India - A Startups Nation

The Theatre of Step-Function Transformation

TV Mohandas Pai

| 3one4 Capital

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India at a glance

Population	1.415 bn	Jan 2023
Population Growth Rate	0.80%	Jan 2023
Life Expectancy: Male	68.71 yrs	Dec 2020
Total Fertility Rate	2.0	Dec 2021
Life Expectancy: Female	71.49 yrs	Dec 2020
Literacy	78%	NFHS-5 (2019-2021)
GDP (at current prices)	US\$ 3,469 bn	ES 2022-2023
Real GDP growth	7%	ES 2022-2023
GDP (in PPP) - 3rd Largest Economy	US\$12,200 bn	2023 Estimates
Per capita Income	US\$ 2,467	2022-23 (SAE)
Exports (goods and services)	US\$ 763 bn	2022-23 (SAE)
Imports (goods and services)	US\$ 916 bn	2022-23 (SAE)
Foreign Exchange Reserves	US\$ 578.8 bn	
Government External Borrowings		(Ministry of Finance) March 2023
External Debt (Govt & Non-Govt)	US\$ 613.3 bn	(Ministry of Finance) March 2023
Interest to Gross Revenue	22%	2023 RE (Budget)
Gross Debt / GDP ratio	82%	2022 (Estimate)



2023 vs 1991

		2023	1991	CAGR
	Population (Bn)	1.415	0.89	1.49%
	Life expectancy (Years)	70.19	58.8	0.55%
Kov	Literacy rate	78%	52%	1.28%
Key				
Economia	GDP Growth Rate	7%	5.3%	0.87%
Economic	GDP (at current prices) – Rs. cr	272 lakhs	5.32 lakhs	13.08%
Indiantara	GDP (at current prices) – US\$ Bn	3,469	275	8.24%
Indicators	Per capita income - US\$	2,467	310	6.70%
	Exports (G+S) - US\$ Bn	763	18	12.42%
	Imports (G+S) - US\$ Bn	916	24	12.05%
	Share in world trade (exports + imports)	3%	1%	3.49%
	Foreign Currency Reserves - US\$ Bn	578.8	5.8	15.47%
30 Years' Snapshot	Exchange Rate (US\$)	82.68	17.9	4.90%
Post-Liberalization				
	Gross savings (% of GDP)	30.2%	21.9%	
	Gross domestic investment (% of GDP)	31.4%	22.5%	
ce: CSO, RBI, Budget documents, World	Bank, Economic Survey 2023			

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India & China at a glance

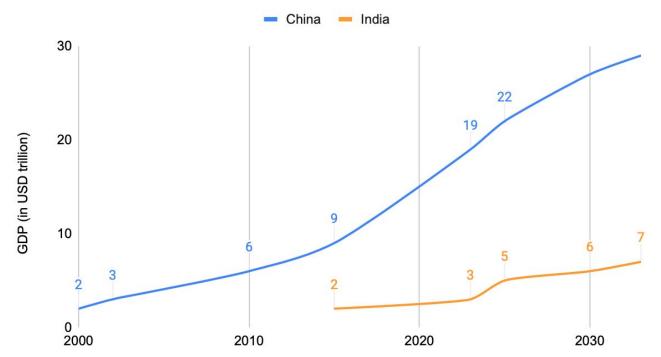
China has grown faster

-	Estimates as of	India	China
Population	2023 (E)	1.415 bn	1,454 bn
Population Growth Rate	2023 (E)	0.80%	0.1%
Life Expectancy: Male	2021 (E)	68.71 yrs	75 yrs
Life Expectancy: Female	2021 (E)	71.49 yrs	80.88 yrs
Literacy	2022 (E)	78%	96.8%
GDP (current)	ES 2022-2023	US\$ 3,469 bn	US \$ 17,734 bn
GDP growth (Real)	2022 (E)	7%	5.2%
GDP (in PPP)	2023 (E)	US \$ 12,200 bn	US \$ 30,074 bn
Per capita Income (current)	2022-23 (SAE)	US \$ 2,467	US \$ 12,970
Exports (Goods & Services)	2022-23 (SAE)	US \$ 763 bn	US \$ 3,828 bn
Imports (Goods & Services)	2022-23 (SAE)	US \$ 916 bn	US \$ 2,720 bn
Foreign Currency Reserves	Jan 2023	US \$ 578.8 bn	US \$3,188 bn
External Debt	Dec 2022	US \$ 613.3 bn	US \$ 2,482 bn
Debt / GDP ratio	2022 (E)	82%	273%



India & China at a glance

India GDP Projection— India is where China was in 2002



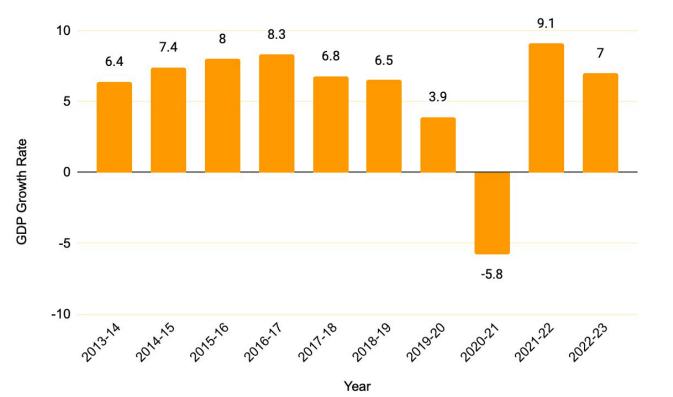
India could achieve a projected GDP of \$ 8T and per capita income of \$5,625 by 2030 on account of India's demographic dividend and a sharp rise in working population. – CBRE

- If India wants to build a \$10T economy by 2030, it needs to grow at 16.7% CAGR (with US\$ at 75)
- To reach the same by 2033, it needs to grow at 11.4% CAGR



GDP Growth (%)

Regaining Growth Momentum



Real GDP & Nominal GDP expected to grow approximately @ 6.5% & 10.5% respectively in 2023-24 (ES & Budget)

Source: CSO, RBI, The Economic Survey 2022-23

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The world is changing

Regions	GDP 2023(E) \$ Trillion	GDP 2025(F) \$ Trillion	GDP 2033(F) \$ Trillion	CAGR 2022-2033
US	26.19	28.05	33.53	2.50%
EU22	17.01	18.8	19.74	1.50%
Japan	4.37	4.81	4.83	1.00%
Others	11.98	13.13	16.10	3.00%
Total OECD	59.55	64.79	76.2	2.50%
China	19.24	22.40	28.48	4.00%
India	3.82	4.55	7.51	7.00%
Others	23.57	26.30 34.89 4		4.00%
Total: RoW	46.63	53.25	70.88	4.28%

Total Global 106.18	118.04	147.08	3.31%
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Source: IMF, analyst estimates. Currency appreciations considered



The world is changing

India is a positive outlier in a world with suppressed growth rates

	Growth Projections (per cent)		Change from WEO Updat (July 2022) (per cent)	
	2022	2023	2022	2023
World	3.2	2.7	0	-0.2
Advanced Economies	2.4	1.1	-0.1	-0.3
United States	1.6	1	-0.7	0
Euro Area	3.1	0.5	0.5	-0.7
UK	3.6	0.3	0.4	-0.2
Japan	1.7	1.6	0	-0.1
Emerging Market Economies	3.7	3.7	0.1	-0.2
China	3.2	4.4	-0.1	-0.2
India*	6.8	6.1	-0.6	0



Strong Industrial & Infrastructure Base



Source: Ministry Reports of the Government of India, BEE, TRAI, SIAM, OICA, World Steel Association



Strong Industrial & Infrastructural Base

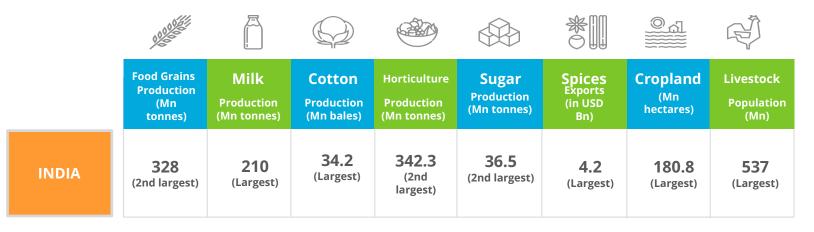
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	Coal Production (Mn MT)	Iron Ore Production (Mn tonnes)	Aviation Passenger Traffic (Mn)	Railway Network ('000 Kms)	Roadway Network (Mn Kms)	Ports Cargo Traffic (Mn MT)	Electricity Production (Bn Units)	Textile Production (Bn Sq. Mt.)
INDIA	780 (2nd largest)	254 (4th largest)	341 (3rd largest)	67.9 (4th largest)	6.37 (2 nd largest)	720.3	1459 (3rd largest)	71.05 (2nd largest)

Exports stood at USD 418 billion in 2021-22

- Ranked 44th in Logistics Performance Index (LPI) (last updated in 2018)
- Air passenger traffic is growing at 16.5%, to become 3rd largest by 2024
- Produces 95 minerals 4 fuel-related, 10 metallic, 23 non-metallic, 3 atomic, and 55 others



Strong Agricultural Base



- Major producer of agrochemicals, tea, cashew, jute, oilseeds, etc.
- Largest exporter of cereal products, cotton, bovine meat, sugar, etc.
- All 15 major climates in the world; 46 of the 60 soil types in the world
- Largest manufacturers of farm equipment
- Proximity to food importing nations



Strong Financial Base

FDI into India (in USD Bn) 100 Number of listed companies on the 83.57 81.97 National Stock Exchange **India Equity Market Capitalisation** 23.47 (in INR Lakh Crore) Number of companies 9.31 271.11 listed on the Bombay 264.04 2006-07 2011-12 2020-21 2021-22 2022-23 **Stock Exchange** (exp.) 204.31 India Mutual Fund AUM (in INR lakh 110 Mn+ 151.09 crore) 39.46 Active demat accounts 37.57 for trading on the 74.15 31.4 stock market 30.86 15.4 8 unicorns 2003-04 2013-14 2018-19 2019-20 2021-22 Jan-23 2008-09 7.01 Listed on the public INR 271.11 Lakh Crore ~= USD 3.39 Tn 4.17 stock exchange since

2021

2055

5311

INR 39.46 Lakh Crore ~= USD 493 Bn 30NE4 CAPITAL

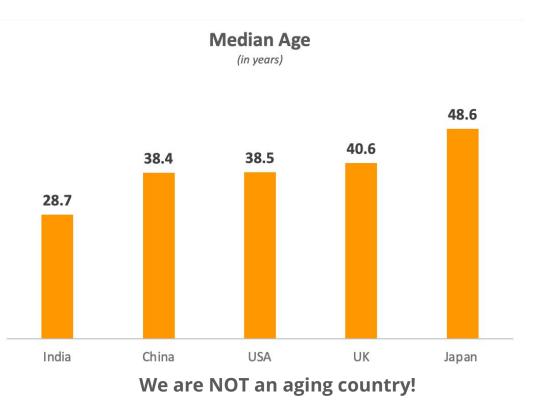
2021-22 February 2023

2012-13

2008-09

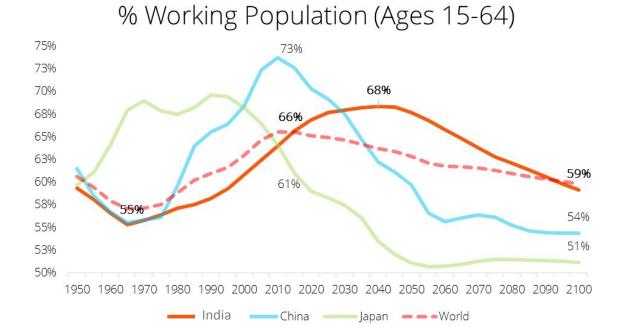
2020-21

We have a Young Population





We will continue to have a Young Population



India's working population is expected to total two-thirds of the total population in 2025

Higher aspirations & increased demand for skilled labor leads to higher education levels

We have a growing middle class (~300Mn) which is increasing its consumption

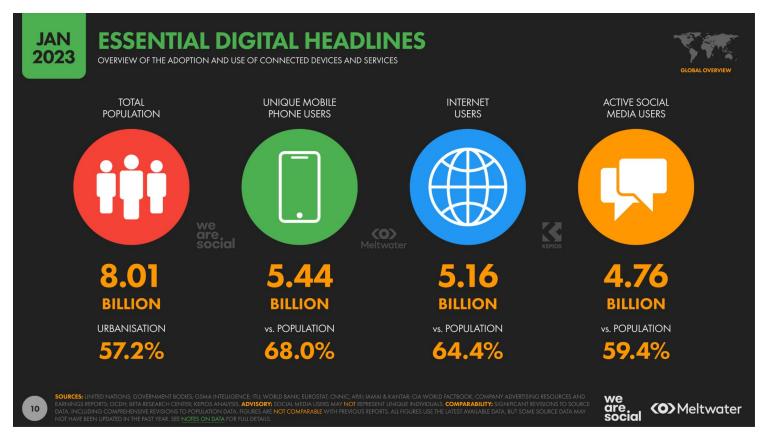


Formal jobs are growing

Financial Year	Net new EPF subscribers		Net new ES	SI subscribers
	Ages 18-25	Women	Ages 18-25	Women
	1,12,	50,214	1,49,	.65,972
2018-19	50.10%	21.00%	48.20%	16.60%
	94,72,468		1,51,45,261	
2019-20	53.40%	22.80%	48.60%	17.90%
	94,54,119		1,15,05,302	
2020-21	51.40%	22.80%	48.40%	16.30%
	1,38,20,141		1,49,	12,698
2021-22	52.40%	25.40%	48.20%	18.50%
	1,12,15,403		1,00,97,	326 (Oct'22)
2022-23 (Apr'22-Nov'22)	51.00%	26.50%	47.90%	19.10%



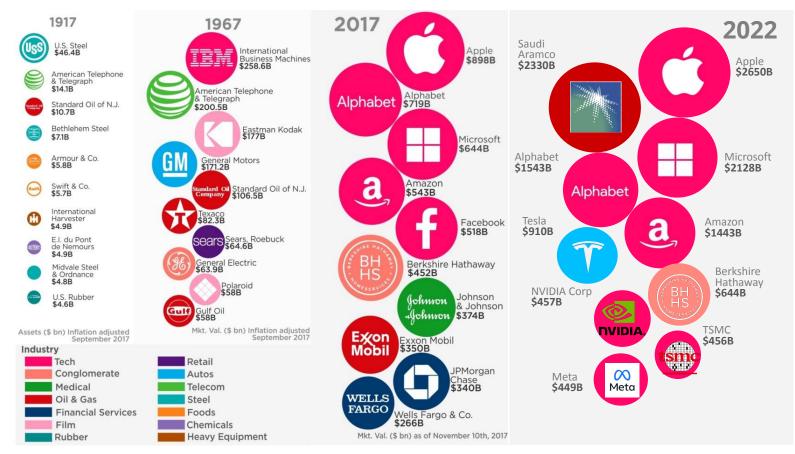
Digitalisation has transformed the world...



Source: We Are Social

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The early-movers now dominate the market



Source: a16z, Visual Capitalist, Companies Market Cap, Investopedia

Tech Eats The Leaderboards

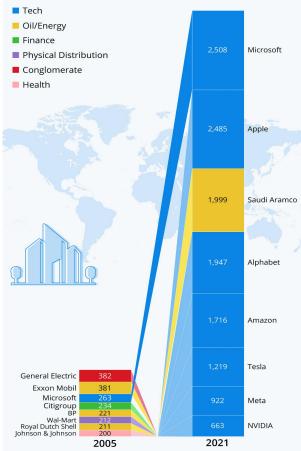
The Most Profitable Companies in the World

2021 profits of the world's most profitable publicly listed companies (in billion U.S. dollars)



The Age of the Tech Giants

Companies with the world's largest market capitalizations in 2005 and 2021 (in billion U.S. dollars)*



* As of March 31, 2005 and November 4, 2021. Sources: Financial Times, Yahoo! Finance

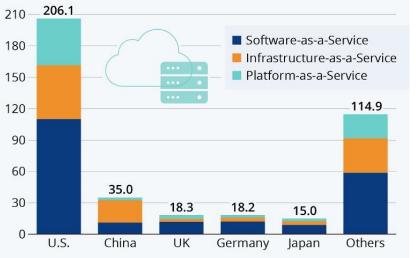
Source: Statista

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The US Runs The World's Cloud

The U.S. Rules the Cloud

Estimated revenue of public cloud computing services in 2022 (in billion U.S. dollars)



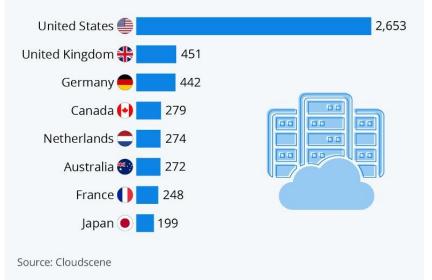
Forecast as of May 2022 Source: Statista Technology Market Outlook

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statista 🗹

Which Countries Have The Most Data Centers?

Number of data centers per country as of February 09, 2021



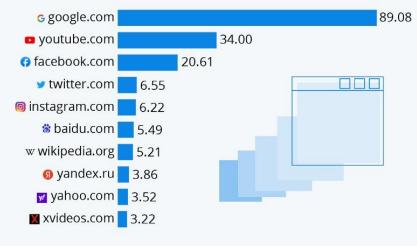
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The EU is an aging Digital Colony

The World's Most Visited Websites

Websites with the highest number of visits worldwide in November 2021 (in billions)



Source: SimilarWeb

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October 22, 2019

Europe Has Declared War on American Tech Companies

McKinsey Global Institute

Securing Europe's competitiveness: Addressing its technology gap

September 22, 2022 | Report

Corporate Europe is falling behind as tech weakness permeates sectors

02 APR 2019

Europe's big tech contradiction

Why are all the tech giants American or Chinese? Should Europe have its own Facebook? Why aren't any of the top digital companies European?

Big Tech Outspends To Maintain Monopolies

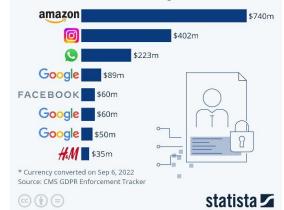
Big Tech and industry lobby groups accused in EU transparency complaints

Big Tech's \$95 Million Spending Spree Leaves Antitrust Bill on Brink of Defeat

- Google, Apple and others spent nearly \$95 million on lobbying
- Congress's window to act is tight ahead of November elections

Big Tech, Big Fines

Highest fines for breaching one or more articles of the General Data Protection Regulation*



Report reveals Big Tech's last minute lobbying to weaken EU rules

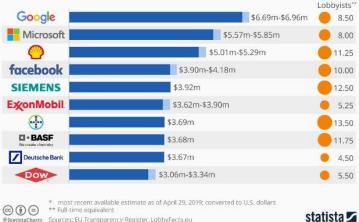
Tech companies spent almost \$70 million lobbying Washington in 2021 as Congress sought to rein in their power



The Senate Fought Mark Zuckerberg, and Mark Zuckerberg Won

The Facebook CEO charmed, evaded, and sometimes misled his way through the committee-hearing gauntlet.

The Companies Spending the Most on EU Lobbying Self-reported annual lobbying expenditure in the European Union*



Monopolies are not encumbered by geographical borders

in a Data+AI-first world



Meta hit with antitrust breach order in Turkey for combining user data across FB, WhatsApp, Instagram

The New Colonialism, Digitally

Symbol	Market Cap (USD)	Monopoly, everyday digital products in
	1.6 Trillion	A
MSFT	1.5 Trillion	Linked in
	1.5 Trillion	amazon
	1 Trillion	Google 🚔 💽 ⊳ Google Play Ġ Pay
FB	685 Billion	facebook 🧕 😒
	35 Billion	8
	27 Billion	y
МТСН	24 Billion	⊌ tinder

Why Facebook Stock Soared 56.6% in 2019

The Social Network posted strong performance last year, and its stock recently hit a new all-time high.

BREAKING NEWS | 10,626 views | Jan 13, 2020, 09:22am

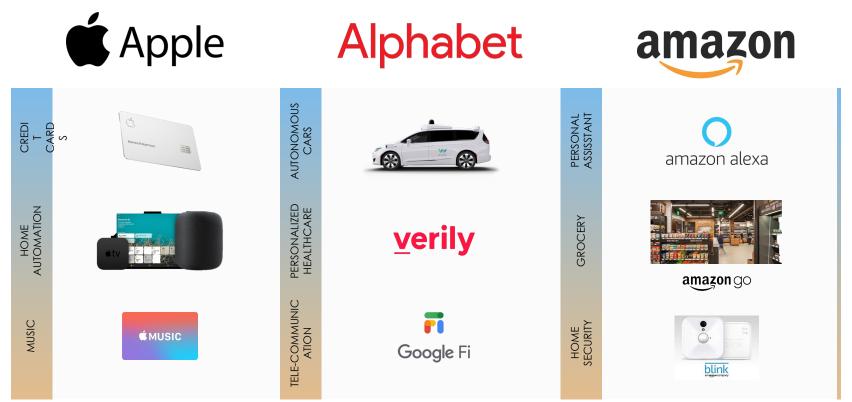
Google Parent Alphabet Passes \$1 Trillion In Market Value

Apple's Market Cap Could Close in on \$2 Trillion in 2020 -- Here's How A combination of factors could drive the iPhone maker's stock considerably higher in the coming year.

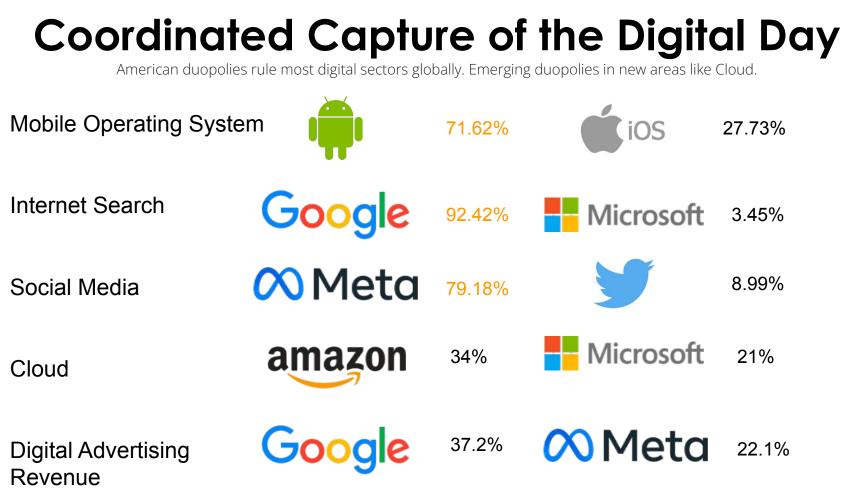
Amazon becomes the country's second \$1 trillion company

The New Normal – Global Tech Conglomerates

Tech companies dominate globally and will continue to accrete disproportionate control over new value creation



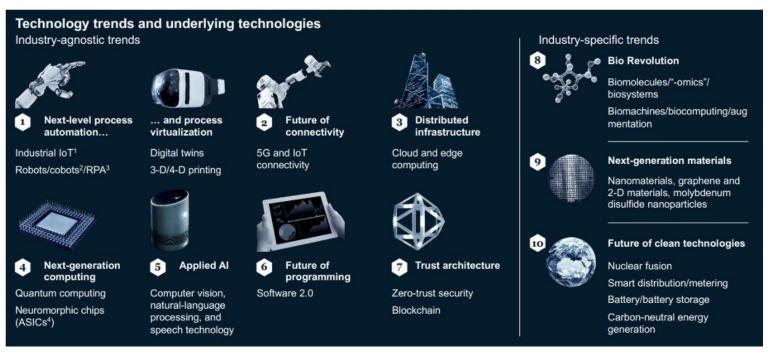
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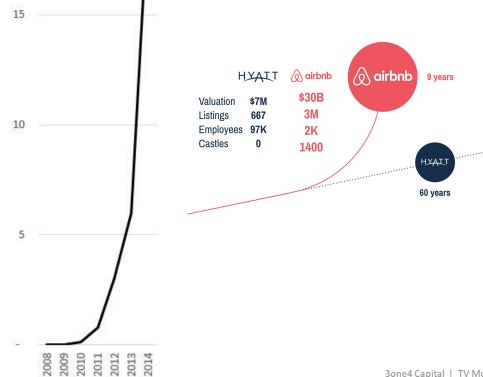
Source: Multiple sources

The Future Arenas of Competition Are Transversal Technologies

From Applied AI and Edge Computing to Nanomaterials and Tissue Engineering, the race is on to own the technologies of tomorrow.



Building *Exponential Organisations*



Airbnb Nights Stayed Per Year (Millions)

20

Exponential organisations are getting 10x performance above their traditional peers, just because of how they organise themselves.

The value is generated by scalability, efficiency, longevity, and relevance.

FOXCONN has *completely automated* some of their *factories* using Al-enabled "Foxbots"



Foxconn identified challenges with Manual Labor

- Down-time
- Attrition
- Cost variability changes in wages
- Quality variability



Foxconn's fully automated factories benefit from:

- "Lights-off" factories: 24/7 operations
- Cost predictability
- Al-enabled demand-supply sync, energy use, robot monitoring and automated maintenance

Source: Foxconn, Wired

SPORTS DATA TRANSFORMED Into Performance Footwear design, Digitally crafted at Speedfactory

DATA INPUT

0.651s

DIGITALLY EMBEDDED TORSION BAR

FLOATING TORSION BA

FUSED

REDESIGNED TORSION BAR DIGITALLY Embedded to float inside the sole, providing a precise balance of lightweight stability and flexibilit

PROGRAM-MING FIT

DATA ANALYSED TO MAP FIT PATCHES Precisely onto footwear upper. Programming specialized fit for sport specific movement.

FUSED BONDING

DIGITAL BONDING PROCESS ECTHINATES GLUE BY PRECISELY FUSING THE UPP**GLU** To sole unit. Giving you the most direct boost comfort

Source: Adidas

Combining athlete data-driven design with a technology-enabled

'Speedfactory',



reduced it's production to

market time from

2 months to under 2

weeks. The shoes got better

too, much better.

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3D PRINTING

ROBOTIC ARMS

COMPUTERIZED KNITTING



Handle

Handle combines agility and the ability to pick boxes to tackle box handling tasks in the warehouse.



Atlas

The World's Most Dynamic Humanoid, uses balance and whole-body skills to achieve two-handed mobile manipulation

Spot

A nimble robot that handles objects, climbs stairs, and will operate in offices, homes and outdoors.



'Designer babies' modified using CRISPR technology are here (whether we like it or not)

Biotechnology / CRISPR

EXCLUSIVE: Chinese scientists are creating CRISPR babies

A daring effort is under way to create the first children whose DNA has been tailored using gene editing.



CRISPR Might Have Made China's "Designer Babies" Smarter

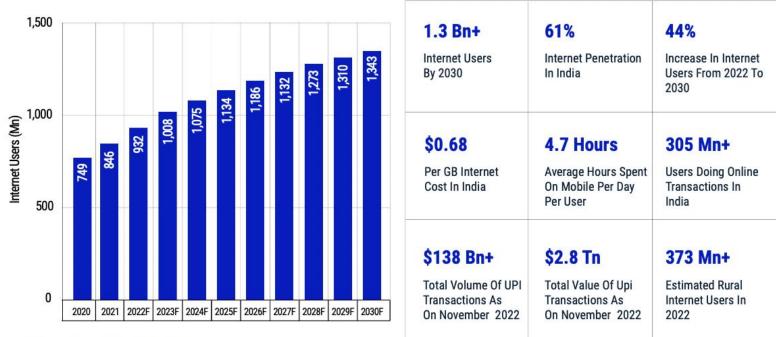
New Research into the gene CCR5 that was allegedly edited out of twin girls in China to protect them from HIV might have made them smarter, raising fears of future "designer babies"



'We as a species need to come to terms' with CRISPR technology as China awaits birth of third genetically modified baby

Source: MIT Technology Review, The Economist, CNBC

Digitalisation is transforming India too...

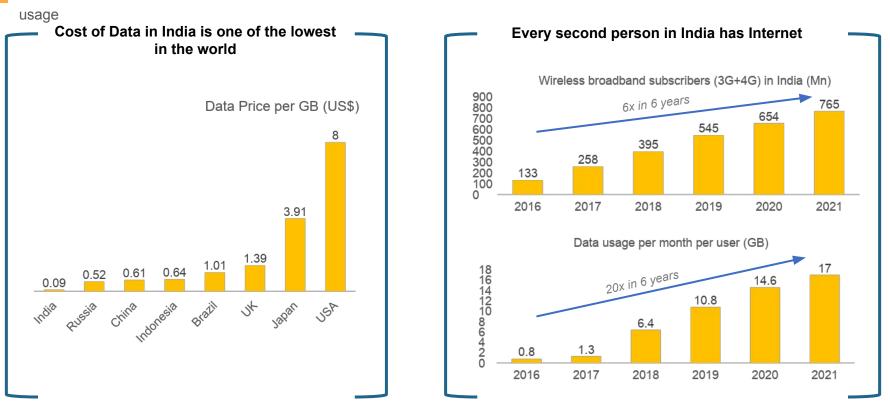


Source: Statista, NPCI, Bain & Company, App Annie F stands for forecasted.

Inc 42

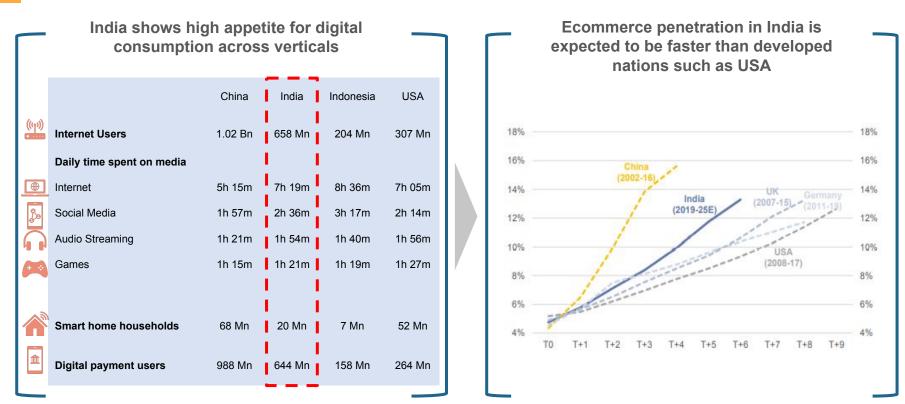
India Internet on a high growth trajectory

Cost of data - one of the lowest in the world, rapid increase in wireless broadband subscribers and subsequently increased data



How does India fare against emerging and developed nations?

'India Internet' on a high growth trajectory



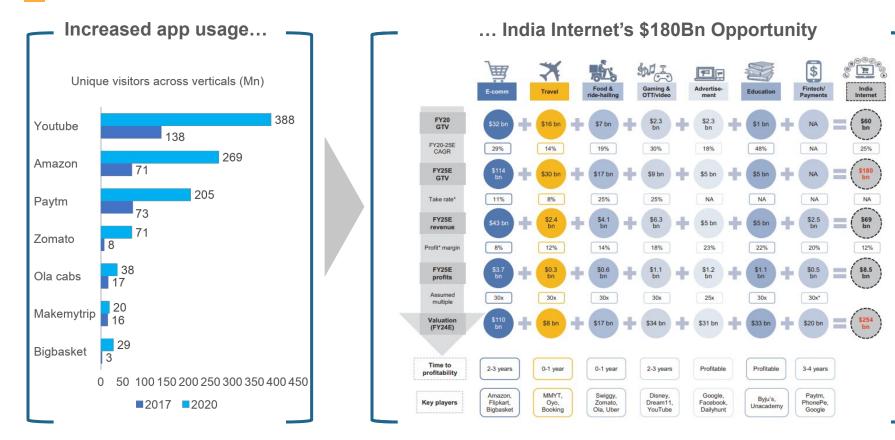
India now accounts for 11.6% of global app downloads

Source: Goldman Sachs India Internet Report, Data.ai, We Are Social TV Mohar

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Consumer led digital leap

Increased app usage contributing to significant opportunities for internet companies



Source: Goldman Sachs India Internet Report

** The Startup Ecosystem will help create a USD 10 Trillion economy in India

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Indian Startup Ecosystem



3rd largest startup ecosystem in the World

96,000+

startups

USD 500 Bn

Value Created

Source: 3one4 Capital Estimates, Yourstory, Inc42, Tracxn



New flywheel ramping up

USD 260 Bn revenue **Infosys** HCL USD 200 Bn exports wipro Cognizant 5.5 Mn People Employed ΤΛΤΛ 1989 2015 2025 IT Services took off Startups take off What lies in store 2025 USD 150-200Bn Employ **Projections** 200,000 #2 250 to be invested in 3.25 Mn Startups after US Unicorns 2021-25

Source: Nasscom, Inc42, analyst estimates

Services

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Startups

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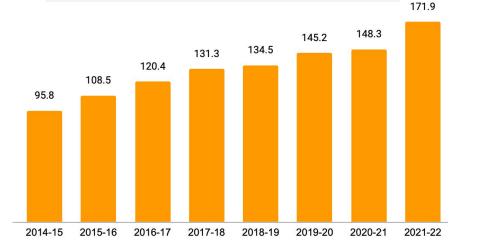
FY 2023 (pr)

India is a software export giant

India has the largest engineering population in the world and exported more software (USD 148.3 Bn) than Saudi Arabia exported oil (USD 145.3 Bn) in 2021.

India's Exports of Software Services (in USD Bn)

India's software exports have grown **1.8x** since 2014-15.







Startups have raised USD 136 Bn from 2014-22

520+ Accelerators & Incubators

750+ Institutional Investors

2,480+ Active Investors

950+ Acquisitions

Source: Yourstory, Inc42, 3one4 Capital

Startups at a glance

67%

of all active startups are concentrated in Bengaluru, Mumbai and Delhi-NCR

Bengaluru saw 48% of the total deal value between 2021 and 2022



2022 saw startups raise USD 25 Bn across 1,519 deals and 240+ M&As



India's 108+ unicorns have created \$350 Bn in value There will be 250+ unicorns in India by 2025

Source: 3one4 Capital, Tracxn | *2 Unicorns are now listed



IVE ONLINE THTORN

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Indian VC ecosystem has matured

Deal Count

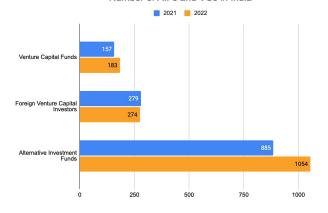
50.00

50 2.000 1.584 Compared 2021, the capital inflow plunged by 40%, whereas 40 compared to 2020 the total amount was 2.1x higher 1.500 42 Funding Amount (\$ Bn) 30 1,049 999 985 953 1,000 833 810 25 20 378 500 10 12 11.9 12 9.3 5.6 5.4 0 n 2014 2015 2016 2017 2018 2019 2020 2021 2022 Funding Amount (\$ Bn) - Deal Count

Indian Startups Have Bagged \$136 Bn In Funding To Date

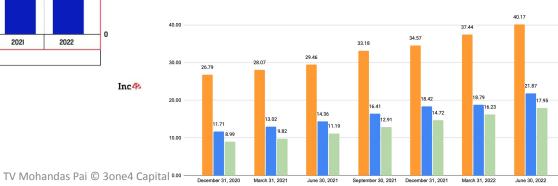
Of this, over \$110 Bn has been raised by Indian unicorns and soonicorns alone

Source: Inc42 Note: 2022 data is as of 25th December

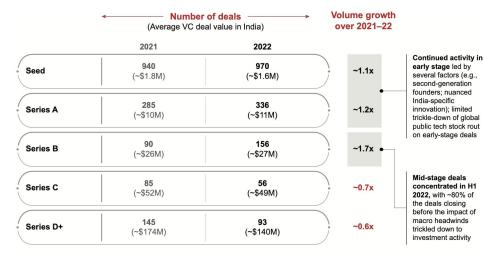


VC deployment numbers in India (in INR thousand crore)

Commitments raised Funds raised Investments made

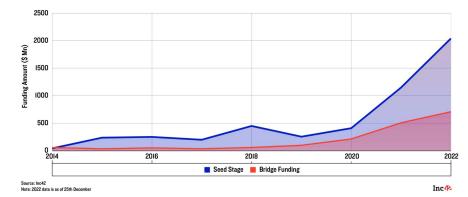


Early stage investing has shown strong growth despite global headwinds



Seed Stage & Bridge Funding Rise Despite The Bearish Sentiment In 2022

Almost 41% of the total seed funding (\$5 Bn) raised by Indian startup ecosystem since 2014, was secured in 2022



Note: Series D+ includes series D to series K Sources: Bain & Company: Pitchbook

VCs have generated above average returns

CRISIL AIF Benchmark – Cat I (USD)

Vintage year	No. of schemes	Pooled IRR (%)	Investment multiples and ratios		
			DPI	RVPI	ΤΥΡΙ
FY14	5	8.89	0.54	0.98	1.51
FY15	9	5.91	0.82	0.52	1.34
FY16	22	31.30	0.29	2.74	3.03
FY17	12	38.65	0.21	2.35	2.57
FY18	11	36.76	0.19	1.85	2.04
FY19	13	41.56	0.02	2.04	2.06
FY20	18	56.51	0.00	1.84	1.85
FY21	5	47.96	0.00	1.36	1.36
Total schemes	95				

Global Early Stage Investing Performance Benchmarks (Top Quartile)

Vintage	2016	2017	2018	2019	2020
IRR	37.11%	34.75%	55.64%	62.41%	42.75%
ΤΥΡΙ	4.43x	2.68x	2.95x	3.51x	1.50x
DPI	0.94x	0.60x	0.29x	0.41x	0.01x
RVPI	4.16x	2.333x	2.12x	2.62x	1.40x

Source: Crisil, Pitchbook

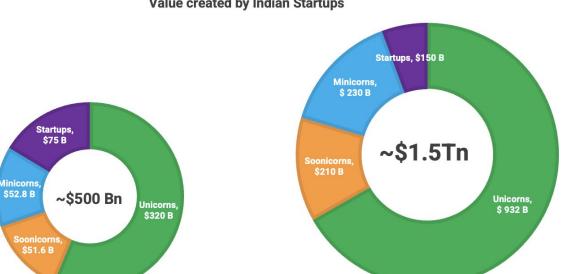
Value Creation at unprecedented pace

42 startups emerged as Unicorns over 2021, more than the figure for the last six years combined. In 2022, 22 new companies have emerged as Unicorns.

UNCONCOLUES AND	 CarDetime Chargebee CoinDCX C ★cure.ft digit droom ExectlyInip Calimati grofers S Groww @gup 	Conservation Zetwerk Zeta Vedardili CONSWITCH © CRED © Company updred § Spinny Colobalitees \$ Slice @ ShareChat Shup INFRA.MARKET REFEL \$ Pristyn Care KapeyIndra meesho of Jousiness © NOBROKER MDL = moglix
BillDesk BYJU'S OYO Imail freshworks policy bazaar RIVIGO Sudaan PhonePe swissey 2018	Dib bigbasket DELHIVERY DRERM SPORTS druva icertis Collenskart OLA ELECTRIC 2019	CARS 22 Adailyhunt firstory glance MXAA T Pine Labs E ZERODHA ARazorpay ZENOLI OPOSTMAN Unacademy 2020
ReNew 2017	hike © SHOPCLUES: make witrip 2016	zomato Quike Pay in OolA infoedge @ Snapdeal InmOBI Flipkart



Value Creation at unprecedented pace 3x valuation growth by 2026



Unicorns Soonicorns Minicorns Startups

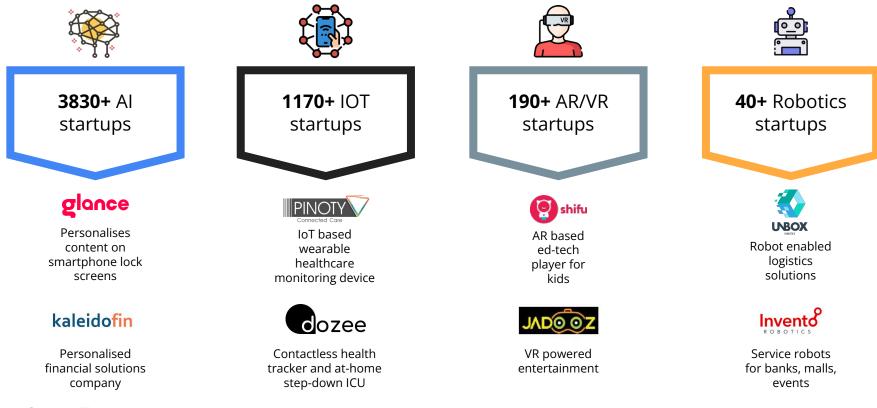
2025-26

Value created by Indian Startups



2022-23

India growing as a deep-tech hub



Source: Tracxn



Use of Digital Platforms



TV Mohandas Pai © 3one4 Capital



Access to the basic necessities of living



Health assurance to **362M beneficiaries** under Ayushman Bharat Scheme



Drop off rate to be curbed - enrollment in class 10 at 77% vs. class 11 at 52%



27.4 million houses completed under PM Awas Yojana



99% of population has access to clean water close to home, 110M rural HHs provided tap water connections.



100% village electrification achieved in 988 days covering 18,452 villages



99% of the country's habitations connected with all-weather roads under PMGSY

99% individual household latrines (IHHL)

99% individual household latrines (IHHL) achieved under Swachh Bharat Mission



All 36 states/UTs now covered under NFSA vs. 11 in 2014



1.2Bn Mobile phone users in India in 2022, 600 Mn smartphone users, **162Mn** smartphones sold p.a.



Total 800 Mn users another 400Mn first-time internet users are expected to come online



More than 85% Indians owned a bank account owing to PM Jan Dhan Yojana





95.65M rural women provided free LPG gas connections

Source: Government bodies, World Bank, Global Carbon Project, UNESCO, UNDP, WaterAid

Digital Media is Mainstream

Rise of Jio

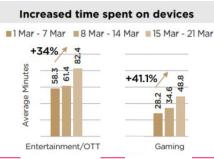




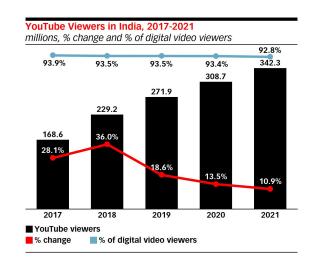
Per capita Data Consumption and voice usage in 2023 is **22GB** per month with **422.8 Mn** subscribers.

2022 Data Consumption per Subscriber was 20 GB per month with 366 Mn subscribers





Consumption proliferation





Source: Publicis, Vidooly, Company Annual Reports, Livemin

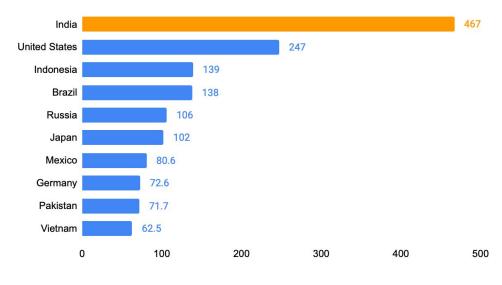
3one4 Capital | TV Mohandas Pai



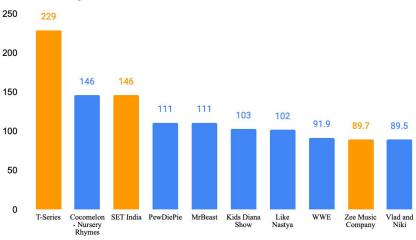
India constitutes YouTube's biggest user base

India has the highest number of YouTube users in the world

Leading countries based on YouTube audience size



3 out of the top 10 most subscribed YouTube channels are Indian



Top 10 most subscribed YouTube channels

All figures in millions.

All figures in millions.



Online Gaming: Social distancing and lockdowns transitioning sporting to the digital realm



Highly negative

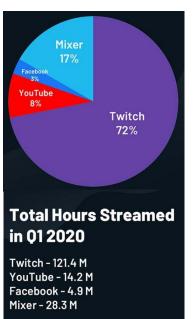
More hours streamed watching esports than Youtube & Facebook combined

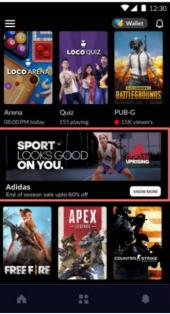
Global

Fortnite Battle Royale

Most Watched Game on Twitch







India

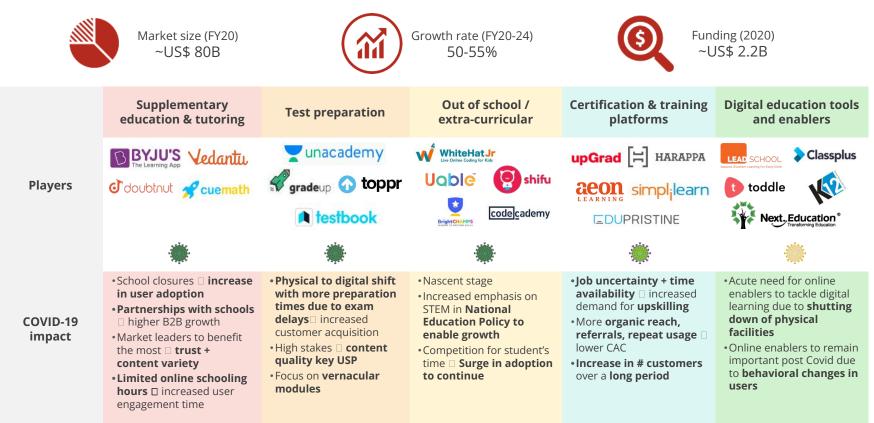
India's leading home-grown gaming streaming app





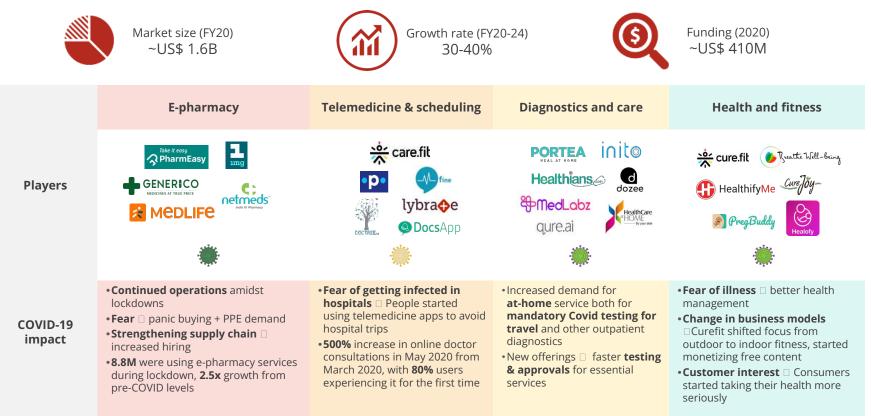


Edtech: Indian edtechs fundamentally altered education delivery in India



3one4 Capital | TV Mohandas Pai

Health-tech: Growing need for deeper healthcare infrastructure



COMMERCE CREDIT **INVESTMENTS** India SKILLS **OTHERS** (GSTn) (RBI) (SEBI) Stack Provides a modern CONSENT **Open Personal** privacy data sharing LAYER **Data Store** framework India has Game changing electronic payment IMPS, AEPS, APB, pioneered the CASHLESS systems and transition and UPI LAYER to cashless economy use of Digital **Public Goods** Rapidly growing base of PAPERLESS paperless systems with Aadhaar e-KYC. (DPGs) as billions of artefacts LAYER E-sign, Digital Locker technology **Unique digital** enabled force Aadhaar **PRESENCE-LESS** biometric identity with open access of **Authentication** multipliers for LAYER nearly a Billion users growth IAM •

+ Aadhaar

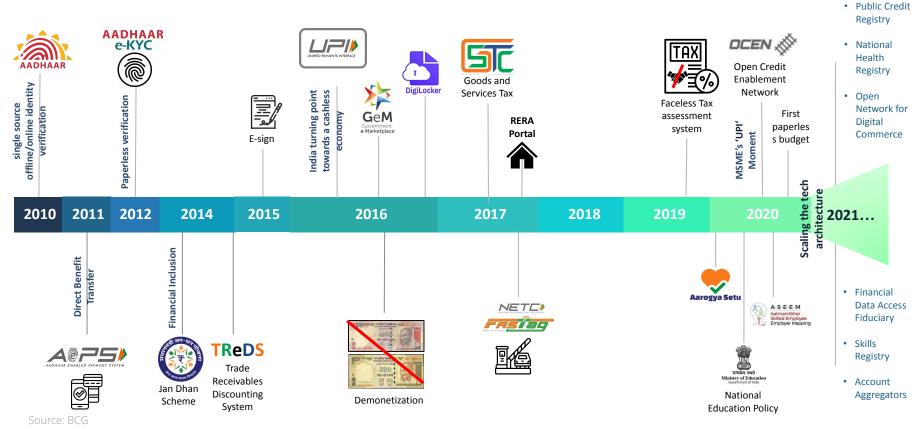
Ian Dhan

T 30NE4 CAPITAL

Mobile

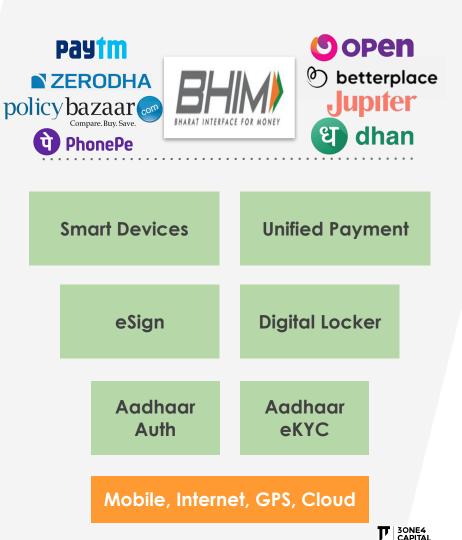
+

The evolution of India Stack





World-Class Products are being built on INDIA STACK, a set of open API based PUBLIC **PLATFORMS**



Impact of the India Stack

Retail Customer Onboarding Reimagining the User journey with Aadhaar, eKYC, e-Sign and Digital Locker Reimagining Channel Management -Digital Transformation with Aadhaar eKYC Customer Onboarding - Digital Transformation with Aadhaar eKYC



Turnaround Time down from 6 days to 1 hour

Reduced Drop Offs



- Branch Capacity Freed upto 10%
- >99% First Time Right
- Back Office No Longer Required



- Transaction Time down from 4 hours to 2 minutes
- Statement Processing Time down from 1 hour to 1 minute
 - Reduced Operational Cost
- Capacity Freed-up for Lead Generation



Improved Customer Retention



 Onboarding Time down from 1 day to 4 minutes



Onboarding Rate 50M < 2 months



Saved INR 15 / Sim Issued



Customer Experience "Walk Out Working"







We will go from data poor to data rich nation in 5 years!

Cashless, Paperless & Presence-less Service Delivery



India's Banking fundamentals are strong









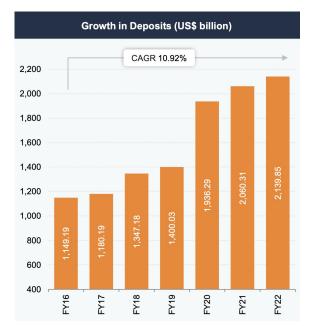
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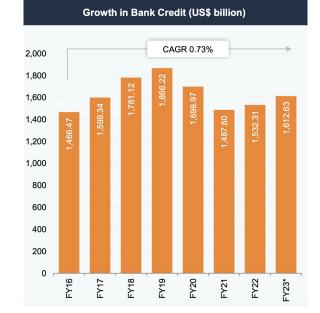
€

USD 2.1 Tn

W

In total scheduled commercial bank deposits in India





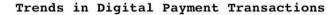


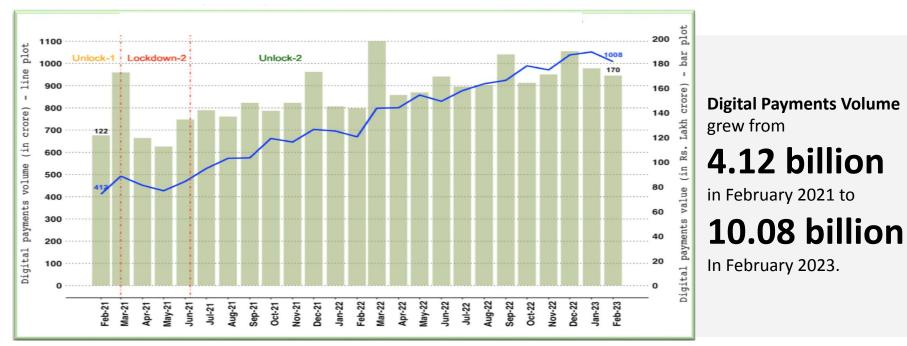
Full Stack Digital Banking Services by Neo Banks is the Future

Top Players	Traditional Banks		NBFCs		Neo Banks	
	SBI	HDFC BANK	Diversified BAJAJ FINSERV	Housing Finance		
2010	🕼 बैंक उपिक बड़ीरत Bank of Baroda	Øicici Bank	Gold Loan	Consumer – SME & Vehicle		
				RELIANCE CAPITAL		
	? SBI	HDFC BANK	Diversified Mahindra FINANCE	Housing Finance		For Consumer Jupiter
2022	वैंक आँफ़ बड़ौदा Bank of Baroda	Øicici Bank	Gold Loan	Consumer – SME & Vehicle	more than a bank	Fi
	IDFC FIRST Bank		MANAPPURAM FINANCE LIMITED Muthoot Finance	A WINNER RELATIONSHIP	Razorpay	CRED



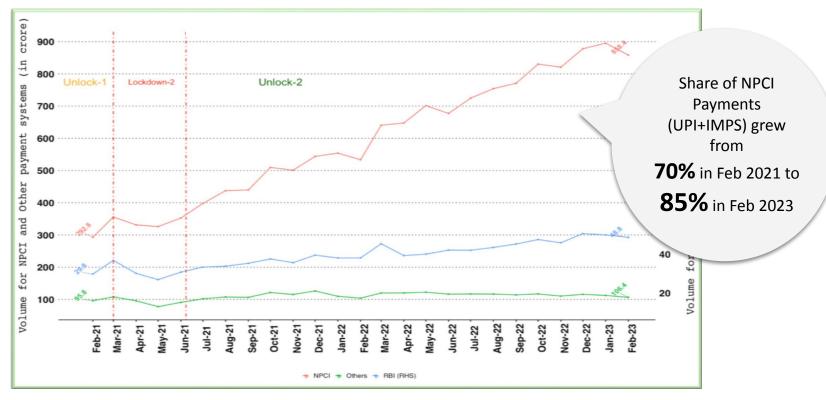
Digital Payments in India







Share of Digital Payment Methods



RBI payment systems: RTGS (customer and inter-bank transactions) and NEFT

NPCI payment systems: IMPS, NACH, UPI (including BHIM & USSD), BHIM Aadhaar Pay, AePS fund transfer and NETC (linked to bank account). Other payment systems: debit and credit card payment transactions (excl. cash withdrawal), wallet and PPI card payment transactions (excl. cash withdrawal) aone4 Capital | TV Mohandas Pai

Steady Transition to a No-Cash future

Noncash payments have increased during the past month ... Consumers' use of payment methods (%) Cash 24 Debit/credit -30 card 50 Digital wallet 25 Net banking/ 30 online banking Increased Same Decreased

...and are likely to continue to grow over the next six months

Consumers' use of payment methods (%)

25
26

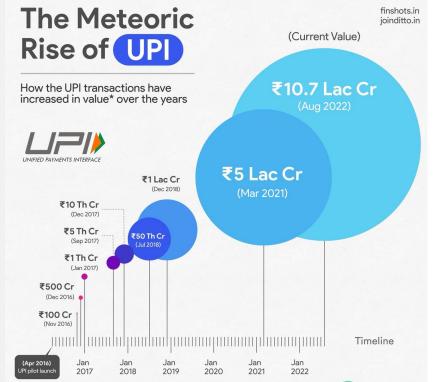
45
29

60
22

18

50
30

20



8.68 Bn Monthly UPI transactions volume in March 2023

USD 176.31 Bn Monthly UPI transaction value for March 2023

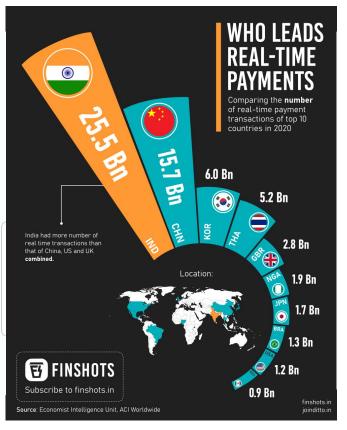
Source: Bain, FinShots, NPCI Note: 1 USD taken as INR 80 for conversion purposes



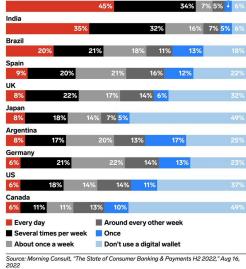
India is a leader in real-time payments

HOW INDIA PAYS





Digital Wallet Usage Among Adults in Select Countries, May 2022 % of respondents China 3%



277518

InsiderIntelligence.com

Sources: Finshots, InvestyWise, Morning Consult, Insider Intelligence

Banking-as-a-Service is disrupting banking value chains

BaaS is reconfiguring the banking value chain by enabling third-party distributors to offer banking products and services.

BaaS value chain

Bank API

BaaS

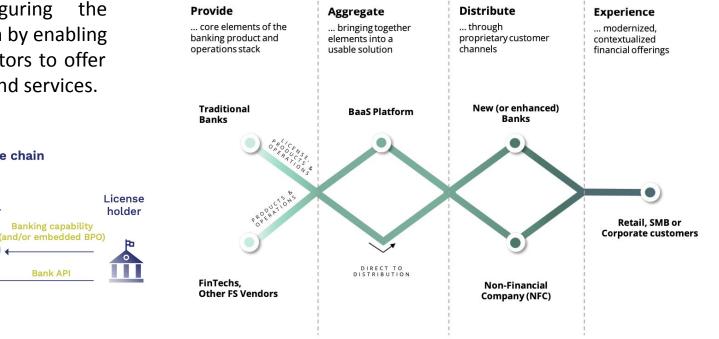
provider

API

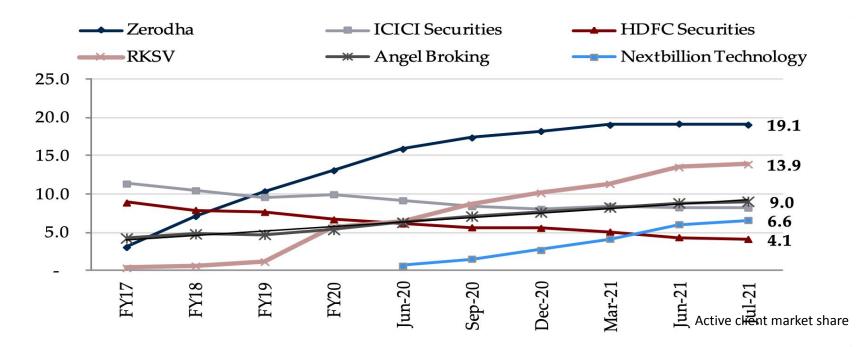
Brand or

Consumer of

BaaS



Zerodha and the Rise of Digital Broking

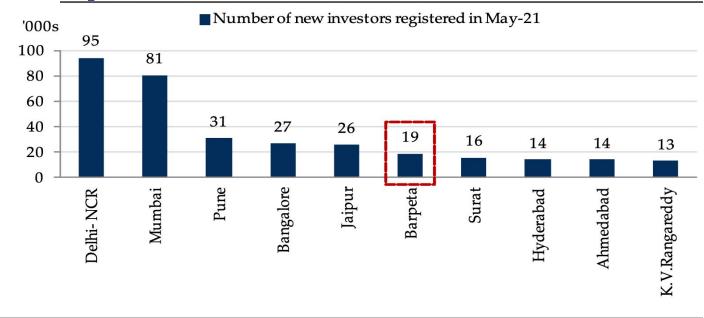


Note: HSIE Research operates under the HDFC securities legal entity Source: NSE, HSIE Research

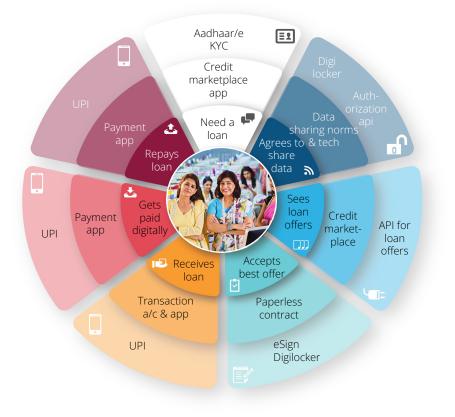
Digital Broking - Not a Tier-1 Phenomenon

Barpeta, a city in Assam with a population of just 1.9mn (1/4th of Hyderabad, 1/5th of Ahmedabad and 1/3rd of Surat) beat Surat, Hyderabad and Ahmedabad in terms of new investor additions.

Top 10 districts in terms of new investors



Credit without friction



Paperless instant credit markets based on digital tools

Bringing millions into the formal economy

** New Digital Public Goods (DPGs) will serve as India's startup flywheel for this decade

Consented Data Exchange

Account Aggregator

Problem(s)

- Individual data siloed between financial institutions and service providers.
- Collation & centralization is hard, expensive, time consuming, still a largely physical process.

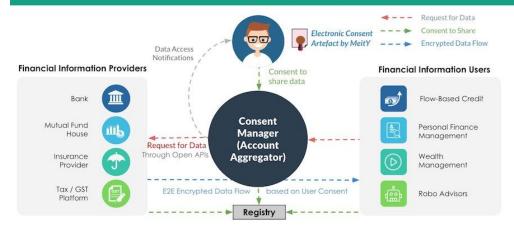
Solution(s)

- An AA acts as the digital intermediary to manage data flows based on consent from an individual.
- AA is data-blind. Data that flows through AA is encrypted.
- Electronic Consent Artefact is architected and approved by MeitY.
- RBI approves AA through licenses and has oversight on the ecosystem including FIPs, and FIUs.

AA is supported by RBI, SEBI, PFRDA, IRDA.

The Account Aggregator

will facilitate consented sharing of financial information in real-time



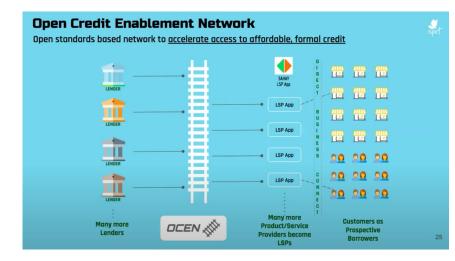
Account Aggregator framework at work

India's AA framework is pioneering consented, real-time sharing of financial information.



Sources: iSpirt, Imarticus Learning, Sahamati

Consented Data Exchange



Problems

- Cost of lending is so high that small loans become unfeasible.
- MSME credit gap of over \$330Bn.

Solutions

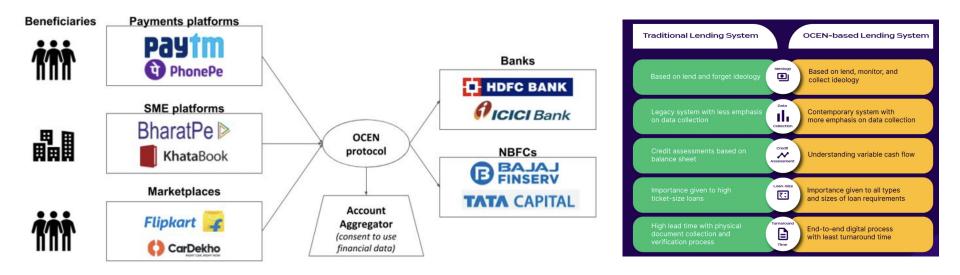
- Switch focus from balance sheet lending to cashflow-based lending.
- Common language for lenders and marketplaces to build innovative, financial credit products at scale.



- Connecting Lenders, LSPs, and Borrowers in a secure marketplace framework.
- Open APIs for credit products.

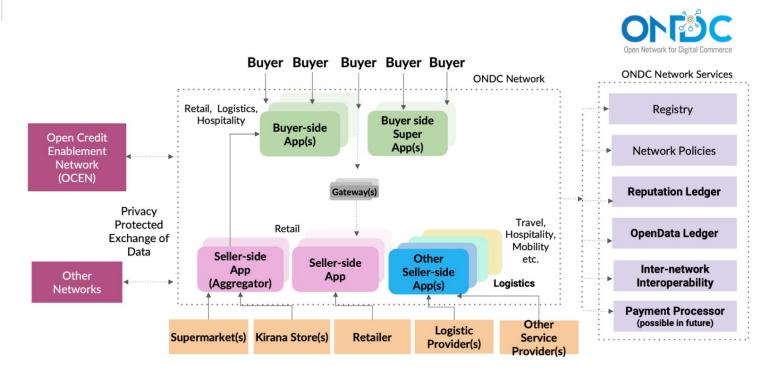
OCEN will holistically disrupt Digital Lending

Using the AA framework, the Open Credit Enablement Network (OCEN) will revolutionise digital lending



ONDC is set to unbundle digital commerce

Open Network for Digital Commerce (ONDC) is a network based on open protocols and will enable local commerce across segments, such as mobility, grocery, among others, to be discovered and engaged by any network-enabled application.



A single multi-domain registry will be maintained by ONDC, while gateways (multiple) will be private participants.

The ONDC

received

platform has

investments of

Rs. 157.5 crore

million) for the

from 17 banks

and financial

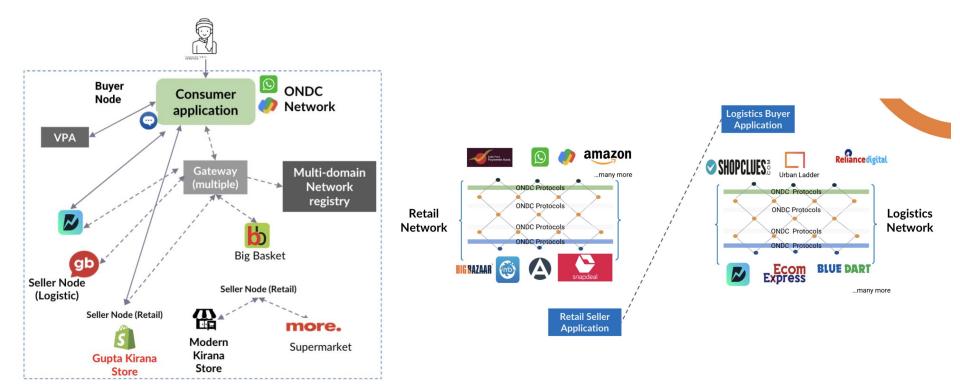
institutions.

first stage of

the project

(US\$ 20.30

Taking a peek into the future: a sample buying journey on ONDC



India's emerging National Health Stack



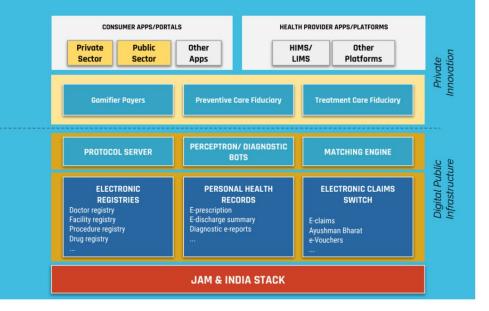
National Health Stack

GOVT & PRIVATE APPS & PLATFORMS Diverse user experiences & innovative solutions

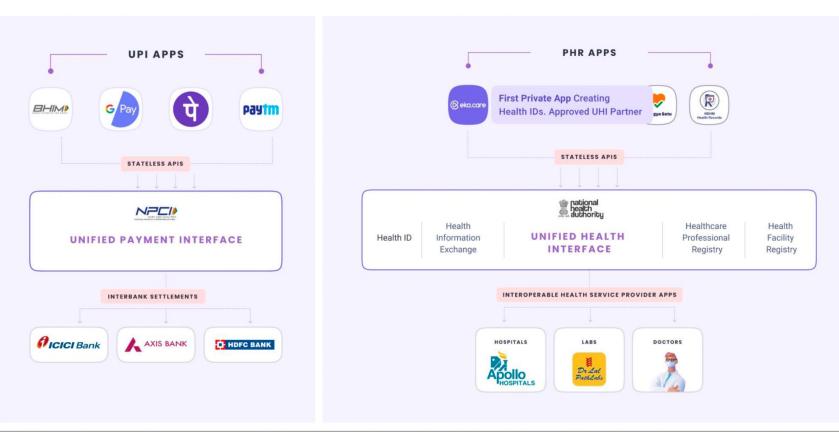
Augmentation Layer Enhancing capabilities of all actors

Plumbing Layer Streamlining flow of patients, health information and money

> JAM & INDIA STACK Cross domain generic building blocks

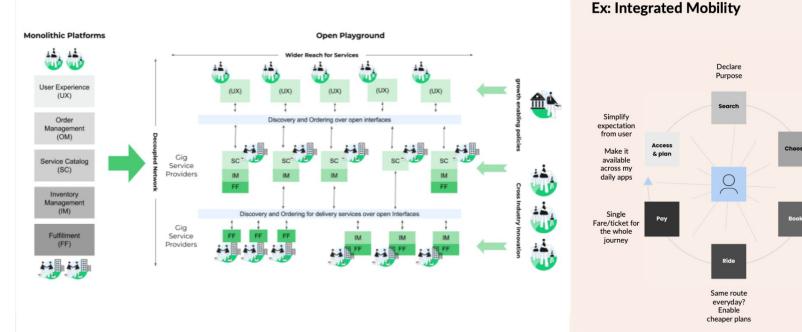


UPI moment in Indian Healthcare



Open protocols are reimagining entire industries and ecosystems

The Beckn Protocol, for instance, is revolutionising urban mobility.



Source: Beckn

Multiple Multi-

modal journey

options to

choose from

Single-click

booking for

entire journey

Number of years to 50Mn users





Aarogya Setu becomes world's fastest app to reach 50M downloads. Now at +220M users.



13 days

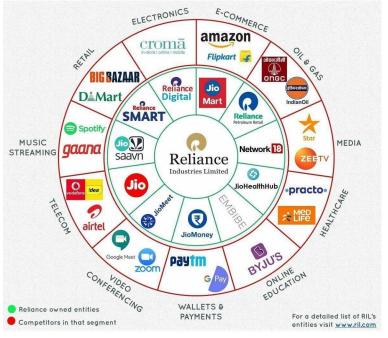


Rise of Indian Tech Conglomerates

	ANIAS	IIC FOU	JRIEEN
	INVESTOR	DEAL VALUE (? crore)	STAKE
15 JULY	Google	33,737	7.7%
12 JULY	Qualcomm	730 '	0.15%
3 JULY	Intel	1,894.5	0.39%
18 JUNE	PIF	11,3 67 🛑	2.32%
13 JUNE	L Catterton	1,894.5	0.39%
13 JUNE	TPG	4,546.8 -	0.93%
7 JUNE	ADIA	5,683.5 -	1.16%
5 JUNE	Silver Lake	4,547 -	0.93%
5 JUNE	Mubadala	9,093	1.85%
22 MAY	KKR	11,367	2.32%
17 MAY	General Atlantic	6,598 -	1.34%
8 MAY	Vista	11,367	2.32%
3 MAY	Silver Lake	5,656 🗕	1.15%
22 APRIL	Facebook	43,574	9.99% 🕐

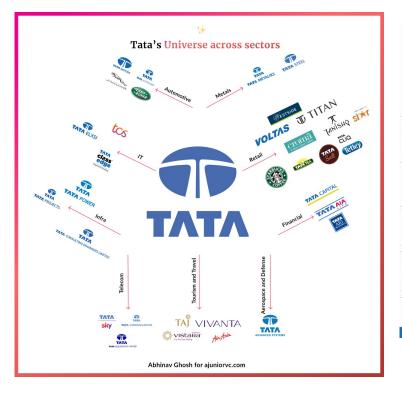
EANITACTIC COLIDTEEN

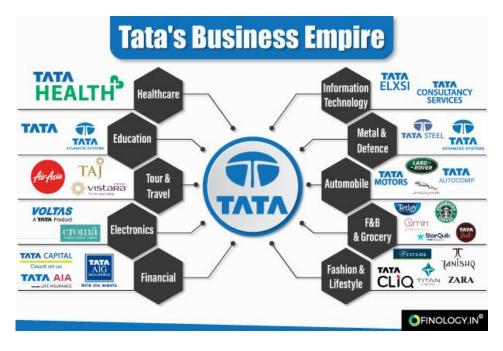






Rise of Indian Tech Conglomerates





Indians are creating Unicorns Globally



Notable US startups with Indian origin founders

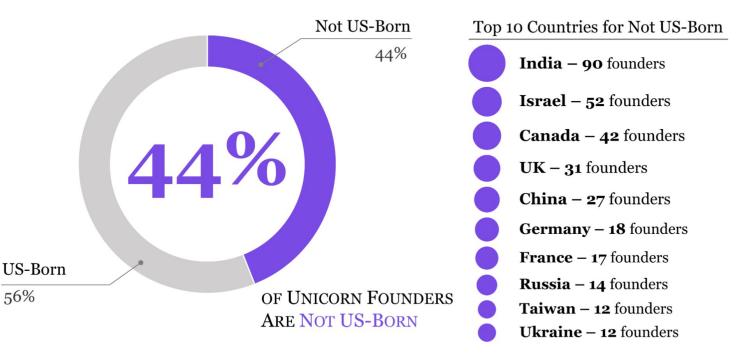
🖉 robinhood	👋 Clubhouse	ThoughtSpot.	HubSpot	instacart 🥕	verily	workday		zenefits [≋]	🚺 Udemy	
🛟 Clari	Chegg	netskope		🛟 rubrik	*wayfair	⊗harness	OneTrust PRIVACY, SECURITY & GOVERNANCE	carta	🔿 classpass	aryaka
🎄 RIGUP	🛞 samsara	XX RIPPLING	MACH7		Innovium	COHESITY	headspin	Plume	\$ Socure	nextdoor
🛞 Signifyd	eClinicalWorks 🥚	PIONEER.	6 sense	Rant	ENDURANCE International Group	sprinklr	Outschool	FORTE	Solutions	Bloomenergy.
AXTRIA	inpixon Indeor Intelligence	cvent	octifio		Sentry	Starburst	Lacework	SCOPELY	TEKION	GlobalL ogic '
🌚 tresata	Pphenom	Misfits Market	🖗 Remitly	Ohighradius	workato	VISE	terter	S CONFLUENT	view	O APPDYNAMICS

30NE4 CAPITAL

Source(s): 256 Network Family Office Report

Indians are creating Unicorns Globally

Indians dominate the list of non-US born unicorn founders in the United States

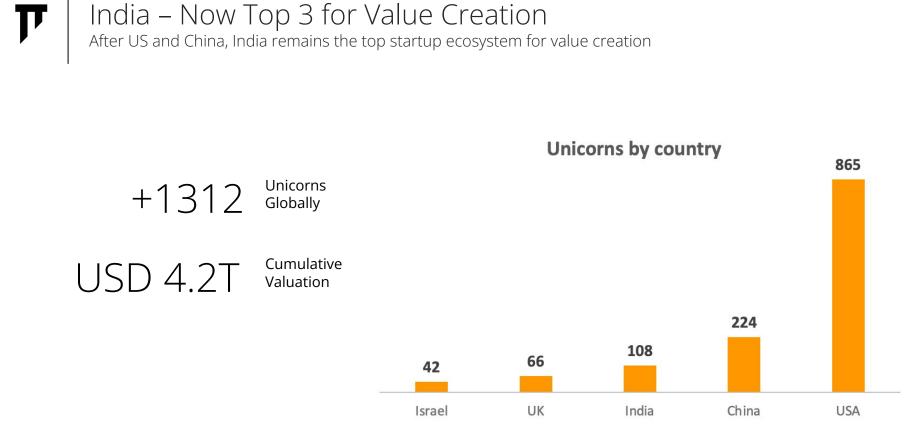


Data covers 531 US companies that became unicorns between 1997 - 2019.

Source: ILYA STREBULAEV, VENTURE CAPITAL INITIATIVE, STANFORD GRADUATE SCHOOL OF BUSINESS (01/2022)

y 🖸 IlyaStrebulaev





A robust foundation to enable innovative solutions to India's hard problems



Market Making India Stack Policy via Challenge as Digital Grants Infrastructure Regulatory Policy

Innovative Solutions to India's Hard Problems

Commercially ViableFar reaching consumer impactReinforces experimentation

100s of Experiments

- Low barriers to entry
- Level playing field
- Aligned to national issues
- Rapid success/failure cycle



India is optimizing to empower problem solvers. Startups will be the force multiplier to catapult the country into a USD 10 Trillion economy

Join the conversation on Twitter with @TVMohandasPai and @3one4Capital

Thank You

TV Mohandas Pai

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