# Indus Valley Annual Report 2022

**Sajith Pai** Pune International Centre 11th May 2022





# **Section I: Understanding India**

Section II: Understanding Indus Valley

Section III: State of the Valley 2021



# India in one tweet

QR codes for traffic signal shopping



Guy selling pens at signals using Gpay to accept payments. @peakbengaluru



4:50 PM - Oct 3, 2020 - Twitter for Android

11 Retweets 90 Likes

UPI merchant payments accounted for 43% of POS digital payments in FY21, overtaking credit and debit cards in FY20.

It is now the most universal mode of payments either Peer to Peer or Peer to Merchant. So much so that street and traffic vendors have adopted it.

The pic is a great example of two contradictions in one picture - a world class state of the art payment system, married with a traditionall format of commerce - that of a street vendor.

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Source: Twitter;

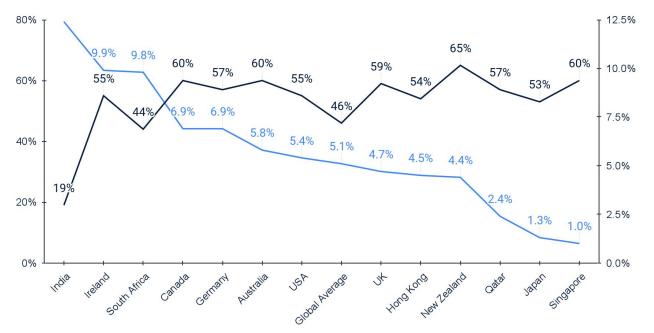


Understanding India through contradictions

# A country of contradictions: women

India has the highest % of women pilots (of total pilots) globally but also a low & declining female labour participation rate.

## Female Airline Pilots and Female Labor-force Participation Rate

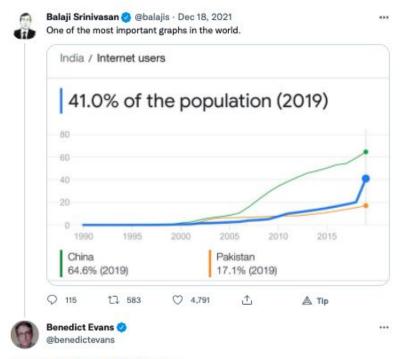


- Female Airline Pilots - Female Labor-force Participation Rate

Source: isa21.org, World Bank;

# 'Give me a single chart to explain Indus Valley's rise'

Jio's entry into telephony through a 4G data first network in '17 expanded Internet access in India dramatically



Replying to @balajis and @Seb\_Vaessen

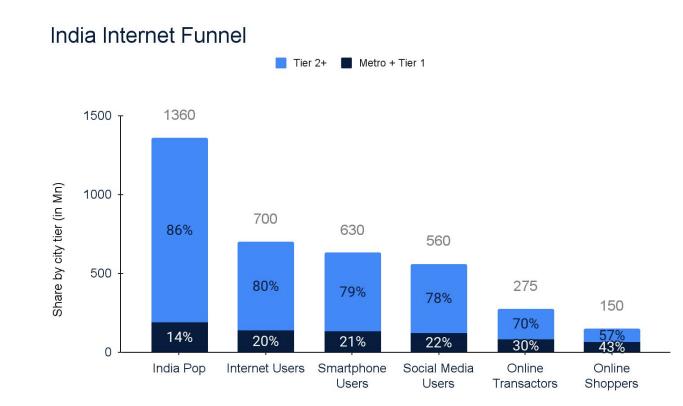
Amazing what a fight between two brothers straight out of a daytime soap opera can do for humanity ;)

8:23 PM · Dec 18, 2021 · Twitterrific for iOS



# Not all internet users are alike, though

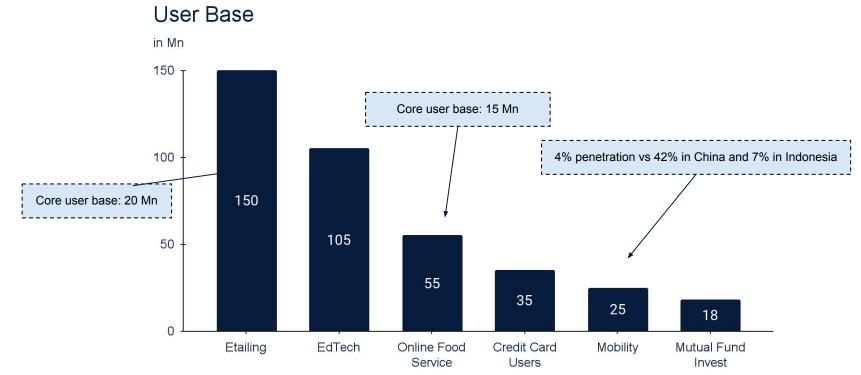
Just over a tenth of Indians have shopped online, ever, compared to USA's ~60%, China ~50%.





# How the user bases for other categories stack up

Frequent users tend to be anywhere from a quarter to a seventh of the user base.

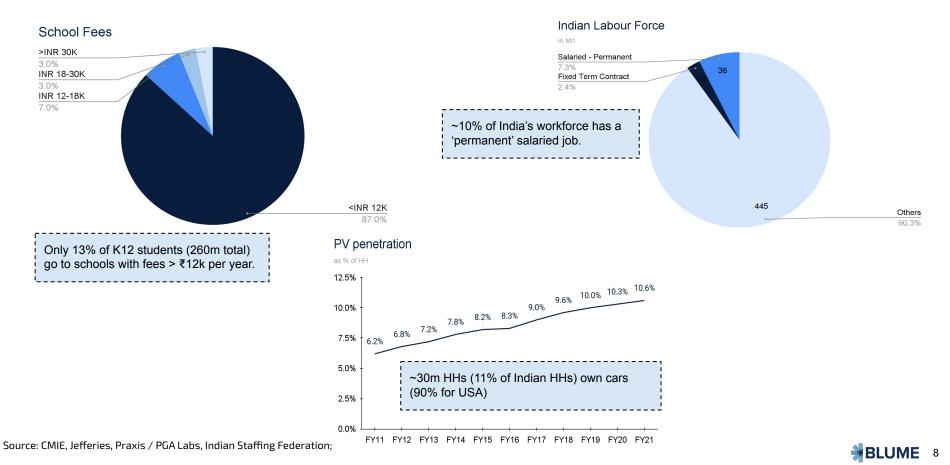


Source: Secondary research;

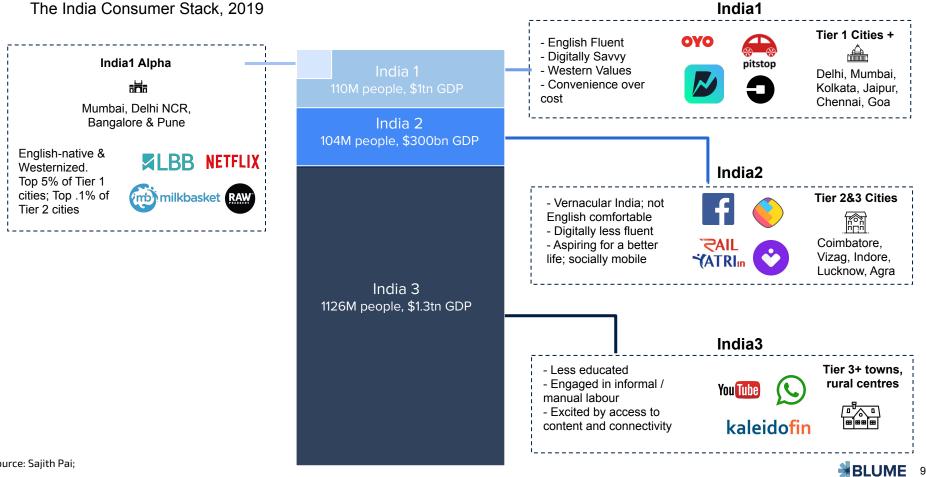


## A slim, growing consuming class sustains the Indian consumption story

The consumption class is growing but hasn't exploded the way their peer class in China did.



# How to understand India



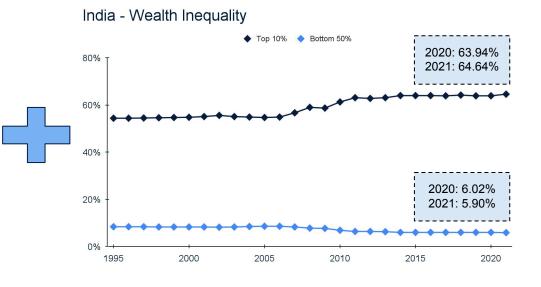
## A tale of two studies

PostCOVID, the rich have gotten richer, the poor have gotten poorer.

## ICE360 Survey, 2021

## World Inequality Report 2022

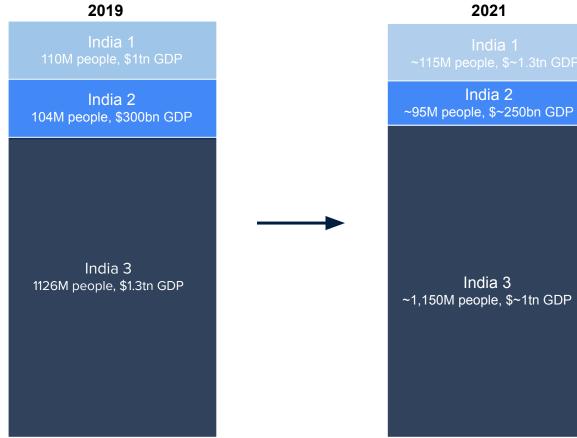
Quintile	Income 2016 vs 2021	
Richest 20%	39% (rise)	
Upper Middle 20%	7% (rise)	
Middle 20%	-9% (drop)	
Lower Middle 20%	-32% (drop)	
Poorest 20%	-53% (drop)	
Ali INDIA	8% rise	



## **BLUME** 10

## The India Consumer Stack, 2021

Reflecting the Matthew Effect<sup>1</sup>



Notes: 1) Matthew Effect ='The rich get richer, the poor get poorer'; Source: Sajith Pai;



# India seen through the 'axes of advancement'

There are 3 traditional paths to social & economic mobility in India: English, Exams and Exit

English

Exams

Exit

Arvind Kejriwal 🥝 @ArvindKeiriwal

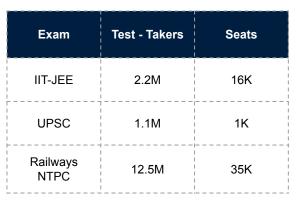
Govt school students mostly come from economically poor backgrounds. When i meet them, this was their biggest demand - sir, hame english bolna sikhwa dijiye. I am so happy this course is now starting for govt school students.

#### दिल्ली सरकार अपने स्कलों के छात्रों से स्पाकन डाग्लश कास के लिए नामांकन आमंत्रित करता शिक्षा निदेशालय ने अपने छात्रों के स्पोकन इंग्लिश सिकल्स को बढाने के लिए ब्रिटिश काउंसिल, इंडिय मैकमिलन एज्केशन, अकादमी फॉर कंप्यूटर्स ट्रेनिंग (गुजरात) और ट्रिनिटी कॉलेज लंदन से सहयोग लिया है। यदि आप शिक्षा निदेशालय द्वारा संचालित स्कूल के नियमित छात्र हैं तथा कुछा 10 बोर्ड परीक्षा में शामि हए हैं और प्री-बोर्ड परीक्षा में अंग्रेजी सहित तीन विषयों में पास हए हैं, तो आप विशेष स्पोकन इंग्लिश कोर्स में पाकित्य लोने के पाय हैं। वह कोर्स जून, 2018 से शिक्षा निदेशालव के चुने हुए स्कूलों में इन जाने माने संगठनों के प्रशिक्षित अध्यापकों द्वारा आयोजित किया जाएगा। अधिक जानकारी और नामांकन हेत अपने विद्यालय प्रमख से संपर्क करें नामांकन की अंतिम तिथि-23 मई, 2018 रिक्ली सरका शिक्षा निदेशालय ाष्टीय राजधानी क्षेत्र, दिल्ली सरकार मनीष सि

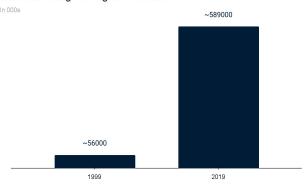
10:42 AM · May 20, 2018 · Twitter for iPhone ...hame English bolna sikhwa dijiye.' India is a nation of 60m test-takers, ranging from Indians going abroad has grown 10x over the translated to "....help us learn spoken English." UG admission to government jobs of every kind. past two decades and is gathering pace

Enterprise has historically been the weak fourth amongst these; but has typically been associated w the MSME sector thus far.

## **BLUME** 12







# Government jobs are few, hard to get, but well paid

This explains why young men (mostly) spend their 20s preparing for exams, and rioting when the exams get postponed.

#### What is your salary? Are you happy with it?

#### Naveen Kumar · Follow Track Maintainer at Indian Railways (2017–present) ·

Updated Jan 14

I am a trackmaintainer 4 in indian railways I got 32000 salary per month after deduction and I am very happy I have to do 8 hours duty per day with one day weekly rest I got my salary on last day of month if that day is Sunday then I get my salary 2 days before apart from my salary



The main duties of track maintainer is to **take care of track say railway line**. Other than this track maintainer responsibility to maintain track ,removes the rocks and concrete over there on track between some stations which is allocated to him.

gov add 6500 per month in my nps I got 5000 for dress allowance every year also I get 18000 bonus at durgapuja every year my salary will increase by approx 2000 I am very happy I spent 10000 per month in tamilnadu and 22000 send to my mother she is saving for me from last four year I am a village person I have no more expenses but what I like to eat I am eating what I want to dress I take that cloth sorry for my bad English I got this job throug railway recruitment cell chennai



On 10th May 2017 I got this job and my mother and father life increase by 10 years not only I am happy but my whole family happy

735.8K views · View 37,022 upvotes · View 78 shares







#### **COMMON GROUND**

# Inside Patna's exam hub, where a million hopes die every year

Young people spend years to prepare for exams for government jobs. But the number of jobs is dropping and frustrations are boiling over.

Number Theory I Protests over railway jobs are a grim reminder of the state of India's job market

The protests over problems with recruitment for railway jobs in the states of Bihar and Uttar Pradesh, may well be India's first large-scale unemployment riots



Section I: Understanding India

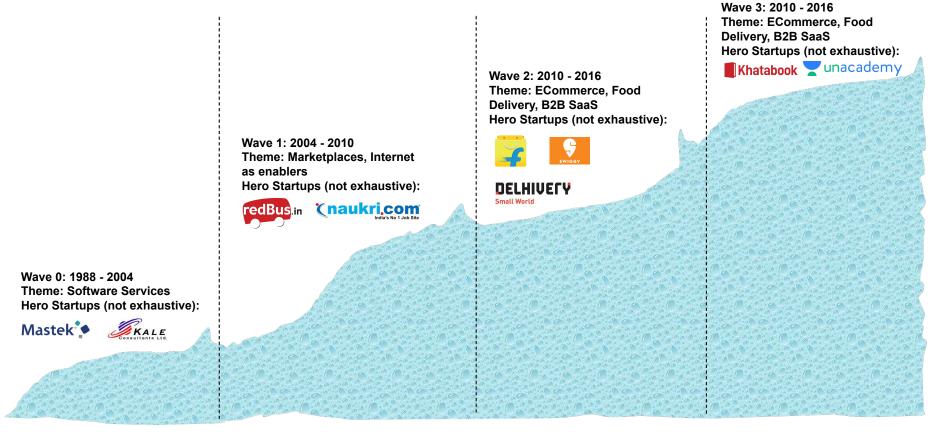
# **Section II: Understanding Indus Valley**

Section III: State of the Valley 2021



# Indus Valley: the prehistory

India's startup sector evolved through distinct phases of tech adoption and customer evolution.



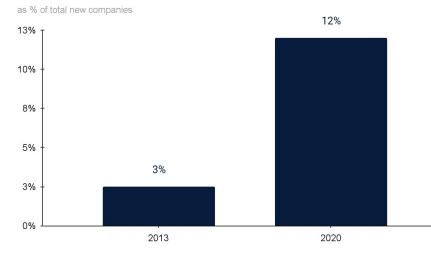
Introduction, Context, Perspective

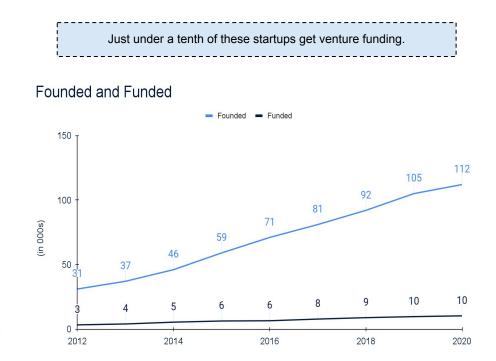
# Indus Valley is no longer at the economic periphery

The # of startups registered annually is a steady line upward, though the actual % that get funded has stayed the same.



## # of Startups





# Startup culture is emerging into the mainstream now

The local Shark Tank, the Zomato & Nykaa IPOs as well as the rise of Unicorns has made startups front page stuff.

# Shark Tank India is Quietly Changing Dinner-Table Conversations for the Better



## I want to be a scientist, says IIT-JEE topper Divy Khare / TNN / Updated: May 19, 2012, 22:14 IST

## JEE Main topper with AIR 1 looks up to Elon Musk and wants to start his own company

We got talking to JEE Main topper Amaiya Singhal, a student of Apeejay School, Noida, who secured AIR 1 in the JEE Main 2021 results. He looks up to Elon Musk and wants to launch his own company in the future.



Roshni Chakrabarty 🕊 New Delhi September 21, 2021 UPDATED: September 21, 2021 18:25 IST



The**Print** 

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Home > National Interest > Arvind Kejriwal's start-up AAP is the political 'Unicorn' of the decade

#### National Interest

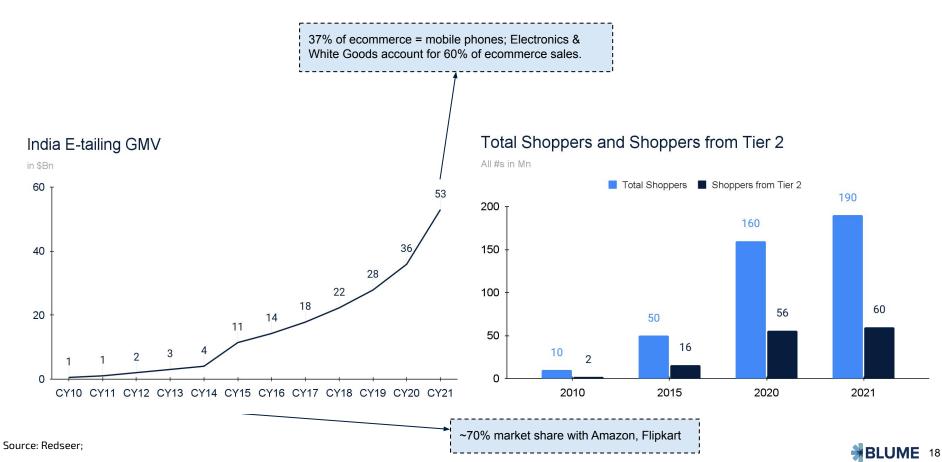
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Arvind Kejriwal's start-up AAP is the political 'Unicorn' of the decade

## **BLUME** 17

# From \$4b in '14 to \$53b in '21

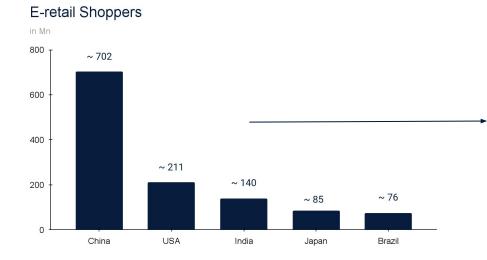
ECommerce / Etailing accounts for ~6% of India's retail sales in '21, doubled from 3% in '19 (US 12%, China 24%)



Indus Valley's impact on eCommerce

## But, all of this rests on a narrow base

A large number of 'ecommerce shoppers' are occasional shoppers





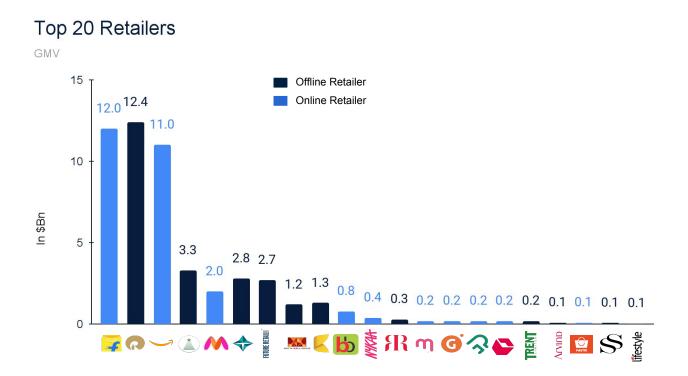
And according to one person I spoke to, in India, Amazon's Prime customers are just 5-7 million users, but account for over 50% of the company's Gross Merchandise Value. This is a small, but extremely valuable base for the company.



Indus Valley's impact on eCommerce

# Indian ecommerce brands have penetrated top retail ranks

4 of the top 10, and 10 of top 20 retail brands are online brands; a key reason being modern retail's low share of ~13%



Source: Redseer;



## **Growth drivers**

# What explains the rise of Indus Valley, and its impact?

The following 'growth drivers' underpin the rise of Indus Valley, and explain its dramatic impact.



Source: Blume analysis;

## **Growth drivers**

## The 'Wang Trifecta'

Jio, UPI and smartphone affordability created a perfect storm for the consumer internet economy.



In 2018, Tony Wang cofounder @agoralO told me that the Chinese consumer app economy took off when 3 things happened

- cheap bandwidth
- a smartphone in every pocket
- a frictionless payment system

Today, we in India have all 3 components of the 'Wang Trifecta'!

10:10 AM · Jan 15, 2022 · Typefully

|| View Tweet activity

4 Retweets 14 Likes

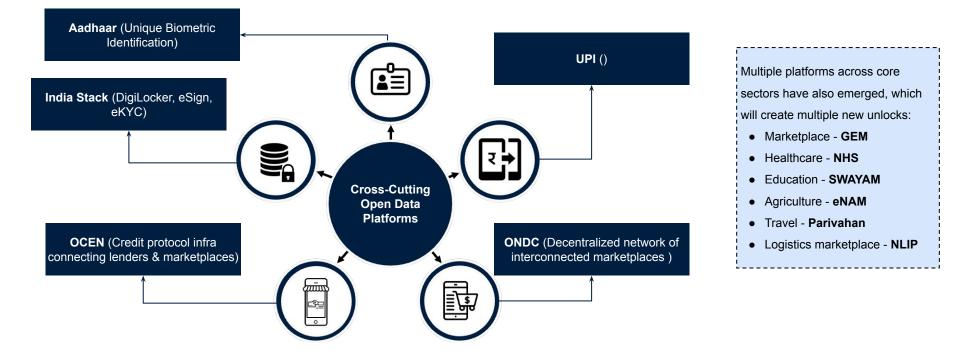




## **Growth drivers**

# **Public digital infrastructure**

Across multiple ecosystems, multiple data and interoperability platforms are emerging and could create new unlocks





**Section I: Understanding India** 

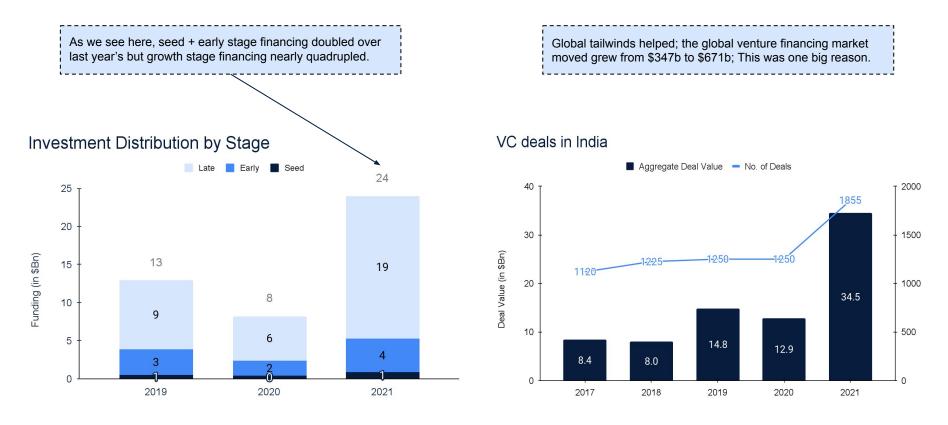
Section II: Understanding Indus Valley

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# A year of records

2021 saw startups raise 3x the number they raised in 2020. Much of the funding (~60%) went to the 42 unicorns minted in '21.

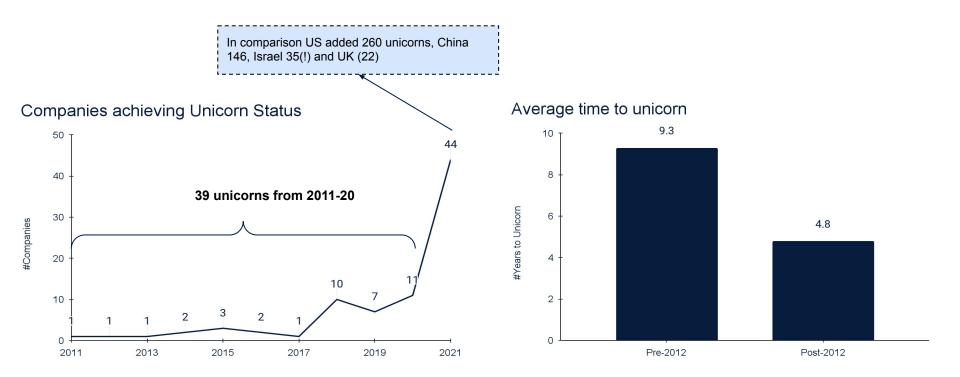


## BLUME 25

How the startup sector stacked in 2021

# India birthed more unicorns in '21 than all previous years together

The pace has continued in '22 as well (12 by 7-March-2022)



Source: Inc42 Indian Unicorn Tracker, RedSeer;



# Exit signs

Tech IPOs, from Zomato, Nykaa, PayTM, created buzz and excitement in a booming IPO market

2021 saw the emergence of the Tech IPO; SEBI (India's SEC) relaxed rules allowing loss-making companies to list.

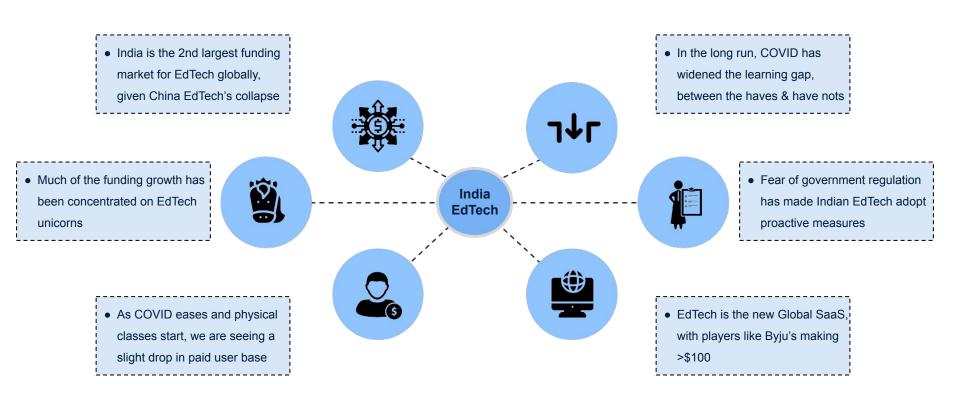
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## A closer look at EdTech

EdTech was the hero sector of 2020 with a huge COVID bump; How did this sector do in 2021?



## **BLUME** 28

# Building in the shadow of giants

EdTech biggies, loaded on capital, are chasing inorganic growth through M&A



Source: Secondary research;



# Zoom School: India1 v India2

India2 has struggled to keep up with digital education



Via Kaushik Deka (from his story in India Today)

Malhar Mazumdar, a Class 9 student at the Mother's International School in New Delhi, attending an online class at home in Saket (an upper middle class neighbourhood in South Delhi).



Via *Chitra Pandit* (leads fundraising at Akanksha, a leading edtech nonprofit)

"I had the opportunity to visit the home of a child who is enrolled in Junior Kindergarten in an Akanksha School. The child has never seen the inside of a school building. In just under 6 months, with the help of online classes with an Akanksha teacher and his mother, he has been able to write the English alphabet. His mother sits with him for every online class and diligently follows the teachers instructions."

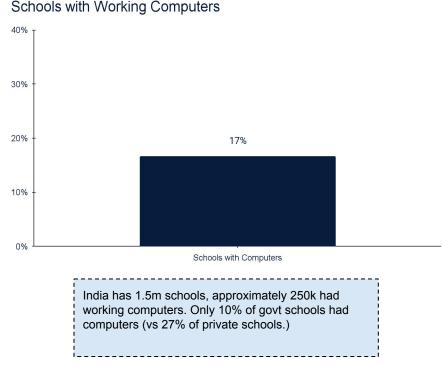


# **COVID** accentuated the digital divide

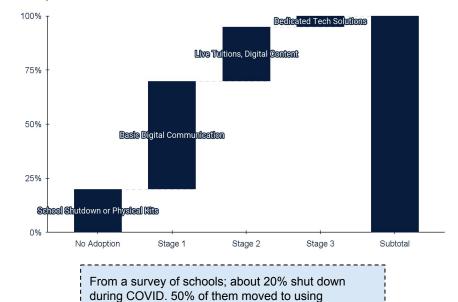
PreCOVID, barely a sixth of Indian schools, mostly private ones, had working computers. Still, Indian schools adapted.

PreCOVID

PostCOVID



## Adoption of Tech in Schools



whatsapp + smartphone (no live classes though) mode. Indian schools adapted by and large.

Source: RedSeer;

## **BLUME** 31

# The digital divide is accentuating the learning divide

Data from a survey done in government / public schools reveals learning loss.

92% of children on an average have lost at least one specific language ability from the previous year across all classes.

82% of children on an average have lost at least one specific mathematical ability from the previous year across all classes



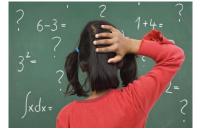
## Class 3

**46%** of children lost the ability to express views about a given picture in written form.

# Province and the second second

## Class 6

**45%** of the children lost the ability to orally express views on simple topics like home and school.



**48%** of children lost the ability to solve problems problems using subtraction operations in daily life operations.



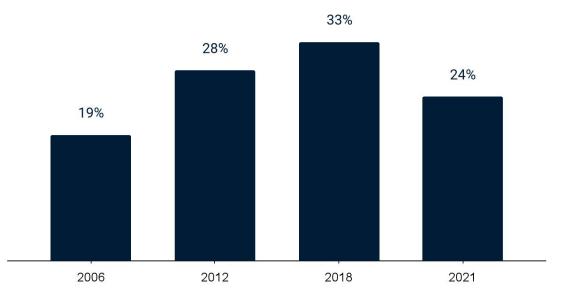
**40%** of the children lost the ability to perform division of four-digit numbers by a single-digit number.



# A sharp shift away from private schools

Despite poor facilities at government schools, we saw a sharp jump in enrollment, spurred by COVID's impact on incomes.

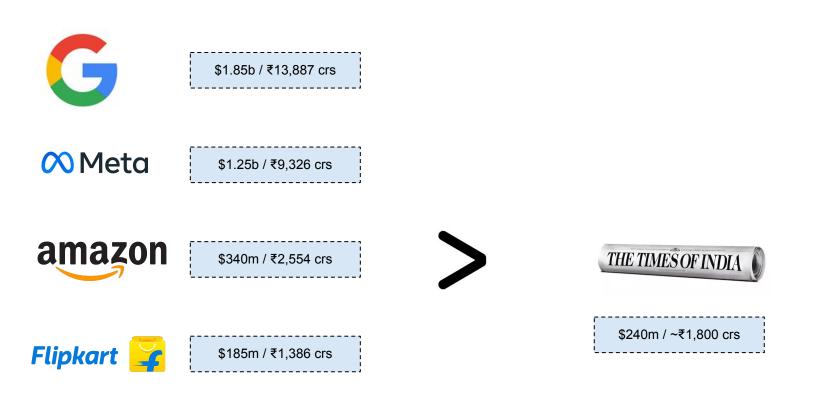
## Private School Enrollment: 6-14 YOs from Rural Areas





# India's #3 and #4 digital ad platforms aren't media brands, really

Amazon, Flipkart emerge as the fastest growing digital ad platforms. Amazon sells more ads than Times of India print edition.





**Regulating the unregulatable** Mixed signals from the India government + favourable Dubai tax / crypto regime push Indian founders to Dubai. Meanwhile Indian retail and financial investors can't tire of Crypto.

Business Insider India 🔤 🥝 @Bilndia

Taxing #cryptocurrencies does not give them legal status, clarifies India's finance minister

businessinsider.in/cryptocurrency...

By @pabsgill



ish.eth #hiring @ishgoel

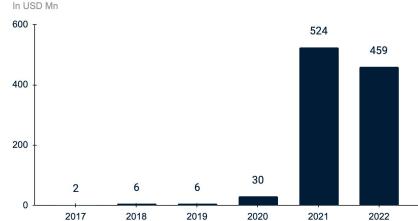
There are 36 Indian crypto entrepreneurs (I know of) who are in Dubai this week.

Just mind boggling how crazy of an Indian ecosystem has been created around crypto.

It's all happening.

9:40 AM · Oct 14, 2021 · Twitter for iPhone





# Why Crypto Cos are **On a Flight to Dubai**

An RBI circular barring banks from dealing with crypto assets and regulatory ambiguity had earlier forced many cryptocurrency firms to shift base to Dubai and Singapore. Now, a restrictive tax and policy flip-flops may make others follow suit. Vinod Mahanta analyses the trend

> Reserve Bank of India governor chief delivered a stark warning against investing in cryptocurrencies, saying they lacked the underlying value of even a tulip - in a reference to a speculative bubble that gripped the Netherlands in the 17th Century.



## **Everyone is a VC**

Easy access to capital in the landscape has led to multiple components of the ecosystem becoming operators - investors

	Unicorns as Quasi - Funds	Startups Setting Up Formal Funds	Startups as Roll-Up-Funds	Founders as Angel Investors
What?	Dedicated M&A teams in unicorn startups, on the lookout for acquiring startups/ teams that are complementary / adjacent to their core business.	Dedicated funds set up by startups, which invest in synergistic startups and help them innovate, launch, and scale. It also helps startups quickly validate their products.	Roll-up ecommerce or aggregators have raised millions to acquire digitally native brands and sellers. They offer digital hand-holding and sales know-how to these brands.	Founders of unicorn startups have started to deploy capital in multiple startups. They thus guide new founders basis their own rich operating experience.
Who?	zomato	ARazorpay meengage Rainmatter Lenskart	GlobalBees	
Examples?	PrepLadder ♪ happay	smallcase State	KARAGIRI	COINSWITCH KUBER

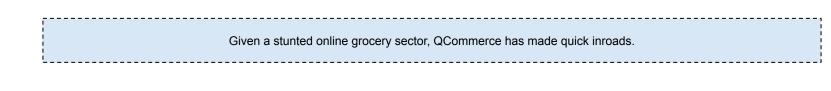
Source: Blume analysis, Inc42;

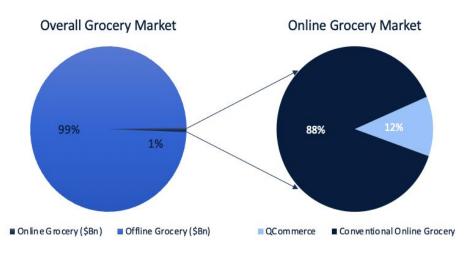
## BLUME 36

Trends, Behaviors, and Playbooks

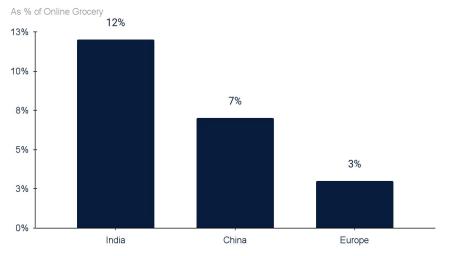
# **Quick commerce: can it deliver?**

Quick commerce was one of the most talked about sectors this year, as the 10-min grocery delivery wars came to India.





Penetration of Quick Commerce



Source: Redseer;

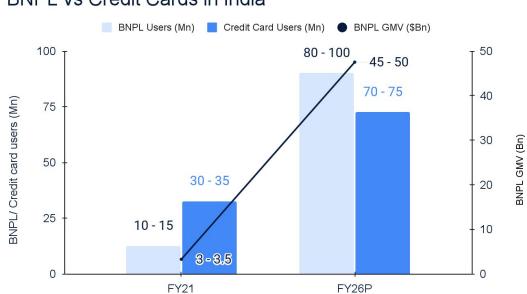


Trends, Behaviors, and Playbooks

# Leapfrogging - example #1: BNPL vs Credit Cards

Credit cards will grow, but BNPL may just grow faster

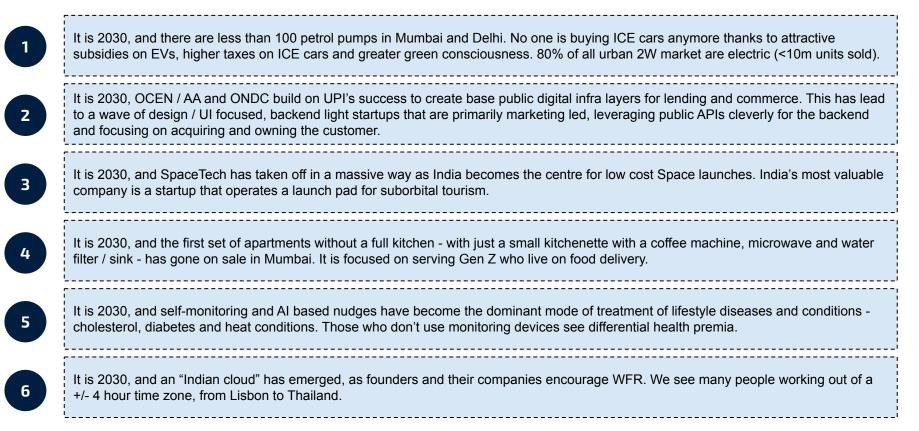
While the credit card industry has been growing at an impressive 15% CAGR, the overall low credit card penetration, stellar growth of UPI, India's traditional comfort with credit and convenience, has left a substantial whitespace for BNPL to prosper. Here is a projection by Redseer on BNPL overtaking Credit Cards.



## BNPL vs Credit Cards in India

# Six impossible things?

We put our thinking caps to imagine the most outrageous but possible predictions in regards to the startup ecosystem.



## BLUME 39

# Thank You!



# Appendix



#### **Observed Themes**

# Resources to help you better understand today's India

## The following books are extremely useful to understand India and Indians today

- Poor Economics Abhijit Banerjee and Esther Duflo
- Desperately Seeking Shah Rukh Shrayana Bhattacharya
- Truck de India! A Hitchhiker's guide to Hindustan Rajat Ubhayakar
- Whole Numbers and Half Truths Rukmini S
- Dreamers Snigdha Poonam
- A Feast of Vultures Josy Joseph

## The following books are helpful to understand how the Indian economy and society evolved

- India Unbound Gurcharan Das
- India after Gandhi Ramchandra Guha
- Two novels: A Suitable Boy by Vikram Seth and A Fine Balance by Rohinton Mistry

## The following podcasts help make sense of India today

- The Seen & The Unseen Amit Varma
- Ideas of India Shruti Rajagopalan

