"Every storm runs out of rain, just like every dark night turns into day"







Contents

- 1. Global Economy and Markets
- 2. Key Future Trends
- 3. Indian Economy
- 4. Equity Markets & Sector Overview
- 5. Fixed Income Markets

Don't miss Incredible India slides portraying Warrior Queens of India



Global Economy and Markets

You may have to fight a battle more than once to win it – Margaret Thatcher



S&P 500

Headlines in 2020

Headlines in 2021

Growth recovers from the second wave

Emergency stimulus fuels record

\$400bn company funding frenzy

OWLY MAJOR ECONOMY FORECAST TO GROW IN BOUGHE DIGITS NEXT YEA India to Grow Fastest in

US: The bounce-back gains momentum

Nifty hits all-time high of 18,000; Sensex trades above 60,300-mark

Markets buoyed by crisis response
 \$170bn above January average
 Junk debt soars

India's GDP grows at over 20% in Q1FY22,

highest ever quarterly expansion

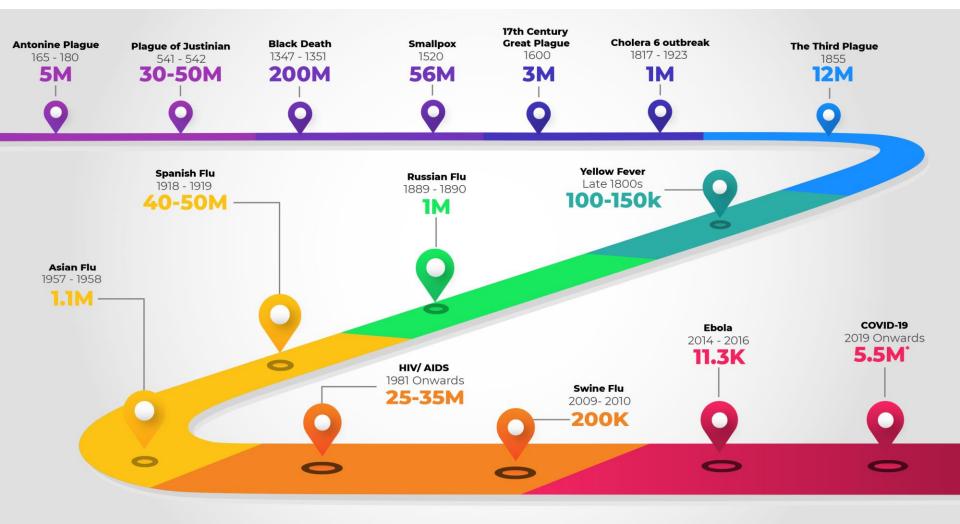
OECD Says



Source: Publicly available information

The long history of Pandemics





Source: https://www.visualcapitalist.com/history-of-pandemics-deadliest/

Numbers indicates estimated deaths during the pandemics; * Till 31 December 2021

2021 : A Year of robust recovery

- Global economy has bounced back to pre-pandemic path and most major economies, except Japan, have recovered the nominal output lost during the pandemic
- Fiscal and monetary stimulus, vaccination, reopening of economy and pent up demand aided the rebound in growth
- Growth is likely to normalize over the medium term aided by recovery in services consumption, infrastructure push, high accumulated savings, etc.
- Waning of pent up demand, unwinding of fiscal/monetary stimulus, slowdown in China etc. are key risks going ahead

Advanced Economies (AEs) - United States (US), Euro Area and Japan

- Growth driven by fiscal and monetary measures like income transfers, unemployment benefits, reduction in interest rates, liquidity injections, etc.
- 2nd and 3rd wave of Covid-19 resulted in intermittent lockdowns / restrictions but the economic impact was relatively low
- Growth momentum is expected to soften as incremental monetary and fiscal stimulus normalises. Nevertheless, growth is expected to sustain above pre-pandemic levels on back of fall in unemployment, pool of excess savings, higher services spending, etc.
- Significant fiscal and monetary tightening, imposition of strict lockdowns, etc. are key risks

China

- China's GDP in CY21 is likely to be higher than pre-pandemic level estimates but growth is expected to normalise
- Economic recovery was driven by strong global demand that aided exports along with measures by Government to revive the infrastructure/manufacturing sectors
- Driven by robust growth over past 2 decades, China's share in world GDP has steadily risen
- Slowdown in real estate sector, regulatory crackdown with agenda of "common prosperity", moderation in global merchandise trade, etc. are key risks to growth

Nominal GDP Estimates for CY21 in October 2019 and October 2021

Oct-19E	Oct-21E	Change
95,353	94,935	-0.4%
23,180	22,940	-1.0%
14,236	14,518	2.0%
16,579	16,863	1.7%
5,592	5,103	-8.7%
	95,353 23,180 14,236 16,579	95,353 94,935 23,180 22,940 14,236 14,518 16,579 16,863

Source: IMF

Real GDP	Pre	e-pander	nic	Current		Post pandemic	
Growth (%)	2017	2018	2019	2020	2021E	2022E	2023E
US	2.3	2.9	2.3	-3.4	6.0	5.2	2.2
Euro area	2.6	1.9	1.5	-6.3	5.0	4.3	2.0
China	6.9	6.8	6.0	2.3	8.0	5.6	5.3
Japan	1.7	0.6	0.0	-4.6	2.4	3.2	1.4

Source: IMF

Unemployment	Pre-pandemic		Current		Post pandemic		
Rate (%)	2017	2018	2019	2020	2021E	2022E	2023E
US	4.4	3.9	3.7	8.1	5.4	3.5	3.0
Euro area	9.1	8.2	7.6	7.9	8.0	8.1	7.8
China	3.9	3.8	3.6	4.2	3.8	3.7	3.6
Japan	2.8	2.4	2.4	2.8	2.8	2.4	2.3
Source: IME							







After effects of Covid-19: Higher Fiscal deficit, Higher Sovereign debt, Higher Inflation

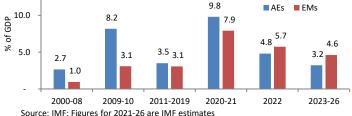
Fiscal deficit widened for both AEs and EMs in response to pandemic and is likely to normalize over next few years

- Consequently, Sovereign debt rose sharply for most countries led by AEs
 - Sovereign debt to GDP is likely to stabilize at current levels, except for China, where it is _ expected to continue inching up
- All major Central banks in AEs injected significant liquidity to ease financial conditions through purchases of securities but this is likely to normalize by CY22

- Surge in demand, energy prices and base effect resulted in higher inflation in US and Euro Area ٠
 - Barring US, Inflation is forecast to normalize to pre-pandemic levels by CY23 _







Fiscal deficit to fall CY22 onwards

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Gross Sovereign	Pre-pandemic			Cur	rent	Post pandemic	
Debt to GDP (%)	2017	2018	2019	2020	2021E	2022E	2023E
US	106.0	107.1	108.5	133.9	133.3	130.7	131.1
Euro area	87.7	85.7	83.7	97.5	98.9	96.3	95.4
China	51.7	53.8	57.1	66.3	68.9	72.1	74.5
Japan	231.4	232.5	235.4	254.1	256.9	252.3	250.8
Source: IME			-	-			

A (0)	Pr	Pre-pandemic			Current		ndemic
Average CPI (%)	2017	2018	2019	2020	2021E	2022E	2023E
US	2.1	2.4	1.8	1.2	4.3	3.5	2.7
Euro area	1.5	1.8	1.2	0.3	2.2	1.7	1.4
China	1.6	2.1	2.9	2.4	1.1	1.8	1.9
Japan	0.5	1.0	0.5	-0.0	-0.2	0.5	0.7
Source: IME							

Life will let you get away with something for a while, but sooner or later, you will pay the price

= Increase in select central Bank Balance sheet / Global GDP; EMs – Emerging Market Economies; EA – Euro Area Monetary impulse

CY18 CY19 CY20 Y21E

:Y22E

CY17

CV10 CY11 CY12 CY13 CY14 CY15 CY16

Source: Kotak Institutional Equities

2706 CV07 CY08 CY09

15.0

% of Global GDP

-2.0%

Growth drivers in CY22 and beyond

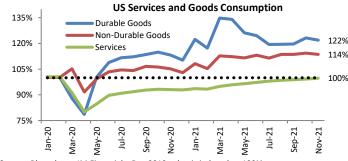
- Reopening, easing restrictions and high vaccination coverage along with higher accumulated savings should boost consumption, especially services
 - Services spending has lagged goods spending till now in AEs and is likely to catch up

- Large income transfers and limited spending has resulted in above trend savings for Households (HHs) in AEs
 - Excess accumulated savings with US HHs is estimated to be over USD 2.5 trillion

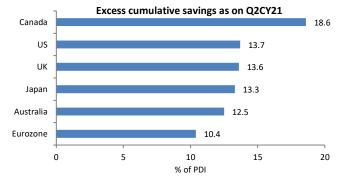
- Investments as % of GDP during 2022-26 (~27.5%) estimated to be higher than pre-GFC era (2004-08, 24.6%) and pre-Covid-19 period (2010-19, 25.7%)
 - Spending on green technology, infrastructure spends, etc. to boost investments
 - Growth in investments will be driven mainly by China. In AEs investments are likely to be higher than pre-Covid-19 era but below pre-GFC period

Refer disclaimers on slide 85

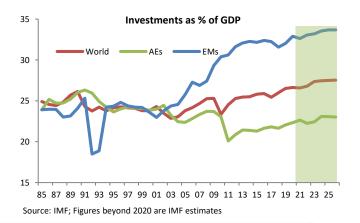
Source: Bloomberg, JM Financials, IMF, Motilal Oswal Financial Services



Source: Bloomberg, JM Financials, Dec 2019 value is indexed to 100%



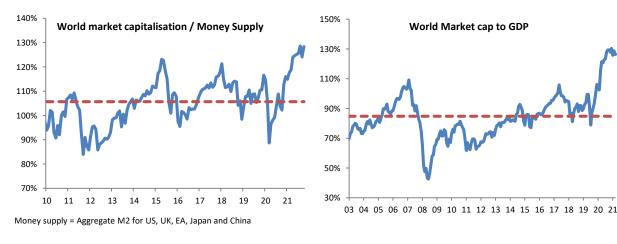
Source: Motilal Oswal Financial Services; PDI - Personal Disposable Income

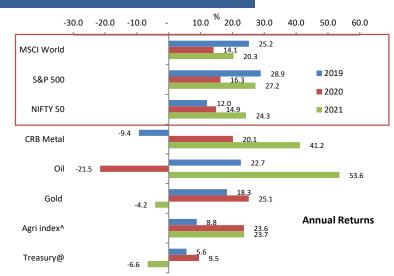




Stellar returns across asset classes, Time to celebrate or be cautious ?

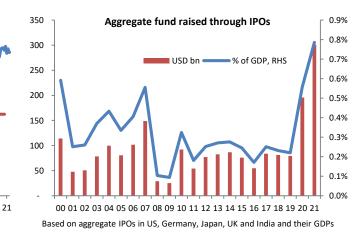
- Most asset classes continued their stellar run and major equity indices, metals, agriculture commodities, etc. delivered double digit returns in 2021
 - 2021 marked the 3rd consecutive year of double digit returns by S&P500 and MSCI World
 - Safe haven assets like gold and treasury delivered negative returns
- Are there signs of market excesses?
 - World market capitalisation to Money supply is near two decades high
 - World market cap to GDP has trended higher and is significantly above historical average
 - Funds raised through IPOs are near all-time highs
- Given the likely normalization of liquidity and growth, strong past returns, likely increase in cost of capital, etc. one should moderate returns expectations over the near to medium term





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Source: Bloomberg; Updated till 31 December 2021, ^Bloomberg Agri Index, @ - Bloomberg Aggregate treasury total return index



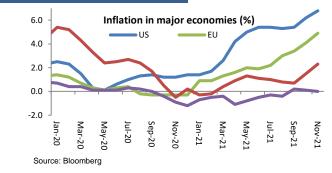
Bull markets are born on pessimism, grow on skepticism, mature on optimism and die on euphoria – Sir John Templeton

Source: Bloomberg, JM Financials, IMF, Axis Securities

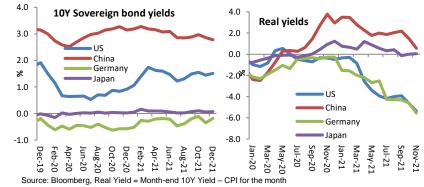
Inflation, Bond Yields and Currencies

- CPI in US and EU surprised on the upside as CPI touched decadal highs in 2021 driven by
 - Pent up demand and shift of spending from discretionary services to goods
 - Supply chain imbalances, labour unavailability, port congestion and containers unavailability exacerbated the shock
 - Rise in energy prices and food prices
- Sovereign yields were largely range bound during most part of 2021 driven by narrative of transitory inflation, benign liquidity and largely accommodative central banks
 - After rising in Q1, US 10Y treasury yields have since been rangebound
- Real yields turned significantly negative for US and Germany

- USD appreciated in CY21 against most major currencies driven by
 - Rise in US yields along with strong rebound in US's growth and inflation
 - Accelerated pace of tapering and likely normalization of monetary policies
 - Rise in demand of safe haven assets



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vs USD \ CAGR (%)*	1 Year	3 Year	5 Year	10 Year	Absolute in 10 years
Korean Won	-9.9%	-2.4%	0.2%	-0.4%	-3.6%
Japanese Yen	-9.8%	-1.1%	0.6%	-4.0%	-47.4%
Australian Dolllar	-8.0%	0.3%	-0.2%	-3.7%	-43.3%
Euro	-7.9%	-0.4%	1.5%	-1.4%	-14.5%
Pound	-2.5%	1.5%	1.5%	-1.5%	-16.5%
South African Rand	-10.8%	-4.3%	-3.5%	-7.2%	-101.3%
Mexican Peso	-10.1%	-3.7%	-1.1%	-4.6%	-57.3%
Brazilian Real	-7.9%	-13.0%	-11.5%	-11.6%	-200.1%
Indian Rupee	-2.5%	-2.4%	-2.0%	-3.5%	-41.1%
Indonesian Rupiah	-2.2%	0.1%	-1.3%	-4.7%	-58.3%
Russian Ruble	-2.1%	-2.9%	-4.2%	-8.9%	-135.3%
Vietnamese Dong	1.8%	0.7%	0.1%	-0.8%	-7.8%
Chinese Yuan	2.1%	2.4%	1.6%	-0.2%	-1.6%

Source: Bloomberg; Updated till 31st December 2021

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US wage inflation

• After moving within a range for last decade, US CPI has jumped to decadal highs on back of surge in demand, fiscal and monetary stimulus, supply chain bottlenecks, etc.

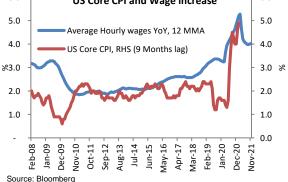


- US Job openings have risen significantly since pandemic and are now near decadal highs
 - Labour supply remains subdued impacted by unwillingness to join jobs due to care-taking needs, large unemployment benefits, high savings, etc.

- Wage inflation has increased significantly and is now, higher than pre-pandemic period. If wage inflation persists, it could pose an upside risk to US inflation
- Normalization of supply chain and waning of pent up demand could have a moderating impact on inflation



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Persistence of wage inflation is a key monitorable

Crude Oil supply to peak before Demand ?



Environmental concerns are building pressure on oil supplies

- Driven by increasing climate awareness and 'Net Zero target' objectives, it appears that investments in supply are being scaled back
- Global upstream capex is at a 15 year low after it was cut 30% in 2020 (down 50% from peak)
 - Notably, despite higher oil drawn in 2021, capex has remained flat and unlikely to increase meaningfully as implied by consensus forecasts
- · Access to capital across both equity and debt markets is likely to become increasingly constrained
 - JPMorgan and Barclays have announced decarbonisation targets for their high-emissions lending portfolios
 - Managements are under pressure to prioritize cash returns to shareholders over production growth

What happens if capex doesn't increase?

 If capex remains ~\$350 bn p.a., while oil production is likely to grow in 2022 and 2023, driven by ongoing projects, but it is expected to peak in 2024 and decline thereafter

Environmental factors and technological innovations impacting demand side too

While adoption of EVs remains a key long term headwind considering overall transportation is 55% of oil demand with ~30% demand from personal mobility, over next decade, population of ICE vehicles is likely to continue increasing

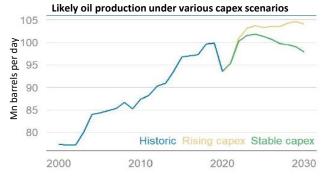
Millions barrel per day (mbpd)	2014	2019	2025E	2030E
Oil Demand (Source: IEA)	93	98	103	104

Sans higher capex, oil supply is likely to peak before oil demand

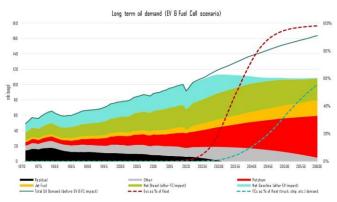
 Estimates suggests that global oil demand can peak between 2025-2030 vs supply, which is likely to peak ~2025, in absence of higher capex

Global upstream capex near 15 years low





Demand to peak in 2030 and then gradually decline



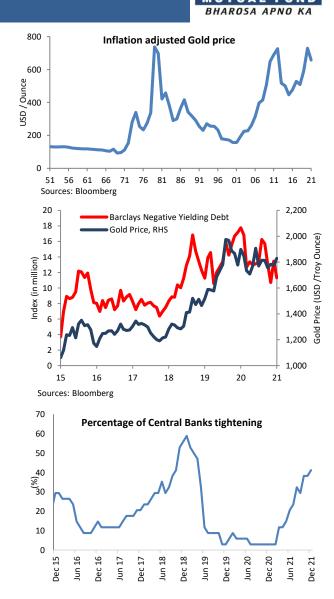
If supply peaks ahead of demand, oil prices could increase

Sources: IEA, USGC, Bernstein Research reports

Gold – Will the glitter continue ?

- Gold preserves purchasing power and acts as a hedge against currency depreciation and inflation over the long term
- Inflation adjusted gold prices have come off highs but still remain close to the past peaks

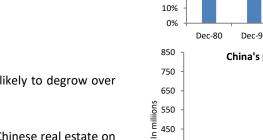
- Gold prices moved within a narrow range during most part of CY21 driven by
 - Rebound in global growth and risk-on sentiments resulting in shift to riskier asset classes
 - Liquidity injection remained healthy but incrementally slowed down after peaking in 2020
 - High inflation in major economies
 - Successive waves of Covid-19
- For the future, key drivers of gold prices are likely to be- inflation and interest rates, especially US treasury yields. While higher inflation is supportive of gold prices, rise in treasury yields is negative
 - Given the current inflation adjusted gold prices are high, logically they could correct over the medium term
 - Rising treasury yields and its expectations are likely to keep a lid on gold prices

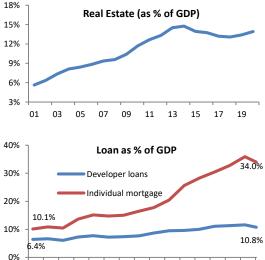


Based on 34 major central banks calculated by Edelweiss Research Sources: Edelweiss, Bloomberg

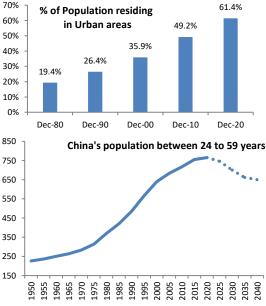
China Real Estate – In the News !

- Post Evergrande episode and defaults by a few real estate (RE) players, there is growing concern on China's real estate sector, particularly on its leverage
- Real estate is one of the large contributors of GDP and has been a growth driver for China
 - After China started to liberalize its economy, real estate prices saw significant increase with prices in Cities rising sharply and real estate became a preferred investment class
 - This was supported by rapid urbanization over the past three decades and low bank deposit rates
 - Factors like social status, cultural considerations, relatively under developed financial markets, etc.
 supported property demand / investments
- Thus, leverage in real estate increased driven by rise in both mortgage and developer loans
- China's RE sector is now maturing and growth rates should moderate over the medium term
 - Government policy is guided by philosophy that "Houses are for living in, not for speculation" and thus,
 Government is likely to keep a check on investments in this sector
 - Real estate price growth has slowed down and is in low single digits now
 - Slowdown witnessed in loan growth to RE sector mortgages as well as developers
 - Structural factors are not in favour as the population in the 19-64 years category is likely to degrow over next decade and incremental growth in urbanization is likely to be slower
- **Impact** Since majority of China's real estate debt is internal, the effect of slowdown in Chinese real estate on global financial markets is likely to be low, though impact on commodities needs to be watched





06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21



Source: Bloomberg, IMF, JM Financials, UBS, UN population data





Our Report Card for 2021



What we said in Yearbook 2021

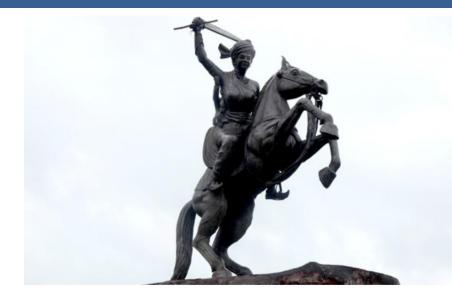
- Expect strong Global Recovery driven by fiscal and monetary stimulus, increase in HH savings, pent up demand and vaccination
- Risk of inflation driven by under investments in capital intensive sectors over the past decade
- Uncertain outlook on gold prices
- India's FY21 fiscal deficit is a temporary blip and deficit likely to narrow in FY22
- Crises have been drivers of reforms and Covid-19 is likely to be no different
- Logistics was pointed as India's Achilles heel and a key constraint for manufacturing growth in India
- Highlighted narrow nature of equity market rally and sectoral valuation divergences
- Long end yields likely to remain rangebound while short end could rise over time

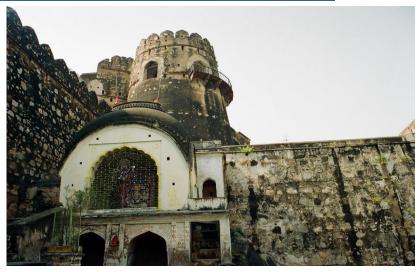
What actually happened

- Global Growth beat expectations with recovery in most advanced economies being stronger than anticipated
- Inflation has surpassed expectations across most major countries
- Gold prices declined in USD terms (-4.2%)
- Fiscal deficit is set to moderate in FY22 vis-à-vis FY21 despite additional Covid-19 related spending due to strong revenue growth
- Multiple reforms carried out in India formation of bad bank, national monetisation pipeline (NMP), strategic divestments, regulatory changes in telecom sectors, etc.
- Government unveiled a "Maha Gati Shakti" program to address the logistics bottlenecks and improve efficiency
- Rally in equities became broad based in 2021 and valuation divergences narrowed
- Yields at longer and short end moved up nearly equally (~60 bps)



Warrior Queens: Rani Lakshmibai, Uttar Pradesh





Above is the picture of Jhansi fort and Ganesh temple therein

Picture courtesy: Esamskriti.com, esamskriti.com is a treasure-house of all things Indic and contains Over 2,000 articles and 17,000 pictures.

- Rani Lakshmibai, who awakened India's dormant urge for freedom from British rulers, was born in 1828 to a Marathi Karhade Brahmin family in Varanasi
- Her actual name was Manikarnika Tambe and learnt archery, horse riding, etc. during her childhood
- She was married at the tender age of 8 years with Maharaja of Jhansi, Gangadhar Rao Newalkar in 1842 and was afterwards called Lakshmibai. They adopted a son name, Damodar Rao, just before her husband died
- She ascended the throne of Jhansi after the death of her husband in 1853
- After the British passed the controversial Doctrine of Lapse, under which they did not recognize Lakshmibai's adopted son as the next heir to the throne, she decided to fight the British. She valiantly fought the British valiantly but eventually, succumbed to her injuries in the battle
- This battle is called the First war for India's Independence and Rani Lakshmibai is remembered amongst the bravest fighters in the Indian history
- She has been immortalized in a poem by Subhadra kumari Chauhan, "Jhansi ki Rani", wherein the famous line "खूब लड़ी मर्दानी वह तो झाँसी वाली रानी थी" is often used to described Rani Lakshmibai

Source: Publicly Available information



Key Future Trends

- 1. Digitization and BNPL
- 2. Consumer Tech
- 3. Climate Change and the road to Net Zero
- 4. Electric Vehicles (EVs)
- 5. Blockchain and Crypto

Change is the new constant – *Heraclitus, A Greek philosopher*

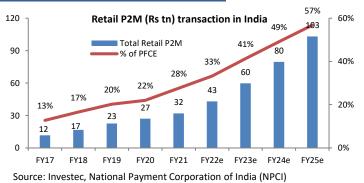


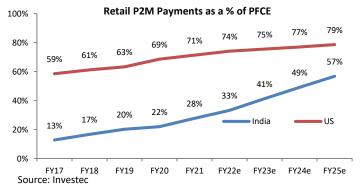
Digitization and BNPL

Digitization of transactions

- India is witnessing significant increase in Person to Merchant (P2M) transactions value over the last 5 years. If the growth sustains, it would eventually reduce usage of cash
 - Rollout of UPI and Zero MDR on it has been a game changer
 - Rise in Internet/smartphone penetration and low data charges are supporting increasing use of digital payments
- P2M transactions as % of PFCE is increasing; India can close the gap with US in medium term
 - Indian Retail P2M digital payments as a % of PFCE has increased to 28% from 13% in 2017
 - In US, digital payments are ~71% of its PFCE. India can close the gap with US over next 5 years
- Cost of transaction through different sources
 - UPI transactions are free for merchants. On the other hand, Debit card (DC) / Credit card (CC) transactions attract MDR (regulated / capped by RBI)
 - This along with ease of doing transactions is leading to substantial increase in penetration of digital payments
- Implications of digitization
 - Formalization of economy
 - Penetration of Banking at the bottom of the pyramid
 - Small ticket loans would get commoditized and will be driven by better data availability / analytics / machine learning







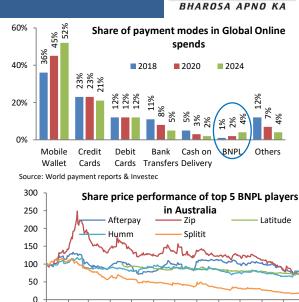
Type of Transaction	Cost / transaction	Average ticket size (INR)	
Credit card	2% MDR	4,000	
Debit card	0.4% MDR	2,900	
UPI	Zero	1,800	
ATM	INR 17	4,700	
Branch	INR 60	na	

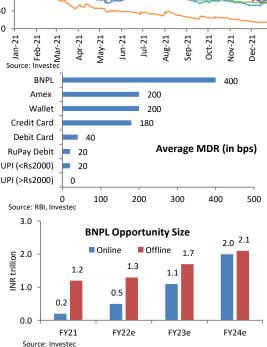
Source: Investec

BNPL – Opportunities and Challenges

- BNPL i.e. Buy Now, Pay Later refers to purchases done through installments, usually of less than 6-months at the payment gateway / POS. While the concept is old, with digitalization, data availability and analytics, loan availability for customers, especially for small ticket transactions, has improved significantly
- Globally, BNPL is only ~2% of total online spend while share of DC / CC spends is ~35%
 - BNPL has grown significantly in countries where CC offers less value. For e.g. in Australia, where MDR charges on CC/DC transactions are borne by customers.
 - However, till now, few BNPL players such as Afterpay in Australia and Klarna in Sweden have gained size and scale, although they also remain unprofitable due to higher customer acquisition costs and weak asset quality. In contrast, CC companies are highly profitable.
- BNPL value proposition from merchants perspective
 - BNPL has increased the pool of customers as "new to credit" customers have option to avail financing for small value purchases. This has led to increase in average transaction size and purchase frequency
 - While BNPL's customer acquisition cost is higher than CC, it is lower than alternate mediums like advertisement, leads from social media platforms, etc.
 - A typical BNPL transaction size is significantly lower than credit card transactions. For e.g. In India, average ticket size of BNPL is ~INR 500 as against ~INR 4,000 for CC
- BNPL opportunity in India
 - Currently, online BNPL (~INR 0.2 trillion) is <1% of online spend in India while off line BNPL is ~15-16% of POS spends and is estimated at ~INR 1.2 trillion (~0.6% of GDP)
 - Estimates suggest, BNPL's market size can nearly triple to ~INR 4 trillion by FY24
- Risks to watch out for
 - Offered to customers with limited credit history and relatively low access to formal credit
 - Collection costs are high due to lower ticket size and large numbers of loans

POS – Point of Sales





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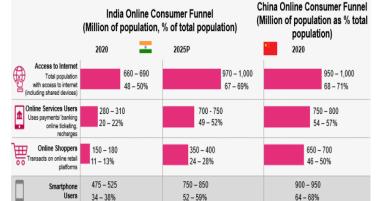


Consumer Tech

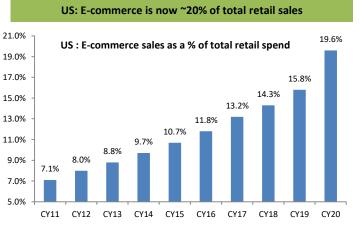
Consumer Tech is a broad term and includes– E-commerce [Retail – Grocery and Non-Grocery (apparel, electronics, beauty, etc.)], Food delivery, Education, Social, Gaming, Health, etc.

Consumer Tech – A Game Changer

- Digital penetration has gone up significantly in India on account of:
 - Significant increase in smartphone penetration leading to easy access
 - India ranks lowest in mobile data cost at USD 0.09/GB with strong 4G infrastructure
 - Government working as enabler of digital ecosystem (E.g. UPI based payment, UIDAI system, etc.) and has reduced the transaction cost significantly
 - Strong capital availability from Private Equity and Global Tech players is leading to capital and technological support
- Key benefits to the consumers include
 - Convenience of home delivery and 24x7 access
 - More choice across brands and price points across cities (especially tier II & III)
 - Seamless mode of payment and option of EMIs
- Implication for Physical Retailers / Service providers
 - Online retailers/service providers are growing at a rapid pace and are gaining market share at the expense of offline retailers. For e.g. US ecommerce sales now form ~20% of total retail spend
 - Physical retailers/service providers need to invest significantly on digital infrastructure with omni-channel presence to stay relevant in the current shift
- Investors interest has been one of the highest in this space given the untapped potential and limited options.
 - Strong listing of Zomato and FSN E-Commerce Ventures (Nykaa) has also aided the sentiments toward this sector



Source(s): RedSeer Estimates



Source: Digital Commerce 360 analysis of U.S. Department of Commerce data

Source: FSN E-Commerce Ventures (Nykaa) Nykaa Red Herring Prospectus (RHP)

India vs China: Online Consumer Funnel

TAM – Total Addressable Market

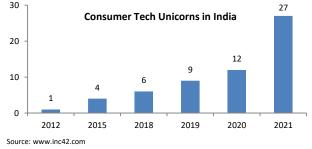


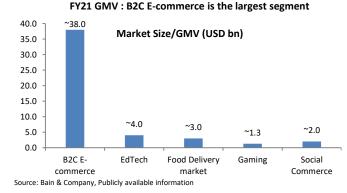
India Consumer Tech - Background

- Consumer Tech has been one of the fastest growing sectors in the startup space and has produced one of the highest number of Unicorns in India in last decade
 - Out of the 81 unicorns in India, 27 are from this space.

- B2C retail is the largest segment and accounts for ~75% of the Gross Merchandise Value (GMV) of entire consumer tech space
- Differentiation from US/China- Higher chances of success for Consumer Tech/ vertical ecommerce companies in India as compared to social media based tech companies because (1) India is not a very large advertising spender (Advertising spend is ~0.38% of GDP in India vs ~5.0% in US) and (2) presence of dominant large global social media companies
- Penetration of consumer tech is low and there is a long runway of growth
 - Covid-19 led inflection for digital adoption in India. Online shoppers are expected to grow at _ ~20% CAGR with overall online channel expected to grow >30% p.a. in the next 5 years (source: Redseer)
- Large Total Addressable Market (TAM) provides long runway for growth- Consumer tech companies have large TAM providing them long runway for growth
 - For e.g. Market Size of fashion and food Service in India in FY20 was ~USD 77 bn & USD 65 bn respectively with low online penetration in the range of ~6-8%

Consumer Tech Unicorns are ~30% of all Unicorns in the last 10 years





E-Retail is ~4.6% of total retail market in India



Source: Bain & Company, RHP of FSN E-Commerce Ventures (Nykaa)

We are not claiming that these companies will get listed and also not recommending to invest in these businesses. Mutual Fund Schemes can invest only in "listed / to be listed" equity and equity related securities as per applicable regulations. HDFC MF Schemes may or may not take position in these stocks in future



India Consumer Tech companies – Key Trends and Outlook

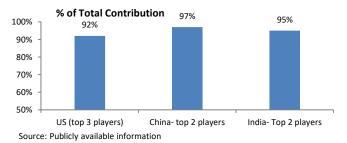
- **Oligopolistic nature of market** In line with global trend, India's consumer tech segment is largely oligopolistic in nature with top 2/3 players commanding over 80% of market share.
- B2C E-commerce, EdTech and Hyperlocal platforms lead in PE/VC funding, with Social commerce, Health-Tech and Travel & Hospitality being other emerging segments
- Leveraging on their existing consumer base, many companies have / are likely to diversify into multiple businesses. For e.g. Swiggy has forayed into grocery delivery (Instamart) & Supr Daily.
 - Large players have ambitions to develop Superapp which will integrate multiple platforms built / acquired over time. For e.g. GRAB, Go-Jek, Wechat, etc.
- Path towards profitability- Global experience suggests that companies tend to become profitable on achievement of scale and size, fall in customer acquisition costs and increase in bargaining power with customers/vendors. Given the relatively less capital intensive nature of business, return ratios can improve quickly.

Business valuations- how to value these companies?

- Given the loss making/ early stage profitability phase of these businesses, most traditional multiple based valuation methods are not considered appropriate. However, Discounted cash flow (DCF) with longer term assumptions should capture the intrinsic value.
- Apart from management and execution capabilities, valuation of such businesses should take into account factors like TAM, likely scale or market share of the company, contribution margins, high operating leverage, etc.
- Evolving Regulatory framework- Regulators are adapting to changing requirements and enacting regulations with the objectives of reducing monopolistic practices, protecting consumer interests and ensuring data privacy

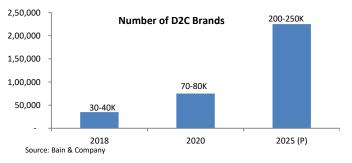
Superapps, an app which provide multiple services on one app thus providing self contained commerce and communication online platform

Food Delivery market: Top 2-3 players contribute more >90%



	201	.8	201	.9	202	0
	Funding	No. of	Funding	No. of	Funding	No. of
	(USD mn)	Deals	(USD mn)	Deals	(USD mn)	Deals
Edtech	742	18	325	28	1,833	59
Hyperlocal	1,637	15	617	23	1,642	30
Fintech	348	23	1,391	68	982	63
Social	200	14	481	41	565	53
Logistic tech	78	10	984	24	463	23
B2C	1,002	32	1,241	45	360	36
Online classifieds	236	11	426	34	417	18
Gaming	104	4	114	10	346	10
Wallets / Payments	564	8	1,275	15	334	21
Mobility	387	16	883	35	252	20
Health Tech	260	22	537	31	236	34
B2B	540	16	923	22	138	22
Travel & Hospitality	1,026	8	1,152	19	131	10
Agritech	41	1	156	14	49	17
Others	229	16	163	20	435	28
Total	7,394	214	10,668	429	8,183	444





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Climate Change and the Road to Net Zero

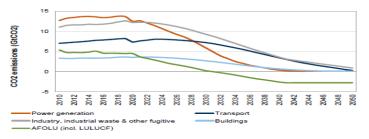
Climate change to drive significant investments

- Climate changes are widely believed to be primarily caused by rise in Green House Gas (GHG) emissions resulting in increase in mean temperature globally.
 - Consensus view is that aggressive net zero emission targets are necessary to limit the increase in temperature and consequently, over 140 countries have announced or are considering net zero targets (~90% of global emissions)
- Net zero target will require significant investments across sectors Power, Transport, Buildings, Real estate, etc.
 - Power, Transport and Industry are the key carbon emitting sectors
- For achieving net zero emission goal by 2050, it is estimated that aggregate incremental investments of ~USD 50-60 trillion will be required across major sectors
 - Above presents an investment opportunity of ~USD 2 trillion p.a. (~2% of global GDP)
 - Investments in power sector including on distribution networks, charging networks, renewable capacity expansion, etc. are likely to have largest share
 - Investments in Industry to control waste and pollution along with Buildings upgrades are also expected to be high
- Investments are likely to pick pace steadily and expected to peak between 2035-40

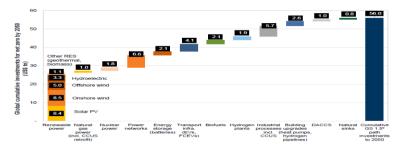
Source: Goldman Sachs (Introducing the GS net zero carbon models and sector frameworks – June 2021), climateactiontracker.org



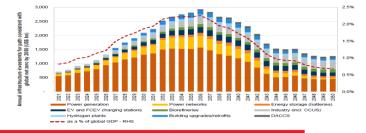
Modelled emission reduction pathway



Cumulative investment opportunity for global net zero by 2050



Annual investment profile to achieve net zero by 2050 (GDP USD 2010 PPP)







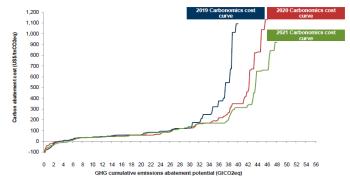
Carbon tax – A nudge towards going Green

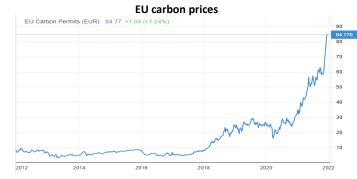
- Carbon tax is an additional cost on firms that emit carbon dioxide (CO₂) in their operations. Globally, in most countries, it is generally levied through following ways
 - Mandating purchase of carbon credits / licenses from secondary market
 - Charging additional tax on per unit of carbon generated
- Countries are also considering imposing a tax on imported carbon in form of import duties (also called carbon border adjustment tax) to aid competitiveness of their manufacturing sector
- This approach nudges companies towards innovation / efficiency / reducing investments in carbon emitting businesses and is increasingly used as a policy tool by many countries, especially in Europe
- While carbon abatement costs are declining due to innovation and scale, they are still at high levels compared to levels required to achieve a smooth transition to a net zero emission target
- Implementation of carbon tax has led to development of carbon trading markets
 - Amongst economies, EU has the most liquid carbon trading markets and carbon prices have increased sharply over past two years
- Where does India stand? India does not have a carbon trading scheme like EU. It, however, imposes a cess of INR 400/t on use of coal resulting in additional cost of ~INR 0.2/kWh on coal-based power. If India had carbon prices similar to the EU, it would have resulted in an additional cost of ~INR 5-6/kWh [Coal/gas based generation is ~80% of India's electricity generation vs. ~35% for Europe]

Carbon pricing initiatives' share of global GHG emissions covered (%)



Carbon abatement cost curves for anthropogenic GHG emissions



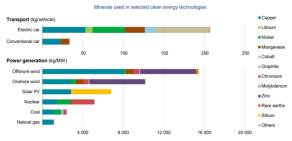


Source: GS (The dual action of Capital Markets transforms the Net Zero cost curve, Nov 2021)

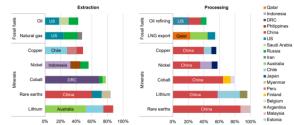
Demand for Minerals and Power is set to increase in Net Zero world

- Minerals are key input in EVs and renewable power generation
 - Excluding steel and aluminium, a typical electric car requires 6 times the mineral inputs vis-à-vis a conventional car
 - Renewable power sources like wind, solar, etc. require significantly higher proportion of minerals relative to conventional sources
- Possible challenges because of this increasing dependence on Minerals
 - Geographically concentrated supplies increases price volatility along with security and reliability risks;
 Supply side challenges, historically, are met through additional investments and technological innovations but this happens with a lag
 - China is a key source / owner of these minerals, thus increasing reliance on it
 - Some of these materials have high emission intensity in mining and processing. Thus, from a lifecycle
 emission consideration, low emission technologies in mining / processing these minerals will be
 required to achieve the objective of emissions reduction
- The demand for power generation by 2050 is likely to increase three-fold (vs. that of 2019) or ~3-4% CAGR and surpass 70,000 TWh as the de-carbonization process unfolds
 - >15,000 GW of solar (vs. ~600 GW in 2019) and > 10,000 GW of wind (vs. ~650 GW in 2019) net capacity addition would be required by 2050
- Risk of rise in interest rates poses a risk to energy costs. Every ~100bps increase in cost of debt increases tariffs by ~5% (*Source: ICICI Securities*) and thus, is a risk to monitor.

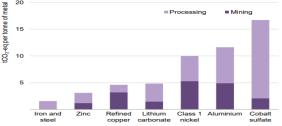
Minerals used in selected clean energy technologies

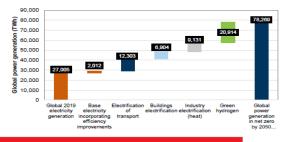


Share of top3 producing countries in production, 2019s



verage GHG emissions intensity for production of selected commodities





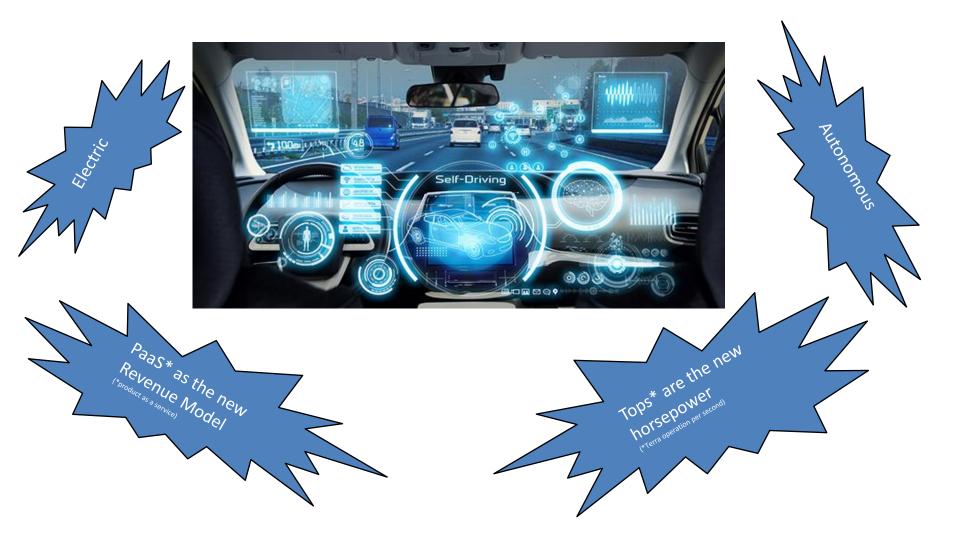


Refer disclaimers on slide 85



Electric Vehicles





As BEVs penetration debate settles, AVs are the new global battle frontier



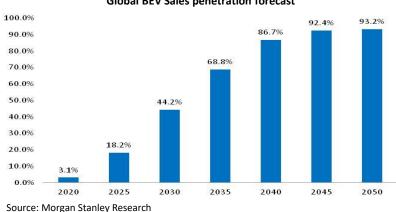




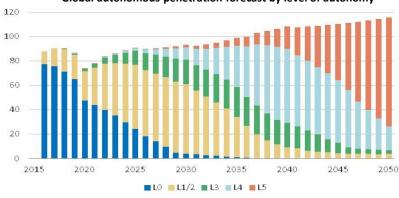


Revenue model of the future

- As BEV adoption debate settles since most of the naysaver OEMs are changing their stance in favour of BEVs, the debate has shifted towards level of autonomous and vehicle software as the key brand differentiating factors
 - "Software will be THE differentiator to decide how successful VW will be in the #NEWAUTO world!"; VW CEO, Diess
- Subscription and services revenue from vehicle as services (Robotaxi), payable vehicle features, software upgrade and cloud services etc will be the ٠ key revenue pool (various forecasts pointing to 25-30% Tesla revenue from this as Tesla vehicle population increases) for auto OEMs compared to >90% revenue from product sales currently
 - _ Though not comparable, revenue contribution from Apple subscription/services reached 19% in FY21 from 9% in FY15 as cumulative user volume of iPhone/iPad/wearable watch increased
 - Majority of demand of E-2W start-ups in India is for OTA subscription enabled models that have Rs20-30k higher upfront price _







Global autonomous penetration forecast by level of autonomy

Source: Morgan Stanley Research

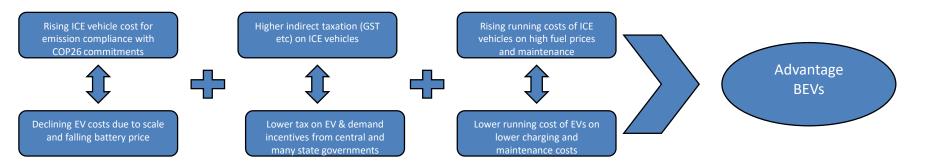
L0 : No driving automation; L1/L2: Driver assistance and partial driving automation, L3: Conditional driving automation; L4: Advanced driving automation; L5: Full driving automation

AV - Autonomous vehicles, OTA: Over the Air software updates, BEV - Battery Electric Vehicle, OEM -Original Equipment Manufacturer, E-2W – Electric Two Wheeler,

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.. BEVs penetration in India is following global trends and is at an inflection point...





Trends in 2W electrification

- 2W EVs are no longer just an automobile, but also a gadget: Early adopters and digital generation is ready to experiment and likes digital functionalities
- A section of motorcycle customers can also switch to EV scooters 1) Family bikes where usage is not very high but operational cost savings are enticing; 2) EVs have moved past the speed and performance of ICE scooters; 3) Pride of trend-setting ownership and 4) Adoption of low-speed E-2Ws is driven by lower costs of operation
- Despite supply constraints, E-2Ws penetration has reached 2.2% in Dec-21

Trends in 4W electrification

- Reservations over EV penetration potential in Indian PV segment are also gradually getting addressed as EV penetration in retail registration has crossed 1% level in Dec-21 despite long delivery time, limited choice of models and low subsidy
- Total cost of ownership parity or superiority has been broadly achieved in key growth segments of the domestic PV industry and initial price parity is also likely to be achieved in the next 2 3 years with higher localization and scale
- Government is addressing charging infrastructure issue with ~100k+ public charging stations in the next 3-4years period across India which includes at least 50k EV charging station at the OMC's 75k+fuel pumps along with additional new charging points at highways or public parking places

CoP 26 -COP26 is the most recent annual UN climate change conference. COP stands for Conference of the Parties ICE – Internal Combustion Engine, OMC – Oil Marketing Companies, 2W – Two Wheeler, 4W – Four Wheeler, PV – Passenger Vehicle

.....Government policies are acting as catalysts and driving adoption of BEVs



Catalysts for both OEM and consumers

- Relentless push by Governments through demand incentives, tightening of emission regulations, low GST, no road tax on BEVs for 5 years, etc.
- Auto PLI on only new energy vehicles (EV or Fuel cell) and ACC battery manufacturing PLI incentive (combined incentive of INR 441bn) scheme to bridge upfront cost gap in the initial years
- Rising pollution compliance cost of ICE vehicles with stringent CAFÉ and Realdrive emission norms with COP26 commitment of 45% reduction in CO2 from 2005 level
- Higher indirect taxation on vehicle fuels (Diesel/Petrol) will continue to widen total cost of ownership in favour of BEVs vis-à-vis ICE

Auto PLI scheme

OEMs - Determined Sales Value (INR bn)	Incentives (%)		
Min Determined Sales Value in Year 1	INR 1,250 mn		
<= 20	13%		
20 - 30	14%		
30 - 40	15%		
> 40	16%		
100bn for OEMs in 5 years	Additional 2%		
Components - Determined Sales Value (INR bn)	Incentives (%)		
Min Determined Sales Value in Year 1	250mn		
<= 2.5	8%*		
2.5 - 5	9%*		
5 - 7.5	10%*		
> 7.5	11%*		
12.5bn for components in 5 years	Additional 2%		
EV & HFCV	Additional 5%		
*Multiplied by a factor of 0.9 in 5th year for sales relating	to ICE components.		
Year	Incentive Payout (INR bn)		
1	6.0		
2	31.5		
3	59.3		
4	72.0		
5	90.6		
Total payout	259.4		

FAME II and state demand incentive schemes

State/Central	Subsidy per kWh	Subsidy per vehicle (upper limit)	Vehicle subsidy for no of vehicles #
Central Govt	INR 15,000 / kWh for 2W 3W/4W: 10,000/kWh	E-2W: INR 45,000 E-3W: INR 50,000 E-4W EV: INR 1,50,000 E-4W Hybrid: INR 13,000 E-Buses: INR 50,00,000	2W: 10,00,000 3W: 5,00,000 4W: 55,000 (20K strong hybrid) Buses: 7,090
Gujarat	INR 10,000/kWh	INR 20,000 for E-2W INR 50,000 for E-3W INR 1,50,000 for E-4W	2W: 1,10,000 4W: 20000 3W: 70000
	INR 5,000/kWh 10% of the vehicle costs for Buses	INR 10,000 for E-2W INR 30,000 for E-3W INR 150,000 for E-4W cars INR 1,00,000 for E-4W goods INR 20,00,000 for e-buses	2W: 1,00,000 3W: 15,000 Passenger 3W + 10,000 Goods 3W 4W Car: 10,000 4W Goods: 10,000 Buses: 1,000
Delhi	INR 5,000/kWh for E-2W INR 10,000/kWh for E-4W	INR 5,000/kWh for E-2W subject to INR 10,000 INR 30,000 for E-3W INR 10,000/kWh for E-4W subject to INR 150,000	2W: Unlimited 3W: Unlimited 4W Car: 1,000 4W Goods: 10,000
Assam	INR10,000/kWh	INR 20,000 for E-2W INR 50,000 for E-3W INR 1,50,000 for E-4W	2W: 1,00,000 3W: 75,000 4W: 25,000
Rajasthan	E-2W with battery capacity of 2kWh, 2-4kWh and >5kWh subsidy of INR5k, 7K and INR10K	INR 7,000-10,000 for E-2W INR 10,000-20,000 for E- 3W	
Meghalaya	INR 10,000/kWh for E-2Ws INR 4,000/kWh for E-3Ws/E- 4Ws/eBus	INR 20,000 for E-2W INR 20,000 for E-3W INR 60,000 for E-4W INR 5,200 for hybrid E-4W INR 1mn for E-Buses	2W: 100,000 3W: 75,000 4W: 25,000
Goa	Subsidy starting from FY22 for 2W, 3W and 4W and ending FY26 with reduction of INR2000/kWh every year henceforth	INR10,000/kWh for E-2W INR10,000/kWh for E-3W INR10,000/kWh for E-4W	2W: 3,000 3W: 50 4W: 300

Source: Government of India and State governments schemes

ACC: Advanced Cell Chemistry, PLI: Performance Linked Incentives, CAFÉ - Corporate Average Fuel Economy

Source: PIB. Government of India



Blockchain and Crypto

What is a Crypto Asset ?

• While a number of Crypto assets have risen sharply over last 5 years, there is still lack of consensus amongst intellectuals about its true nature – is it a currency or a commodity or an investment class or something else. Characteristics of crypto have some overlap with both commodity and currency

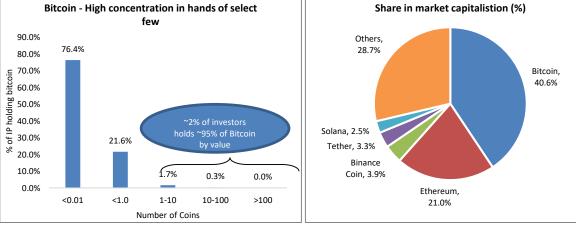
Rising importance of Crypto assets

- There are now over 8,500 cryptocurrencies and increasing with market capitalisation of over USD 2 trillion; this is equal to ~18% of total gold holding globally
- Increasing popularity, rising market cap, large trading, etc. have resulted in it receiving attention globally including from regulators

Interesting facts about Crypto

- Market cap of top 5 crypto assets accounts for ~70% of outstanding market capitalisation
- Ownership of Bitcoin and other major coins like Litecoin, Ethereum, etc. is concentrated as ~2-3% of investors holding ~90-95% of outstanding coins by value
 - Hence, systemic risk is low, at least as of now, and any strict government action against crypto is likely to have limited impact

	Currency	Gold	Security	Crypto
Store of value	√	~	\checkmark	?
Standardised	✓	✓	\checkmark	\checkmark
Medium of Exchange	✓			Nessent
Acceptability	✓	✓	✓	Nascent
Transferable	✓	✓	✓	✓
Divisibility	✓	✓	\checkmark	\checkmark
Limited supply	✓	✓	✓	
Regulated	✓	✓	√	
Durability	✓	✓	✓	~
Generate cashflows	✓		✓	
Volatility in Value	Low	Medium	Medium	Very high



Source: https://bitinfocharts.com/



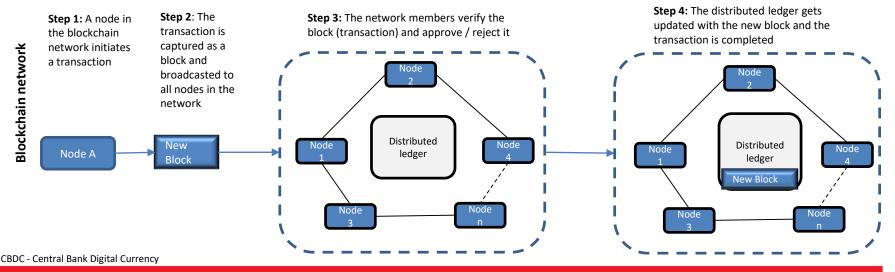
Did you know? The first commercial bitcoin transaction was to buy 2 pizza

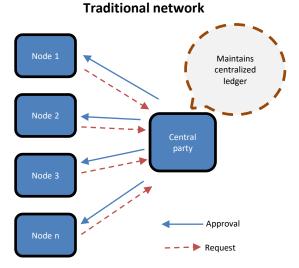


BERNER APNO KA

- In a traditional system, transactions are usually verified by a central party. For e.g., in a NEFT payment transfer, the transaction needs to be cleared by NEFT Clearing Center
 - Pros: Trusted and regulated entity control
 - Issues: Time associated with processing can be high
- In a blockchain network, the ledger collection of transaction records is distributed
 - On initiation of transfer request (e.g.: transfer of a bitcoin), a new block with the transaction details (e.g.: payer and payee details, transaction amount, account balance etc.) is created and broadcast to all the network participants
 - Participants, by majority, verify the block against the ledger and approve or reject it
 - Distributed ledgers are then updated with the new transaction and the transaction is completed
- Positives: Increased transparency, possibly lower costs/time associated with processing
- Cons: Collusion by participating members can result in fraudulent transactions getting approved; Technology adoption is still at nascent stages

Usage: Payments (Cryptocurrencies, CBDC), Cross Border Payments, Smart supply chain contracts, records, etc.





* Company X is a globally renowned technology company

Crypto – Usage, Valuation and Challenges

Usage

- Crypto Assets are sparingly used as "medium of exchange". The higher volatility in prices compared to a traditional currency makes it less likely to be used as a "store of value". Bitcoin is 10X more volatile compared to major currencies.
- Becoming a speculative asset class with increasing interest from people
- Where do Crypto assets derives their value from ?
 - Crypto assets, just like Gold, have value because "people believe they do" and there is no scientific or logical valuation model / method to determine fair value of any crypto asset

Source: Digiconomist

- While Gold has a long history of acceptance on its side and is also used for making jewellery, Crypto assets lack these
- Why are government and Central Banks apprehensive ?
 - Risks to relevance of monetary policy and its impact on economy if unregulated monetary instruments gain scale in adoption
 - Increasing popularity and participation in crypto assets poses risk to financial stability, if prices of such assets collapses
 - Lack of strong regulations around KYC, make crypto assets a preferred payment instrument for illegal and criminal activities
- Risks / Challenges
 - Significant fluctuation in prices can happen as seen in the past
 - Susceptible to hacking / cyber theft and retrieving the same is nearly impossible
 - High consumption of electricity and carbon footprint

"It is not possible to, I think, destroy crypto, but it is possible for governments to slow down its advancement"

– Elon Musk, Tesla CEO

Future? Jury is still out "It's not a convenient medium of exchange; it's not a stable store of value; it's definitely not a unit of account,." -"Bitcoin Is Evil" - Paul Krugman, Nobel Prize winning Economist





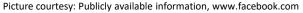
Did you know?

Estimates suggest one bitcoin transfer has a carbon footprint equivalent to 2.02m Visa transactions or 152,000 hours of watching YouTube

Warrior Queens: Rani Durgavati, Madhya Pradesh







Picture courtesy: <u>www.esamskrit.com</u>; , esamskriti.com is a treasure-house of all things Indic and contains over 2,000 articles and 17,000 pictures. Above is a picture of Palace of Rani Durgavati

- Rani Durgavati, belonged to the Chandel Rajput Royal family and ruled over Gondwana, in Madhya Pradesh during 16th century
- Belonging to a Rajput family, she learned horse riding, archery, sword fighting and was trained to be a fighter at a young age
- After the demise of her husband Dalpat Shah, she took control of the Gondwana Kingdom in 1550
- As a queen, she fought 51 gallant wars against many invaders including Mughals and showed enormous courage and heroism in her battles
 - In one of her battles, she so convincingly defeated Baz Bahadur, Sultan of Malwa, that he forswore fighting and gave himself up to music
- On 24th June 1564, in her last battle with the Mughals, despite her army chief being killed, she fearlessly fought to drive away the Mughals. Injured and outnumbered by warriors Rani Durgavati killed herself to avoid getting captured. This day is celebrated as 'Balidan Divas'' in India

Source: Publicly available information



Indian Economy

India's potential for growth is unmatched ----- Lawrence Summers^

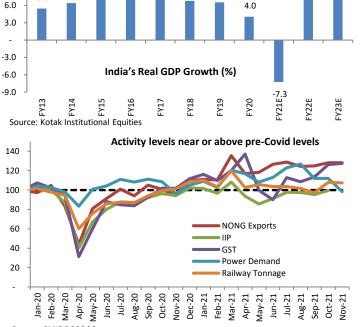
^Ex-Treasury Secretary of US and leading US Economist in December 2021

Indian economy : Recovery was swift, robust growth ahead

• Indian economy is set to witness a V-shaped recovery in FY22 after a sharp fall in FY21 driven by base effect, pent up demand, favourable external environment, fast pace normalisation and supportive fiscal and monetary policies

Leading indicators like Power demand, railway goods movement, GST collections, NONG exports, etc. are signaling a strengthening and broadening of economic recovery

 India's growth outlook is one of the best in a long time and driven by multiple factors as highlighted in the adjoining table



8.0

7.4

6.4

5.5

8.3

6.8

6.5



12.0

9.0

	Future growth drivers	
Steady growth in Consumption	Rising employment and wages	Robust Exports
Acceleration in Infrastructure Investments	Robust foreign capital inflows	Increasing competitiveness and PLI schemes
Divestments and Fiscal deficit under control	Favorable Regulatory reforms across industries	Ample liquidity and benign interest rates

India is emerging as a land of opportunities - PM Narendra Modi*

PLI - Production Linked Incentives, NONG – Non Oil Non Gold, GST – Goods & Services Tax

*At India Ideas Summit which was hosted by US-India Business Council (USIBC) in 2020



9.5

8.1

Indian Economy Outlook: Firing on multiple cylinders



Macro economic environment	 Robust growth with broad based improvement in consumption and investments Comfortable external sector with large forex reserves, capital flows and favourable external environment Gradual fiscal consolidation and range bound inflation
Reforms	 In the period of Covid-19, Government has carried out several important reforms like Aatmnirbhar Bharat program, National monetization pipeline (NMP), creation of "bad bank", sector specific measures, etc. creating a favourable environment for business and growth
Manufacturing, External Sector and China plus one	 Rise in competitiveness of India's manufacturing as wages in China are ~2x of India's Covid-19 led disruption likely to accelerate the shift of global supply chain to other EMs including India PLI and measures like tax incentives, increase in import duties, etc.
Startups	 Startup ecosystem set to expand driven by availability of risk capital, technical skills and supportive policies Startups can help in employment generation, improving efficiency, creating wealth and driving innovation
Infrastructure, Capex and Housing	 Government's focus to boost infrastructure spend with National Monetisation Pipeline (NMP), National Infrastructure Pipeline (NIP), etc. Private capex likely to pick up in medium term driven by robust demand, deleveraging and strong profitability Real estate likely to revive driven by high affordability
	 Meaningful improvement in employment and new hiring, especially in organized segment Digitization and improving Ecommerce acceptability has given access to a larger customer base

Structural growth drivers and supportive external environment bode well for India's growth story

Source: Government documents and publicly available information.

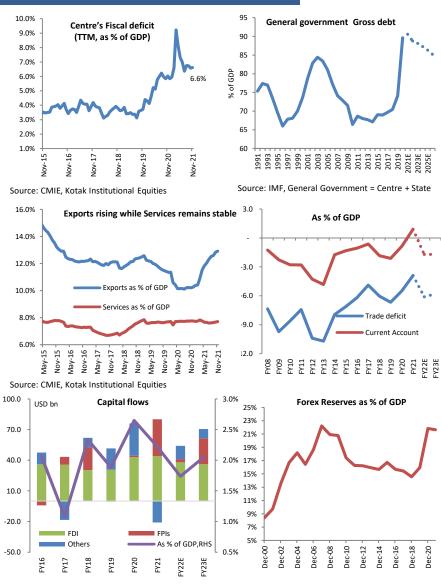
BoP – Balance of Payment; FDI – Foreign Direct Investments, NONG – Non Oil Non Gold

Fiscal deficit and External sector – Set to normalise to pre-pandemic levels

- Fiscal deficit is set to moderate as Government revenues increase with broad based improvement in direct and indirect taxes; Likely to offset shortfall in divestment revenues and additional spending on Covid-19 related measures
- General government debt as % of GDP rose sharply for India but is reasonable especially compared to economies like EU, US, Japan, etc.

- Current account deficit (CAD) is likely to normalize in FY22 and beyond but is expected to remain at reasonable levels
 - Merchandise exports have reverted to pre-pandemic levels (12.9% of GDP) while services exports remained resilient (7.7%)

- Capital flows have been steady and generally, higher than CAD
- Foreign exchange reserves climbed up to all-time high (USD 635 bn) and are now near pre-GFC highs (in terms of % of GDP)



Source: CMIE. Kotak Institutional Equities

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Infrastructure

- Aim to develop infrastructure under National Infrastructure Pipeline (NIP) through projects worth INR 111 trillion; Launched the "Gati Shakti Master Plan" to integrate projects under NIP
- NMP launched identifying CPSE assets worth INR 6 trillion to monetise to fund infrastructure spending
- Budget spending towards capex scaled up along with nudging CPSEs and state Governments to increase capital spending

Manufacturing

- Swift roll-out of PLI schemes in 13 Sunrise and Strategic sectors to boost manufacturing; 4-6% of incremental sales provided as incentives
- Complementary reforms in land, labour and taxations also carried out to incentivize new industries
- Strategic Divestment
 - Under its strategic divestment policy, barring identified strategic sectors, Government proposes to divest/consolidate/liquidate all CPSEs.
 - Separate department "DIPAM" is responsible for the divestments. Good progress happening on divestments for e.g. Air India divestment near completion, LIC IPO is progressing well, bids for Neelanchal Ispat invited, etc. Few more divestments also likely to be completed in the near term
- Banking
 - Announced National Asset Reconstruction Company limited (NARCL) or 'bad bank' to take over ~INR 2 trillion worth of NPAs
 - To guarantee for debt upto INR 306 billion to back Security Receipts issued by the NARCL
- Others
 - **Telecom:** Liberal regime for telecom operators introduced by deferring payment of past liabilities, easing guarantee requirements, etc.
 - Power: National electricity policy to ease burden on consumers, etc. privatisation of discoms in UTs, etc. Further, reforms are in offing

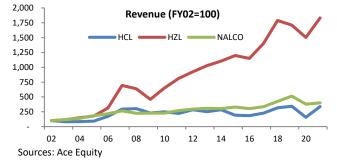
In the midst of every crisis, lies great opportunity – Albert Einstein

Source: Publicly available information; CPSE – Central Public Sector Enterprises *American Author

Strategic Divestment and monetisation –Value creation for All !!!

- In the past, select strategic divestments done by Government have been remarkably successful
 - After stake sale of 45% in Hindustan Zinc in 2002, the company has grown 18 times in revenue and 117 times in profits
 - On the other hand, for NALCO and Hindustan Copper Limited (both in commodity sector) growth in revenues has been far lower
- Timing for Divestment has to be right as significant delay can result in significant value destruction
 - BSNL networth in FY08 was > INR 80,000 crores with debt of ~INR 3,400 crores
 - Between FY08-FY20, BSNL has incurred net loss of over INR 95,000 crores
- There were chatters[^] of AT&T possibly eyeing stake in BSNL in 2008 but it did not happen; had it happened Government would have saved significant losses and may be BSNL would have done better

- Government has announced divestment policy wherein it plans to privatise / sell / shut down CPSEs in non strategic sectors; Even in strategic sectors, only limited number of CPSEs will operate
 - Strategic sale of Air India, despite heavy losses, is an important achievement and the learnings should accelerate future transactions



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Source: https://economictimes.indiatimes.com/industry/telecom/att-eyes-bsnl-stake-to-re-enter-india/articleshow/4953086.cms?from=mdr *if the buyer is a foreign investor

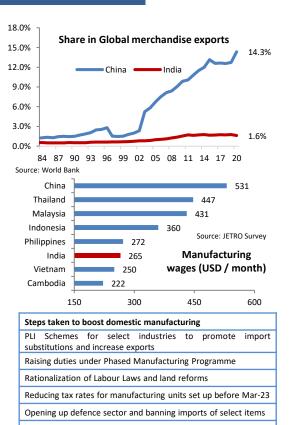
Refer disclaimers on slide 85

Manufacturing beckons

- India lost to China in scaling up manufacturing in last two decades
 - India's manufacturing sector share in Gross Value added (GVA) reduced despite its consumption spending rising, implying India's dependence on imports increased over the period
- Disruption due to Covid-19 has triggered an urgency to diversify global supply chain and many global MNCs are implementing China+1 strategy; further, wages and compliance costs in China have also risen
- This trend has come at an opportune time as India's competitiveness has improved due to lower wages, PLI schemes, tax incentives, etc. along with other favourable government policies

Is India Ready?

- India is a likely beneficiary of this shift in manufacturing due to the following reasons
 - a large domestic market & improving ease of doing business
 - skilled human resources at competitive costs
 - Tariff and non-tariff measures to aggressively support manufacturing in India
 - Production linked incentive scheme (PLI) improves competitiveness
 - Focus on self reliance in defence, chemicals, pharmaceuticals, etc.
- Structural advantage
 - India's share of working age population will overtake China by 2030



Revision of MSME definition to incentivise scaling of operations





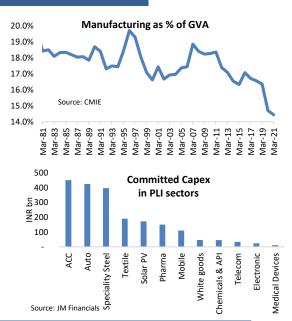
PLI Schemes - Well planned and executed

- India's manufacturing sector share in Gross Value Added (GVA) has been trending down despite strong growth in domestic consumption, thus translating into higher import dependence and a larger trade deficit
- To stem this trend, Government has been actively taking steps the most important of which is PLI schemes for Sunrise and Strategic sectors
- · Schemes are well targeted with intention to incentivise domestic manufacturing
 - Government targets to boost India's manufacturing output by USD 520 bn in 5 years through PLI schemes
 - India has trade deficit in 5 out of the 10 PLI sectors with aggregate trade deficit of USD 40 bn and if successful, PLI schemes should help reduce this deficit

One eye on Investments:

- Direct investment commitments under PLI schemes aggregate to ~INR 2 trillion
- Given the lower corporate tax rate for manufacturing units set up before March 2023, significant portion of capex likely to happen over next one and half year
- · Attract investments from MNCs looking to diversify from China

	Time period	Incentives (INR bn)	Under evaluation	Approved	Progress
Mobile manufacturing	6 yrs (FY21-26)	410		✓	16 companies approved
Medical devices	8 yrs (FY21-28)	34		 ✓ 	14 companies approved
Key APIs / bulk drugs	9 yrs (FY21-29)	69		√	47 companies approved
Automobile & components	5 yrs (FY23-27)	570	\checkmark		Scheme has been approved and application invited
ACC battery	5 yrs (FY22-26)	181	\checkmark		Announced and under process
Pharmaceutical drugs	9 yrs (FY21-29)	150		\checkmark	55 companies have qualified
Telecom & networking products	5 yrs (FY22-26)	122		✓	31 company proposals including 16 MSMEs and 15 approved
Food products	6 yrs (FY22-27)	109		√	60 companies approved
Man-made fibre & technical textiles	5 yrs (FY22-26)	107		✓	35 companies have shown interest and under consideration
Specialty steel	5 yrs (FY22-26)	63	✓		Guidelines issued
White goods (ACs & LED)	5 yrs (FY22-26)	62		~	42 companies approved
Electronic/ technology products	4 yrs (FY22-25)	50		 ✓ 	14 companies approved
High efficiency solar panel modules	5 yrs (FY22-26)	45	✓		Announced and under process
Total		1,973			
Source: UBS Research					·





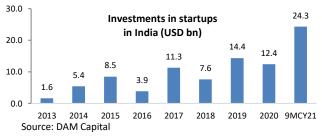
Startup India - Primed for sustained growth

- Indian startup ecosystem has seen significant progress over the past few years and has become a critical growth driver for India
 - India has overtaken China in number of new unicorns* in 2021
 - Crackdown on China tech sector has possibly impacted start-up funding in China
- Investments in startups have been increasing despite pandemic on back of rising digital penetration and availability of risk capital

Journey of becoming a Unicorn has become shorter

Estimates suggest that number of Indian startups is set to nearly double to 1 lakh over next 4 years and start ups could employ over 3.25 million people





Name of Startups	Period to become Unicorn
Naukri, Makemytrip	20 years
Zomato, Flipkart and Policy bazaar	8 to 10 years
Nykaa and Oyo	5-6 years
Udaan and Ola Electric	3 years

Source: An article published in Feb 2021 on Yahoo.com



Availability of big talent pool, large market and risk capital bode well for startup ecosystem

*Unicorns are referred to private firms valued at USD 1 billion or more

Infrastructure push - Government leading the way

- Sharp increase in capex outlay in Central budget in FY21 and FY22
 - Quality of Fiscal deficit has improved with share of capex rising

- Parallelly, state governments have also stepped up capex spending
 - Central Government has front ended transfer of shortfall on account of compensation cess for FY22 to States to encourage spending
 - Incentivizing states to monetize assets/divest / strategic sale to push capex by _ providing matching contribution from Centre
- National Infrastructure pipeline (NIP) envisages investment of INR 111 trillion over FY20-FY25 i.e. 2x of investments done in prior 7 years

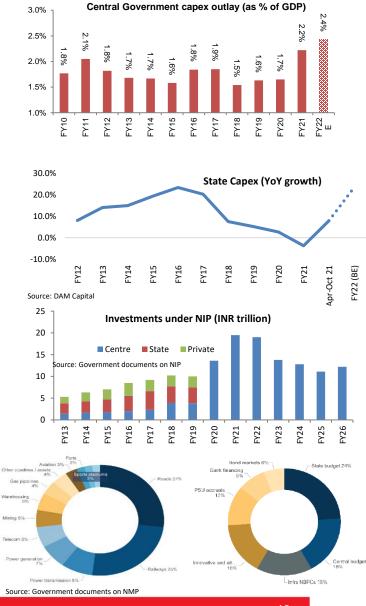
- ~54% of funding likely to come from government budgets and PSUs
 - Government actively trying to develop alternate source of funding such as launch of _ NMP of ~INR 6 trillion

Source: NMP - National Monetisation Pipeline

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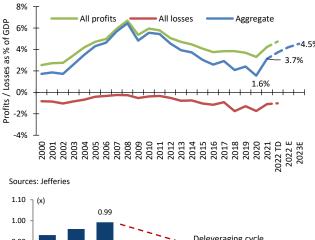


Private capex – Improving Outlook

- Profitability of listed companies has improved significantly and is expected to sustain driven by normalizing banks profitability, higher commodity prices, strong recovery in demand, etc.
 - Broad based improvement in profitability visible across major manufacturing sectors like metals, cement, sugar, textile, chemicals, paper, etc.

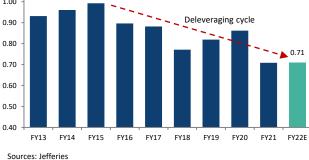
- Conducive environment for private capex
 - Corporate leverage is near 10 year low
 - Improved competitiveness vis -a vis China
 - Rising interest of global MNCs to set up manufacturing driven by China plus one policy
 - Supportive government policies and thrust on "Aatmnirbhar Bharat"
 - Ample liquidity and benign interest rates

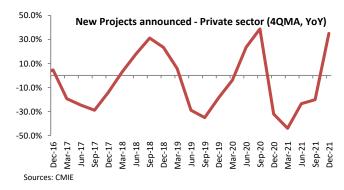
New projects announced by private sector have increased in recent quarters, possibly indicating early signs of improvement in capex



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Stars are aligned for revival of private capex in India

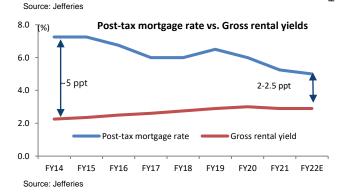
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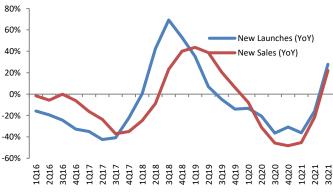
Housing – At the cusp of revival?

- Over the past two decades, house affordability has improved and is close to decadal best
 - With India Inc. moving towards a hybrid work model (Office + WFH), demand for home improvement sector is likely to get a boost
 - Improving affordability, rising employment, and rise in wealth due to the rise in stock markets, etc. is positive for real estate demand
- Attractive trade off between rental yields and Mortgage rates

• Real estate volumes have picked up and the trend is likely to sustain in the near term







Source: Morgan Stanley

Housing is an important part of Gross capital formation and its revival should support faster growth

GHDFC MUTUAL FUND BHAROSA APNO KA

Consumption: Tailwinds of improving employment and Digitalization

 Post Covid-19, hiring has improved meaningfully especially in organized sectors with net addition to EPFO (proxy of organized employment) ~2x of Pre-Covid-19 levels

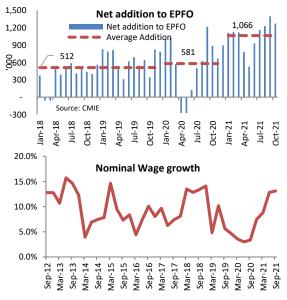
• Rising jobs and higher wages to support growth in consumption

Low penetration of consumer durables provides headroom for growth

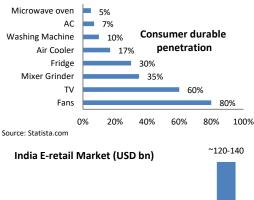
E-Commerce is supportive of consumption as choices for consumers increases in Tier II and III cities/ towns

E-Commerce Penetration of Indian Retail market	FY19	FY20	FY21	FY26E
Overall	~2.8%	~3.5%	~4.6%	10-11%
Ex-Grocery	~9%	11-12%	19%-20%	26-28%

Source: Bain & Company



Source: Motilal Oswal Financial Services; Universe of ~2800 listed companies





Source: DRHP of FSN E-Commerce Ventures (Nykaa)

Warrior Queens: Rani Mallamma, Karnataka and Rani Kittur Chenamma, Karnataka





Picture courtesy: <u>https://navrangindia.blogspot.com/2015/04/one-of-earliest-indian-</u> <u>queens-tohave.html</u> . Location: Belgavi District

- Belawadi Mallamma, also known as Savitribai was the warrior queen of Belawadi in Belagavi District of Karnataka, India.
- Given the turbulent political situation of the 17th century, women were also trained to fight and Young Mallamma proved her mettle and excelled in horse riding, fencing and archery.
- By the time she made it to the Belawadi royal household, she was well versed in both matters of administration and military skill.
- She is credited with being the first queen in the history the Indian subcontinent who built and trained a women's army in the 17th century to wage wars against the Marathas and the British forces



Picture courtesy: https://en.wikipedia.org/wiki/Kittur_Chennamma; Location: Bengaluru

- Kittur Chenamma was the Queen of Kittur, a princely state in Karnataka during early 19th Century
- Born in 1778 in Kakati, a small village in the present Belagavi District of Karnataka, she belonged to the Lingayat community and received training in horse riding, sword fighting and archery from a young age
- In defiance of the doctrine of lapse, she led an armed resistance against the British East India Company in 1824.
- She defeated the British in the first battle, but was ultimately imprisoned in Bailhongal fort, where she eventually died
- One of the first female rulers to rebel against British rule, she became a folk hero in Karnataka and symbol of the independence movement in India

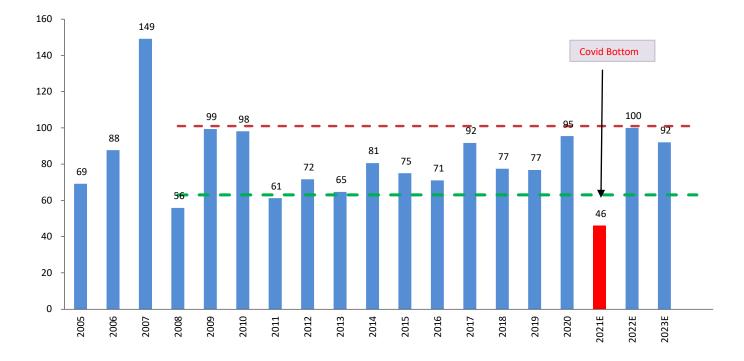
Source: Article in Bhavan's Journal published by Bharatiya Vidya Bhawan, Mumbai and publicly available information



Equity Markets and Sector Overview

Indian Equity Outlook – a picture is worth a thousand words !





- Despite the sharp rally in 2020 and 2021, NIFTY 50 returns over the past 10 years and 15 years are 15.4% and 11.6% CAGR[^] respectively, largely in line with nominal GDP growth. Market cap / GDP is also in line with the past range
- Markets are thus fairly valued and the long term returns should be in line with the nominal GDP growth

Source: Kotak Institutional Equities, Bloomberg. A as on 29th Dec, 2021, Covid bottom: Market valuations as on 23rd March, 2020 when it reached its low during the correction

Corporate Profits have improved sharply



- India's corporate profitability has lagged GDP growth since 2008.
 Between 2008 to 2020, the nominal GDP growth was 13% CAGR while corporate PAT growth was 6% CAGR.
- 8% All profits All losses Aggregate 7% 6% Profits / Losses as % of GDP 5% 4.5% 4% 3% 2% 1% 1.6% 0% -1% -2% -3% 2018 2019 2022 E 2000 2001 2002 2003 2003 2005 2005 2005 2007 2009 2009 2010 2010 2011 2013 2013 2013 2013 2015 2016 2017 2020 2022 TD 2021 2023E

NIFTY 50 estimat	tes
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	FY15	FY16	FY17	FY18	FY19	FY20	FY21
Estimate	453	437	447	478	510	542	*
Actual	398	384	439	449	480	453	536
Change	-12%	-12%	-2%	-6%	-6%	-16%	*

Estimates in October are considered for the financial year's estimate *FY21 being a year with severe covid restrictions, estimates changed sharply



FY23E Corporate profits / GDP ratio is ~4.5% and earnings growth, thereafter, is likely to be in line with the nominal GDP Growth.

Source: Kotak Institutional Equities., ICICI Securities, Jefferies

2008 to 2020, the nominal GDP growth was 13% CAGR while PAT growth was 6% CAGR.

 Over FY15-21, actual earnings consistently fell short of estimates. This trend has now reversed and earnings estimates are now witnessing upgrades.

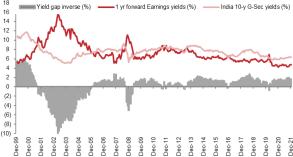
Equity Markets - Positive outlook but time to moderate expectations



 Markets have played the catchup with post-covid normalization and are trading at above average multiplies. Yield Gap (Earnings yield – Bond yield) is, however, in line with the past due to fall in bond yields.



DII Flows in \$ bn				
CY19	CY20	CY21		
6.0	-4.8	8.4		





 Flows into equity markets through Mutual Funds and direct investments have sharply improved, but so has the supply of equities.



Improved economic and profit growth outlook is positive for markets but it is prudent to moderate return expectations

Source: Kotak Institutional Equities., NSDL, CDSL

Active Management – A case of Recency Bias ?



- NIFTY has generated positive returns in 17 of last 20 years
- In 6 of these 17 years, top 5 stocks contributed to more than 70% of the returns (i.e. rally was narrow).
 - In 5 of these 6 years, active funds generated <1% alpha
 - Of the remaining 11 years (i.e. when rally was broad based), diversified mutual funds have generated more than 1% alpha in 9 years
- CY18-20 were 3 consecutive years of narrow market rally and probably impacted alpha generation.
- Has this created a Recency bias in the minds of few?

СҮ	NIFTY50 Returns (%)	Top 5 contributors (%)	Average Alpha of Diversified Mutual Schemes^
2002	5.3	137.7^	15.0
2003	76.6	34.9	35.9
2004	13.0	65.6	15.4
2005	38.7	48.9	9.8
2006	42.0	45.8	-7.5
2007	56.5	47.7	3.8
2008	-51.2	n.a.	-2.4
2009	77.6	38.1	6.3
2010	19.2	53.5	0.0
2011	-23.9	n.a.	0.2
2012	29.3	49.8	3.3
2013	8.1	102.3	-3.0
2014	32.9	38.8	17.3
2015	-3.0	n.a.	5.4
2016	4.4	72.8	0.5
2017	30.3	48.4	5.5
2018	5.6	152.2	-11.7
2019	13.5	81.3	-5.2
2020	16.1	81.7	0.3
2021	25.6	43.6	9.0
Average	20.8	67.2	4.9

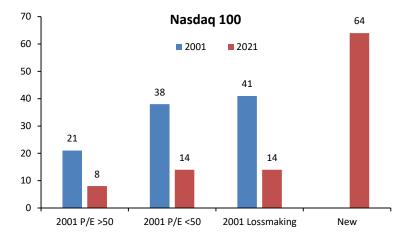
Recency bias is a cognitive bias that favors recent events over historic ones.

Next few years should settle this debate

Source: Bloomberg, MFI Explorer. ^Categories included - Dividend Yield, ELSS, Flexicap, Focused, Large & Mid, Large, Multicap, Value, Contra, NIFTy 50 TRI has been used as benchmark to compute alpha. ^Top 5 contributors data available since Feb 2002

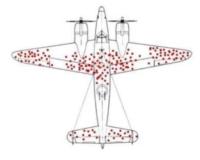
Lessons from the Tech bubble

- Of the companies that were part of Nasdaq 100 in 2001, only 36 have survived and rest have either delisted / merged / wound up
- Interestingly, there were 41 loss making companies, of which only 14 have survived
 - Of these 14 companies, only 3 companies Amazon (~33%), Intuit (~15%) and Apple (11%) have delivered CAGR of more than 10%
- Of the 59 profit making companies, 21 companies that were trading at a P/E of > 50, only 8 have survived and none have delivered CAGR of more than 10%



Source: Bloomberg, Internal Calculations. Methodology - we have considered Net Income for Nasdaq companies as on 31st Dec, 01 and identified loss making companies. For calculation of P/E as on 31st Dec, 2001 as provided by Bloomberg, of the profit making companies was considered. CAGR data is from 31 Dec 2001 to 31 Dec 2021.

Survivorship bias



Source: www.workcompwire.com

This is a picture tracking bullet holes on Allied planes that encountered Nazi antiaircraft fire in WW2. At first, the military wanted to reinforce those areas because obviously that's where the ground crews observed the most damage on returning planes.

Until Hungarian-born mathematician Abraham Wald pointed out that this was the damage on the planes that made it home. The Allies should armor the areas where there are no dots at all because those are the places where the planes won't survive when hit. This phenomenon is called survivorship (selection) bias, a logic error where you focus on things that survived when you should really be looking at things that didn't."

It would be interesting to observe how the recently listed companies fare after 10 years

Stock names referred above are for illustration purpose only. HDFC MF Schemes may or may not have position in these stocks presently or in future. This is not a research report. This is not a view on future prospects of these companies.



Equity Markets Summary



- Robust economic outlook driven by multiple factors (*refer slide 41*). Optimistic outlook on corporate earnings with broad based upgrades seen over the past few quarters (*refer slide 55*)
- Corporate NPA cycle is largely behind, adequate provisioning and strong capital adequacy of banks
- Benign Interest rates and good liquidity both domestically and globally.
- Healthy inflows in Mutual funds and rapid increase in retail participation in equity markets on one hand and sharp increase in supply of equities on the other.
- Currently, Indian market capitalization is ~92%[^] of GDP (based on CY 2023 GDP) & NIFTY 50 is trading at 18x[^] FY24E. These are above average multiples. However, Yield Gap (earnings yield bond yield) is in line with the past.
- Sharp rise in interest rates and adverse global events are key risks for markets.
- In view of the above, markets hold promise over the long term but returns expectations should be moderated



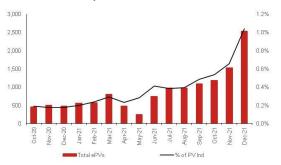
Sector Overview

Sector Overview : Automobile OEMs

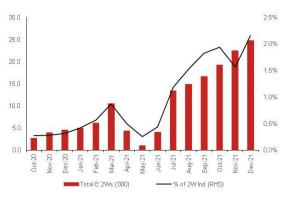


Background / Characteristics	 Auto consists of varied sub-segments like 2W, 4W, CVs, tractors and suppliers to these sub-segment OEMs. Industry is capital intensive with significant barriers to scale-up. Sector is on the cusp of technology disruption with global focus on sustainable mobility with eventual goal of zero tail-pipe emission.
Recent Business performance / developments	 Industry has faced severe production disruption in CY21 with global semiconductor chips shortage and related components due to supply chain disruption and reoccurrence of Covid waves across geographies Although CY21 4W/2W/CV sales volume improved by 36%/8%/54% on a low base or CY20 (Covid lockdown), 2W/CV is still 23%/27% down from CY19 Tractor which was growing sharply in 2020 is witnessing demand compression now as cyclical pent-up demand got over despite favourable demand variables like good crop yield and remunerative prices
What's changing ?	 Major push towards EV by both central and various state governments in India through aggressive demand support incentives led to steady consumer preference towards EV in 2W/4W segment in 2H'21 Announcement of PLI schemes only for EV manufacturing and advanced battery chemistry along with sharp increase in fuel prices is a clear indication of the government thinking UV share in PV volumes continues to rise and reached ~47% in 2021
Prospects / Key Drivers / Risks	 Global shift towards EV is playing out in India too with 2W/3W/PV likely to see rapid shift towards EV in the next 1-3yrs once supply is able to fulfil demand Aggressive start-ups in E-2W and new multiple players in 3W/4Ws space might result in churns market shares over medium to long term Infrastructure push to support economy augurs well for MHCV segment and the segment could witness steepest growth in 2022
Valuation	 Sharp valuation divergence between EV focused players and perceived laggards in both OEMs and ancillary space except CV/tractor segments where disruption is no yet visible Sector valuation is still above +1 standard deviation despite recent correction

EV 4W sales and penetration



EV 2W sales and penetration



Sector Valuation



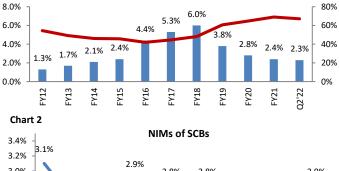
Sources - SIAM, Vahan, Kotak Institutional Equities

2W – 2 Wheelers; 3W – 3 wheelers 4W – 4 wheelers; CV – Commercial Vehicle: PV – Passenger vehicles; UV – Utility vehicles; BS – Bharat Stage emission standards; OEM – Original Equipment Manufacturer: NEVs – New Energy Vehicle; MHCV – Medium and Heavy Commercial Vehicles, E-2W – Electric 2 wheelers

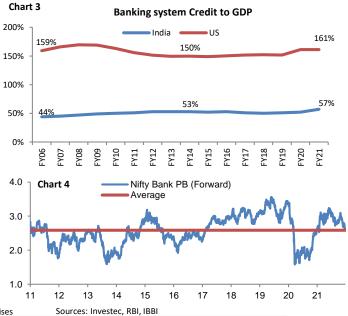
NIM – Net interest margin; SCBs – Scheduled commercial banks, PFCE – Private Final Consumption Expenditure, MSME- Micro, Small and Medium enterprises

		Chart 1
	 Over the last decade, regulatory capital requirement has increased from 4.5% to 9.0% (Banking system Tier 1 at 14.2%) 	8.0% 6.0%
Background / Characteristics	 Liability franchise, asset quality, operating costs & technology are key drivers for profitability 	4.0% - 2.0% -
	Asset quality is cyclical & industry growth is linked to GDP growth	0.0%
	Banks NIMs over cycles have largely moved within a range (Chart 2)	<u>Charl</u>
Recent Business performance / developments	 Corporate NPA cycle is largely behind and Banks are entering the cycle with strong balance sheet – High capital adequacy, lower Credit to Deposit ratio 72%, robust floating provision and declining net NPA (Chart 1). Banks technology platform & cost structure are key differentiators 	Chart 3.4% - 3.2% - 3.0% - 2.8% - 2.6% - 2.4% -
What's changing ?	 Credit growth to improve in FY23 on the back of economic recovery Sector is consolidating with larger bank gaining market share Digitization of processes and payments is the new theme and is driving a paradigm shift in Retail & MSME underwriting and collections Digital payments as a % of PFCE increased from 4.5% to 22% over the last 7 years Entry of Big Tech companies into payment space could disrupt incumbents 	2.2% - Chart 200% - 150% - 100% -
Prospects / Key Drivers	 India's Banking credit to GDP at 57% (Chart 3) is low compared to developed markets such as US at 161% Retail credit growth has been high, however the experience during Covid for major banks has been stable Several new listings of Fintech has increased the investment universe for BFSI 	50% - 0% -
Valuation / Risks	 Sector valuations are largely in line with long term average Outcome on restructured advances under COVID, need to be monitored 	3.0 - 2.0 - 1.0 -



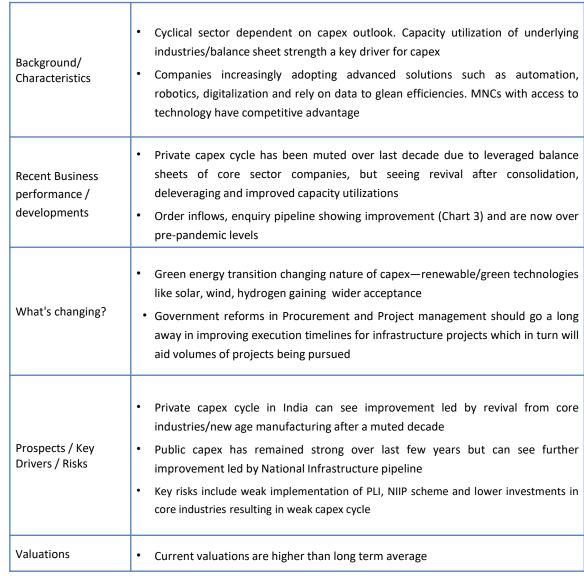




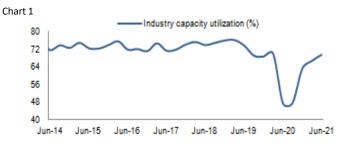


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Sector Overview : Capital Goods

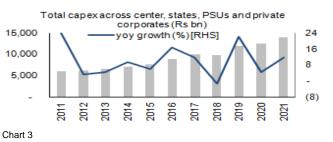


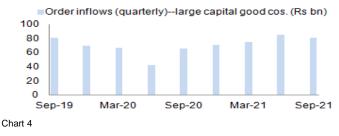
Sources: RBI, Bloomberg, BSE-500 companies, Universe – Companies have been selected based on latest market cap NIIP: National Infrastructure Investment Pipeline



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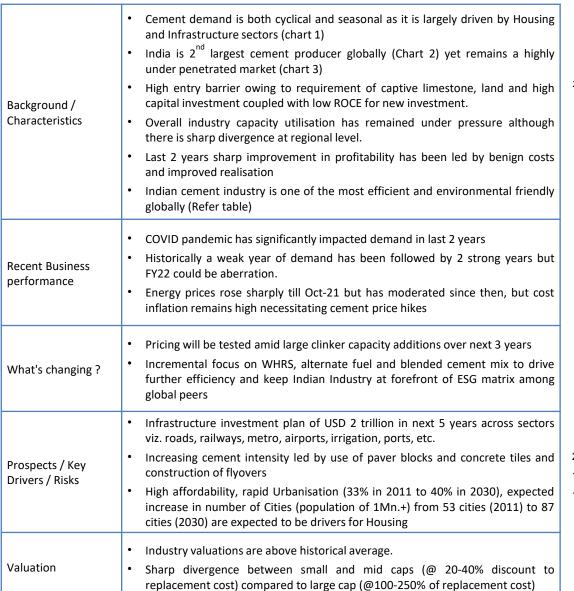


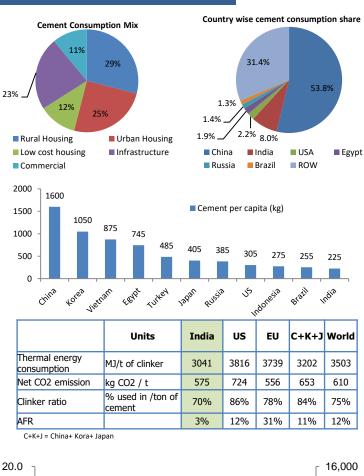


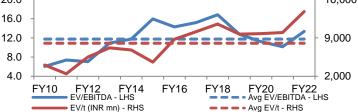




Sector Overview : Cement







Sources – DIPP, IEA, GNR reporting, Investec research, Company presentations, WJRS – Waste Heat Recvoey System, Data for CY2020

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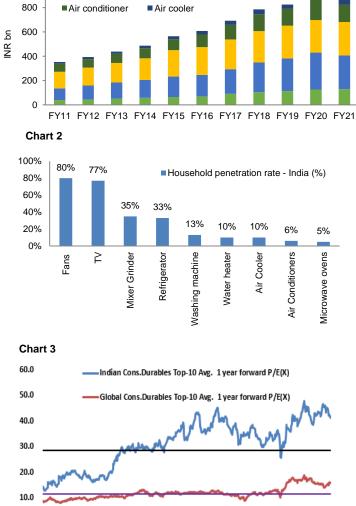


Television

Sector Overview : Consumer Durables

		Una				
Background/	India is one of largest growing consumer durables market globally. This	1000 -				
	sector constitutes of (a) consumer electronics such as television, PCs,	800				
	cameras, audio systems, (b) consumer appliances such as ACs, refrigerators,	<u>동</u> 600				
	washing machines, fans, microwaves, etc.	ਕ				
	 Indian households have low penetration of durables versus other 	- 400				
Characteristics	developed/developing nations and offers large growth potential	200				
		0				
	MNCs with superior technology and focused R&D have captured large	Cha				
	market share in most segments. However, an Indian company is a market					
	leader in the Air conditioner category.	100% 80%				
	Organized companies are gaining market share at the expense of	60%				
Recent Business	unorganized companies who are facing supply chain issues	40%				
performance / developments	E-commerce sales seeing strong growth trends	20%				
	 Impact of commodity inflation on margins is a near-term headwind ; 	0%				
	companies are trying to minimize impact of higher ASPs on growth					
	Government policy support to increase manufacturing / value addition in					
What's changing?	India through Production Linked Incentive schemes, etc					
	india anough i rodaction Enkeu incentive selemes, etc	Char 60.0				
	Strong demand growth led by rising disposable incomes, easy consumer					
Prospects / Key Drivers / Risks		50.0				
	credit, growing working population and urbanization	40.0				
	• Key risks include slowdown in the economy, weakness in job and real estate	30.0				
	market, tighter consumer credit by banks / NBFC	20.0				
Valuations	 Current valuations are significantly higher than 10 year average 					
		10.0				

Sources: Bloomberg, Emkay Research, Statista, ASP – Average Selling Price, Chart 1 & 2 Data is for CY 2020



■Washing Machine ■ Refrigerator

Chart 1

Dec-11 Dec-12 Dec-13 Dec-14 Dec-15 Dec-16 Dec-17 Dec-18 Dec-19 Dec-20 Dec-21

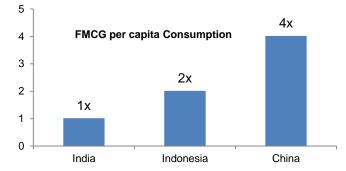


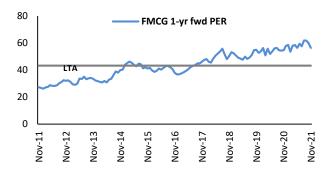
Sector Overview : Consumer Staples (FMCG)

Background / Characteristics	 Products are goods of daily consumption. Relatively stable, predictable and profitable businesses. Less capital intensive and high return ratios. Barriers to entry are low, but barrier to succeed are high due to presence of established brands. Dominant market shares of leaders in many categories.
Recent Business performance / developments	 Sharp rise in input cost inflation has led to lower profitability in the sector led by lower gross margin. Revenue growth has remained stable and in-line with estimates. Companies taking significant price increases to counter inflation.
What's changing?	 Margin experiencing pressure from all time high levels due to high input cost inflation. Market shares are consolidating with leading players gaining market share from unorganized segment in the last few years. Distribution landscape is changing with online channel contributing much higher and increasing direct to consumer products.
Prospects / Key Drivers / Risks	 FMCG per capita consumption in India is much below Asian peers. Also, premiumization opportunities remain high. High penetration in large categories can lead to lower volume growth Rising share of private label brands of modern trade and online channel (D2C players) are key monitorables.
Valuation	 Current valuations are at all time high levels for the sector and significantly above historical averages

FMCG Categories- High Penetration in large categories

Categories	Total Penetration levels			
Hair Oil	92%			
Household Insecticides	51%			
Hair Color	44%			
Toothpaste	97%			
Utensil Cleaners	52%			
Toilet Cleaners	31%			
Shampoos	62%			
Soaps	98%			
Biscuits	90%			
Detergent - washing powder	92%			





Sources: Bloomberg, Company presentations, Industry Sources, Data is for CY2020, PER – Price to Earnings Ratio

Sector Overview : Defence

Background / Characteristics	 Defence capital outlay witnessing sharp increase as Gol focuses on upgrading capabilities due to geo-political issues (Chart 1) India traditionally had large import dependence India maintained strong focus on R&D to develop indigenous capabilities led by Government institutions like DRDO, ADA, etc. Industry largely led by Defence PSUs
Recent Business performance / developments	 Domestic capability building yielding results led by development of advanced platforms such as Light Combat Aircraft, Missiles, etc Defence companies seeing strong growth in order book—large companies reported 23% order book increase in 3 years (Chart 3)
What's changing ?	 Initiatives to develop ecosystem—offset agreements, technological partnerships, negative import list (209 items). Government has set defence production target at USD 25 bn by 2025 (including exports) from USD 10-12 bn currently Strong capability build-up in last few years—India is now on path to develop 5th generation Advanced Medium Combat Aircraft, Indian Multi Role Helicopter, etc
Prospects / Key Drivers / Risks	 Defence capex is expected to grow led by need for capability building and aided by improvement in tax collection by Government Import substitution is likely to aid increase in domestic manufacturing as more platforms are developed, procured within country
Valuation	• Valuations are closer to long term average and lower than global peers (Chart 4)

Chart 1

India-defence capital outlay budget (Rs bn)

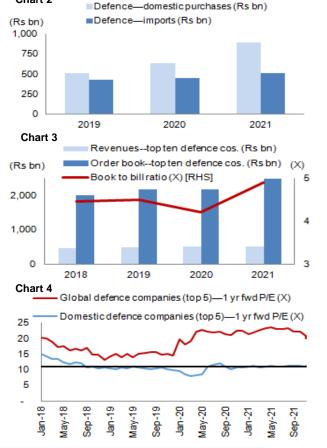
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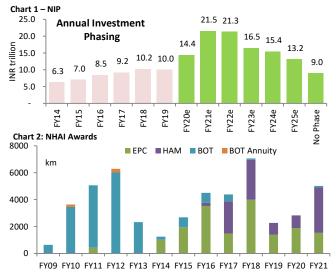
Sources: Bloomberg, Budget documents, Lok sabha questions, Companies



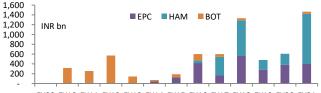
Sector Overview : Infrastructure & Construction

	• Comprises of Asset owners and construction companies of roads, railways, metro, airports, irrigation, ports, affordable housing etc						
	High capital intensity for both owners (asset funding) and contractors (worki capital requirement)						
Background /	Low entry barrier leading to large number of small scale players						
Characteristics	• Execution, working capital control and strong balance sheet are key to success as many companies failed due to lack of these attributes						
	High dependence on Government awarding.						
	• Rising urbanisation and vertical development leading to orders from private sector in real estate space						
	 Strong awarding by NHAI for road projects and large project awarding for High Speed projects leading to improvement in book to bill for most players. 						
Recent Business	NHAI pipeline for next 3 years remains strong						
performance	Margins under pressure due to rising raw material prices						
	NHAI relaxed the eligibility criterion for bidding during pandemic resulting in very high competitive intensity for new projects						
	• NIP, Gati Shakti program and NMP are comprehensive schemes to drive growth.						
	NHAI target to achieve INR 2 trillion of private investment by FY24						
What's changing ?	Low global interest rate environment leading to rise interest by foreign players in yield generating assets through acquisitions, InvITs etc						
	• Monetisation of assets by developers leading to value unlocking, availability of growth capital and improvement in return ratios.						
	Gol has approved first river linking project. Total 30 are planned.						
Prospects / Key Drivers / Risks	 Companies with strong balance sheets have advantage as mix of HAM and BOT projects award are rising. 						
	InvITs especially of HAM projects could be attractive monetisation strategy						
	River linking and irrigation could become another big opportunity						
Valuation	 On overall basis, based on 1Y forward PE sector valuation are closer to historical average 						
EPC – Engineering Procurem	ent and Construction: HAM – Hybrid Annuity model: BOT – Build Operate Transfer: Infrastructure Investment Trust. NIIP						

- National Infrastructure Investment Pipeline







FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21



Sources – World Bank, NHAI, Ministry of Finance, Philips capital, Universe is represented by the PE of all the construction stocks (10) under Phillip Capital coverage including conglomerates

Sector Overview : Indian IT Services



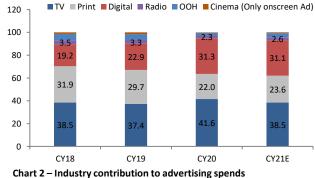
		Chart 1
Background / Characteristics	 Globally, IT Services is a fragmented industry with consulting firms, niche providers and offshore players. Top-10 companies have ~25% market share 	10.0% World IT services spending growth (% YoY)
	 Labor arbitrage and availability of skilled talent have historically provided an edge to India / offshore players – Y2K and pandemic provided impetus to offshoring 	5.0%
	 Expansion in offerings, verticals & geographies helps drive growth – India IT-BPM exports market share still reasonably low at 14% (Chart 2) 	0.0%
	• Revenue growth has recovered sharply since H2 2020, post the pandemic induced weakness in H1. Top tier Indian IT firms have guided for double digit growth in FY22 aided by low FY21	2003 2005 2001 2009 2012 2013 2015 2017 2019 2014 2024 2024
Recent Business	base and strong demand environment	Chart 2 ^{20%}] Indian IT-BPM exports as % of
performance / developments	• Spending in short-term projects has seen an acceleration, aiding better growth for mid-tier firms. Revenue growth has outpaced growth in deal wins in recent quarters.	Global IT Services spending 14%
	 Operating margins improved in FY21 (chart 3) aided by higher offshoring, lower travel and 	10% -
	facility expenses, and deferral of wage hikes.	0%
	 Covid has accelerated the business case for digital investments by enterprises – Gartner forecasts IT Services spending to grow at ~8.5% YoY during 2021-25 (chart 1) vs 2010-20 	FY03 FY03 FY03 FY03 FY13 FY13 FY15 FY15 FY19 FY19
	average of ~4% YoY	26.0% Aggregate EBIT Margin of Top 4 Indian IT
What's changing ?	 Strong demand pickup has also led to an increase in demand for talent. Top 5 Indian IT Services firms added over 200k employees (up 17%) since Oct'20. 	24.0% - companies (%)
	 Remote working has improved customer comfort on offshoring. 	22.0% -
	• Cloud is seeing strong traction – Cloud shifts capex to opex as well as helps reduce the Total Cost of Ownership (TCO) of managing the underlying Infrastructure for clients.	20.0% -
	 Robust demand for technology services, Indian IT firms' digital investments in recent years, 	18.0% FY17 FY18 FY19 FY20 FY21
Prospects / Key Drivers / Risks	both organically and through M&A, and higher customer comfort on offshoring have led to	Chart 4
	increased confidence on near-term (3-4 quarters) revenue outlook.	35.0 30.0
	 The spike in demand for talent pose downside risks to fulfillment/revenues and profitability due to higher wage costs. 	25.0 - Current 20.0 - 10-yr avg
	 Reversal in travel and facility expenses, and appreciation of INR against USD are others key risks to profitability. 	15.0 - 10.0 - 5.0 -
Valuation	• Valuation multiples have seen sharp re-rating reflecting high growth, improvement in profitability and better demand visibility (Chart 4)	0.0 11 12 13 14 15 16 17 18 19 20 21
L		Sources: NASSCOM, Bloomberg, Kotak Institutional equities

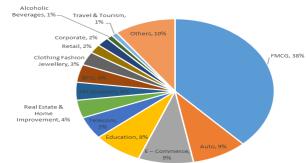
Sector : Media



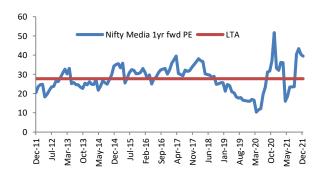
Background /	Discretionary spending for businesses; levered to economic growth.					
	 FMCG biggest advertiser with digital commerce contribution expected to go up exponentially. 					
Characteristics	Like developed markets, advertising is shifting from print to digital					
	 Relative price proposition of TV is still superior to OTT apps. India's OTT market remain fragmented with over 60 OTT apps. 					
Recent Business	 Impact of second wave of the pandemic on advertising revenue was much lower than the first wave. Advertising revenue in 2H22 is likely to be higher than pre-pandemic levels. 					
performance / developments	• TV advertisement revenue continues to show resilience despite threat from digital with CY21 revenue expected at 95% of pre COVID levels.					
	Digital subscription growth remain strong with the pandemic accelerating shift to digita media.					
	 Digital advertising is expected to overtake TV advertising and is likely to account for highest share in advertising revenues in the next 1-2 years. 					
What's changing ?	 Video advertising remains the fastest growing segment within digital; Video and social media account for ~60% of the digital advertisement spends and is likely to remain dominant. 					
	 Rapid increase in paid digital subscribers in India that are expected to touch 40 mn in CY21 from 30 mn in CY20 					
5 / .:	 Digital shift should continue at high pace but TV advertisement revenue is expected to continue to grow (mid to high single digit) in the medium term. 					
Prospects / Key Drivers/ Key Risks	Higher content cost (fragmented industry) may put pressure on margin.					
	 NTO 2.0 implementation is likely to impact subscription revenues negatively a customers move to selective viewing. 					
Valuation	 Consolidation in the industry and higher mobility has led valuation re-rating in the last a months. 					

Chart 1 – Industry Ad Mix









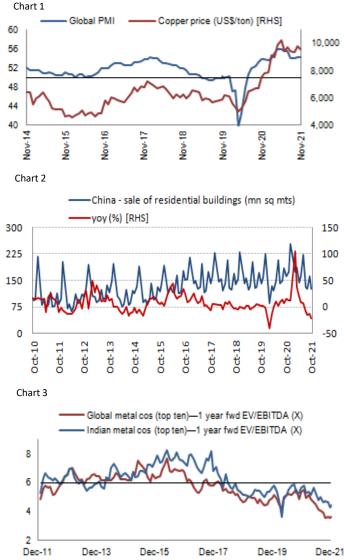
Sources- KPMG, Pitch Madison, Bloomberg

ARPU – Average Revenue per unit; NTO – New Tariff Order, OTT – Over the Top



Sector Overview : Metals and Mining

Background / Characteristics	 Products are homogenous with little differentiation. Cyclical sector dependent on global prices China is dominant producer/consumer and has been key influence in globa demand-supply, price determination Cost efficiencies and good balance-sheet are key to growth
Recent Business performance / developments	 Decadal high metal prices led by supply-side disruptions and strong demand from re-opening of economies and stimulus. Certain temporary supply side issues are easing as economies re-open High metal prices over last year aided earnings and led to sharp reduction in debt Companies have announced large capex pipeline
What's changing ?	 After strong year of demand led by infrastructure/real-estate pick up in China/other geographies, China real-estate has weakened due to Government policies to curb speculation, control financial risks (Chart 2) De-carbonization in the metals sector gaining strong foothold with Government policies aimed at controlling emissions, especially in China China looking to export less of carbon intensive metals Rise in carbon credit cost and disruption in EU natural gas market are supporting prices
Prospects / Key Drivers / Risks	 Government's push for Make in India, National Infrastructure Investment Pipeline, etc. can drive strong demand for metals in India Key global demand drivers include (a) transition to Green Energy and investment in related technologies, (b) US Infrastructure Bill Key risk is weakening of metal prices
Valuations MI – Purchasing Mangers' Inde	Sector valuations lower than average on elevated earnings; on EV/ton basis valuations are higher than historical average (Chart 3)



Sources: Bloomberg, Universe - Top 10 companies by market cap

PMI – Purchasing Mangers' Index

Sector Overview : Oil & Gas

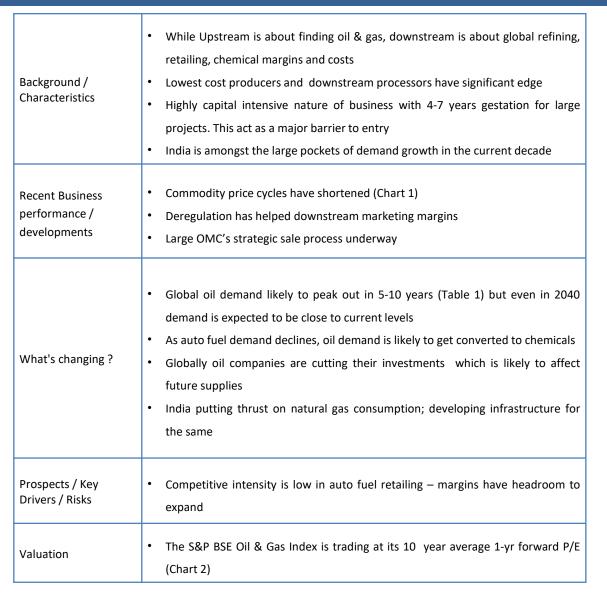
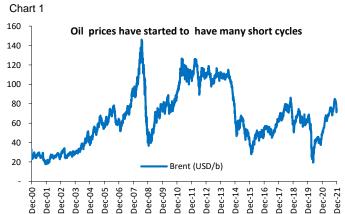
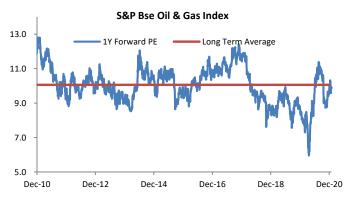


Table 1	Oil demand by various sources (mbpd)									
	2000	2005	2010	2015	2019	2021	2025	2030	2035	2040
IEA (STEPS)	76	84	87	93	98	96	103	104	104	104
IEA (APS)	76	84	87	93	98	96	103	96	na	88
OPEC	76	84	87	93	98	96	104	107	110	111
BP (BAU)	76	84	87	93	98	na	98	98	97	94
Total SA	76	84	87	93	98	na	103	103	100	95
Exxon	76	84	87	93	98	na	102	104	105	93

STEPS = Stated Policies Scenario , APS = Announced Pledges Scenario, BAU = Business as Usual





Sources - British Petroleum, IEA, Total, OPEC, Bloomberg

OMC - Oil Marketing Companies

Refer disclaimers on slide 85



Source: Bloomberg, Company Presentations; CDMO- Contract Development and Manufacturing Organization; API – Active Pharmaceutical Ingredient

Sector Overview : Pharmaceuticals

Background / Characteristics	 Indian pharma entails limited capital need, but considerable marketing spend US generics is the key export market with Indian companies holding 45% volume share Markets like US are highly regulated, have long gestation with upfront investments in manufacturing & development Biosimilars is an evolving area, but complex approval pathway and branded nature of commercialization is inhibiting scale-up
Recent Business performance / developments	 Indian domestic market growth is above trend in FY22 due to low base effect in acute and elective surgeries coming back US generics pricing erosion is back to 7-8% levels on YoY basis in FY22 owing to ongoing de-stocking API players are witnessing sharp margin squeeze due to commodity inflation and weak formulations demand Costs, especially domestic field force related selling expenses are coming back, though are still lower as percentage of sales vs pre-Covid times
What's changing ?	 Companies are de-risking their business models by leveraging US R&D capabilities in other markets like Europe/China US pricing pressure is expected to abate in FY23, as re stocking commences Domestic market is expected to revert to trend 9-10% growth FY23 onwards CDMO is emerging as a key high ROCE growth driver, aided by China+1 factor Yet to be seen whether interchangeable biosimilars improve economics
Prospects / Key Drivers / Risks	 Commercialization of complex generics and certain products losing exclusivities is expected to result in a robust 2-3 year US outlook However, investment opportunities will be selective given companies' specific growth drivers and differing investment cycles
Valuations	• Sector is trading at 28x 1-year forward P/E, higher than historical average

US pricing deflation accelerated in recent months

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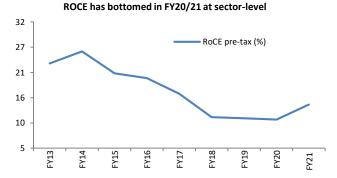
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Sector is trading at a premium to 10-year average

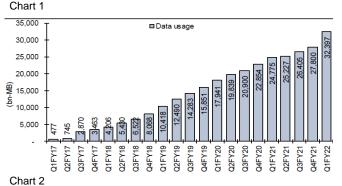


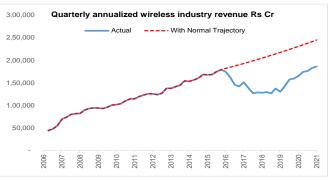
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Sector Overview : Telecom



Background / Characteristics	 Wireless communication has transformed daily life; India has cheapest wireless data pricing in the world (Rs5-7/GB) Predictable and profitable business if market shares settle Capital intensive with high entry barriers Indian market is an oligopoly with three major players
Recent Business performance / developments	 After pause of two years, industry took 20% price hike; ARPUs are moving higher Government allowed industry to defer their AGR/spectrum dues by 4 years with equity conversion option ensuring 3 player industry Spectrum prices are declining. For future auctions, governments increased spectrum life to 30 years (from 20 years) and nil usage charges
What's changing ?	 Smartphone penetration is increasing steadily Data consumption post Covid-19 has increased by ~45% Work from Home and acceleration of adoption of digital application in areas like education, healthcare, financial services to support 4G penetration
Prospects / Key Drivers / Risks	 Industry revenues are still below normalized levels, leaving room for substantial growth in medium term Operators are in early stage of preparing for 5G rollout which is likely to begin in 2022/23 onwards
Valuation	 Sector is at EV/EBITDA on 7-8x FY24e estimates which is broadly in line with its historical average





105417 205417 305417 105418 105418 105418 305419 105419 205419 205419 105420 105720

Sources: Company reports, Internal estimates, ICICI Sec research reports AGR - Adjusted Gross Revenue; ARPU – Average Revenue per user





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40FY14 10FY15 20FY15 30FY15 20FY20 30FY20 40FY20 10FY21 20FY21 30FY21 40FY21 10FY22

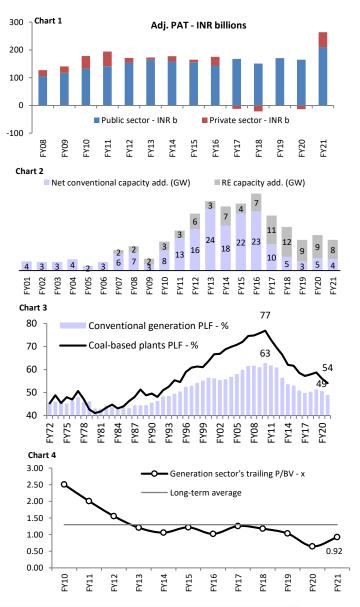
Sector Overview : Utilities



Background / Characteristics	 The utilities sector primarily operates on a cost-plus regulated return model. Earnings are fairly steady and predictable. Renewable assets are on competitive bidding model. The sector is highly capital intensive. Capitalization and capex are the key drivers of earnings Execution and ability to source debt at lower cost are key
Recent Business	 Earnings have been under pressure due to over-supply of power and weak health of state electricity boards, although environment has improved from bottom (Chart 1) PSUs have performed better than private sector
performance / developments	• Electricity demand was weak in FY21 impacted due to Covid-19. Demand improved in FY22, however has not been consistent.
	Higher demand and lack of new capacity addition is reflecting in higher short- term power prices.
	• New generation capacity addition has moderated while demand is expected to grow (Chart 2). PLF of coal-based plants is, thus, likely to bottom out (Chart 3)
What's changing ?	• Government is focusing on 24x7 power and Power for All. There is increasing focus on renewable energy generation.
	Reforms are being proposed to improve the financial health of distribution companies
Prospects / Key Drivers / Risks	 India's per capita electricity consumption is just 1/3rd of global average. As economic activity improves, income level increases demand is likely to grow. Long-term electricity demand to GDP is ~0.9x.
DIVERS / Maks	• Key drivers: Increase in share of manufacturing in GDP, industrial activity, sale of household appliances, EV's.
Valuation	Current valuation metrics are low compared to past (Chart 4) as well as global peers

Source: MOFSL, Note: Universe is listed power generating companies as per MOFSL.

PLF – Plant Load Factors; Conventional generation incl. coal, gas, nuclear and hydro, RE – Renewable Energy, GW - Gigawatt



Warrior Queens: Rani Ahilyabai Holkar, Madhya Pradesh





Above is a picture of her "Samadhi" in Maheshwar, Madhya Pradesh

Pictures courtesy: esamskriti.com, which is a treasure-house of all things Indic and contains Over 2,000 articles and 17,000 pictures.

- Ahilyabai Holkar, also known as the Philosopher Queen, was the hereditary noble Queen of the Maratha Empire, India.
- Post the death of her husband Khanderao Holkar and father-in-law Malhar Rao, she assumed charge in December 1767.
- She dedicated the state to Lord Shiva declaring that she will manage the affairs of the state for the benefit of the people on the behalf of Lord Shiva, herself remaining only a custodian. She made Maheshwar the capital of the Holkar State.
- To her credit during her 30 years of her reign, Malwa remained stable and peaceful and the Holkar dominions remained undiminished.
- Ahilyabai was a great pioneer and builder of Hindu temples. Her greatest achievement was to rebuild the Kashi Vishwanath Temple in 1776.
- She also undertook the task of building & renovating sarais, shelters, temples, dharamshalas all over the country
- Paramhansa Yogananda, author of Autobiography of a Yogi, described Ahilyabai "as the greatest woman of modern India."

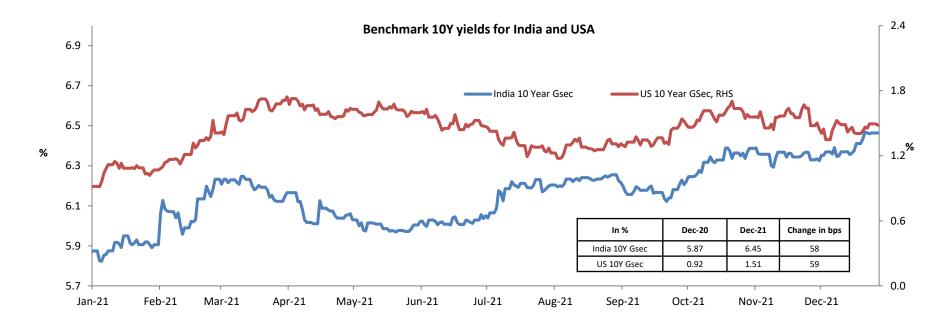
Source: Publicly available information



Fixed Income Markets

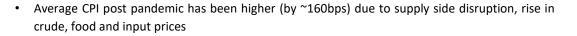
2021 - Inflation surprise takes yields higher ; Inflation "transitory" no more ?





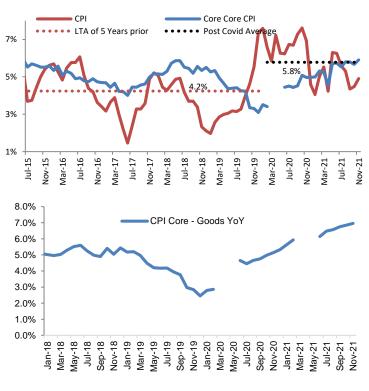
	Jan-Mar 2021	Apr-Jun 2021		July-Sept 2021		Oct- Dec 2021
•	Expectation of rapid recovery in global growth driven by steady pick up of vaccine rollout in advanced economies	rising US inflation, global yields largely stable	•	Fear of slower global growth due to potential default by China's Property Giant Evergrande	•	US Inflation hits 31 year high; Fed announces faster than anticipated taper schedule for bond purchases.
• •	Stimulus of USD 1.9 trillion announced by the US, further fuels expectation of higher growth Indian benchmark yields tracked the rise in global yields based on expectation of higher growth and inflation	 of slowdown of growth RBI announced further measures to support the economy (G-SAP, Special liquidity facility, On-Tap TLTRO etc), which kept the yields 	•	Rapid recovery post 2nd wave and reduction in restrictions lead to improved expectations of growth for India	•	Rising concerns over inflation due to stronger than expected growth, supply chain disruption and higher energy prices along with expectations of accelerated tapering

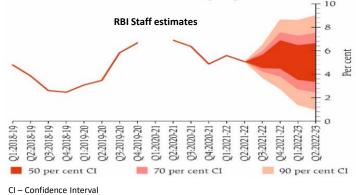
India Inflation Outlook



- Core Core CPI also trending higher due to widening of retail margins, delay in supply chain recovery, etc.
- Measures taken to address supply side bottlenecks and ease inflationary pressures
 - Reduced duties on auto fuel, edible oils, import of pulses, etc.
 - Increased budget for fertilizer subsidy to reduce the impact of rise in global fertilizer prices on domestic food inflation
- YoY rise in Core CPI Goods (Weight in CPI: ~22%) is primarily driven by rise in commodities and input prices. This should moderate over time due to base effect and any correction in commodity prices

- RBI expects average inflation to trend lower in H2FY23 driven by moderation in commodity prices, normalization of monetary policy and growth
- Strong demand, weak monsoon, elevated commodity and energy prices, supply chain bottlenecks, etc. pose upside risks to inflation





Source: CMIE, RBI; Core Core CPI = CPI ex Food, Fuel & Light, Petrol & Diesel, Gold, Silver, Housing



Fiscal Outlook Positive; Global bond Index inclusion can ease G-sec demand pressure

- Despite additional spending on Covid-19 measures and possible shortfall in divestment target, fiscal deficit is likely to remain within budgeted estimates due to strong revenue growth
 - Additional borrowings (INR 1.56 trillion) for shortfall in compensation cess was also subsumed within budgeted market borrowings, thus easing supply pressure in FY22
- Fiscal consolidation is likely to continue in FY23 and beyond
- RBI has been regularly conducting OMOs to support Government borrowing program. However, ample surplus liquidity and elevated inflation will limit RBI's ability to inject additional liquidity
 - During FY19-FY22E, average annual OMOs conducted by RBI amount to ~20% of annual net aggregate market borrowings (~USD 30-35 bn) of Centre and States

Gsec demand has been dependent on Banks in the past; with Banks SLR holding significantly above regulatory requirement, any significant pickup in credit can result in demand supply mismatch

- Lack of RBI OMO purchases in FY23 and reduced appetite from Banks could be set off, to a large extent, by foreign inflows, if Indian sovereign bonds are included in global benchmark bond indices
 - One-off flow is expected to the tune of USD 30-40 bn (~1.4% of GDP) and regular inflow is likely to be ~USD 18 bn (0.6% of GDP)



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Fiscal deficit glide path

Centre State

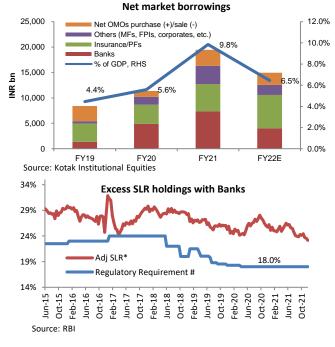
12.0

10.0

8.0 6.0

4.0

2.0



	JP Morgan Global Bond Index -EM	Bloomberg Global Aggregate Index	
Expected weight	~9.2%	~0.5%	
One off flows (USD bn)	28	10-13	
Annual inflows (USD bn)	18.5		

Source: Morgan Stanley

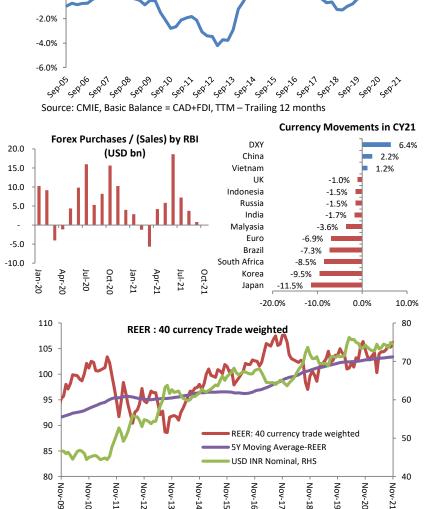
Source: Kotak Institutional Equities, 15th Finance commission report

INR – Rangebound Outlook

- Outlook on External sector remains comfortable with basic balance (CAD+FDI) well above the long term average
- 4.0% TTM Basic Balance (as % of GDP) 2.0% 0.0% -2.0% -4.0% -6.0% SEPOS sep.01 Sep.06 Sep.16 Sep.15 sepill sepite Leo e Caricerice in a construction

- INR has outperformed many EM currencies in CY21
 - RBI intervened aggressively in the forex market to stem any significant _ appreciation of INR against USD

- Outlook on INR remains comfortable as
 - BoP is expected to remain in reasonable surplus, supported by positive outlook on capital flows and moderate current account deficit
 - Adequate forex reserve to mitigate significant volatility in INR
 - REER is closer to 5 year moving average
- Spike in energy prices and fall in capital flows are key risks





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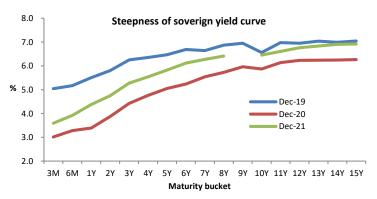
Yield Curve Outlook : Gradual flattening expected in 2022

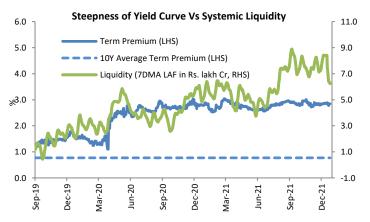


- Post pandemic, RBI aggressively reduced policy rates and consistently intervened in debt markets (through OMOs, G-SAP, Operation TWIST, etc.) leading to a downward shift in yield curve in CY20
 - Short end fell more than the long end due to sharp cut in rates and significant surplus liquidity
- The Yield curve shifted upward driven by improving growth outlook, lower intervention by RBI and introduction of longer tenure Variable Rate Reverse Repo towards the end of 2021

- Term premium, however, is higher than historical average
- In view of the above and the likely gradual policy normalization, we expect the elevated term premium to reduce mainly through increase in short term yields







OMOs – Open Market Operations, G-SAP – Government Securities Acquisition Program; Term premium = 10Y Gsec yield –3M Tbill yield Source: Bloomberg, CMIE, RBI

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Interest Rate Outlook - Summary



Factors supporting lower yields

- Fiscal consolidation likely, although at gradual pace, as the growth normalizes
- Prospects of inclusion of Gsec in global bond indices high and could provide a stable source of demand for Gsec in FY23 & beyond
- Global growth is expected to peak out in 2021 and likely to normalize going forward
- RBI expected to remain supportive of growth and can intermittently intervene to ensure "orderly evolution" of yield curve
- Risk of large Covid-19 wave poses risk to growth

Factors opposing lower yields

- Upside surprise in Inflation in AEs and elevated global commodity prices could accelerate the pace of normalization of monetary policies
- India's average CPI and Core CPI are likely to remain above RBI midpoint of target inflation range
- Substantial improvement in domestic recovery momentum
- RBI can expedite the pace of liquidity withdrawal and policy normalization if either growth or inflation surprises on the upside
- SLR holdings of banks, especially PSUs remains at elevated levels, thus reducing the incremental demand

Short end yields have bottomed out, Global yields and Inflation are key to long end yields

Warrior Queens: Rani Abakka, Karnataka





Pictures courtesy: Prof Thukaram Poojary, Founder and President, Rani Abbakka Tulu Adhyayana Kendra (1995) and published in https://www.esamskriti.com/e/History/Great-Indian-Leaders/RANI-ABBAKKA-is-the-forgotten-Warrior-Queen-of-Ullal-Karnataka-1.aspx

- Rani Abbakka belonged to Chotwa dynasty and was crowned as the first Tuluva queen of Ullal in Karnataka in 1525
- Since childhood, she displayed extraordinary skills and excelled in archery, sword fighting, military science and warfare.
- In 1526, the Portuguese captured the Mangalore port, making Ullal the next target as it was strategically placed. The Portuguese made several attempts to capture it but Abbakka being the fearless queen, repulsed each of their attacks for over four decades. For her bravery, she came to be known as Abhaya Rani.
- Even though she eventually lost the battle, she sent a strong message to the world by rebelling against foreign invaders and colonialism. She can be, thus, regarded as 'first woman freedom fighter of India.
- It was her spirit and actions that inspired her daughter, Abbakka II, who defeated the Portuguese during her reign
- Her legacy now lives on through memory in Dakshin Karnataka in the form of folk songs, stories and performances of Yakshagana a form of local theatre

Disclaimer



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MUTUAL FUND INVESTMENTS ARE SUBJECT TO MARKET RISKS, READ ALL SCHEME RELATED DOCUMENTS CAREFULLY



This is the fourth edition of yearbook by HDFC Mutual Fund

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While we have taken considerable care in compiling this yearbook, there can be some inadvertent errors, for which we would like to apologize.

We would love to have your feedback on our yearbook. Please send your feedback at <u>yearbook@hdfcfund.com</u>



नव वर्ष की हार्दिक शुभकामनाएँ! कैन्स चठाखत डायाड डायाड राष्ट्र ! ठहें मग्ठ सीआं ठॅभ-ठॅभ हपाष्टीआं! नववर्षत शब्बि बुब्बि श्रा नववर्षत ७७ कामना! नबनर्षन જી (जिक्रा! సూతన సంవత్సర జుభాకాంక్షలు ! نيا سال مُبارك هو HAPPY NEW YEAR نيا سال مُبارك هو HAPPY NEW YEAR والمعادي المعالي معالي معالي معالي المعالي ا معالي معالي معالي معالي المعالي المعالي المعالي معالي المعالي المعالي المعالي المعالي المعالي معالي المعالي المعالي المعالي المعالي المعالي المعالي المعالي المعالي المعالي معالي المعالي المعالي المعالي معالي م معالي HAPPY NEW YEAR নুববর্বে শুভ কামনা ! পুরুর্ধুর হাজীল ଶুଭେଚ୍লা! लवील वर्षाच्या हार्तिक शुभेच्छा! नवनर्षे खण्डण्डा! مو أيا سال نباك هو नवनर्षे खण्डण्डा! مو مال مال مو أيا سال مبارك هو مالكم مالك مو أيا سال مبارك هو مالك مال ا الحراف) کی المجامع المراحية المراحية من محمقة المحرفة محرفة المحرفة المح ਨਵੇਂ ਸਾਲ ਦੀਆਂ ਲੱਖ-ਲੱਖ ਦਪਾਈਆਂ! প্রবর্ষর হার্জিল রুজিল্ল।! নববর্ষে গুভ কামনা! নৱবর্ষৰ শুভোহ্য! HAPPY NEW YEAR نیا سال مُبارک هر ਨਵੇਂ ਸਾਲ ਰੀਆਂ ਲੱਖ ਲੱਖ ਵਧਾਈਆਂ! तया वर्षती श्रुभडाभताओ! नवीन वर्षाच्या हार्दिक शृभेच्छा! नवनम् अप्तमा! ठहें मग्ठ सीआं ठॅभ-ठॅभ हपाष्टीआं! नववर्षत शब्ब बुब्बिश! नववर्षत ७७ कामना! नबतर्यब खाडाहा! كَتَافَى اللَّهُ اللَّ तया यर्धती शुलडामताओ! नवीन वर्षाट्या हार्दिक शुभेट्छा! नबनर्यव खाडाहा



Thank You