

# THE 'CASHLESS UNIVERSAL TOKEN SYSTEM' :

A Token Based Revolution For **Small**  
Transactions

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**Team :** No Deadlines

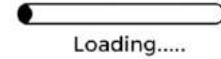
# MISSION STATEMENT

Revolutionize small scale transactions through a **safe, secure and easy to use** NFC Token based system - The **CUTS** System.

GOT INTO A FIGHT  
WITH THE AUTO  
GUY - *AGAIN?*



NEED TO PAY  
*EXACTLY* 58 BUT  
NET DECIDES TO  
GO AWOL?



DO YOUR  
GRANDPARENTS ALSO  
STRUGGLE WITH  
GIVING CORRECT  
COINS?



EVER FACED A  
PROBLEM WITH  
KEEPING SO MANY  
CHANGES?



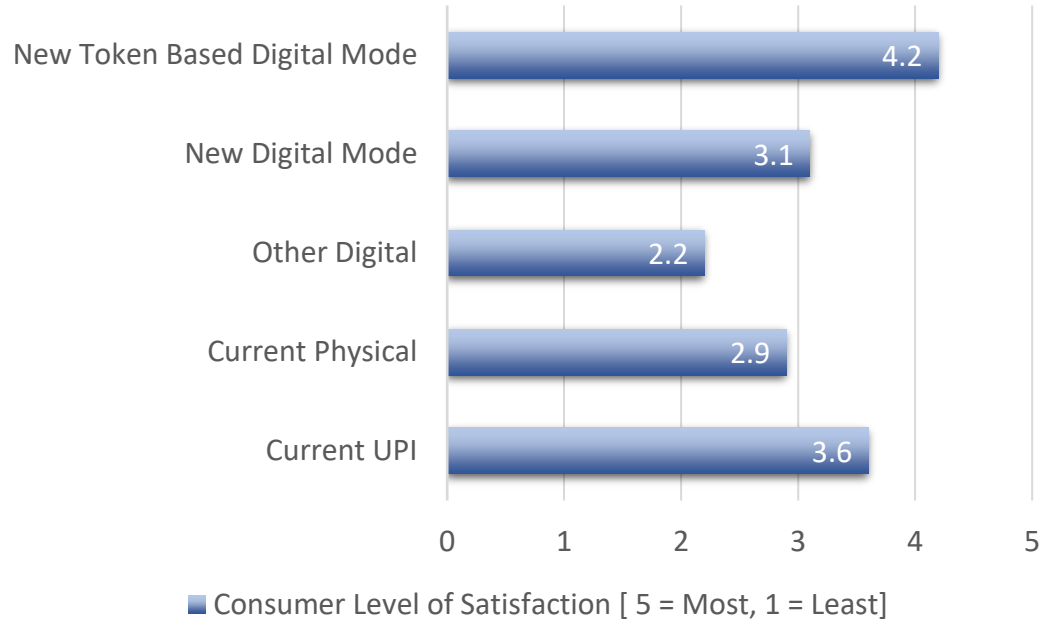
**Is All Of This  
That Bad Of A  
Problem?**

## The Problems - Take One

So this is how it goes - you go to buy something. It costs 17 Rupees. You wait in line and hustle with 10 people to get there, and you can't find the exact change so you bring out a crumpled Rs. 20 note and return with your item, 3 lozenges and a *lot* of swearing.

**The average Indian spends hours hustling through millions to get to their place of work - or rest - everyday. And what's common in this whole thing? Change. A whole lot of change - or more precisely the lack of it.**

### **Consumer Level of Satisfaction [ 5 = Most, 1 = Least]**



# To Summarize

- Cash is just plain *difficult to use*.
- Change is *hard to find*.
- A lot of *time is wasted* - often in precarious situations.
- UPI can't fix your small ticket payments when half the urban part of the nation *doesn't get stable enough internet*.

# The Problems - Take Two

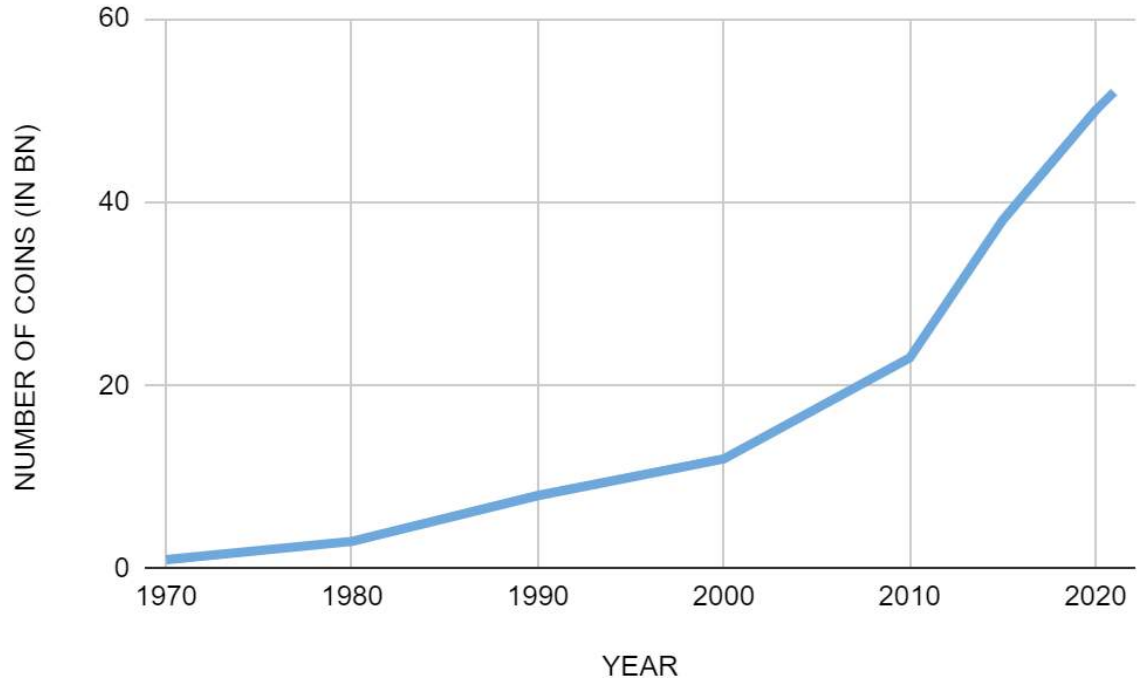
Jokes aside, it stands as no surprise that what we have as our options for transactions doesn't serve us *well enough*.



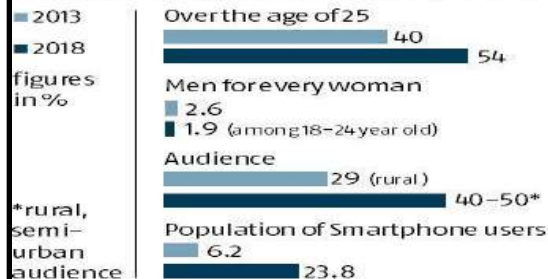
# Production of Coins Over the Years

We produce coins somewhere in the ballpark of 9,000,000,000 - that's *NINE BILLION COINS EVERY YEAR* !

It doesn't come cheap either - At about Rs. 1.5+ *per coin* - For 9 billion and more every year, it's easy to imagine the costs. And that's to say nothing of good old bank notes.

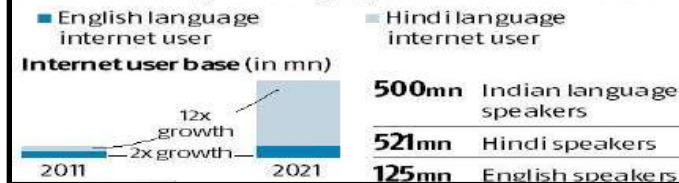


## The evolving digital user: 2013 to present



## Age of non-English language users

Over the next five years, it is expected that 9 out of every 10 new internet users in India are likely to prefer vernacular or regional languages to access the internet



## Bharat is the new face of mobile india

Since 2015, rural india brought 100 mn more people online. The next wave of growth in India's internet population is expected from tier II and tier III cities and rural areas



## Mobile video consumption is inching closer to live TV

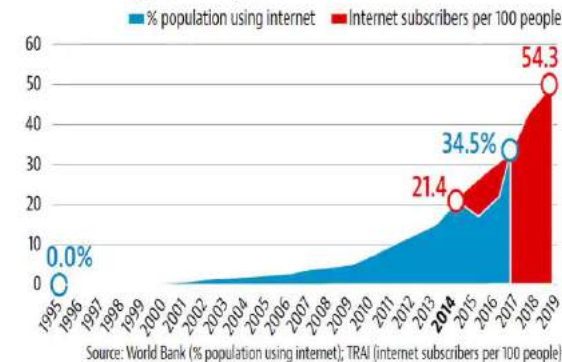
	Smartphone video viewers	Time spent on viewing video
2018	103.5 mn	52 mins
2022	224.7 mn	84 mins

Screen video view timings (in minutes)

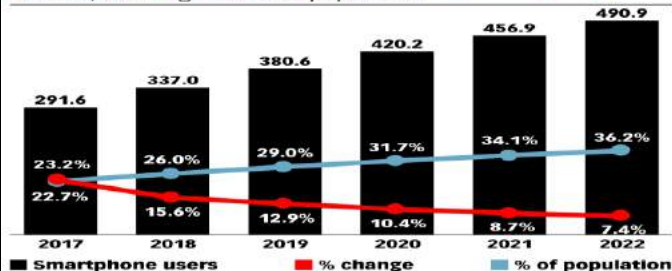
	Live	Smartphone	On demand and TV
India	73	50	37
Global	66	45	22

# Internet has grown but gaps in access remain

**CHART 1** Number of internet users in India has grown significantly in last one decade

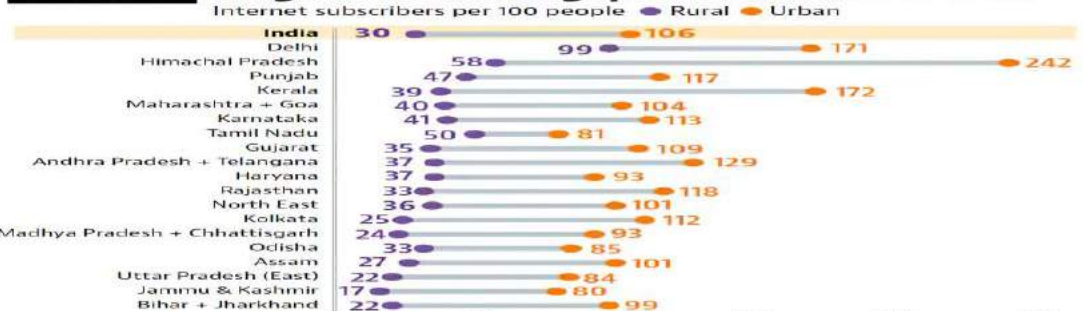


## Smartphone Users and Penetration in India, 2017-2022

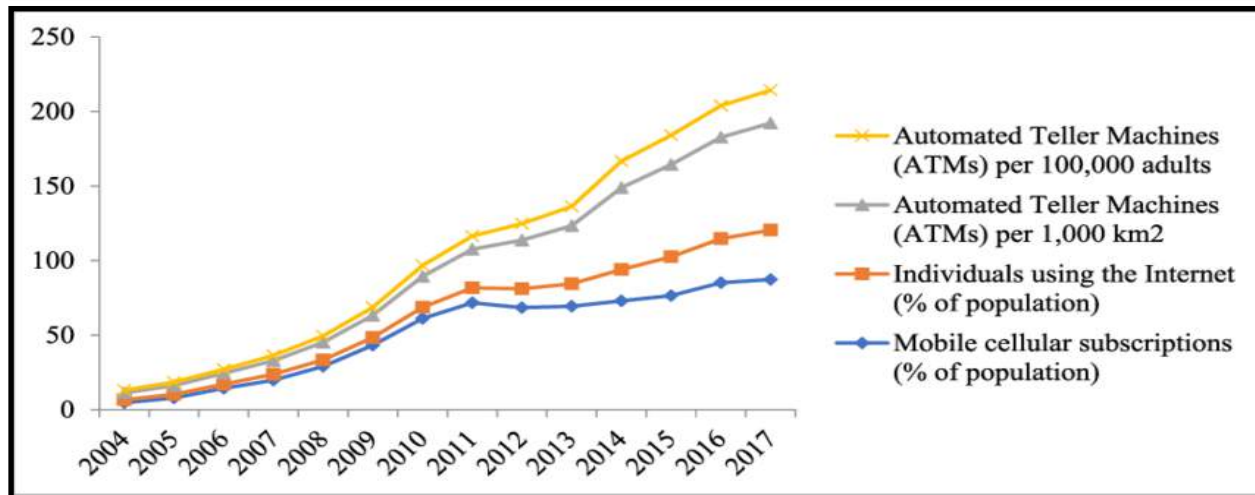
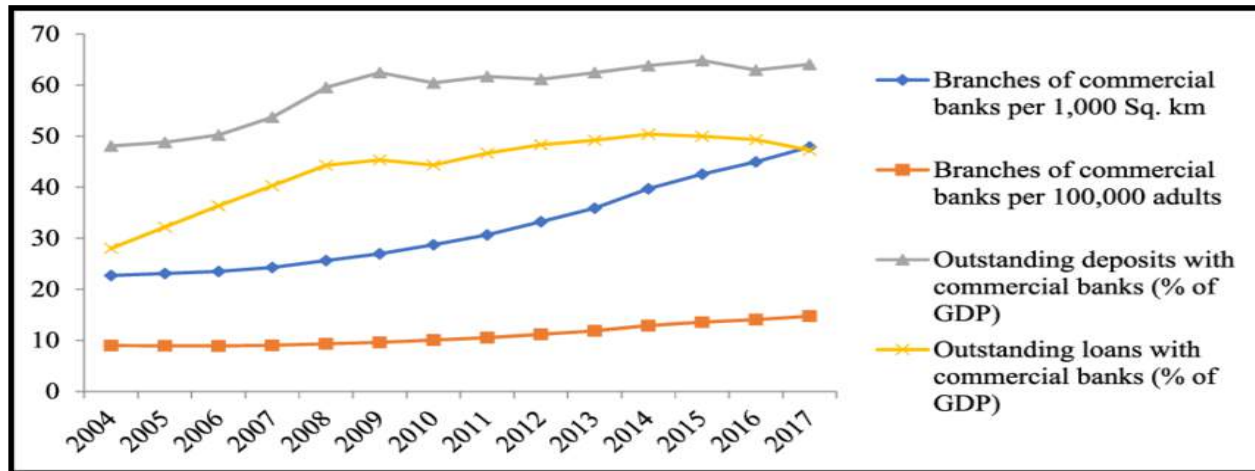


Note: Individuals of any age who own at least one smartphone and use the smartphone(s) at least once per month  
Source: eMarketer, April 2018  
237166 www.eMarketer.com

## CHART 2 Large rural-urban gap in access to internet



Note: Data not given for three telecom circles - Mumbai, Uttar Pradesh (West) and West Bengal (including Sikkim)  
Source: TRAI (as on December 2019)



The Last Two Slides Highlight **Some Of The Prominent Issues** That Lead Us To Our Solution -

1. Poor Network Availability
1. Lack Of Banking Infrastructure

# To Summarize

- You have coins - a lot of coins, a veritable mountain of coins - bulky, quickly depreciating in value and very unsanitary.
- It's a lot of production that serves a self fulfilling prophecy, increasing emissions, causing pollution and needing more of it to sustain itself.

# What's To Gain?

Reduction In Cash  
Based Transactions

Massive Digitization  
Of Transactions



Inclusive And Mass  
Appeal For Everybody

Greener, Safer,  
Reliable Alternative



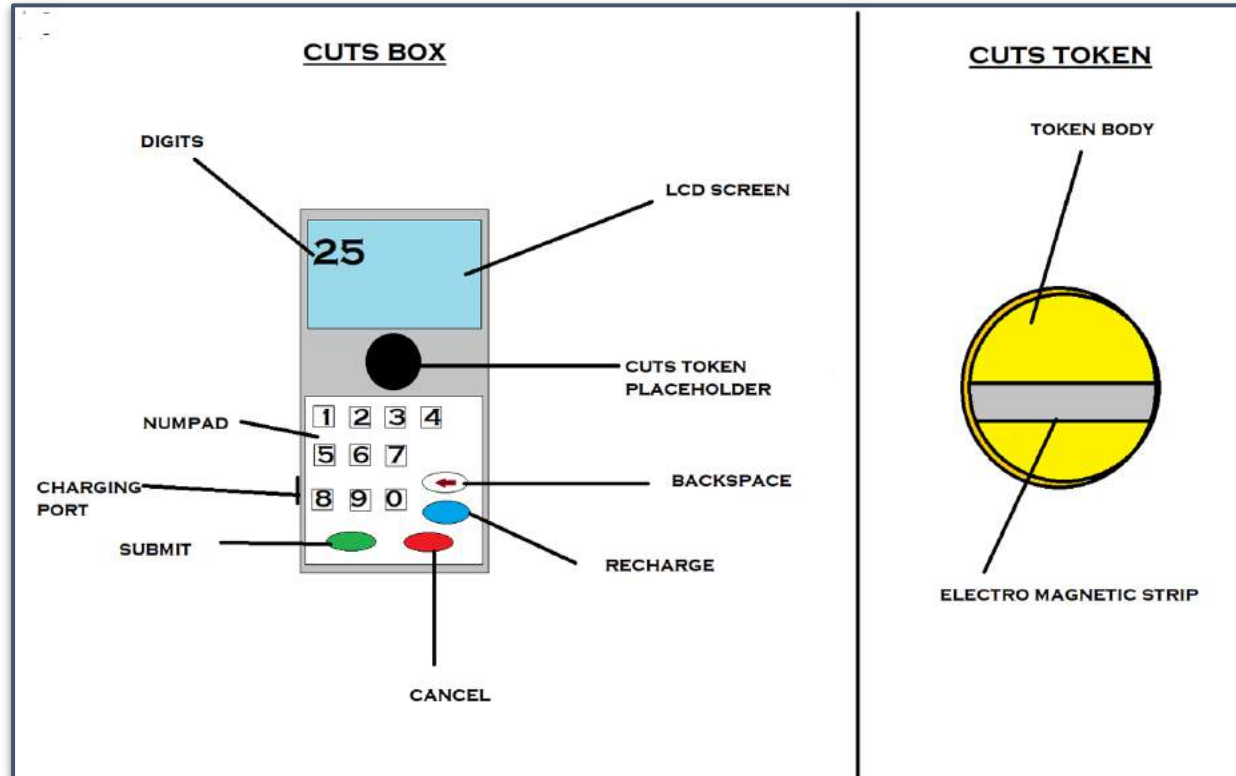
**THAT SEEMS  
CONVINCING...**

**HOW TO  
SOLVE THIS?**

# Cashless Universal Token System

Simple, Safe, Secure

# A Simple Mock-Up





# The Simple Steps To CUT away the hassle - CUTS Token Version

Distribute CUTS  
Tokens

The first 10,000 are on  
us!



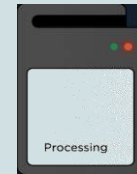
Get Your Token  
Recharged

Find your nearest  
vendor with the  
CUTS Box installed!



Touch And Pay!

Touch, Type, And Carry  
On!



# The Simple Steps To CUT away the hassle - The CUTS Box Version

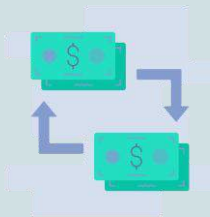
## Get Your CUTS Box

The first 1000 are on us  
- No strings attached !



## Receive Payments

Never worry about  
internet failing on you or  
digging for change



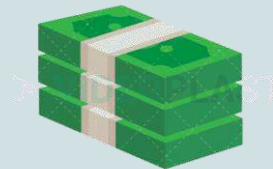
## Recharge CUTS Tokens !

Be the one stop solution  
for everything!



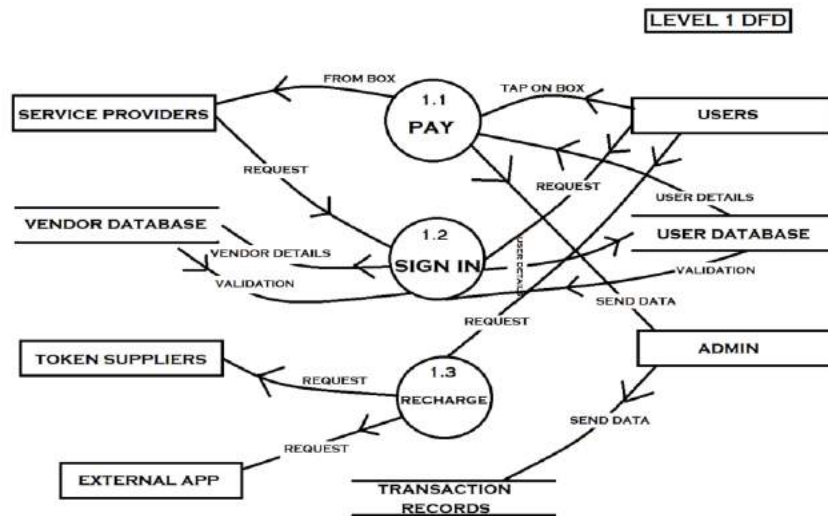
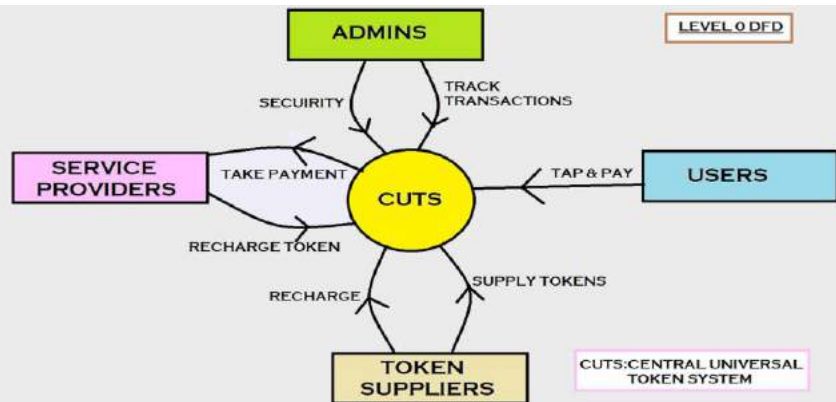
## Bask In Your Profits !

Commission For Each  
Successful Recharge  
Done

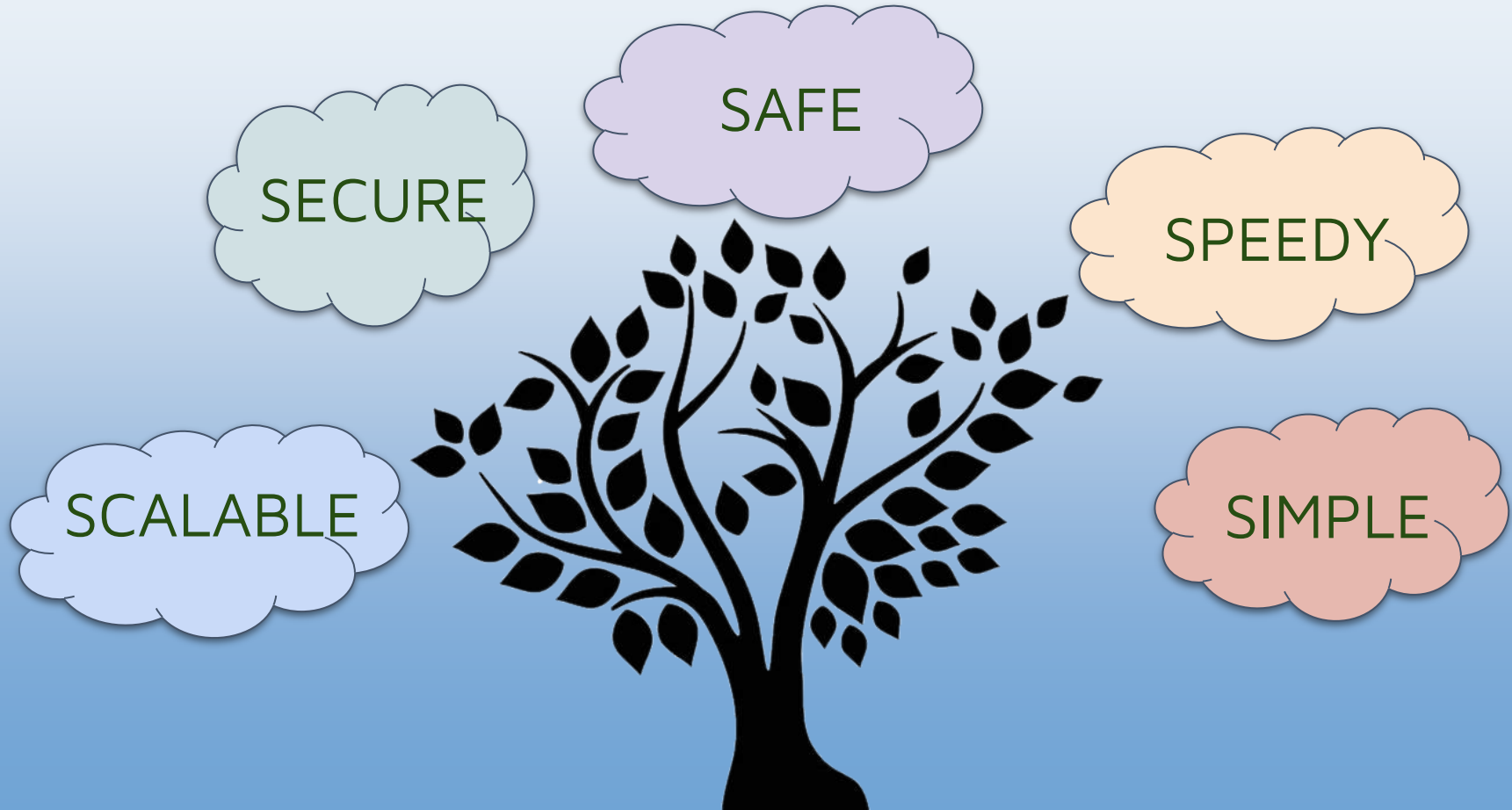


# How This Fits Together

## Under The Hood



# KEY TAKEAWAYS



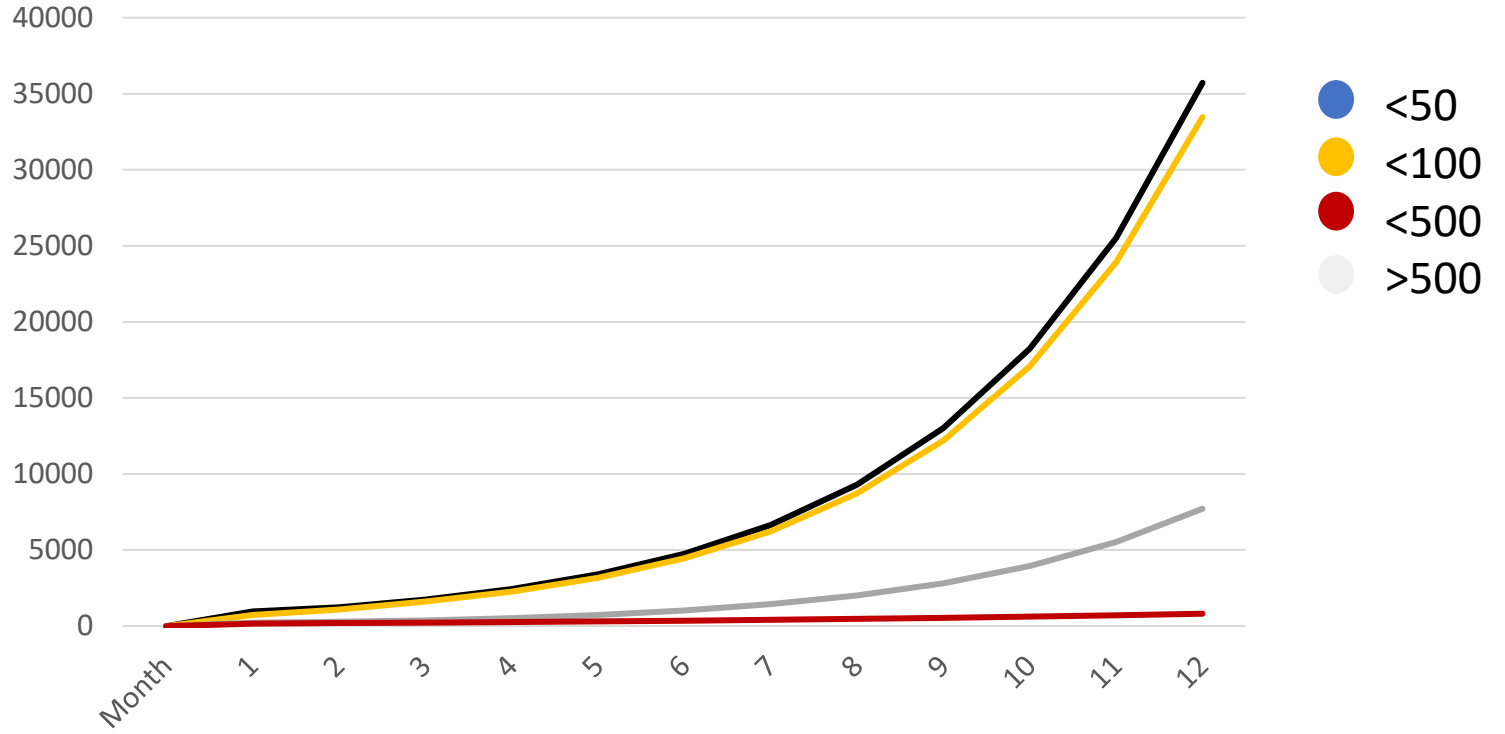
# SOURCES OF REVENUE

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graph TD; A[SOURCES OF REVENUE] --> B[MINIMAL TAX FROM TOKEN RECHARGE(0.5 TO 2 PERCENT)/RECHARGE]; A --> C[SELLING OF CUTS BOX];
```

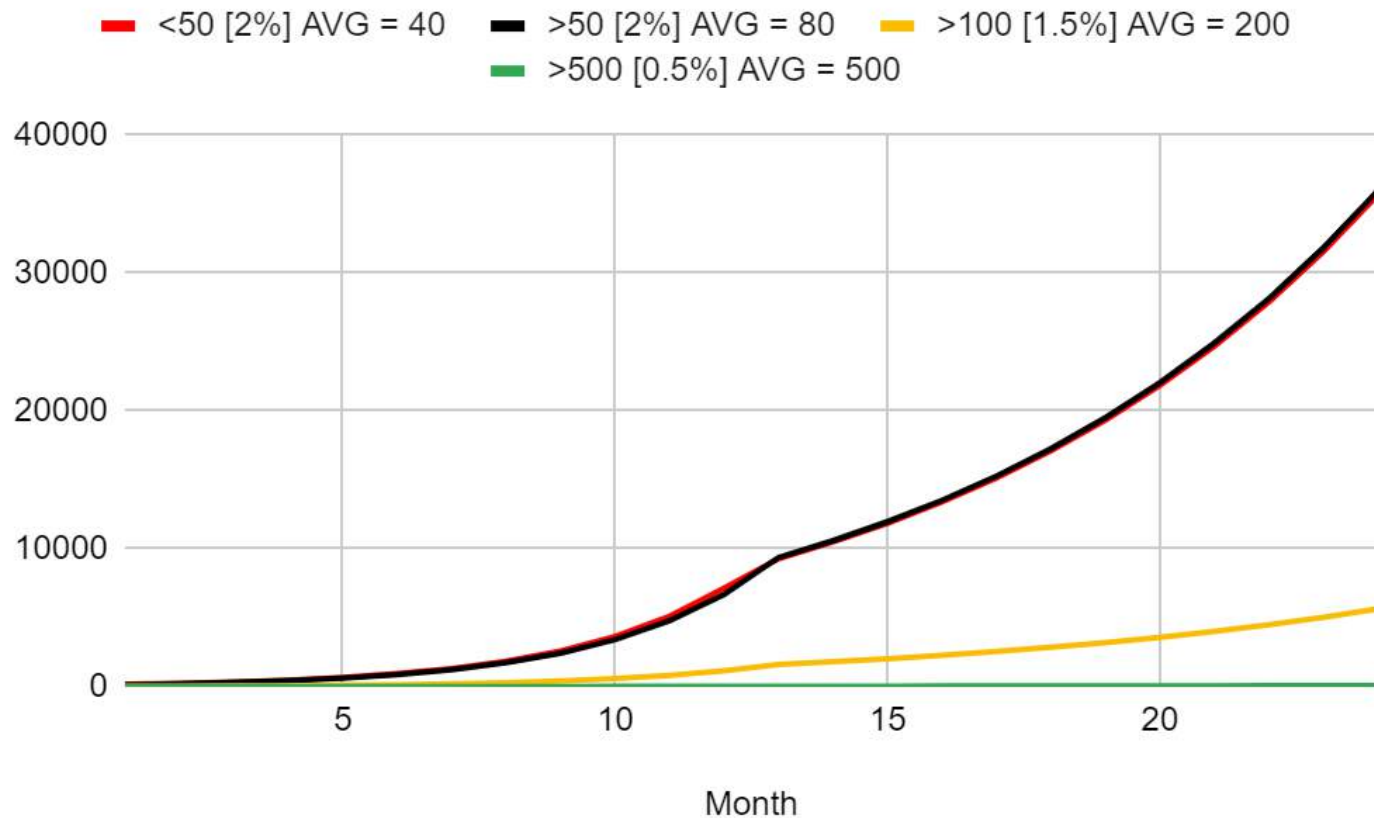
MINIMAL TAX FROM TOKEN  
RECHARGE(0.5 TO 2  
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SELLING OF CUTS BOX

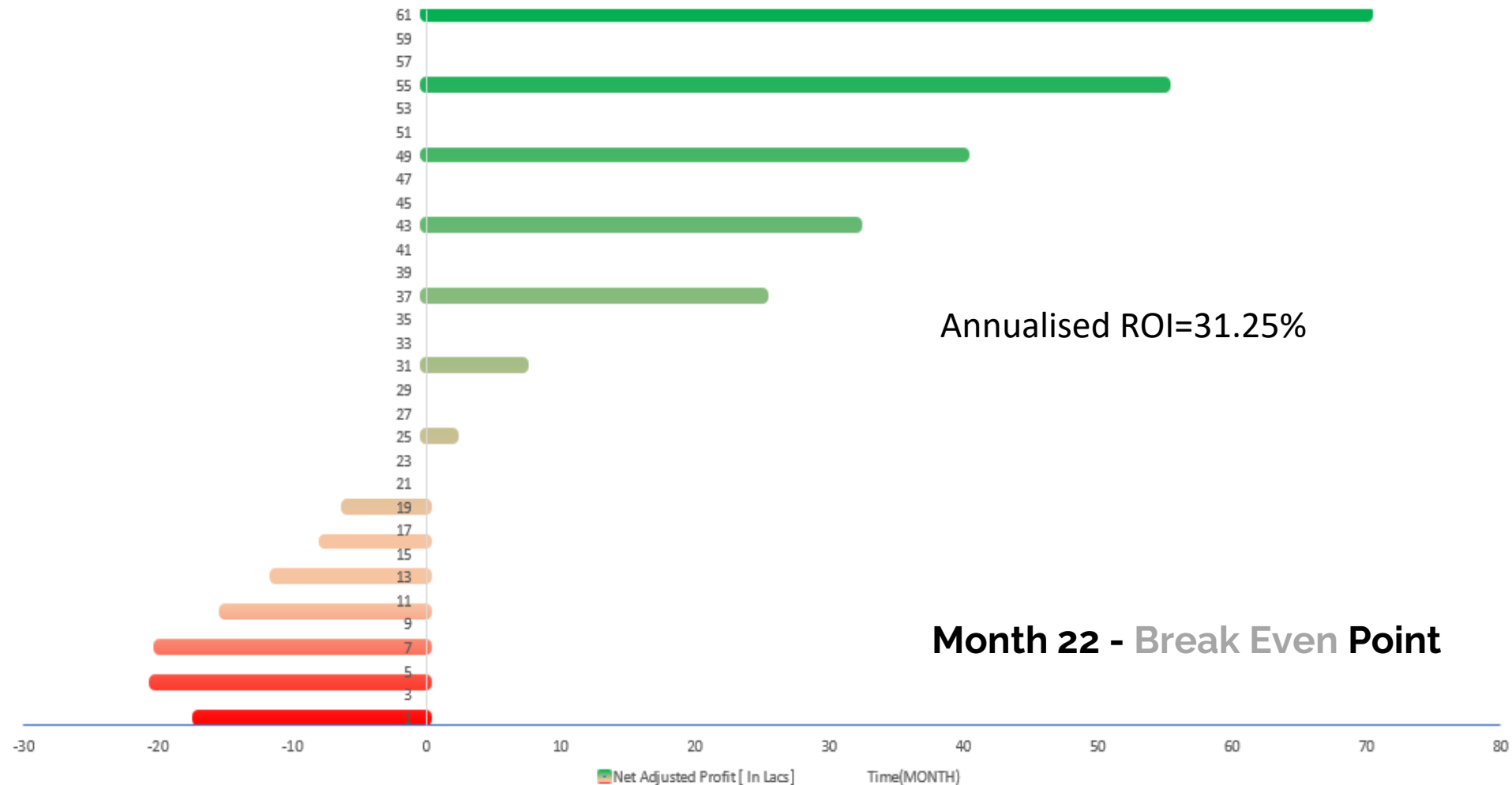
# Number of Recharges Per Month



## ESTIMATED REVENUE PER MONTH FROM TOKEN RECHARGES IN RUPEE



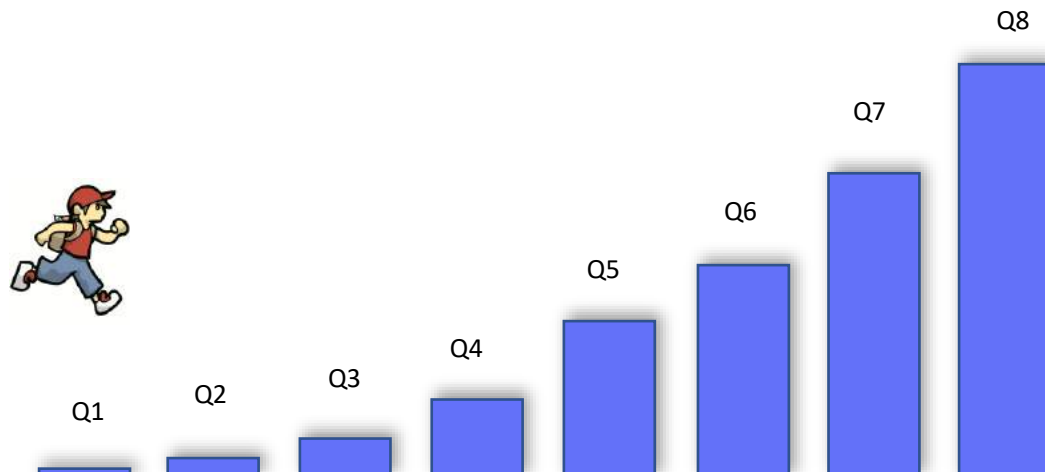
## NET ADJUSTED PROFIT VS TIME IN MONTHS



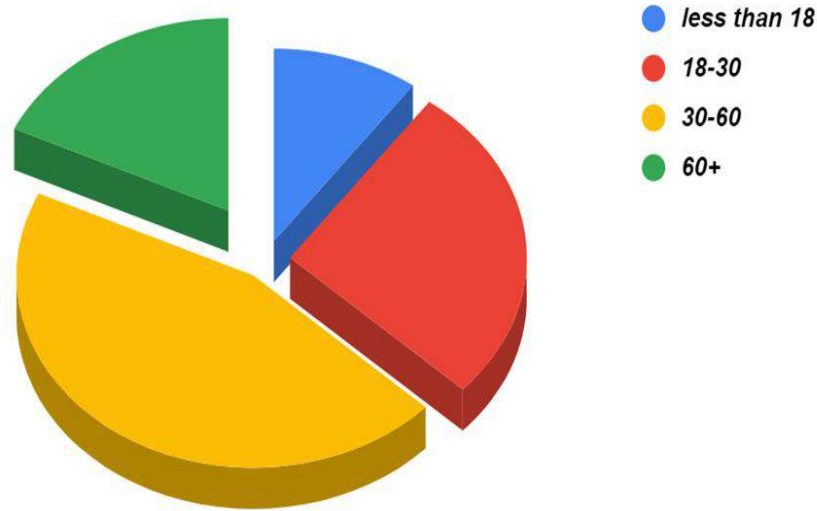


# Revenue Model

13% Per Month | **60% Per Quarter**



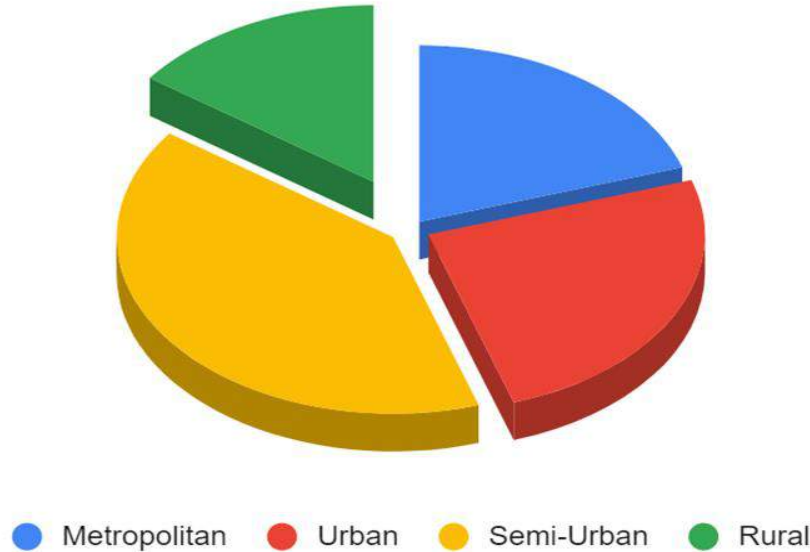
# Expected User Share - Sorted By Age



Although we are targeting every age group, we'd highlight this particular one for a few reasons -

- The elderly often have difficulty using complex modern devices and UPI based systems.
- They're much more likely to have trouble figuring out change needed or being quick enough to pay

# Expected User Share - Sorted By Area Demographics



Here we highlight the rural user base for a few key reasons -

- Internet connectivity is a killer,
- Literacy rates are still poor.
- Knowledge and access to advanced payment interfaces are sketchy at best.
- Cash dominates - and yet, there's seldom a good network of banks or ATMs

TRIVIA TIME		UPI	CUTS
1	Internet Not A Compulsion	✗	✓
2	Literacy Does Not Matter	✗	✓
3	Simple And User Friendly	✗	✓
4	Seamless Integration At A Local Level	✗	✓
5	Remote Transfer, Large Transactions, Distance	✓	✗

# Why **Now**? Why **Our Solution**?

## UNIQUE OFFLINE IMPLEMENTATION

In This Age Of **ALWAYS  
ONLINE** We Aim To Reach  
Everyone - Regardless Of  
Network Coverage Or  
Literacy Levels - With An  
Eye Out For Future  
Integration As The Nation  
Develops



## SIMPLE, ROBUST DESIGN **AIMED FOR THE MASSES**

We Have Designed Our  
Entire System With An Eye  
Out For The **COMMON  
PERSON**

## ONE SMALL STEP TODAY - A **LEAP FOR ALL OF US TOMORROW**

We Have Also Considered  
What The Future Could  
Bring - From **ONLINE  
INTEGRATION** To Much  
More

# Marketing Strategy And Business Modelling

**Phase I** - From Us, To You,  
The People

10K Free CUTS Tokens + Rs  
50 Free Recharge Along  
With 10K CUTS Boxes Free



**Phase II** - People  
Get Familiar

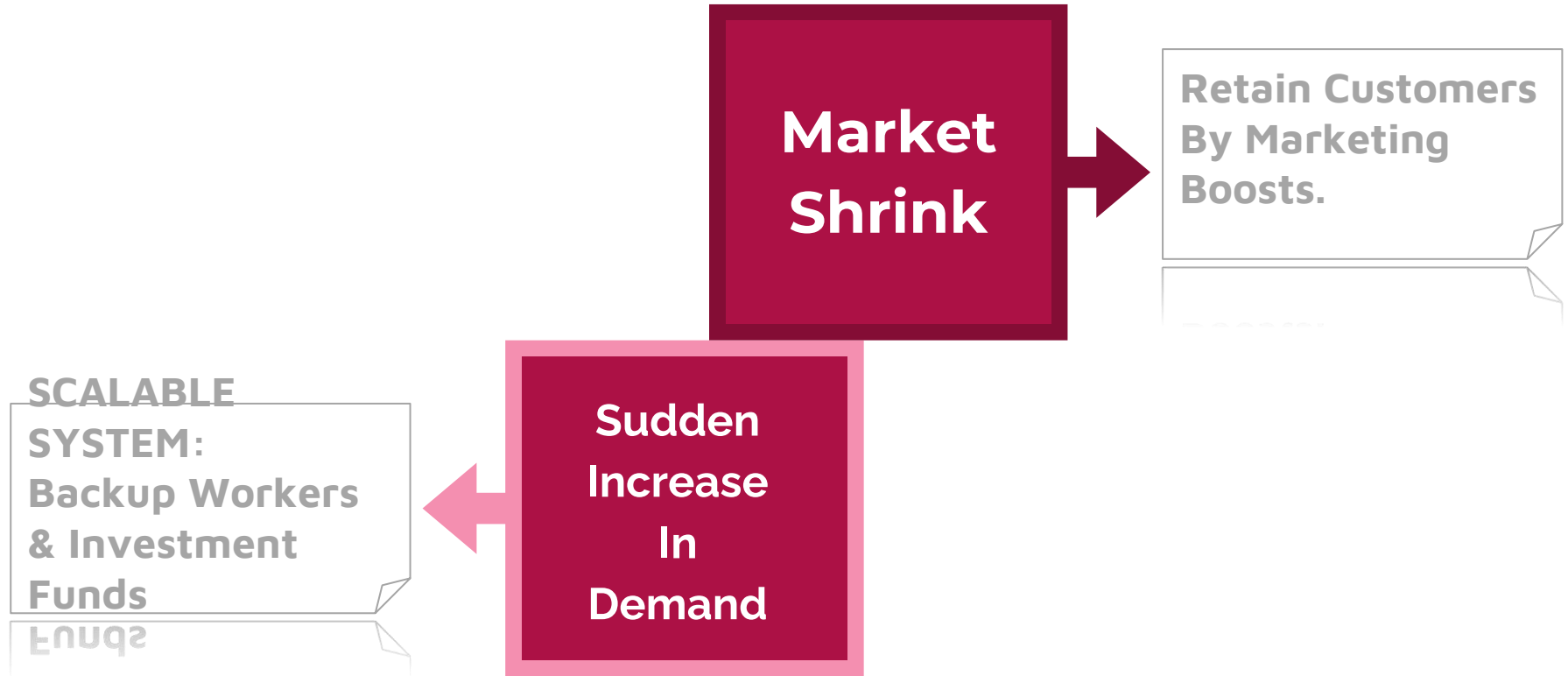
Cashbacks For  
Existing Users +  
CUTS Box Price  
Reduction



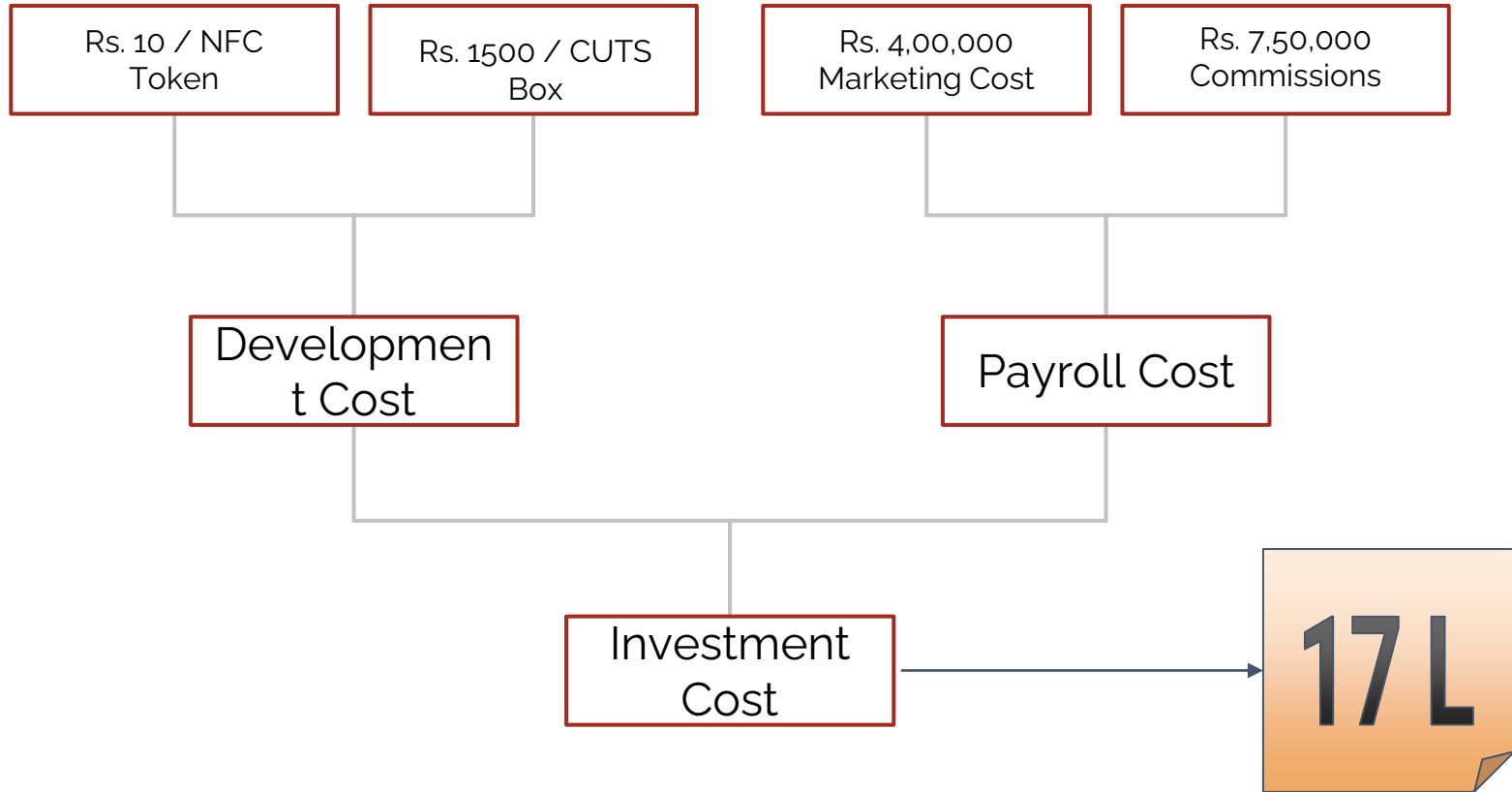
**Phase III** - Rapid Growth And Mass  
Implementation

Advert Runs + App / Online  
Integration For Certain Cases + New  
Location Runs

# Challenges And Obstacles



# The Numbers Game



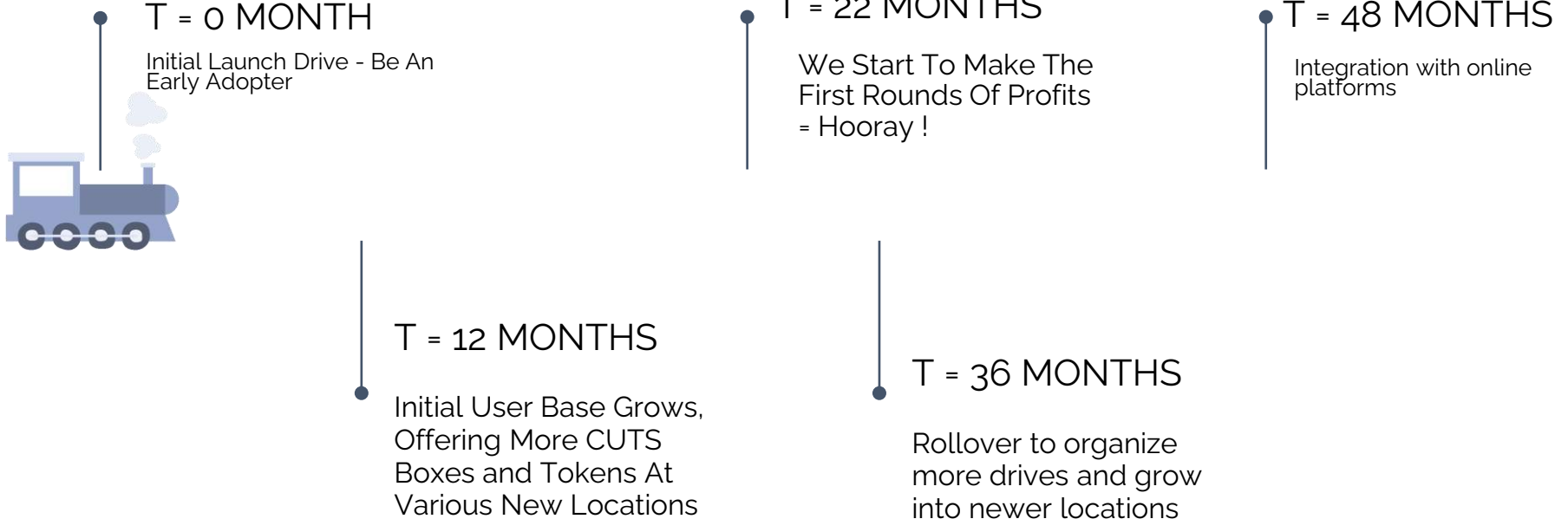




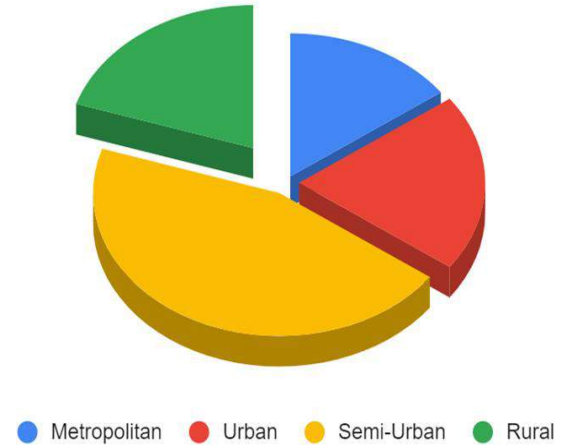
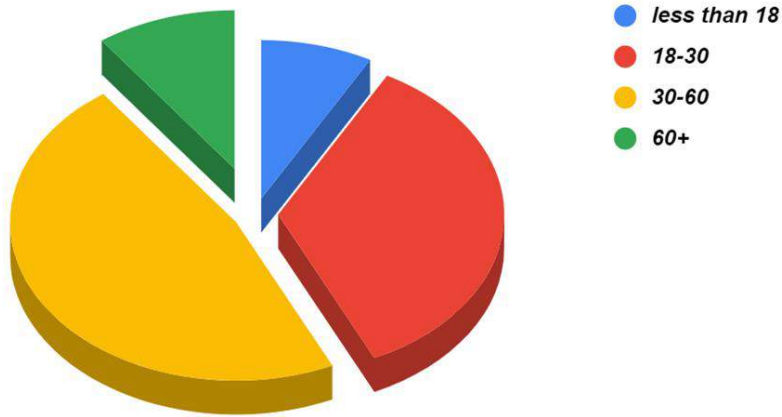
**Now That  
Does Seem  
Like A Better  
Solution!**

# The Road Ahead - How We Expect To Grow And Develop

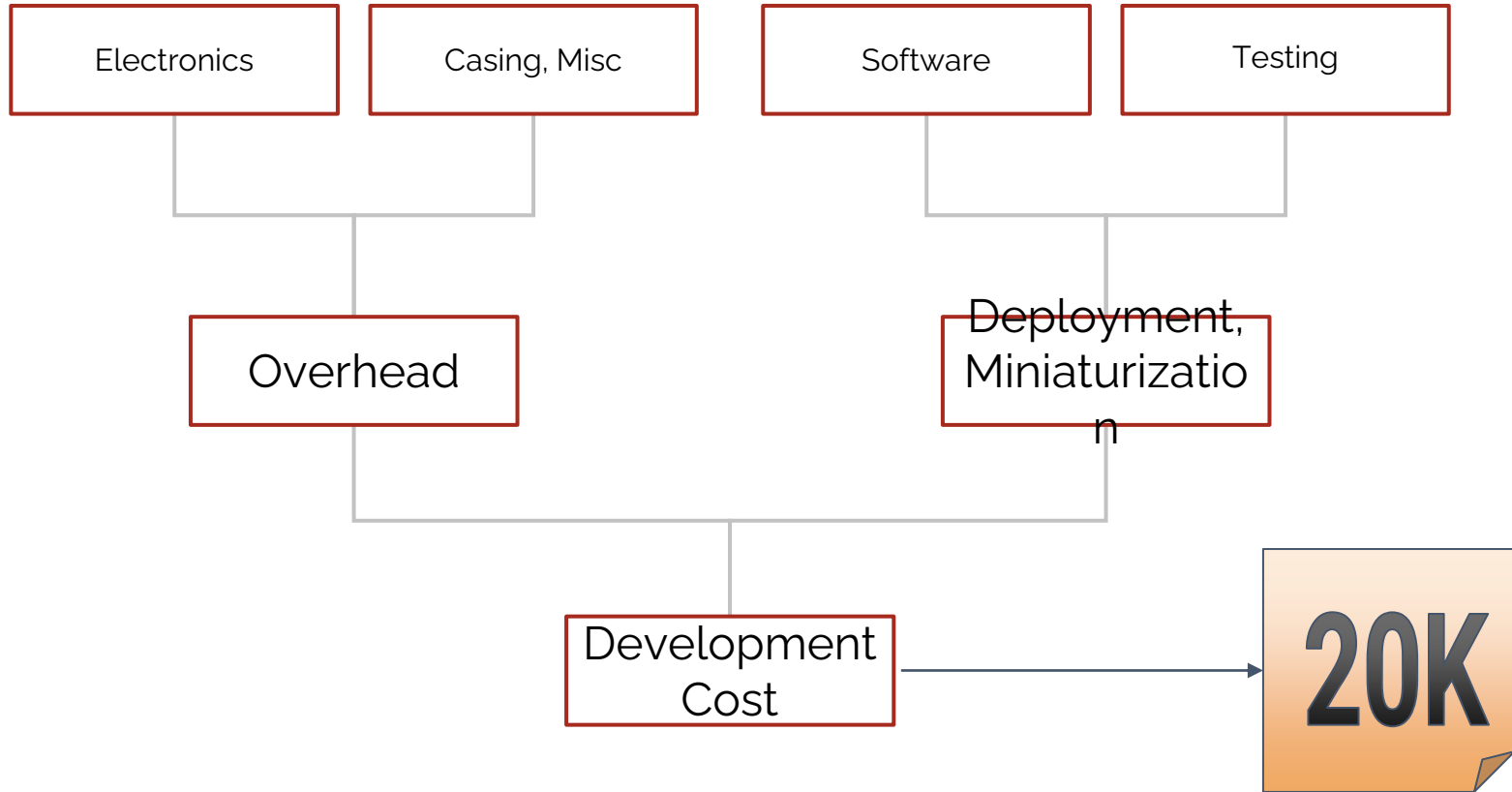
*A Small Roadmap Of Good Things To Come*



# Expected User Share **After 10 years**- Sorted By Age And Area



# Prototype Development Costs



# The Team

Team **No Deadlines** - NSEC



Abhishek Paul |  
CSE | 3rd Year



Rudraneel Bhattacharya |  
ECE | 3rd Year



Abhijoy Shirov  
Mukherjee | IT | 3rd Year



Aparupa  
Chatterjee | ECE | 3rd  
Year

Be A Part Of The  
Cashless Revolution  
THANK YOU !

