7)	(\$49.0)	(\$59.5)	(\$65.6)	(\$71.9)	(\$246.1)	(\$66.7)	(\$87.8)	(\$70.0)	(\$75.0)	(\$299.6)	(\$70.0)	(\$70.0)	(\$75.0)	(\$85.0)	(\$300.0)	(\$310.0)
Free Cash Flow	\$268.1	\$138.7	\$51.4	\$30.7	\$44.7	\$265.6	\$122.2	\$11.4	\$39.6	\$88.8	\$262.0	\$24.9	\$116.0	\$42.0	\$94.4	\$277.3	\$322.4

Source : Company data, Deutsche Bank estimates



Appendix 1

Important Disclosures

*Other information available upon request

Disclosure checklist			
Company	Ticker	Recent price*	Disclosure
Texas Roadhouse	TXRH OO	96 19 (USD) 20 Oct 2023	NA

^{*}Prices are current as of the end of the previous trading session unless otherwise indicated and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Other information is sourced from Deutsche Bank, subject companies, and other sources. For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at https://research.db.com/Research/Disclosures/Dis

Important Disclosures Required by U.S. Regulators

Disclosures marked with an asterisk may also be required by at least one jurisdiction in addition to the United States. See Important Disclosures Required by Non-US Regulators and Explanatory Notes.

Important Disclosures Required by Non-U.S. Regulators

Disclosures marked with an asterisk may also be required by at least one jurisdiction in addition to the United States. See Important Disclosures Required by Non-US Regulators and Explanatory Notes.

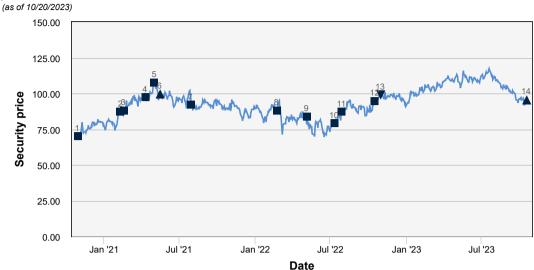
For disclosures pertaining to recommendations or estimates made on securities other than the primary subject of this research, please see the most recently published company report or visit our global disclosure look-up page on our website at https://research.db.com/Research/Disclosures/EquityResearchDisclosures. Aside from within this report, important risk and conflict disclosures can also be found at https://research.db.com/Research/Disclosures/Disclosures/Disclosures are strongly encouraged to review this information before investing.

Analyst Certification

The views expressed in this report accurately reflect the personal views of the undersigned lead analyst(s) about the subject issuer and the securities of the issuer. In addition, the undersigned lead analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report. Lauren Silberman.



Historical recommendations and target price: Texas Roadhouse (TXRH.OQ)



Current Recommendations

Buy Hold Sell Not Rated Suspended Rating

** Analyst is no longer at Deutsche Bank

1.	10/30/2020	Hold, Target Price Change USD 68.00, Current Price USD 70.03 Brian Mullan**	8.	02/23/2022	Buy, Target Price Change USD 112.00, Current Price USD 88.02 Brian Mullan**
2.	02/10/2021	Hold, Target Price Change USD 83.00, Current Price USD 87.24 Brian Mullan**	9.	05/06/2022	Buy, Target Price Change USD 107.00, Current Price USD 83.91 Brian Mullan**
3.	02/19/2021	Hold, Target Price Change USD 80.00, Current Price USD 87.91 Brian Mullan**	10.	07/12/2022	Buy, Target Price Change USD 91.00, Current Price USD 79.06 Brian Mullan**
4.	04/12/2021	Hold, Target Price Change USD 102.00, Current Price USD 97.56 Brian Mullan**	11.	07/29/2022	Buy, Target Price Change USD 97.00, Current Price USD 87.22 Brian Mullan**
5.	05/03/2021	Hold, Target Price Change USD 116.00, Current Price USD 107.41 Brian Mullan**	12.	10/17/2022	Buy, Target Price Change USD 100.00, Current Price USD 94.58 Brian Mullan**
6.	05/17/2021	Upgraded to Buy, Target Price Change USD 116.00, Current Price USD 99.67 Brian Mullan**	13.	10/31/2022	Downgraded to Hold, Target Price Change USD 101.00, Current Price USD 98.95 Brian Mullan**
7.	07/30/2021	Buy, Target Price Change USD 118.00, Current Price USD 92.17 Brian Mullan**	14.	10/18/2023	Upgraded to Buy, Target Price Change USD 111.00, Current Price USD 95.49 Raymon Wang

Equity Rating Key

Buy: Based on a current 12-month view of TSR, we recommend that investors buy the stock.

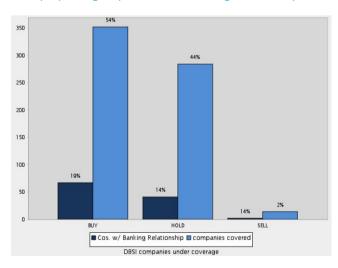
Sell: Based on a current 12-month view of TSR, we recommend that investors sell the stock.

Hold: We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell.

TSR = Total Shareholder Return. Percentage change in share price from current price to projected target price plus projected dividend yield

Newly issued research recommendations and target prices supersede previously published research.

Equity rating dispersion and banking relationships





Additional Information

The information and opinions in this report were prepared by Deutsche Bank AG or one of its affiliates (collectively 'Deutsche Bank'). Though the information herein is believed to be reliable and has been obtained from public sources believed to be reliable, Deutsche Bank makes no representation as to its accuracy or completeness. Hyperlinks to third-party websites in this report are provided for reader convenience only. Deutsche Bank neither endorses the content nor is responsible for the accuracy or security controls of those websites.

Effective 13 October 2023, Deutsche Bank AG acquired Numis Corporation Plc and its subsidiaries (the "Numis Group"). Numis Securities Limited ("NSL") is a member of the Numis Group and a firm authorised and regulated by the Financial Conduct Authority (Firm Reference Number: 144822). Deutsche Bank AG provides clients with, amongst other services, Investment Research services. NSL provides clients with, amongst other services, non-independent research services.

During an initial integration process, the research departments of Deutsche Bank AG and NSL will remain operationally distinct. Consequently, disclosures relating to conflicts of interest that may exist for Deutsche Bank AG and/or its affiliates do not currently take into account the business and activities of the Numis Group. The conflicts of interest that may exist for the Numis Group, in relation to the provision of research, can be found on the Numis website at https://www.numis.com/legal-and-regulatory/conditions-and-disclaimers-that-govern-research-contained-in-the-research-pages-of-this-website. The disclosures on this Numis webpage do not currently take into account the business and activities of Deutsche Bank AG and/or its affiliates which are not members of the Numis Group.

Additionally, any detailed conflicts of interest disclosures pertaining to a specific recommendation or estimate made on a security mentioned in this report or which have been included in our most recently published company report or found on our global disclosure look-up page, do not currently take into account the business and activities of the Numis Group. Instead, details of detailed conflicts of interest disclosures for the Numis Group, relating to specific issuers or securities, can be found at: https://library.numis.com/regulatory_notice. The issuer/security-specific conflict of interest disclosures on this Numis webpage do not take into account the business and activities of Deutsche Bank and/or its affiliates which are not members of the Numis Group.

If you use the services of Deutsche Bank in connection with a purchase or sale of a security that is discussed in this report, or is included or discussed in another communication (oral or written) from a Deutsche Bank analyst, Deutsche Bank may act as principal for its own account or as agent for another person.

Deutsche Bank may consider this report in deciding to trade as principal. It may also engage in transactions, for its own account or with customers, in a manner inconsistent with the views taken in this research report. Others within Deutsche Bank, including strategists, sales staff and other analysts, may take views that are inconsistent with those taken in this research report. Deutsche Bank issues a variety of research products, including fundamental analysis, equity-linked analysis, quantitative analysis and trade ideas. Recommendations contained in one type of communication may differ from recommendations contained in others, whether as a result of differing time horizons, methodologies, perspectives or otherwise. Deutsche Bank and/or its affiliates may also be holding debt or equity securities of the issuers it writes on. Analysts are paid in part based on the profitability of Deutsche Bank AG and its affiliates, which includes investment banking, trading and principal trading revenues.

Opinions, estimates and projections constitute the current judgment of the author as of the date of this report. They do not necessarily reflect the opinions of Deutsche Bank and are subject to change without notice. Deutsche Bank provides liquidity for buyers and sellers of securities issued by the companies it covers. Deutsche Bank research analysts sometimes have shorter-term trade ideas that may be inconsistent with Deutsche Bank's existing longer-term ratings. Some trade ideas for equities are listed as Catalyst Calls on the Research Website (https://research.db.com/Research/), and can be found on the general coverage list and also on the covered company's page. A Catalyst Call represents a high-conviction belief by an analyst that a stock will outperform or underperform the market and/or a specified sector over a time frame of no less than two weeks and no more than three months. In addition to Catalyst Calls, analysts may occasionally discuss with our clients, and with Deutsche Bank salespersons and traders, trading strategies or ideas that reference catalysts or events that may have a nearterm or medium-term impact on the market price of the securities discussed in this report, which impact may be directionally counter to the analysts' current 12-month view of total return or investment return as described herein. Deutsche Bank has no obligation to update, modify or amend this report or to otherwise notify a recipient thereof if an opinion, forecast or estimate changes or becomes inaccurate. Coverage and the frequency of changes in market conditions and in both general and company-specific economic prospects make it difficult to update research at defined intervals. Updates are at the sole discretion of the coverage analyst or of the Research Department Management, and the majority of reports are published at irregular intervals. This report is provided for informational purposes only and does not take into account the particular investment objectives, financial situations, or needs of individual clients. It is not an offer or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Target prices are inherently imprecise and a product of the analyst's judgment. The financial instruments discussed in this report may not be suitable for all investors, and investors must make their own informed investment decisions. Prices and availability of financial instruments are subject to change without notice, and investment transactions can lead to losses as a result of price fluctuations and other factors. If a financial instrument is denominated in a currency other than an investor's currency, a change in exchange rates may adversely affect the investment. Past performance is not necessarily indicative of future results. Performance calculations exclude transaction costs, unless otherwise indicated. Unless otherwise indicated, prices are current as of the end of the previous trading session and are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is also sourced from Deutsche Bank, subject companies, and other parties.



The Deutsche Bank Research Department is independent of other business divisions of the Bank. Details regarding our organizational arrangements and information barriers we have to prevent and avoid conflicts of interest with respect to our research are available on our website (https://research.db.com/Research/) under Disclaimer.

Macroeconomic fluctuations often account for most of the risks associated with exposures to instruments that promise to pay fixed or variable interest rates. For an investor who is long fixed-rate instruments (thus receiving these cash flows), increases in interest rates naturally lift the discount factors applied to the expected cash flows and thus cause a loss. The longer the maturity of a certain cash flow and the higher the move in the discount factor, the higher will be the loss. Upside surprises in inflation, fiscal funding needs, and FX depreciation rates are among the most common adverse macroeconomic shocks to receivers. But counterparty exposure, issuer creditworthiness, client segmentation, regulation (including changes in assets holding limits for different types of investors), changes in tax policies, currency convertibility (which may constrain currency conversion, repatriation of profits and/or liquidation of positions), and settlement issues related to local clearing houses are also important risk factors. The sensitivity of fixed-income instruments to macroeconomic shocks may be mitigated by indexing the contracted cash flows to inflation, to FX depreciation, or to specified interest rates - these are common in emerging markets. The index fixings may - by construction - lag or mis-measure the actual move in the underlying variables they are intended to track. The choice of the proper fixing (or metric) is particularly important in swaps markets, where floating coupon rates (i.e., coupons indexed to a typically short-dated interest rate reference index) are exchanged for fixed coupons. Funding in a currency that differs from the currency in which coupons are denominated carries FX risk. Options on swaps (swaptions) the risks typical to options in addition to the risks related to rates movements.

Derivative transactions involve numerous risks including market, counterparty default and illiquidity risk. The appropriateness of these products for use by investors depends on the investors' own circumstances, including their tax position, their regulatory environment and the nature of their other assets and liabilities; as such, investors should take expert legal and financial advice before entering into any transaction similar to or inspired by the contents of this publication. The risk of loss in futures trading and options, foreign or domestic, can be substantial. As a result of the high degree of leverage obtainable in futures and options trading, losses may be incurred that are greater than the amount of funds initially deposited - up to theoretically unlimited losses. Trading in options involves risk and is not suitable for all investors. Prior to buying or selling an option, investors must review the 'Characteristics and Risks of Standardized Options", at http://www.optionsclearing.com/about/publications/character-risks.jsp. If you are unable to access the website, please contact your Deutsche Bank representative for a copy of this important document.

Participants in foreign exchange transactions may incur risks arising from several factors, including the following: (i) exchange rates can be volatile and are subject to large fluctuations; (ii) the value of currencies may be affected by numerous market factors, including world and national economic, political and regulatory events, events in equity and debt markets and changes in interest rates; and (iii) currencies may be subject to devaluation or government-imposed exchange controls, which could affect the value of the currency. Investors in securities such as ADRs, whose values are affected by the currency of an underlying security, effectively assume currency risk.

Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. Aside from within this report, important conflict disclosures can also be found at https://research.db.com/Research/ on each company's research page. Investors are strongly encouraged to review this information before investing.

Deutsche Bank (which includes Deutsche Bank AG, its branches and affiliated companies) is not acting as a financial adviser, consultant or fiduciary to you or any of your agents (collectively, "You" or "Your") with respect to any information provided in this report. Deutsche Bank does not provide investment, legal, tax or accounting advice, Deutsche Bank is not acting as your impartial adviser, and does not express any opinion or recommendation whatsoever as to any strategies, products or any other information presented in the materials. Information contained herein is being provided solely on the basis that the recipient will make an independent assessment of the merits of any investment decision, and it does not constitute a recommendation of, or express an opinion on, any product or service or any trading strategy.

The information presented is general in nature and is not directed to retirement accounts or any specific person or account type, and is therefore provided to You on the express basis that it is not advice, and You may not rely upon it in making Your decision. The information we provide is being directed only to persons we believe to be financially sophisticated, who are capable of evaluating investment risks independently, both in general and with regard to particular transactions and investment strategies, and who understand that Deutsche Bank has financial interests in the offering of its products and services. If this is not the case, or if You are an IRA or other retail investor receiving this directly from us, we ask that you inform us immediately.

In July 2018, Deutsche Bank revised its rating system for short term ideas whereby the branding has been changed to Catalyst Calls ("CC") from SOLAR ideas; the rating categories for Catalyst Calls originated in the Americas region have been made consistent with the categories used by Analysts globally; and the effective time period for CCs has been reduced from a maximum of 180 days to 90 days.

United States: Approved and/or distributed by Deutsche Bank Securities Incorporated, a member of FINRA, NFA and SIPC. Analysts located outside of the United States are employed by non-US affiliates that are not subject to FINRA regulations.

European Economic Area (exc. United Kingdom): Approved and/or distributed by Deutsche Bank AG, a joint stock corporation with limited liability incorporated in the Federal Republic of Germany with its principal office in Frankfurt am Main. Deutsche Bank AG is authorized under German Banking Law and is subject to supervision by the European Central Bank and



by BaFin, Germany's Federal Financial Supervisory Authority.

United Kingdom: Approved and/or distributed by Deutsche Bank AG acting through its London Branch at Winchester House, 1 Great Winchester Street, London EC2N 2DB. Deutsche Bank AG in the United Kingdom is authorised by the Prudential Regulation Authority and is subject to limited regulation by the Prudential Regulation Authority and Financial Conduct Authority. Details about the extent of our authorisation and regulation are available on request.

Hong Kong SAR: Distributed by Deutsche Bank AG, Hong Kong Branch except for any research content relating to futures contracts within the meaning of the Hong Kong Securities and Futures Ordinance Cap. 571. Research reports on such futures contracts are not intended for access by persons who are located, incorporated, constituted or resident in Hong Kong. The author(s) of a research report may not be licensed to carry on regulated activities in Hong Kong and, if not licensed, do not hold themselves out as being able to do so. The provisions set out above in the 'Additional Information' section shall apply to the fullest extent permissible by local laws and regulations, including without limitation the Code of Conduct for Persons Licensed or Registered with the Securities and Futures Commission. This report is intended for distribution only to 'professional investors' as defined in Part 1 of Schedule of the SFO. This document must not be acted or relied on by persons who are not professional investors. Any investment or investment activity to which this document relates is only available to professional investors and will be engaged only with professional investors.

India: Prepared by Deutsche Equities India Private Limited (DEIPL) having CIN: U65990MH2002PTC137431 and registered office at 14th Floor, The Capital, C-70, G Block, Bandra Kurla Complex, Mumbai (India) 400051. Tel: + 91 22 7180 4444. It is registered by the Securities and Exchange Board of India (SEBI) as a Stock broker bearing registration no.: INZ000252437; Merchant Banker bearing SEBI Registration no.: INM000010833 and Research Analyst bearing SEBI Registration no.: INH000001741. DEIPL's Compliance / Grievance officer is Ms. Rashmi Poddar (Tel: +91 22 7180 4929, email ID: complaints.deipl@db.com). Registration granted by SEBI and certification from NISM in no way guarantee performance of DEIPL or provide any assurance of returns to investors. Investment in securities market are subject to market risks. Read all the related documents carefully before investing. DEIPL may have received administrative warnings from the SEBI for breaches of Indian regulations. Deutsche Bank and/or its affiliate(s) may have debt holdings or positions in the subject company. With regard to information on associates, please refer to the "Shareholdings" section in the Annual Report at: https://www.db.com/ir/en/annual-reports.htm.

Japan: Approved and/or distributed by Deutsche Securities Inc.(DSI). Registration number - Registered as a financial instruments dealer by the Head of the Kanto Local Finance Bureau (Kinsho) No. 117. Member of associations: JSDA, Type II Financial Instruments Firms Association and The Financial Futures Association of Japan. Commissions and risks involved in stock transactions - for stock transactions, we charge stock commissions and consumption tax by multiplying the transaction amount by the commission rate agreed with each customer. Stock transactions can lead to losses as a result of share price fluctuations and other factors. Transactions in foreign stocks can lead to additional losses stemming from foreign exchange fluctuations. We may also charge commissions and fees for certain categories of investment advice, products and services. Recommended investment strategies, products and services carry the risk of losses to principal and other losses as a result of changes in market and/or economic trends, and/or fluctuations in market value. Before deciding on the purchase of financial products and/or services, customers should carefully read the relevant disclosures, prospectuses and other documentation. 'Moody's', 'Standard Poor's', and 'Fitch' mentioned in this report are not registered credit rating agencies in Japan unless Japan or 'Nippon' is specifically designated in the name of the entity. Reports on Japanese listed companies not written by analysts of DSI are written by Deutsche Bank Group's analysts with the coverage companies specified by DSI. Some of the foreign securities stated on this report are not disclosed according to the Financial Instruments and Exchange Law of Japan. Target prices set by Deutsche Bank's equity analysts are based on a 12-month forecast period.

Korea: Distributed by Deutsche Securities Korea Co.

South Africa: Deutsche Bank AG Johannesburg is incorporated in the Federal Republic of Germany (Branch Register Number in South Africa: 1998/003298/10).

Singapore: This report is issued by Deutsche Bank AG, Singapore Branch (One Raffles Quay #18-00 South Tower Singapore 048583, 65 6423 8001), which may be contacted in respect of any matters arising from, or in connection with, this report. Where this report is issued or promulgated by Deutsche Bank in Singapore to a person who is not an accredited investor, expert investor or institutional investor (as defined in the applicable Singapore laws and regulations), they accept legal responsibility to such person for its contents.

Taiwan: Information on securities/investments that trade in Taiwan is for your reference only. Readers should independently evaluate investment risks and are solely responsible for their investment decisions. Deutsche Bank research may not be distributed to the Taiwan public media or quoted or used by the Taiwan public media without written consent. Information on securities/instruments that do not trade in Taiwan is for informational purposes only and is not to be construed as a recommendation to trade in such securities/instruments.

Qatar: Deutsche Bank AG in the Qatar Financial Centre (registered no. 00032) is regulated by the Qatar Financial Centre Regulatory Authority. Deutsche Bank AG - QFC Branch may undertake only the financial services activities that fall within the scope of its existing QFCRA license. Its principal place of business in the QFC: Qatar Financial Centre, Tower, West Bay, Level 5, PO Box 14928, Doha, Qatar. This information has been distributed by Deutsche Bank AG. Related financial products or services are only available only to Business Customers, as defined by the Qatar Financial Centre Regulatory Authority.



Russia: The information, interpretation and opinions submitted herein are not in the context of, and do not constitute, any appraisal or evaluation activity requiring a license in the Russian Federation.

Kingdom of Saudi Arabia: Deutsche Securities Saudi Arabia (DSSA) is a closed joint stock company authorized by the Capital Market Authority of the Kingdom of Saudi Arabia with a license number (No. 37-07073) to conduct the following business activities: Dealing, Arranging, Advising, and Custody activities. DSSA registered office is Faisaliah Tower, 17th Floor, King Fahad Road - Al Olaya District Riyadh, Kingdom of Saudi Arabia P.O. Box 301806.

United Arab Emirates: Deutsche Bank AG in the Dubai International Financial Centre (registered no. 00045) is regulated by the Dubai Financial Services Authority. Deutsche Bank AG - DIFC Branch may only undertake the financial services activities that fall within the scope of its existing DFSA license. Principal place of business in the DIFC: Dubai International Financial Centre, The Gate Village, Building 5, PO Box 504902, Dubai, U.A.E. This information has been distributed by Deutsche Bank AG. Related financial products or services are available only to Professional Clients, as defined by the Dubai Financial Services Authority.

Australia and New Zealand: This research is intended only for 'wholesale clients' within the meaning of the Australian Corporations Act and New Zealand Financial Advisors Act, respectively. Please refer to Australia-specific research disclosures and related information at https://www.dbresearch.com/PROD/RPS_EN-PROD/PROD00000000000521304.xhtml. Where research refers to any particular financial product recipients of the research should consider any product disclosure statement, prospectus or other applicable disclosure document before making any decision about whether to acquire the product. In preparing this report, the primary analyst or an individual who assisted in the preparation of this report has likely been in contact with the company that is the subject of this research for confirmation/clarification of data, facts, statements, permission to use company-sourced material in the report, and/or site-visit attendance. Without prior approval from Research Management, analysts may not accept from current or potential Banking clients the costs of travel, accommodations, or other expenses incurred by analysts attending site visits, conferences, social events, and the like. Similarly, without prior approval from Research Management and Anti-Bribery and Corruption ("ABC") team, analysts may not accept perks or other items of value for their personal use from issuers they cover.

Additional information relative to securities, other financial products or issuers discussed in this report is available upon request. This report may not be reproduced, distributed or published without Deutsche Bank's prior written consent.

Backtested, hypothetical or simulated performance results have inherent limitations. Unlike an actual performance record based on trading actual client portfolios, simulated results are achieved by means of the retroactive application of a backtested model itself designed with the benefit of hindsight. Taking into account historical events the backtesting of performance also differs from actual account performance because an actual investment strategy may be adjusted any time, for any reason, including a response to material, economic or market factors. The backtested performance includes hypothetical results that do not reflect the reinvestment of dividends and other earnings or the deduction of advisory fees, brokerage or other commissions, and any other expenses that a client would have paid or actually paid. No representation is made that any trading strategy or account will or is likely to achieve profits or losses similar to those shown. Alternative modeling techniques or assumptions might produce significantly different results and prove to be more appropriate. Past hypothetical backtest results are neither an indicator nor guarantee of future returns. Actual results will vary, perhaps materially, from the analysis.

The method for computing individual E,S,G and composite ESG scores set forth herein is a novel method developed by the Research department within Deutsche Bank AG, computed using a systematic approach without human intervention. Different data providers, market sectors and geographies approach ESG analysis and incorporate the findings in a variety of ways. As such, the ESG scores referred to herein may differ from equivalent ratings developed and implemented by other ESG data providers in the market and may also differ from equivalent ratings developed and implemented by other divisions within the Deutsche Bank Group. Such ESG scores also differ from other ratings and rankings that have historically been applied in research reports published by Deutsche Bank AG. Further, such ESG scores do not represent a formal or official view of Deutsche Bank AG. It should be noted that the decision to incorporate ESG factors into any investment strategy may inhibit the ability to participate in certain investment opportunities that otherwise would be consistent with your investment objective and other principal investment strategies. The returns on a portfolio consisting primarily of sustainable investments may be lower or higher than portfolios where ESG factors, exclusions, or other sustainability issues are not considered, and the investment opportunities available to such portfolios may differ. Companies may not necessarily meet high performance standards on all aspects of ESG or sustainable investing issues; there is also no guarantee that any company will meet expectations in connection with corporate responsibility, sustainability, and/or impact performance.

Copyright © 2023 Deutsche Bank AG



David Folkerts-Landau

Group Chief Economist and Global Head of Research

Pam Finelli Global Chief Operating Officer Research Steve Pollard Global Head of Company Research and Sales Jim Reid Global Head of Macro and Thematic Research Tim Rokossa Head of Germany Research

Gerry Gallagher Head of European Company Research Matthew Barnard Head of Americas Company Research Peter Milliken Head of APAC Company Research Debbie Jones Global Head of Company Research ESG

Sameer Goel Global Head of EM & APAC Research Francis Yared Global Head of Rates Research George Saravelos Global Head of FX Research Peter Hooper Vice-Chair of Research

International Production Locations

Deutsche Bank AG

Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia Tel: (61) 2 8258 1234

Deutsche Bank AG

1 Great Winchester Street London EC2N 2EQ United Kingdom Tel: (44) 20 7545 8000 Deutsche Bank AG

Equity Research Mainzer Landstrasse 11-17 60329 Frankfurt am Main Germany Tel: (49) 69 910 00

Deutsche Bank Securities Inc.

The Deutsche Bank Center 1 Columbus Circle New York, NY 10019 Tel: (1) 212 250 2500 Deutsche Bank AG Deutsche Sei

Filiale Hongkong International Commerce Centre, 1 Austin Road West,Kowloon, Hong Kong Tel: (852) 2203 8888 Deutsche Securities Inc.

2-11-1 Nagatacho Sanno Park Tower Chiyoda-ku, Tokyo 100-6171 Japan Tel: (81) 3 5156 6000