J.P.Morgan

Pirelli

Top tyre pick. Reiterate OW with a raised PT of €6.5

Pirelli has delivered strong earnings growth in the first half of 2023 despite a worsening tyre market outlook (especially in Europe) and transactional FX headwinds. We see that investors have been on the sidelines following the Golden Power Procedure and organisational changes at Pirelli, but we think this presents a buying opportunity in the medium term. In an uncertain macroeconomic environment, Pirelli provides a relative "safe" haven and is the most compelling tyre stock to own with a High Value (HV)/Specialty focus and earnings growth. We see strong upside from current levels, given Pirelli's growth outlook, strong position in EVs and China, three upcoming catalysts and key valuation support. On earnings estimates (adj. Ebit), we are 5% ahead of consensus expectations for the next 3 years. We remain OW with a raised PT of €6.5 (£6.8), based on our earnings forecasts.

- A strong, underappreciated HV Replacement (RT) Cycle ahead: HV tyre demand (OE+RT) should grow by a HSD % CAGR over the next 3-4 years (2023-26/27e), in our view. This should be driven by a double-digit growth in HV RT tyres (growing car parc for >18" tyres globally and pull-through from HV OE shipments) and supported by a low-to-mid single digit % growth in HV OE tyres (with underlying market growth and Pirelli's high market share in EV tyres). Overall, we expect HV sales for Pirelli to grow by €1.0-1.5bn by 2027.
- Green Transition enhancing competitive barriers. The current penetration of HV tyres in the car parc is 20%/35%/<10% in EU/NA and China respectively. The current penetration of BEVs in the car parc is <3%. Tier 1 tyremakers have a dominant position in Specialty tyres (run flat, seal inside, noise cancelling, cyber tyres). As the market moves towards bigger rim sizes (>18" tyres) and EV tyres, the demands from a tyre (and the technological edge of Tier 1s) will increase, in our view. These tyres need to have lower weight and an advanced rubber compound for better performance and longer life. Lower rolling resistance and lower tyre noise are key differentiators for EV tyres. Safety, comfort, performance and technology will lead to higher pricing power and margin benefits (details in the note).
- **Profit drivers**: 1) Room for profitable growth in HV RT (primarily in NA and China); 2) Market share opportunities in Europe (with Nokian losing share) and Russia; 3) Arguably the only sub-sector where China is still an earnings driver (through BEV OE tyres and a growing car parc); 4) Stabilization of Standard tyres in profitable niche and margin improvement.
- Revisiting medium-term targets: Overall, we expect Pirelli to guide for €500-€800m sales growth till 2025 and margins of >16%. We expect FCF of ~€585m by 2025 and the leverage ratio to fall to 0.9x. Our 2025 estimates are 6% ahead of company collected consensus. By 2027, we expect overall group revenues of ~€8bn and a 17-18% adj. Ebit margin target in the medium term.
- Catalysts: 1) JPM call with management (13 Sep); 2) 3Q 2023 results (9 Nov): RT market returning to growth. Continued price discipline and resilient product mix. 3) Mid-term update: 2025 Plan to be updated by the end of 2023.

Overweight

PIRC.MI, PIRC IM Price (08 Sep 23):€4.70

Price Target (Dec-24):€6.50Prior (Dec-24):€5.80

European Autos & Auto Parts

Jose M Asumendi AC

(44-20) 7742-5315 jose.m.asumendi@jpmorgan.com **Bloomberg** JPMA ASUMENDI <GO> J.P. Morgan Securities plc

Akshat Kacker, CFA

(44-20) 7134-6775 akshat.kacker@jpmorgan.com J.P. Morgan Securities plc

Pranay Khatwani

(91-22) 6157 5891 pranay.khatwani@jpmchase.com J.P. Morgan India Private Limited

Key Changes (FYE Dec)		
	Prev	Cur
Revenue - 24E (€ mn)	6,870	6,956
Adi ERIT - 24E (€ mn)	1.066	1 103

Style Exposure

Quant	Current	Hist %Rank (1=Top)						
Factors	%Rank	6M	1Y	3 Y	5Y			
Value	17	23	28	40	17			
Growth	32	34	8					
Momentum	47	36	30	56	70			
Quality	61	70	75	80	86			
Low Vol	51	38	38	28	30			
ESGQ	48	31	73	2	-			

Contents

Investment thesis - High Value focussed Specialties Tyre Leader	4
Revisiting medium-term targets and what was said at the last CMD (2021)	11
Snippets from the 1H 2023 results	13
Financials and Valuation	16

Sources for: Style Exposure - J.P. Morgan Quantitative and Derivatives Strategy; all other tables are company data and J.P. Morgan estimates.

See page 18 for analyst certification and important disclosures, including non-US analyst disclosures.

J.P. Morgan does and seeks to do business with companies 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.





Company Data	
Shares O/S (mn)	1,000
52-week range (€)	5.06-3.22
Market cap (\$ mn)	5,031.55
Exchange rate	0.93
Free float(%)	38.4%
3M - Avg daily vol (mn)	2.04
3M - Avg daily val (\$ mn)	10.1
Volatility (90 Day)	22
Index	STOXX Europe 600 Automobiles & Parts
BBG BUY HOLD SELL	14 5 0

BBG BUY HOLD SELL				14 5 0
Key Metrics (FYE Dec)				
€ in millions	FY22A	FY23E	FY24E	FY25E
Financial Estimates				
Revenue	6,616	6,606	6,956	7,352
Adj. EBITDA	1,373	1,460	1,549	1,653
Adj. EBIT	978	1,015	1,103	1,208
Adj. net income	415	397	472	534
Net margin	6.3%	6.0%	6.8%	7.3%
Adj. EPS	0.42	0.40	0.47	0.53
BBG EPS	0.55	0.50	0.56	0.62
Cashflow from operations	1,009	958	1,006	1,064
FCFF	611	472	508	585
Margins and Growth				
Revenue growth	24.1%	(0.1%)	5.3%	5.7%
EBITDA margin	20.8%	22.1%	22.3%	22.5%
EBITDA growth	13.4%	6.3%	6.1%	6.7%
EBIT margin	14.8%	15.4%	15.9%	16.4%
Adj. EPS growth	37.2%	(4.4%)	19.0%	13.1%
Ratios				
Adj. tax rate	28.8%	37.1%	35.4%	34.6%
Interest cover	6.8	6.6	7.2	7.2
Industrial Net Debt/Equity	0.5	0.4	0.3	0.2
Industrial Net Debt/EBITDA	1.8	1.5	1.2	0.9
ROCE	7.0%	6.5%	7.1%	7.6%
ROE	8.1%	7.3%	8.3%	8.8%
Valuation				
FCFF yield	13.0%	10.0%	10.8%	12.4%
Industrial Dividend yield	3.6%	3.5%	3.4%	4.0%
Industrial EV/EBITDA	5.3	5.1	4.4	3.9
Industrial EV/Sales	1.1	1.1	1.0	0.9
Industrial P/E	8.5	9.8	8.6	7.7

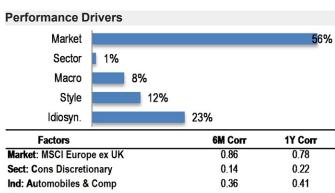
Summary Investment Thesis and Valuation

Investment Thesis

Pirelli has delivered strong earnings growth in the first half of 2023 despite a worsening tyre market outlook (especially in Europe) and transactional FX headwinds. We see that investors have been on the sidelines following the Golden Power Procedure and organisational changes at Pirelli, but we think this presents a buying opportunity in the medium term. In an uncertain macroeconomic environment, Pirelli provides a safe haven and is the most compelling tyre stock to own with a High Value (HV)/Specialty focus and earnings growth. We see strong upside from current levels, given Pirelli's growth outlook, strong position in EVs and China, three upcoming catalysts and key valuation support.

Valuation

We value Pirelli on a 1.2x EV/Sales (24e) multiple. On our price target Pirelli would trade on ~8x EV/adj. Ebit and ~12x P/E.



1 401010	· · · · · · · · · · · · · · · · · · ·	
Market: MSCI Europe ex UK	0.86	0.78
Sect: Cons Discretionary	0.14	0.22
Ind: Automobiles & Comp	0.36	0.41
Macro:		
Eurozone Exports	0.05	0.18
Eurozone CPI	0.19	0.14
Markit Eurozone Comp PMI	0.17	0.12
Quant Styles:		
DivYld	0.01	0.52
Value	0.12	0.51
Growth	-0.59	-0.46

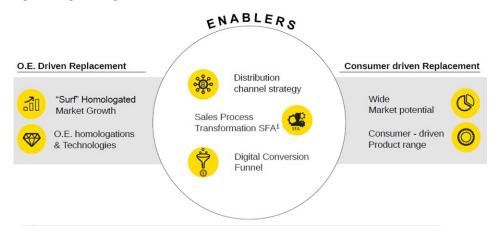


Investment thesis - High Value focussed Specialties Tyre Leader

1. A strong, underappreciated High Value Replacement Cycle Ahead

High value tyre demand (OE+RT) should grow by a high single digit percentage CAGR over the next 3-4 years (2023-26/27e), in our view. This should be driven by a double-digit growth in HV RT tyres (growing car parc for >18" tyres globally and pull-through from HV OE shipments) and supported by a low-to-mid single digit % growth in HV OE tyres (with underlying market growth and Pirelli's high market share in EV tyres). Overall, we expect HV sales for Pirelli to grow by €1.0-1.5bn by 2027.

Figure 1: High Value growth drivers



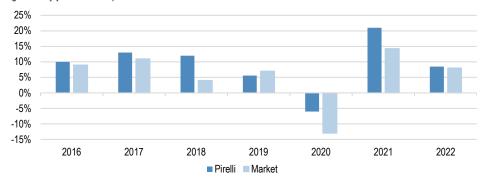
Source: Company data.

• O.E. Driven HV Replacement pull-through: Pirelli has had a strong push in the High Value OE market in the last few years, growing stronger than the market - primarily focussing on share wins in North America and APAC. O.E driven pull-through into Replacement remains the most profitable channel for tyremakers. Based on high loyalty rates of 85-90%, we expect high-single-digit growth in HV RT volumes (from OE pull-through alone) over the next three years. As shown in the chart below, Pirelli has grown its HV OE volumes at a 9% CAGR between 2015 and 2022 (vs the market CAGR of 5%).



Figure 2: O.E. Driven HV Replacement pull-through

High Value y/y sales development: Pirelli vs the market.

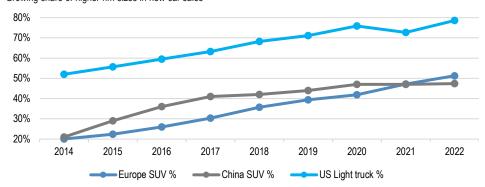


Source: J.P. Morgan.

- Widening market potential: the market potential for bigger rim size tyres has widened considerably over the last 7 years. As shown below, the SUV portion of sales in 3 key regions (Europe, NA and China) globally has increased by 20 to 30% in the last 7 years. As the car parc rolls over, with a 4-7 year lag, the market for bigger rim size tyres will grow substantially. This also open up opportunities for Pirelli to win new customers and gain market share from other brands, given its strong brand identity.
- Consumer-driven Replacement: consumers buy bigger rims and tyres for two main reasons performance and aesthetic. The second one is easy to explain bigger wheels just look "better" on a car. For performance, a bigger wheel has wider contact patches and has a higher influence on grip and handling. This is where the technological edge of Tier 1 tyremakers shines through. If bought for better performance, buying the "right" tyre becomes important as the weight of the tyre and the high-performance rubber compound are crucial for tyre performance. As the market moves to bigger rim sizes, Pirelli is favourably positioned to gain share in the Replacement market.

Figure 3: Key trends in new car sales

Growing share of higher rim sizes in new car sales



Source: J.P. Morgan.

Wide range of specialties: Specialty tyres are a key validation of the technological
edge and innovation at Pirelli. Pirelli is a clear leader in O.E marked items and has a
strong future homologation pipeline as well. These tyres have strong pricing power



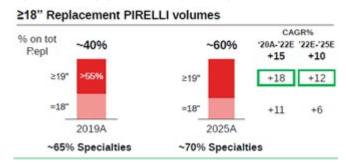
(up +20% pricing in replacement) and a strong loyalty with high replacement pull-through rates. At the last CMD in 2021, Pirelli had guided to \sim 70% of >18" RT volumes to be specialties in 2025.

Figure 4: Focus on Specialty tyres

Source: Company data.



Figure 5: Specialty tyres have stronger pricing power



Source: Company data.

2. Green Transition spurring innovation and enhancing Competitive Barriers

EV tyres are a competitive edge for Pirelli as they need to be technologically advanced to meet the higher load requirement (higher weight of batteries in an EV); lower rolling resistance is better for EV range and a lower tyre noise is good for ride comfort - a key complain for EV passengers. The demand for higher performance features creates a higher competitive barrier compared to rest of the business. Overall, we see three value drivers with EV tyres: 1) BEV launches focused on faster growing market segments like SUVs and crossovers: as OEMs move towards higher rim sizes as standard fitting, it would increase product mix and profitability within both the HV and Standard segments for Pirelli. 2) Longer wheelbase in BEVs makes OEMs opt for bigger rim sizes for aesthetic purposes. 3) More technology, higher performance requirements drive higher pricing and margins and possibly a faster replacement cycle.



Figure 6: EV Speciality Tyres - higher competitive barriers

Tyre for EVs are technologically challenging







Source: Company data

• EV tyres are a structural margin driver for Pirelli - 1% margin boost at Group level by 2025 and 2% margin boost by 2030. Pirelli has previously talked about a 10-15% pricing premium to a normal tyre. Current contribution to incremental margins is minimal as BEVs account for 10-15% share of new car sales in key markets and BEVs in the car parc are <3%. With the lag in the RT cycle, we expect to see a meaningful margin accretion only by 2024/2025 - when we expect ~1% margin benefit. At this point, BEVs should make for ~20% of new car sales and ~7% of the relevant car parc for Tier 1 tyre makers. By the end of the decade, we expect a 2% margin improvement for the Pirelli group (JPM estimates). At this point, we expect 60% of new cars sales to be BEVs and BEVs to form 25% of the relevant car parc (shown in Figure 8 below).

Figure 7: BEV penetration in key markets for Pirelli: Europe, NA and China (2017-2025)

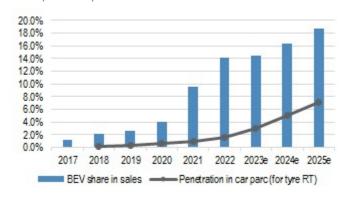
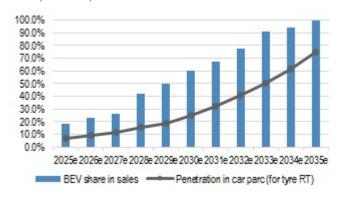


Figure 8: BEV penetration in key markets for Pirelli: Europe, NA, and China (2025-2035)



Source: J.P. Morgan estimates.

Source: J.P. Morgan estimates.

3. China - a long lasting growth opportunity

With frequent pandemic related shutdowns and overall restrictions on mobility, overall replacement (RT) tyre demand has been sluggish in China in the last few years. Between 2017 and 2022, we saw overall RT volumes declining at a 3% CAGR - with absolute levels down 15% vs. 2017. Till July 2023, we have seen the market rebound by 15% and we expect similar growth rates for the rest of the year. Despite the overall slowdown in



economic activity, we expect continued growth in China RT volumes in 2024 and assume a growth rate of +3%.

In the medium to long term, we see continued growth opportunities for Pirelli as the High Value OE market continues to grow (based on higher share of SUVs and EVs) and a strong replacement pull-through of >18" tyres in a growing car parc. Pirelli is the market leader in this space and has a market share of $\sim 25\%$.

Figure 9: Pirelli - leader in High value tyres

Share leader in China ≥18" ≥18" Repl. market share 2020

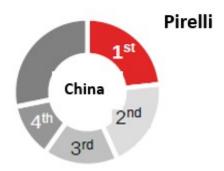


Figure 10: Pirelli - online channels in China

Partnering with top 3 platforms Tuhu, JD.com and Alibaba



Source: Company data

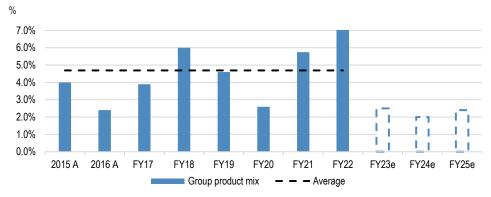
Source: Company data.

4. Profit Bridge Drivers

- Volumes: we expect tyre volumes for Pirelli overall to grow at a 3-3.5% CAGR between 2023 and 2026/27. This should be driven by a high single digit percentage CAGR in the High Value business. The Standard Tyre business has been cut by >40% in terms of volumes since the time of the IPO. We don't expect further volume reductions and expect Pirelli to focus on stabilisation in a profitable niche and achieving 12% Ebit margins.
- **Product-mix evolution**: Historically, Group price-mix has been driven by improving product mix within Standard tyres and greater focus on HV tyres (segment mix, i.e., growth difference between HV and Standard tyres). In the last 8 years, on average, Pirelli has delivered a product mix of ~5%. Going forward, we expect mix to be driven by >19" tyres, EV tyres and growing presence in North America and China. Also, the rising share of crossovers/SUVs in new car sales over the last 5 years should help in the replacement cycle. The relatively higher growth in HV compared to Standard will also contribute to mix. With a stronger-than-expected rebound in HV RT tyre market, new HV OE contracts and improving Standard tyre profitability, we conservatively expect product mix to be >2% between 2023 and 2025. Below we also show an estimate of product mix development within the 2 segments: High-value and Standard. We do this by looking at revenue change and volume change across the divisions in isolation. We then subtract group pricing and FX to come to the product mix estimate. Over the last 4 years, mix within the High value segment has averaged +2%; mix within the Standard segment has averaged +7%.



Figure 11: Group product mix evolution



Source: J.P. Morgan estimates, Company data.

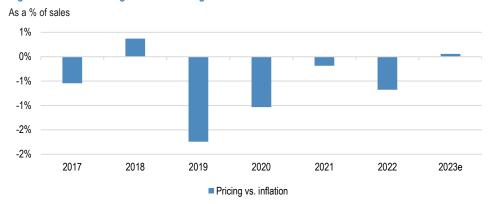
Figure 12: Micro mix estimate within the 2 segments



Source: J.P. Morgan estimates.

• Pricing vs inflation: We have seen stronger and better pricing vs inflation by Pirelli since 2021. Absolute pricing alone is expected to offset inflationary pressures in 2023 - with volume/product mix contributing to profit growth. A key question that is frequently asked is on the sustainability of this trend going into 2024. Energy, labour, and land transport is expected to be a 3-4% cost headwind and all competitors (especially importers) don't face the same inflation pressures — especially with sea freight costs coming down dramatically. As a starting point, we would flag that Pirelli is less exposed to down-trading and competition from cheaper imports as Pirelli a premium brand know for safety, performance, and high quality. Also, while sea freight has come down dramatically, higher land freight eats into some of those benefits.

Figure 13: Pirelli: Pricing and Cost savings vs. inflation



Source: J.P. Morgan estimates, Company data.

Figure 14: Shipping Index - Far East to North Europe

Short-term freight rate for a 40' container, \$ 16,000 14,000 12,000 10,000 8,000 6,000 4,000 2,000 02-Aug-18 12-Oct-18 22-Dec-18 03-Mar-19 23-Jul-19 02-Oct-19 12-Dec-19 21-Feb-20 21-Nov-21 31-Jan-22 12-Jun-22 01-Sep-22 11-Nov-22 21-Jan-23 12-Jun-23 02-May-.: 12-Jul-20 01-Dec-20 13-May-.. 21-Sep-20 10-Feb-21 22-Apr-21 02-Jul-21

Source: J.P. Morgan estimates, Bloomberg Finance L.P.



Revisiting medium-term targets and what was said at the last CMD (2021)

Within Pirelli's Industrial Plan, the 2023-2025 focus was on building on key leadership positions, by seizing growth in High Value (with shifting focus towards >19" tires, specialties, EV tires and China) and reaping the benefits of improving commercial actions (product mix) while keeping pricing discipline. The 2023-2025 (3-year) focus plan aimed for €750m revenue growth at the mid-point, of which ~90% was driven by the High Value segment. In terms of margins, the focus was to hit 16-17% margins in 2022 and improve margins to 19-20% by 2025. However, margins in 2021 and 2022 came in close to 15% levels. Below, we take a shot at the new 2025 targets that will be updated by Pirelli by the end of 2023 - reflecting the current inflationary environment.

Overall, we expect Pirelli to guide for $\[\in \]$ 500- $\[\in \]$ 800m sales growth till 2025 and margins of >16%. This should be mainly driven by a strong pull-through on HV replacement, targeted HV OE growth and continued growth in China, EV tyres and Specialties. Our 2025 estimates are currently at the mid-point of the growth range and assumes a $\[\sim \]$ 30% drop-through to profits. We are currently 6% ahead of 2025 consensus estimates (company collected). Finally, we expect FCF of $\[\sim \]$ 6585m by 2025 and the leverage ratio to fall to 0.9x.

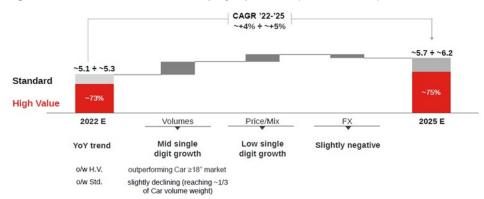
We also think that this growth should continue into 2027. We expect overall group revenues to reach \sim 68bn and Pirelli to target 17-18% adj. Ebit margins in the medium term. Overall Group adj. Ebit of >61.3bn by 2027, would be >35% higher than the previous peak in 2018.

Table 1: Pirelli - JPM vs consensus - Medium-term targets € in million. %

					Bridge	
	2022 A	2025 JPMe	2025 Cons.	% diff.	2022A -25 JPMe	2027 JPMe
Sales	6,616	7,352	7,188	2%	737	7,967
Ebit	978	1,208	1,138	6%	230	1,361
Ebit margin %	14.8%	16.4%	15.8%		31.2%	17.1%
FCF	531	585	571	2%		
Net Debt	2,553	1,502	1,601	-6%	-1,051	
ND / Ebitda (x)	1.8x	0.9x	1.0x			

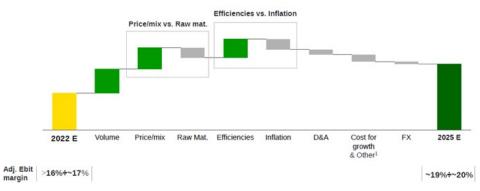
Source: J.P. Morgan estimates, Company collected consensus.

Figure 15: 2022e-2025 Revenue trend Company expectations (at the 2021 CMD)



Source: Company data.

Figure 16: 2022e-2025 Adj. Ebit trend company expectations (at the 2021 CMD)



Source: Company data.



Snippets from the 1H 2023 results

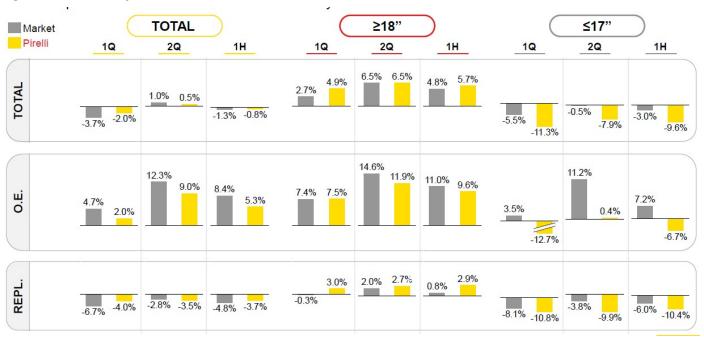
Pirelli reported Q2 revenues of €1.74bn, up 9% y/y organically and Adj. EBIT of €269m at 15.5% margins (1H margin of 15.1%). Adj. Ebit came in 4% higher than consensus expectations in Q2 - mainly on a better price-mix in the quarter (>10%). Importantly, Pirelli upgraded their 2023 margin target to 14.5-15% (vs. 14-14.5% earlier) despite a weak volume environment and higher than anticipated transactional FX headwinds. The underlying earnings look strong as price increases continue to stick and product mix within the 2 segments (micro mix) is healthy. In Q2, price/mix and efficiencies covered inflation and FX headwinds by >1.3x (vs. 1.25x in Q1 and 1.1x in 2022). High value demand (>6% y/y) again proved resilient vs. a weak Standard market (-0.5%). Pirelli continued to win market share in high value RT (particularly in Americas).

- Key takeaways: 1) Market outlook: more cautious market outlook (2% YoY), while High Value resilience confirmed (+6pp vs. Standard). 2)Pricing: see "full" price discipline and are not looking to cut prices at the end of the year. 3)In Car ≥18"

 Replacement Pirelli outperformed (Pirelli volumes grew +2.9% (market +0.8%), with an increase in market shares in North America. 4) Total plant saturation stood at 95% in high value. However, Pirelli has the option to convert 10% standard capacity to high value.
- 2023 outlook was upgraded. Adjusted Ebit Margin was revised upwards to between ~14.5% and <15% (previous estimate >14% and ~14.5%) thanks to the improvement of price mix (~+7% and ~+8% compared with prior indication ~+4.5% / ~+5.5%). Revenues estimated between €6.5-6.7bn (vs. previous estimate of €6.6-6.8bn) on lower volumes and FX. Net cash flow of €440-470m was confirmed.

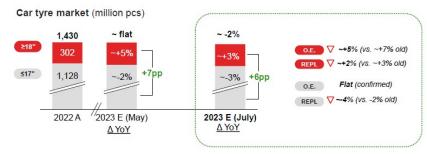


Figure 17: 2Q/1H'23 Car Tyre volumes: Pirelli vs. Market



Source: Company data.

Figure 18: 2023 Global Car Tyre Market Outlook



Main highlights by segment / channel

- O.E. ≥18": a more cautious view on China recovery post pandemic
- Pepl. ≥18": Softer demand trend in EU (following the trends in 1H but improving YoY in 2H) and China
-) Car ≤17": demand trend on OE and Replacement reflecting a weak economic environment (South America and EU)

Source: Company data.



Figure 19: FY 2023 targets: Stronger Price/mix driving to Ebit margin upgrade



Source: Company data.



Financials and Valuation

Improving financial profile: After a few difficult years, we think Pirelli can create value for shareholders in the next few years, on the back of 5-6% organic growth (volume and mix) in the business and improving margins in HV and Standard tires. Overall, we expect a 3-4% volume growth over the next two years and ~2% product mix. Combined with efficiency enhancement programs, this should lead to a quicker margin recovery (vs. market expectations) and an improved cash conversion profile.

Table 2: Pirelli: full-year financials

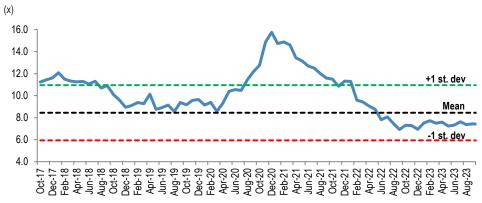
€ in million, %

	FY22	FY23e	FY24e	FY25e	FY23 Cons	FY24 Cons	FY25 Cons	FY23 % diff	FY24 % diff	FY25 % diff
Group Sales	6,616	6,606	6,956	7,352	6,697	6,908	7,188	-1%	1%	2%
Group Adj. EBIT	978	1,015	1,103	1,208	981	1,052	1,138	3%	5%	6%
% EBIT Margin	14.8%	15.4%	15.9%	16.4%	14.6%	15.2%	15.8%			
Net Income	530	480	548	612						
Net Debt	2,553	2,247	1,898	1,502	2,307	1,955	1,601	-3%	-3%	-6%
Net Debt/ Adj. EBITDA	1.8x	1.5x	1.2x	0.9x						
FCF	531	472	508	585	450	540	571	5%	-6%	2%

Source: J.P. Morgan estimates, Company collected consensus.

Valuation: Below we look at the EV/Ebit chart for Pirelli since 2017. On average Pirelli has traded on 8.5x EV/Ebit (excluding outliers in 2020 and 2021) over this period. The stock currently trades on 7.4x FY23 Ebit - at a 12% discount to its historical average. In an uncertain macroeconomic environment, Pirelli provides a safe haven and is the most compelling tyre stock to own with a High Value (HV)/Specialty focus and earnings growth. Current market dynamics and the green transition enhances competitive barriers and the technological edge of Tier 1s. Bigger rim sized tyres, EV tyres and specialties place higher demands from tyres. These tyres need to have lower weight and an advanced rubber compound for better performance and longer life. Lower rolling resistance and lower tyre noise are key differentiators for EV tyres. Safety, comfort, performance and technology will lead to higher pricing power and margin benefits. In summary, we see strong upside from current levels, given Pirelli's growth outlook, strong position in EVs and China and 3 upcoming catalysts. We value Pirelli on a ~8x EV/Ebit (24e) and 1.2x EV/Sales multiple and this implies a FCF yield of ~9% over the next 3 years (vs. current yield of 12% - where Pirelli is trading like an ex-growth stock).

Figure 20: EV/Ebit trading chart



Source: J.P. Morgan estimates, Bloomberg Finance L.P.



Investment Thesis, Valuation and Risks

Pirelli (Overweight; Price Target: €6.50)

Investment Thesis

Pirelli has delivered strong earnings growth in the first half of 2023 despite a worsening tyre market outlook (especially in Europe) and transactional FX headwinds. We see that investors have been on the sidelines following the Golden Power Procedure and organisational changes at Pirelli, but we think this presents a buying opportunity in the medium term. In an uncertain macroeconomic environment, Pirelli provides a safe haven and is the most compelling tyre stock to own with a High Value (HV)/Specialty focus and earnings growth. We see strong upside from current levels, given Pirelli's growth outlook, strong position in EVs and China, three upcoming catalysts and key valuation support.

Valuation

We value Pirelli on a 1.2x EV/Sales (24e) multiple. On our price target Pirelli would trade on $\sim 8x$ EV/adj. Ebit and $\sim 12x$ P/E.

Risks to Rating and Price Target

Downside risks: 1) weaker-than-expected developments in the HV segment and loss of market share to key competitors. 2) High pricing pressure from OEMs or in the RT channel. 3) Relatively lower ability to pass on price increases going into 2024. 4) higher-than-anticipated capex needs to support the growth in HV tyres.



Pirelli: Summary of Financials

Group P&L (EUR m)	FY21	FY22	FY23E	FY24E	Group Balance sheet (EUR m)	FY21	FY22	FY23E	FY24E
Revenues	5,331	6,616	6,606	6,956	Intangibles	5,486	5,383	5,409	5,437
% change Y/Y	23.9%	24.1%	(0.1%)	5.3%	PP&E	3,289	3,400	3,221	3,052
Cost of Sales	(1,821)	(2,107)	(1,983)	(2,059)	Investments	-	-	-	-
EBITDA	1,211	1,373	1,460	1,549	Non-current receivables from sales financing	363	231	231	231
EBIT	857	1,019	1,056	1,144	Leased assets	-	-	-	-
% Ebit	15.3%	14.8%	15.4%	15.9%	Other	380	381	381	381
Net financial result	(144)	(202)	(220)	(215)	Total non current assets	9,598	9,475	9,323	9,181
Pretax Income	436	596	641	745	Inventories	1,092	1,458	1,453	1,530
Net Income	303	415	397	472	Trade receivables	1,130	1,378	1,377	1,410
Adj. EPS	0.30	0.42	0.40	0.47	Receivables from sales financing	-	-	-	-
Industrial Cash flow (EUR m)	FY21	FY22	FY23E	FY24E	Cash and cash equivalents	1,885	1,290	1,555	1,905
Net income	311	390	418	496	Other	178	297	297	297
Depreciation & amortization	517	544	559	559	Total current assets	4,285	4,422	4,683	5,142
Working capital	(8)	4	(19)	(49)	Total assets	13,883	13,898	14,005	14,324
Other change in operating cash flow	(93)	70	0	0	Equity	5,043	5,454	5,666	6,003
Operating cash flow	727	1,009	958	1,006	Long term liabilities	3,789	3,690	3,610	3,530
Net capex	(346)	(398)	(486)	(498)	Pension provisions	221	181	181	181
Free cash flow	381	611	472	508	Other non current liabilities	92	87	87	87
Financing cash flow	(202)	(265)	(166)	(159)	Total non current liabilities	5,217	5,102	5,022	4,942
Currency	0	0	(40)	0	Short term financial liabilities	1,489	800	800	800
Net change in cash	179	347	266	349	Trade payables	1,626	1,973	1,949	2,010
Net industrial debt (cash)	3,394	3,201	2,855	2,426	Other current liabilities	508	568	568	568
Industrial multiples	FY21	FY22	FY23E	FY24E	Total current liabilities	3,624	3,342	3,318	3,379
Industrial EV/Sales	1.5	1.1	1.1	1.0	Total Liabilities and Equity	13,883	13,898	14,005	14,324
Industrial EV/Ebitda	6.8	5.3	5.1	4.4					
Industrial EV/Ebit	10.1	7.4	7.4	6.2					
Industrial P/E	10.8	8.5	9.8	8.6					
Industrial Dividend yield	1.6%	3.6%	3.5%	3.4%					
Industrial Net debt to Ebitda	2.3	1.8	1.5	1.2					

Source: Company reports and J.P. Morgan estimates.



Analyst Certification: The Research Analyst(s) denoted by an "AC" on the cover of this report certifies (or, where multiple Research Analysts are primarily responsible for this report, the Research Analyst denoted by an "AC" on the cover or within the document individually certifies, with respect to each security or issuer that the Research Analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect the Research Analyst's personal views about any and all of the subject securities or issuers; and (2) no part of any of the Research Analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the Research Analyst(s) in this report. For all Korea-based Research Analysts listed on the front cover, if applicable, they also certify, as per KOFIA requirements, that the Research Analyst's analysis was made in good faith and that the views reflect the Research Analyst's own opinion, without undue influence or intervention.

All authors named within this report are Research Analysts who produce independent research unless otherwise specified. In Europe, Sector Specialists (Sales and Trading) may be shown on this report as contacts but are not authors of the report or part of the Research Department.

Important Disclosures

- · Market Maker/ Liquidity Provider: J.P. Morgan is a market maker and/or liquidity provider in the financial instruments of/related to Pirelli.
- Client: J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients: Pirelli.
- Client/Non-Investment Banking, Securities-Related: J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients, and the services provided were non-investment-banking, securities-related: Pirelli.
- Client/Non-Securities-Related: J.P. Morgan currently has, or had within the past 12 months, the following entity(ies) as clients, and the services provided were non-securities-related: Pirelli.
- Potential Investment Banking Compensation: J.P. Morgan expects to receive, or intends to seek, compensation for investment banking services in the next three months from Pirelli.
- Non-Investment Banking Compensation Received: J.P. Morgan has received compensation in the past 12 months for products or services other than investment banking from Pirelli.
- Debt Position: J.P. Morgan may hold a position in the debt securities of Pirelli, if any.

Company-Specific Disclosures: Important disclosures, including price charts and credit opinion history tables, are available for compendium reports and all J.P. Morgan—covered companies, and certain non-covered companies, by visiting https://www.jpmm.com/research/disclosures, calling 1-800-477-0406, or e-mailing research.disclosure.inquiries@jpmorgan.com with your request.



Source: Bloomberg Finance L.P. and J.P. Morgan; price data adjusted for stock splits and dividends. Initiated coverage Nov 13, 2017. All share prices are as of market close on the previous business day.

Jan

May

The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period. J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

May

Sep

Explanation of Equity Research Ratings, Designations and Analyst(s) Coverage Universe:

Jan

J.P. Morgan uses the following rating system: Overweight [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Neutral [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the



analyst's team's) coverage universe.] Not Rated (NR): J.P. Morgan has removed the rating and, if applicable, the price target, for this stock because of either a lack of a sufficient fundamental basis or for legal, regulatory or policy reasons. The previous rating and, if applicable, the price target, no longer should be relied upon. An NR designation is not a recommendation or a rating. In our Asia (ex-Australia and ex-India) and U.K. small- and mid-cap equity research, each stock's expected total return is compared to the expected total return of a benchmark country market index, not to those analysts' coverage universe. If it does not appear in the Important Disclosures section of this report, the certifying analyst's coverage universe can be found on J.P. Morgan's research website, https://www.jpmorganmarkets.com.

Coverage Universe: Asumendi, Jose M: Aston Martin Lagonda (AML.L), BMW (BMWG.DE), Continental AG (CONG.DE), Daimler Truck Holding AG (DTG0n.DE), Dowlais Group (DWL.L), EuroGroup Laminations (EGLA.MI), FREYR (FREY), Forvia (FRVIA.PA), Gestamp (GEST.MC), Iveco Group NV (IVG.MI), Mercedes-Benz Group AG (MBGn.DE), Michelin (MICP.PA), Novem (NVM.DE), Pirelli (PIRC.MI), Plastic Omnium (PLOF.PA), Porsche AG (P911_p.DE), QuantumScape (QS), Renault (RENA.PA), Schaeffler AG (SHA_p.DE), Stellantis (STLAM.MI), Traton SE (8TRA.DE), Valeo SA (VLOF.PA), Varta (VAR1.DE), Vitesco (VTSCn.DE), Volkswagen Prefs. (VOWG_p.DE), Volvo (VOLVb.ST), Volvo Car AB (VOLCARb.ST)

J.P. Morgan Equity Research Ratings Distribution, as of July 08, 2023

	Overweight (buy)	Neutral (hold)	Underweight (sell)
J.P. Morgan Global Equity Research Coverage*	47%	39%	14%
IB clients**	48%	45%	34%
JPMS Equity Research Coverage*	45%	42%	12%
IB clients**	67%	64%	53%

*Please note that the percentages may not add to 100% because of rounding.

**Percentage of subject companies within each of the "buy," "hold" and "sell" categories for which J.P. Morgan has provided investment banking services within the previous 12 months.

For purposes of FINRA ratings distribution rules only, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above. This information is current as of the end of the most recent calendar quarter.

Equity Valuation and Risks: For valuation methodology and risks associated with covered companies or price targets for covered companies, please see the most recent company-specific research report at http://www.jpmorganmarkets.com, contact the primary analyst or your J.P. Morgan representative, or email research.disclosure.inquiries@jpmorgan.com. For material information about the proprietary models used, please see the Summary of Financials in company-specific research reports and the Company Tearsheets, which are available to download on the company pages of our client website, http://www.jpmorganmarkets.com. This report also sets out within it the material underlying assumptions used.

A history of J.P. Morgan investment recommendations disseminated during the preceding 12 months can be accessed on the Research & Commentary page of http://www.ipmorganmarkets.com where you can also search by analyst name, sector or financial instrument.

Analysts' Compensation: The research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues.

Registration of non-US Analysts: Unless otherwise noted, the non-US analysts listed on the front of this report are employees of non-US affiliates of J.P. Morgan Securities LLC, may not be registered as research analysts under FINRA rules, may not be associated persons of J.P. Morgan Securities LLC, and may not be subject to FINRA Rule 2241 or 2242 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

Other Disclosures

J.P. Morgan is a marketing name for investment banking businesses of JPMorgan Chase & Co. and its subsidiaries and affiliates worldwide.

UK MIFID FICC research unbundling exemption: UK clients should refer to **UK MIFID Research Unbundling exemption** for details of JPMorgan's implementation of the FICC research exemption and guidance on relevant FICC research categorisation.

All research material made available to clients are simultaneously available on our client website, J.P. Morgan Markets, unless specifically permitted by relevant laws. Not all research content is redistributed, e-mailed or made available to third-party aggregators. For all research material available on a particular stock, please contact your sales representative.

Any long form nomenclature for references to China; Hong Kong; Taiwan; and Macau within this research material are Mainland China; Hong Kong SAR (China); Taiwan (China); and Macau SAR (China).

J.P. Morgan Research may, from time to time, write on issuers or securities targeted by economic or financial sanctions imposed or administered by the governmental authorities of the U.S., EU, UK or other relevant jurisdictions (Sanctioned Securities). Nothing in this report is intended to be read or construed as encouraging, facilitating, promoting or otherwise approving investment or dealing in such Sanctioned Securities. Clients



should be aware of their own legal and compliance obligations when making investment decisions.

Any digital or crypto assets discussed in this research report are subject to a rapidly changing regulatory landscape. For relevant regulatory advisories on crypto assets, including bitcoin and ether, please see https://www.ipmorgan.com/disclosures/cryptoasset-disclosure.

The author(s) of this research report 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.

Exchange-Traded Funds (ETFs): J.P. Morgan Securities LLC ("JPMS") acts as authorized participant for substantially all U.S.-listed ETFs. To the extent that any ETFs are mentioned in this report, JPMS may earn commissions and transaction-based compensation in connection with the distribution of those ETF shares and may earn fees for performing other trade-related services, such as securities lending to short sellers of the ETF shares. JPMS may also perform services for the ETFs themselves, including acting as a broker or dealer to the ETFs. In addition, affiliates of JPMS may perform services for the ETFs, including trust, custodial, administration, lending, index calculation and/or maintenance and other services.

Options and Futures related research: If the information contained herein regards options- or futures-related research, such information is available only to persons who have received the proper options or futures risk disclosure documents. Please contact your J.P. Morgan Representative or visit https://www.theocc.com/components/docs/riskstoc.pdf for a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options or https://www.finra.org/sites/default/files/Security_Futures_Risk_Disclosure_Statement_2018.pdf for a copy of the Security Futures Risk Disclosure Statement.

Changes to Interbank Offered Rates (IBORs) and other benchmark rates: Certain interest rate benchmarks are, or may in the future become, subject to ongoing international, national and other regulatory guidance, reform and proposals for reform. For more information, please consult: https://www.ipmorgan.com/global/disclosures/interbank offered rates

Private Bank Clients: Where you are receiving research as a client of the private banking businesses offered by JPMorgan Chase & Co. and its subsidiaries ("J.P. Morgan Private Bank"), research is provided to you by J.P. Morgan Private Bank and not by any other division of J.P. Morgan, including, but not limited to, the J.P. Morgan Corporate and Investment Bank and its Global Research division.

Legal entity responsible for the production and distribution of research: The legal entity identified below the name of the Reg AC Research Analyst who authored this material is the legal entity responsible for the production of this research. Where multiple Reg AC Research Analysts authored this material with different legal entities identified below their names, these legal entities are jointly responsible for the production of this research. Research Analysts from various J.P. Morgan affiliates may have contributed to the production of this material but may not be licensed to carry out regulated activities in your jurisdiction (and do not hold themselves out as being able to do so). Unless otherwise stated below, this material has been distributed by the legal entity responsible for production. If you have any queries, please contact the relevant Research Analyst in your jurisdiction or the entity in your jurisdiction that has distributed this research material.

Legal Entities Disclosures and Country-/Region-Specific Disclosures:

Argentina: JPMorgan Chase Bank N.A Sucursal Buenos Aires is regulated by Banco Central de la República Argentina ("BCRA"- Central Bank of Argentina) and Comisión Nacional de Valores ("CNV"- Argentinian Securities Commission" - ALYC y AN Integral N°51). Australia: J.P. Morgan Securities Australia Limited ("JPMSAL") (ABN 61 003 245 234/AFS Licence No. 238066) is regulated by the Australian Securities and Investments Commission and is a Market, Clearing and Settlement Participant of ASX Limited and CHI-X. This material is issued and distributed in Australia by or on behalf of JPMSAL only to "wholesale clients" (as defined in section 761G of the Corporations Act 2001). A list of all financial products covered can be found by visiting https://www.jpmm.com/research/disclosures. J.P. Morgan seeks to cover companies of relevance to the domestic and international investor base across all Global Industry Classification Standard (GICS) sectors, as well as across a range of market capitalisation sizes. If applicable, in the course of conducting public side due diligence on the subject company(ies), the Research Analyst team may at times perform such diligence through corporate engagements such as site visits, discussions with company representatives, management presentations, etc. Research issued by JPMSAL has been prepared in accordance with J.P. Morgan Australia's Research Independence Policy which can be found at the following link: J.P. Morgan Australia - Research Independence Policy. Brazil: Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. Ombudsman J.P. Morgan: 0800-7700847 / ouvidoria.jp.morgan@jpmorgan.com. Canada: J.P. Morgan Securities Canada Inc. is a registered investment dealer, regulated by the Canadian Investment Regulatory Organization and the Ontario Securities Commission and is the participating member on Canadian exchanges. This material is distributed in Canada by or on behalf of J.P.Morgan Securities Canada Inc. Chile: Inversiones J.P. Morgan Limitada is an unregulated entity incorporated in Chile. China: J.P. Morgan Securities (China) Company Limited has been approved by CSRC to conduct the securities investment consultancy business. **Dubai International Financial Centre (DIFC)**: JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - The Gate, West Wing, Level 3 and 9 PO Box 506551, Dubai, UAE. This material has been distributed by JP Morgan Chase Bank, N.A., Dubai Branch to persons regarded as professional clients or market counterparties as defined under the DFSA rules. European Economic Area (EEA): Unless specified to the contrary, research is distributed in the EEA by J.P. Morgan SE ("JPM SE"), which is subject to prudential supervision by the European Central Bank ("ECB") in cooperation with BaFin and Deutsche Bundesbank in Germany. JPM SE is a company headquartered in Frankfurt with registered address at TaunusTurm, Taunustor 1, Frankfurt am Main, 60310, Germany. The material has been distributed in the EEA to persons regarded as professional investors (or equivalent) pursuant to Art. 4 para. 1 no. 10 and Annex II of MiFID II and its respective implementation in their home jurisdictions ("EEA professional investors"). This material must not be acted on or relied on by persons who are not EEA professional investors. Any investment or investment activity to which this material relates is only available to EEA relevant persons and will be engaged in only with EEA relevant persons. Hong Kong: J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is



regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong, and J.P. Morgan Broking (Hong Kong) Limited (CE number AAB027) is regulated by the Securities and Futures Commission in Hong Kong. JP Morgan Chase Bank, N.A., Hong Kong Branch (CE Number AAL996) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission, is organized under the laws of the United States with limited liability. Where the distribution of this material is a regulated activity in Hong Kong, the material is distributed in Hong Kong by or through J.P. Morgan Securities (Asia Pacific) Limited and/or J.P. Morgan Broking (Hong Kong) Limited. India: J.P. Morgan India Private Limited (Corporate Identity Number - U67120MH1992FTC068724), having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz - East, Mumbai – 400098, is registered with the Securities and Exchange Board of India (SEBI) as a 'Research Analyst' having registration number INH000001873. J.P. Morgan India Private Limited is also registered with SEBI as a member of the National Stock Exchange of India Limited and the Bombay Stock Exchange Limited (SEBI Registration Number-INZ000239730) and as a Merchant Banker (SEBI Registration Number - MB/INM000002970). Telephone: 91-22-6157 3000, Facsimile: 91-22-6157 3990 and Website: http://www.jpmipl.com. JPMorgan Chase Bank, N.A. - Mumbai Branch is licensed by the Reserve Bank of India (RBI) (Licence No. 53/ Licence No. BY.4/94; SEBI - IN/CUS/014/ CDSL : IN-DP-CDSL-444-2008/ IN-DP-NSDL-285-2008/ INBI00000984/ INE231311239) as a Scheduled Commercial Bank in India, which is its primary license allowing it to carry on Banking business in India and other activities, which a Bank branch in India are permitted to undertake. For non-local research material, this material is not distributed in India by J.P. Morgan India Private Limited. Compliance Officer: Spurthi Gadamsetty; spurthi.gadamsetty@jpmchase.com; +912261573225. Grievance Officer: Ramprasadh K, jpmipl.research.feedback@jpmorgan.com; +912261573000.

Investment in securities market are subject to market risks. Read all the related documents carefully before investing. Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors.

Indonesia: PT J.P. Morgan Sekuritas Indonesia is a member of the Indonesia Stock Exchange and is registered and supervised by the Otoritas Jasa Keuangan (OJK). Korea: J.P. Morgan Securities (Far East) Limited, Seoul Branch, is a member of the Korea Exchange (KRX). JPMorgan Chase Bank, N.A., Seoul Branch, is licensed as a branch office of foreign bank (JPMorgan Chase Bank, N.A.) in Korea. Both entities are regulated by the Financial Services Commission (FSC) and the Financial Supervisory Service (FSS). For non-macro research material, the material is distributed in Korea by or through J.P. Morgan Securities (Far East) Limited, Seoul Branch. Japan: JPMorgan Securities Japan Co., Ltd. and JPMorgan Chase Bank, N.A., Tokyo Branch are regulated by the Financial Services Agency in Japan. Malaysia: This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X), which is a Participating Organization of Bursa Malaysia Berhad and holds a Capital Markets Services License issued by the Securities Commission in Malaysia. Mexico: J.P. Morgan Casa de Bolsa, S.A. de C.V. and J.P. Morgan Grupo Financiero are members of the Mexican Stock Exchange and are authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. New Zealand: This material is issued and distributed by JPMSAL in New Zealand only to "wholesale clients" (as defined in the Financial Markets Conduct Act 2013). JPMSAL is registered as a Financial Service Provider under the Financial Service providers (Registration and Dispute Resolution) Act of 2008. Pakistan: J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. Philippines: J.P. Morgan Securities Philippines Inc. is a Trading Participant of the Philippine Stock Exchange and a member of the Securities Clearing Corporation of the Philippines and the Securities Investor Protection Fund. It is regulated by the Securities and Exchange Commission. Russia: CB J.P. Morgan Bank International LLC is regulated by the Central Bank of Russia. Singapore: This material is issued and distributed in Singapore by or through J.P. Morgan Securities Singapore Private Limited (JPMSS) [MCI (P) 030/08/2023 and Co. Reg. No.: 199405335R], which is a member of the Singapore Exchange Securities Trading Limited, and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore), both of which are regulated by the Monetary Authority of Singapore. This material is issued and distributed in Singapore only to accredited investors, expert investors and institutional investors, as defined in Section 4A of the Securities and Futures Act, Cap. 289 (SFA). This material is not intended to be issued or distributed to any retail investors or any other investors that do not fall into the classes of "accredited investors," "expert investors" or "institutional investors," as defined under Section 4A of the SFA. Recipients of this material in Singapore are to contact JPMSS or JPMCB Singapore in respect of any matters arising from, or in connection with, the material. As at the date of this material, JPMSS is a designated market maker for certain structured warrants listed on the Singapore Exchange where the underlying securities may be the securities discussed in this material. Arising from its role as a designated market maker for such structured warrants, JPMSS may conduct hedging activities in respect of such underlying securities and hold or have an interest in such underlying securities as a result. The updated list of structured warrants for which JPMSS acts as designated market maker may be found on the website of the Singapore Exchange Limited: http://www.sgx.com. South Africa: J.P. Morgan Equities South Africa Proprietary Limited and JPMorgan Chase Bank, N.A., Johannesburg Branch are members of the Johannesburg Securities Exchange and are regulated by the Financial Services Board. Taiwan: J.P. Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. Material relating to equity securities is issued and distributed in Taiwan by J.P. Morgan Securities (Taiwan) Limited, subject to the license scope and the applicable laws and the regulations in Taiwan. According to Paragraph 2, Article 7-1 of Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers (as amended or supplemented) and/or other applicable laws or regulations, please note that the recipient of this material is not permitted to engage in any activities in connection with the material that may give rise to conflicts of interests, unless otherwise disclosed in the "Important Disclosures" in this material. Thailand: This material is issued and distributed in Thailand by JPMorgan Securities (Thailand) Ltd., which is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission, and its registered address is 3rd Floor, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500. UK: Unless specified to the contrary, research is distributed in the UK by J.P. Morgan Securities plc ("JPMS plc") which is a member of the London Stock Exchange and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. JPMS plc is registered in England & Wales No. 2711006, Registered Office 25 Bank Street, London, E14 5JP. This material is directed in the UK only to: (a) persons having professional experience in matters relating to investments falling within article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) (Order) 2005 ("the FPO"); (b)



persons outlined in article 49 of the FPO (high net worth companies, unincorporated associations or partnerships, the trustees of high value trusts, etc.); or (c) any persons to whom this communication may otherwise lawfully be made; all such persons being referred to as "UK relevant persons". This material must not be acted on or relied on by persons who are not UK relevant persons. Any investment or investment activity to which this material relates is only available to UK relevant persons and will be engaged in only with UK relevant persons. Research issued by JPMS plc has been prepared in accordance with JPMS plc's policy for prevention and avoidance of conflicts of interest related to the production of Research which can be found at the following link: J.P. Morgan EMEA - Research Independence Policy. U.S.: J.P. Morgan Securities LLC ("JPMS") is a member of the NYSE, FINRA, SIPC, and the NFA. JPMorgan Chase Bank, N.A. is a member of the FDIC. Material published by non-U.S. affiliates is distributed in the U.S. by JPMS who accepts responsibility for its content.

General: Additional information is available upon request. The information in this material has been obtained from sources believed to be reliable. While all reasonable care has been taken to ensure that the facts stated in this material are accurate and that the forecasts, opinions and expectations contained herein are fair and reasonable, JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) make no representations or warranties whatsoever to the completeness or accuracy of the material provided, except with respect to any disclosures relative to J.P. Morgan and the Research Analyst's involvement with the issuer that is the subject of the material. Accordingly, no reliance should be placed on the accuracy, fairness or completeness of the information contained in this material. There may be certain discrepancies with data and/or limited content in this material as a result of calculations, adjustments, translations to different languages, and/or local regulatory restrictions, as applicable. These discrepancies should not impact the overall investment analysis, views and/or recommendations of the subject company(ies) that may be discussed in the material. J.P. Morgan accepts no liability whatsoever for any loss arising from any use of this material or its contents, and neither J.P. Morgan nor any of its respective directors, officers or employees, shall be in any way responsible for the contents hereof, apart from the liabilities and responsibilities that may be imposed on them by the relevant regulatory authority in the jurisdiction in question, or the regulatory regime thereunder. Opinions, forecasts or projections contained in this material represent J.P. Morgan's current opinions or judgment as of the date of the material only and are therefore subject to change without notice. Periodic updates may be provided on companies/industries based on company-specific developments or announcements, market conditions or any other publicly available information. There can be no assurance that future results or events will be consistent with any such opinions, forecasts or projections, which represent only one possible outcome. Furthermore, such opinions, forecasts or projections are subject to certain risks, uncertainties and assumptions that have not been verified, and future actual results or events could differ materially. The value of, or income from, any investments referred to in this material may fluctuate and/or be affected by changes in exchange rates. All pricing is indicative as of the close of market for the securities discussed, unless otherwise stated. Past performance is not indicative of future results. Accordingly, investors may receive back less than originally invested. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. This material may include views on structured securities, options, futures and other derivatives. These are complex instruments, may involve a high degree of risk and may be appropriate investments only for sophisticated investors who are capable of understanding and assuming the risks involved. The recipients of this material must make their own independent decisions regarding any securities or financial instruments mentioned herein and should seek advice from such independent financial, legal, tax or other adviser as they deem necessary. J.P. Morgan may trade as a principal on the basis of the Research Analysts' views and research, and it may also engage in transactions for its own account or for its clients' accounts in a manner inconsistent with the views taken in this material, and J.P. Morgan is under no obligation to ensure that such other communication is brought to the attention of any recipient of this material. Others within J.P. Morgan, including Strategists, Sales staff and other Research Analysts, may take views that are inconsistent with those taken in this material. Employees of J.P. Morgan not involved in the preparation of this material may have investments in the securities (or derivatives of such securities) mentioned in this material and may trade them in ways different from those discussed in this material. This material is not an advertisement for or marketing of any issuer, its products or services, or its securities in any jurisdiction.

Confidentiality and Security Notice: This transmission may contain information that is privileged, confidential, legally privileged, and/or exempt from disclosure under applicable law. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, or use of the information contained herein (including any reliance thereon) is STRICTLY PROHIBITED. Although this transmission and any attachments are believed to be free of any virus or other defect that might affect any computer system into which it is received and opened, it is the responsibility of the recipient to ensure that it is virus free and no responsibility is accepted by JPMorgan Chase & Co., its subsidiaries and affiliates, as applicable, for any loss or damage arising in any way from its use. If you received this transmission in error, please immediately contact the sender and destroy the material in its entirety, whether in electronic or hard copy format. This message is subject to electronic monitoring: https://www.jpmorgan.com/disclosures/email

MSCI: Certain information herein ("Information") is reproduced by permission of MSCI Inc., its affiliates and information providers ("MSCI") ©2023. No reproduction or dissemination of the Information is permitted without an appropriate license. MSCI MAKES NO EXPRESS OR IMPLIED WARRANTIES (INCLUDING MERCHANTABILITY OR FITNESS) AS TO THE INFORMATION AND DISCLAIMS ALL LIABILITY TO THE EXTENT PERMITTED BY LAW. No Information constitutes investment advice, except for any applicable Information from MSCI ESG Research. Subject also to msci.com/disclaimer

"Other Disclosures" last revised August 05, 2023.

Copyright 2023 JPMorgan Chase & Co. All rights reserved. This material or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.

Completed 08 Sep 2023 06:49 PM BST

Jose M Asumendi ^{AC} (44-20) 7742-5315 jose.m.asumendi@jpmorgan.com

Europe Equity Research 11 September 2023 J.P.Morgan