

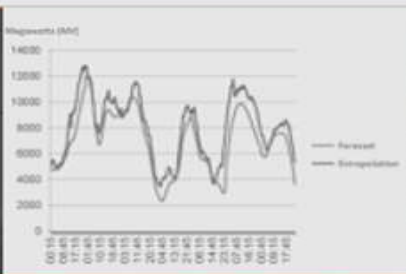


# A STARTUP WITH A SOCIAL VISION

**BY TEAM OF TECHNOCRATS & MANAGEMENT PROFESSIONALS**



**Grid Management**



**Forecasting couple with Optimized Procurement**



**Revenue Protection & Power Theft (NTL)**



**Revenue Assurance & Leakage Protection (UFG)**



**Un-Accounted for Water (UFW)**



**Solar & Wind Analytics Operation Management**

**A GOVT OF INDIA ACREDITED AND RECOGNIZED START UP**

**A MINISTRY OF MSME RECOGNIZED START UP**



## ADVISORY

Support utilities in economically identifying Value driven transformational opportunity

## SOLUTIONS

Applying simpler technologies creating larger value for Utilities

## CAPACITY BUILDING

Training utilities to understand Small change creating BIG Transformation In their own eco-system

# REVENUE MAXIMIZATION & LOSS MINIMIZATION

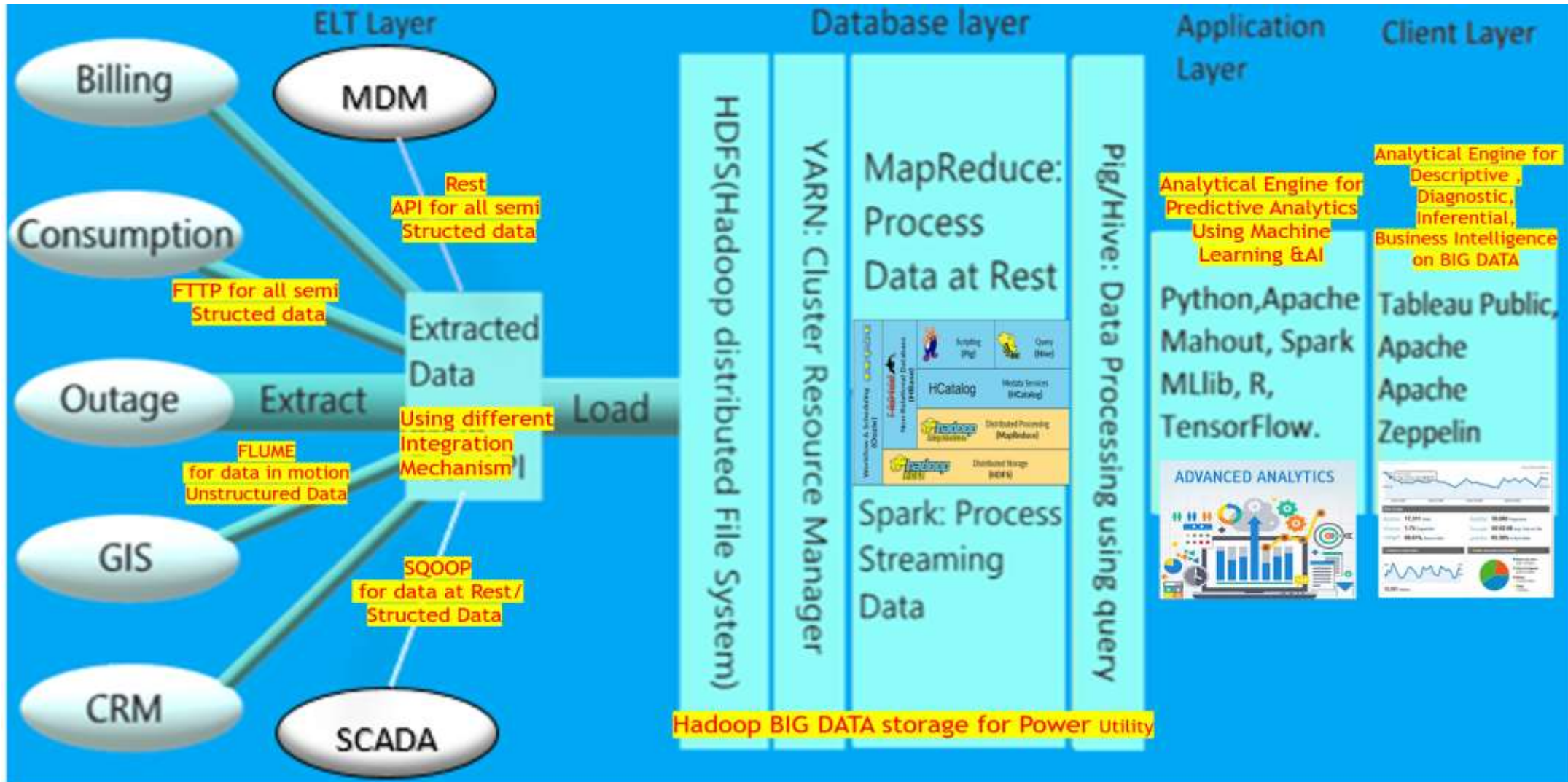
Enhancing your Business Value for Utilities  
using Decision Science Methodology

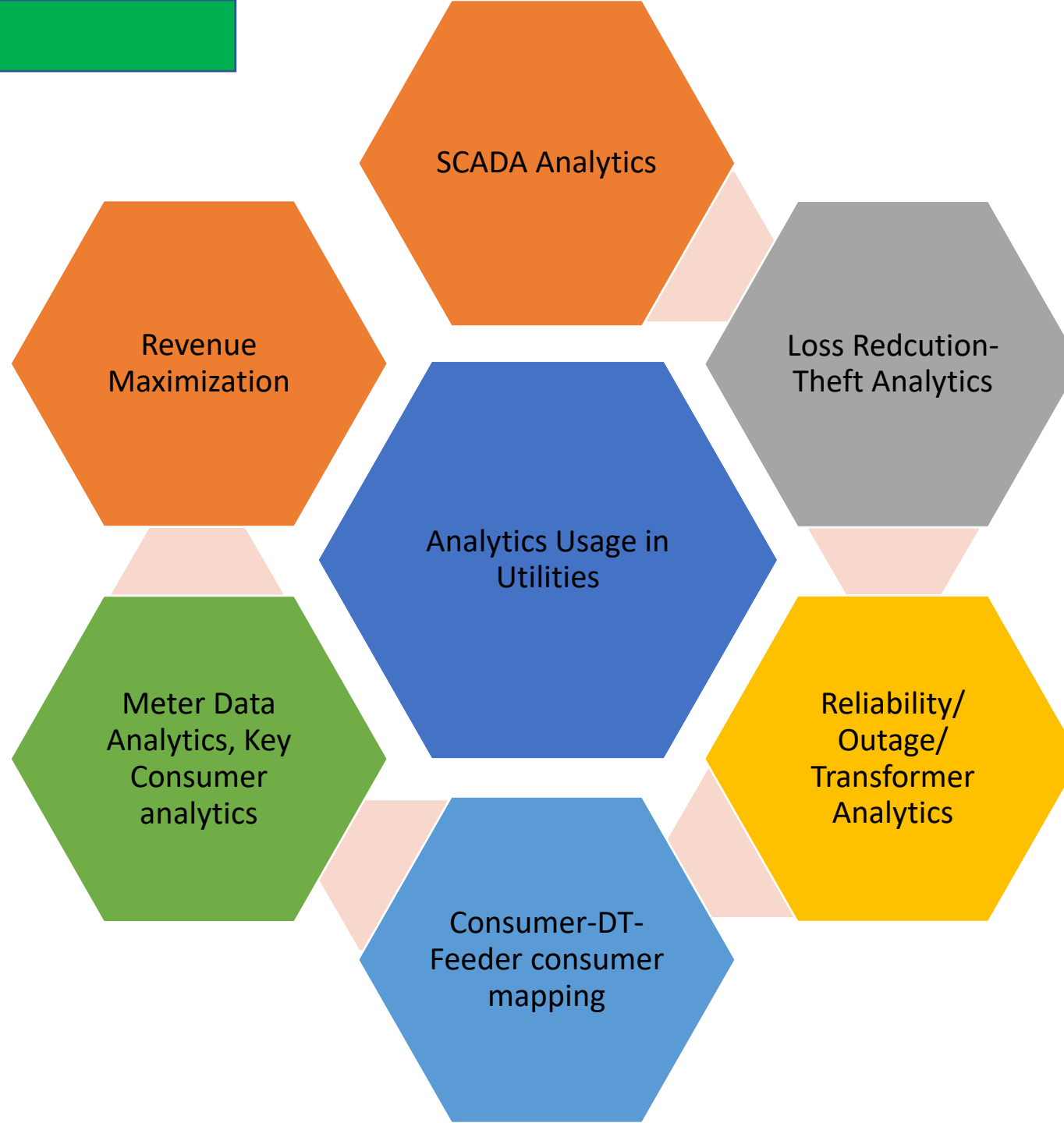
## Utilities ( Power, Gas, Water)





## Data lake adoption( for Utility)





# Revenue Maximization

Defaulted predictive management system based on AI

Million of Customers  
Multiple District/Division

~xxx Cr Billing per Month\*

\*Assumption(Info Available on Web)

~xxx Cr Billing Not Recognized Month\*

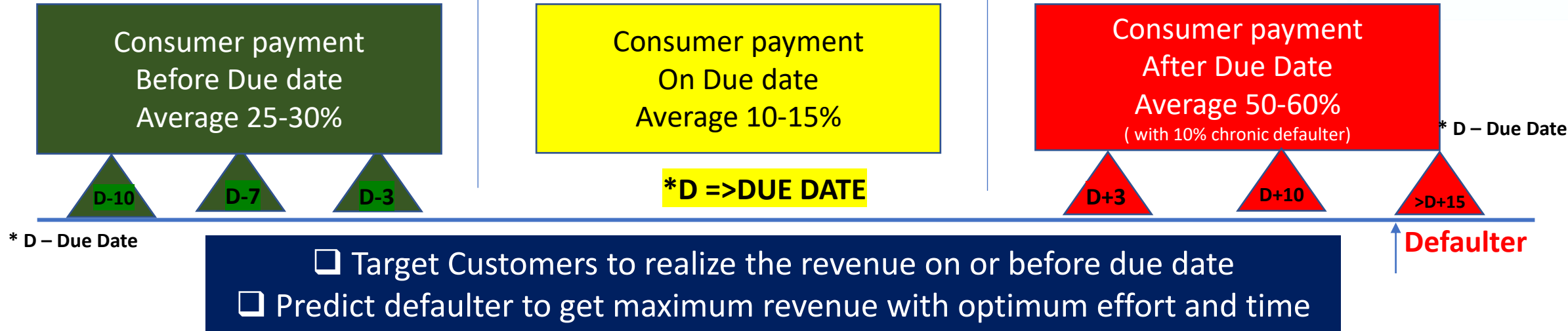
\*Assumption(Info Available on Web)

APC REVENUE RECOGNIZATION Solution – Proposed Benefit  
xxCr Per Month

# BUSINESS APPROACH

## Existing scenario for utilities

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## SOLUTION – WORKING METHDOLOGY

➤ Focus is to move consumer closer to **DUE DATE** to Realize early revenue for Utility

❑ Strategy based on APC Solution

- ❖ Target D+3 and D + 10 people to move to earlier bucket ~ 10-20% earlier revenue recognition
  - ❖ [Estimate 5-10 Cr pm revenue recognition] → **SOFT TARGET** (in division or district with average 1 lakh consumers)
- ❖ Target Defaulter → >D+15, 40-50% of Revenue losses/delay ~Applying AI/ML Solution 5-10% consumer movement
  - ❖ [Estimate – 10-30 Cr pm revenue recognition] **HARD TARGET** (in division or district with average 1 lakh consumers)

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OVERALL IMPACT OF ~400-500 CR Yearly

SOLUTION



# BUSINESS CASE STUDY - DELHI BASED POWER DISTRIBUTION

## A LIVE RUNNING ENGAGEMENT

DATA DRIVEN

REVENUE MAXIMIZATION & LOSS MINIMIZATION

TRANSFORMATION

~17 Lakhs Consumers  
across 3 Regions and  
17 Division

~500 Cr Billing  
amount generated per  
month

~200 Cr Billing  
Collected per month

**~200 Cr**  
Billing at stake  
per month

**~150 Cr pm**

Billing Realization by Decision  
Science Methodology Implemented

### Bucketing

- Business Insights
- Dynamic Bucketing
- Input to existing KPI
- Information available at customer level for better decisioning

### Defaulter Modeling

- Prediction of Defaulter /Customer Behavior
- Prevention of Revenue Leakage
- Revenue Management
- Input for Scoring

### Risk Profiling

- Customer Segmentation
- Profiling of Customer based on bucket/region
- Risk Scoring
- Final Risk for each customer

- ❖ Powered by open source methodologies
- ❖ Cutting Edge AI/ML Capabilities
- ❖ Full Support by highly skilled resources
  - ❖ Low cost
  - ❖ Easy to manage

VALUE ADDITION

## BENEFIT - UTILITY REALIZE 50-60% OF REVENUE ON Before DUE DATE



### AI/ML Model ( Decision Science Methodology)

	Input	Output	Benefits	Tool/Technology
<b>Customer Segmentation Model</b>	Customer Data from different Sources	Segmentation based on Attributes:- Area , Code, Payment Days	<ul style="list-style-type: none"> <li>➤ Better and Customized Campaign</li> <li>➤ Reporting</li> </ul>	OPEN SOURCE SOLUTION STACK
<b>Customer Default Model</b>	Customer Data from different Sources	Probability of Default of each customer	<ul style="list-style-type: none"> <li>➤ Prevention of Revenue Leakage</li> </ul>	✓ Artificial Intelligence
<b>Customer Payment Prediction Model</b>	Customer Data from different Sources	Probability of customer payment <ul style="list-style-type: none"> <li>▪ Before N day</li> <li>▪ After N Day</li> </ul>	<ul style="list-style-type: none"> <li>➤ Revenue Management</li> </ul>	✓ Machine Learning
				✓ Deep Learning

### STRATEGY FOR EARY CUSTOMER PAYMENT

TURN AROUND FOR UTILITY

# Customer Segmentation Model : Payment Bucket

## Significant Findings

Category	April		May		June		July	
	Customer	Payment_Amount	Customer	Payment_Amount	Customer	Payment_Amount	Customer	Payment_Amount
<D-3	20867	37465940	21803	67933245	20219	64215674	21248	87768918
D-3	13641	30550690	11952	35589025	12924	46457585	13659	71237422
D	13962	24711202	8925	35716657	9968	43957998	10623	63451668
D+3	6895	15633410	9298	30076006	9487	53982090	11246	52229330
>D+3	7171	17792677	10355	39773421	11916	51639226	13450	67532828
Defaulter	33799		24869		29090		26694	
Not To pay	12108		13549		7522		4283	
	Aug		Sep		Oct		Nov	
Category	Customer	Payment_Amount	Customer	Payment_Amount	Customer	Payment_Amount	Customer	Payment_Amount
<D-3	20601	61650191	20526	91325506	25349	104513091	20285	76751848
D-3	12006	34542667	13122	67724618	14209	52068985	15228	46642012
D	8245	24986384	9942	47721655	9225	48313369	10615	35432651
D+3	9756	31248591	11487	54075143	8708	42215866	11687	47405697
>D+3	14752	50008870	13986	76614908	12412	61371520	9486	40283323
Defaulter	6348		27919		28486		31455	
Not To pay	26567		4534		3432		2866	

**Advanced ARTIFICIAL INTELLIGENCE  
solution to implementation approach**

# Individual Customer Behavior Analysis

## Significant Findings

CONSUMER_NO	Bucket_April	Bucket_May	Bucket_Jun	Bucket_Jul	Bucket_Aug	Bucket_Sep	Bucket_Oct	Bucket_Nov
100457940	Default	D	Default	>D+3	>D+3	>D+3	>D+3	>D+3
151720530	Default	Default	<D-3	Default	Default	Default	Default	Default
151305465	Default	<D-3	<D-3	<D-3	D	D-3	<D-3	Default
100502429	Default	Default	<D-3	Default	>D+3	Default	<D-3	Default
100447000	<D-3	<D-3	<D-3	<D-3	Default	<D-3	Default	<D-3
151576829	D-3	Default	<D-3	Default	<D-3	D	<D-3	D
152125829	D	>D+3	Default	D	>D+3	Default	D	>D+3
151786540	>D+3	>D+3	>D+3	>D+3	>D+3	>D+3	>D+3	>D+3
100418786	Default	Default	Default	D+3	Default	Default	Default	Default
150521027	Default	D-3	Default	<D-3	D+3	Default	<D-3	Default



# Prediction of Payment Behavior – Default Model

## Significant Findings

- Model Accuracy

Actual_Default_Oct	31554
Predicted_Default_Oct	23175
Accuracy	~73%
Total Value(Actual)	~11 Cr
Total Value (Predicted)	~9 Cr (~81%)
Actual_Default_Nov	33915
Predicted_Default_Nov	20280
Accuracy	~60%
Total Value(Actual)	~12 Cr
Total Value (Predicted)	~7.5 Cr (~61%)

STRATEGY FOR CUSTOMER IMPACT

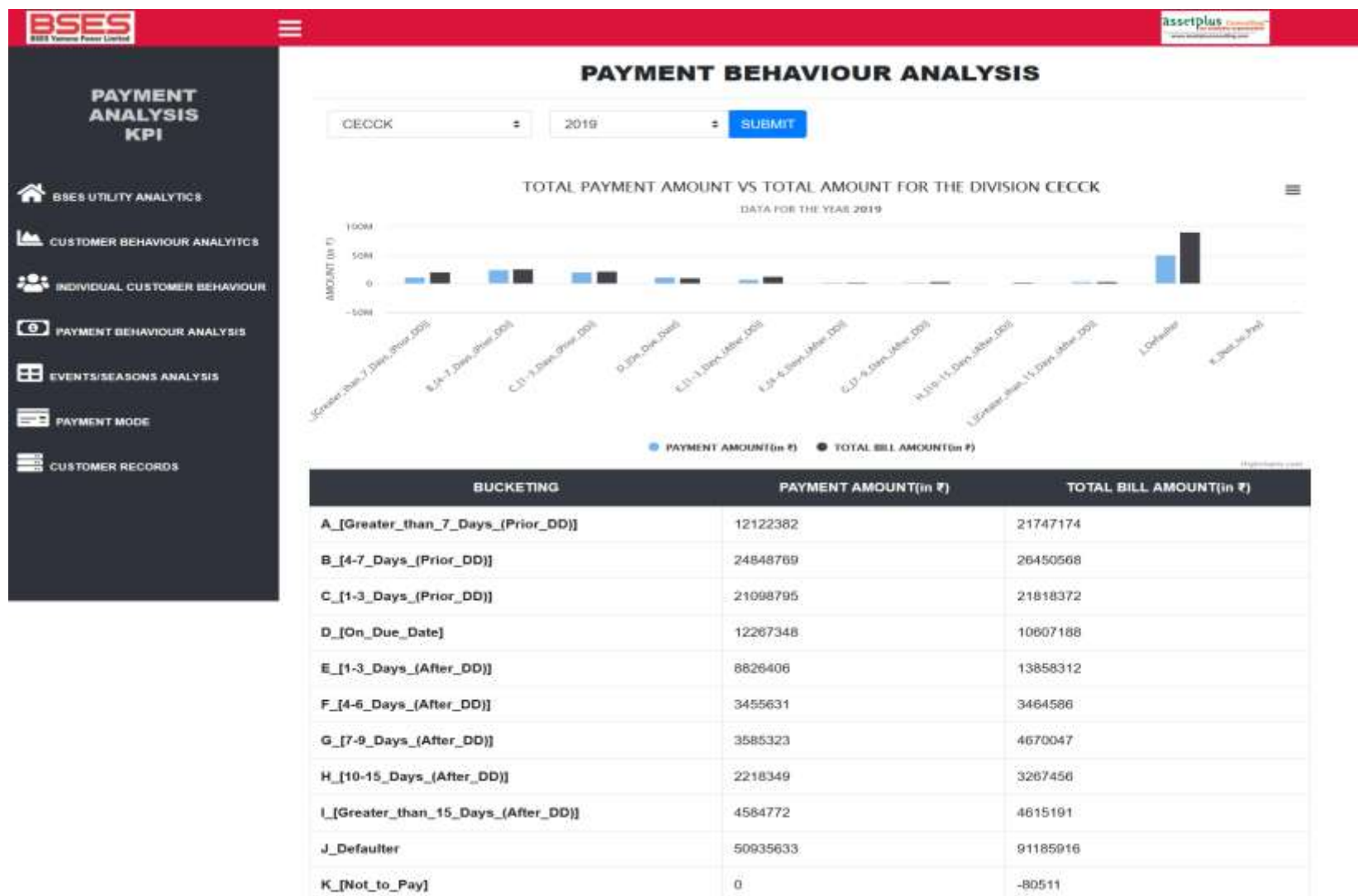
REVENUE ENHANCEMENT BY CASH FLOW IMPORVEMENT TO THE TUNE OF 150 CR PM

Advanced ARTIFICIAL INTELLIGENCE  
solution to implementation approach

# HOME PAGE



# PAYMENT BEHAVIOUR ANALYSIS



# SEASON EVENT ANALYSIS

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**PAYMENT ANALYSIS KPI**

🏠 BSES UTILITY ANALYTICS

🏭 CUSTOMER BEHAVIOUR ANALYTICS

👤 INDIVIDUAL CUSTOMER BEHAVIOUR






💰 PAYMENT BEHAVIOUR ANALYSIS

📅 EVENTS/SEASONS ANALYSIS

💳 PAYMENT MODE

📄 CUSTOMER RECORDS

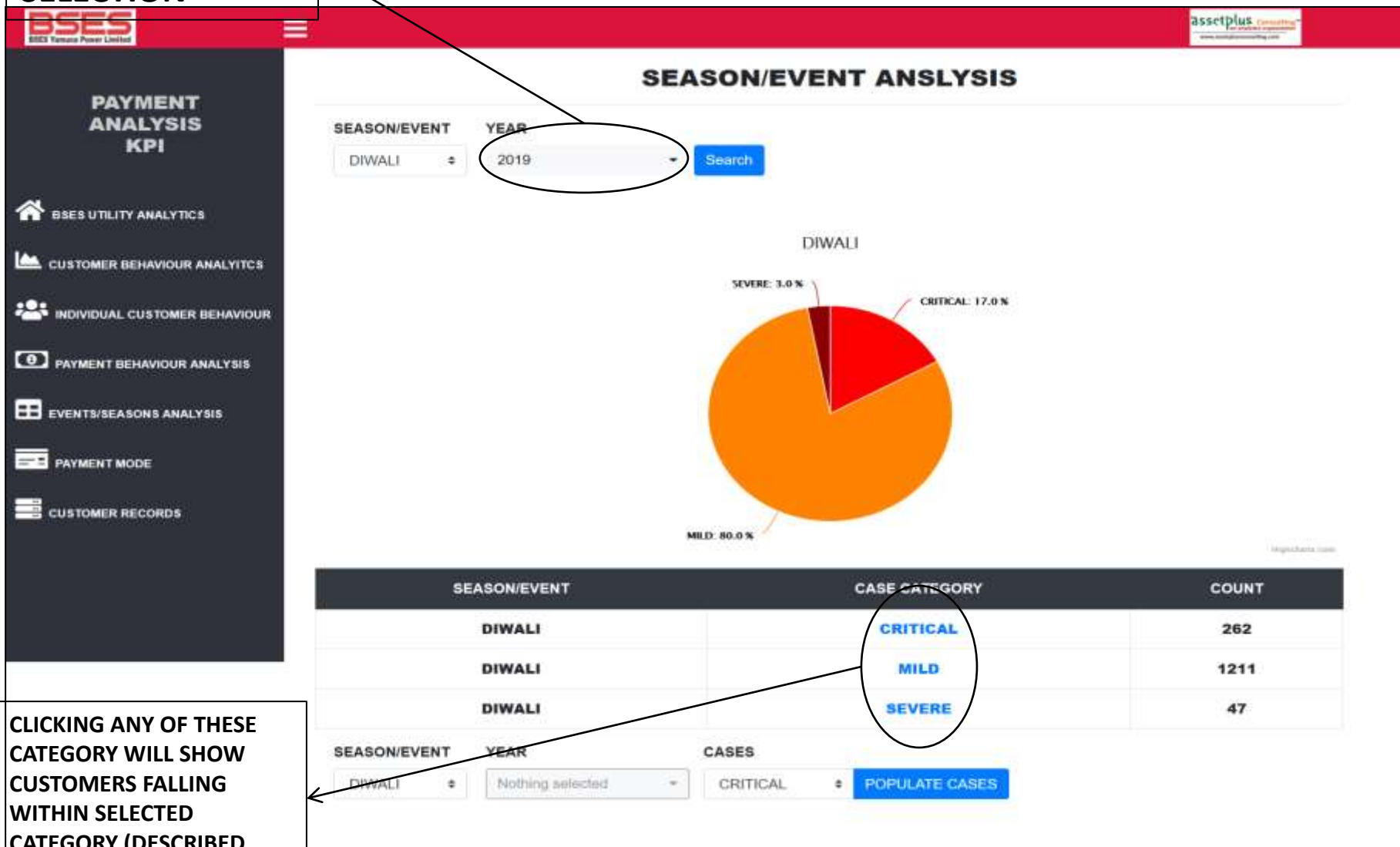
## SEASON EVENT ANALYSIS





# SEASON/EVENT ANALYSIS

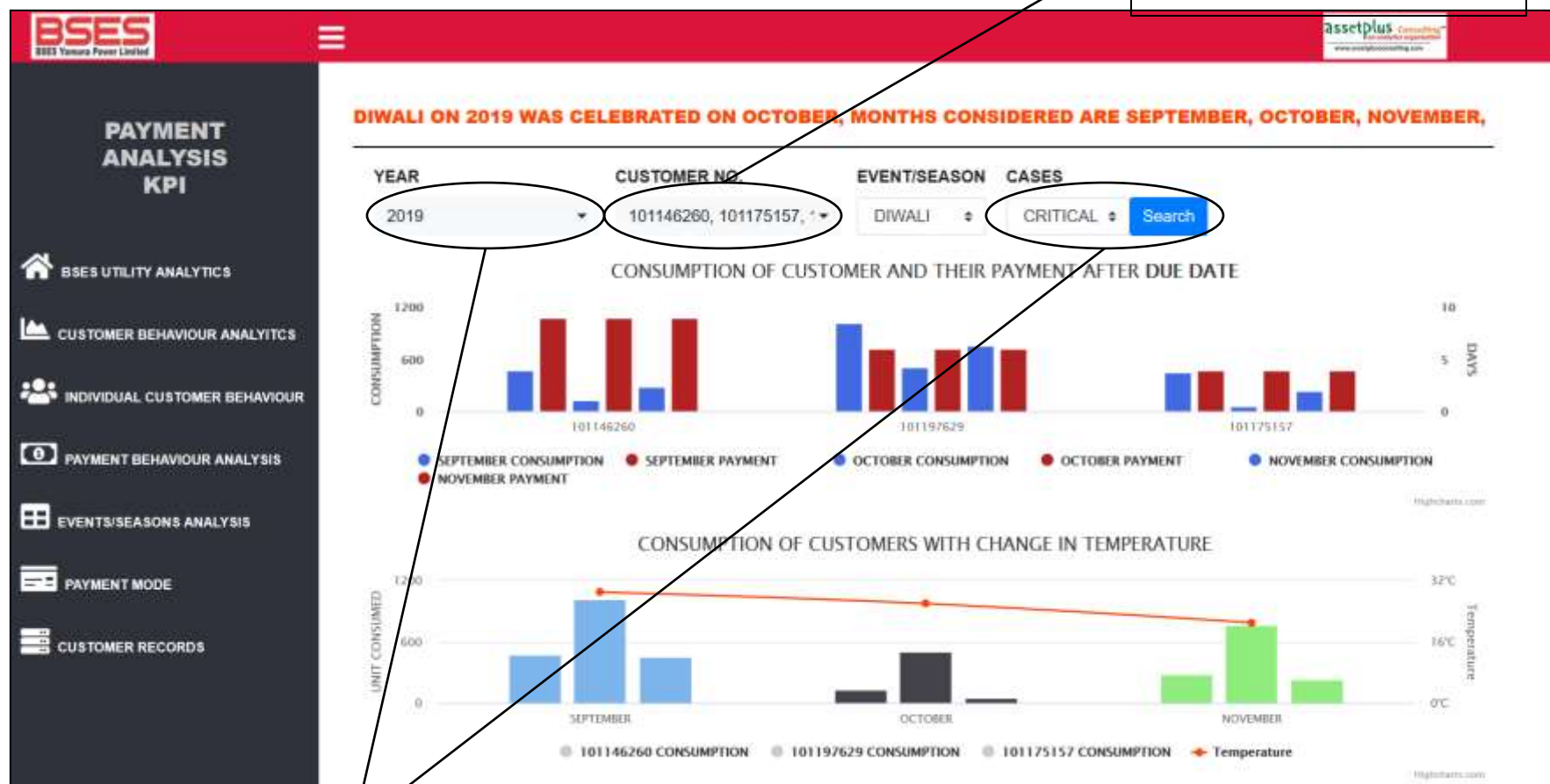
MULTIPLE SELECTION



CLICKING ANY OF THESE CATEGORY WILL SHOW CUSTOMERS FALLING WITHIN SELECTED CATEGORY (DESCRIBED BELOW)

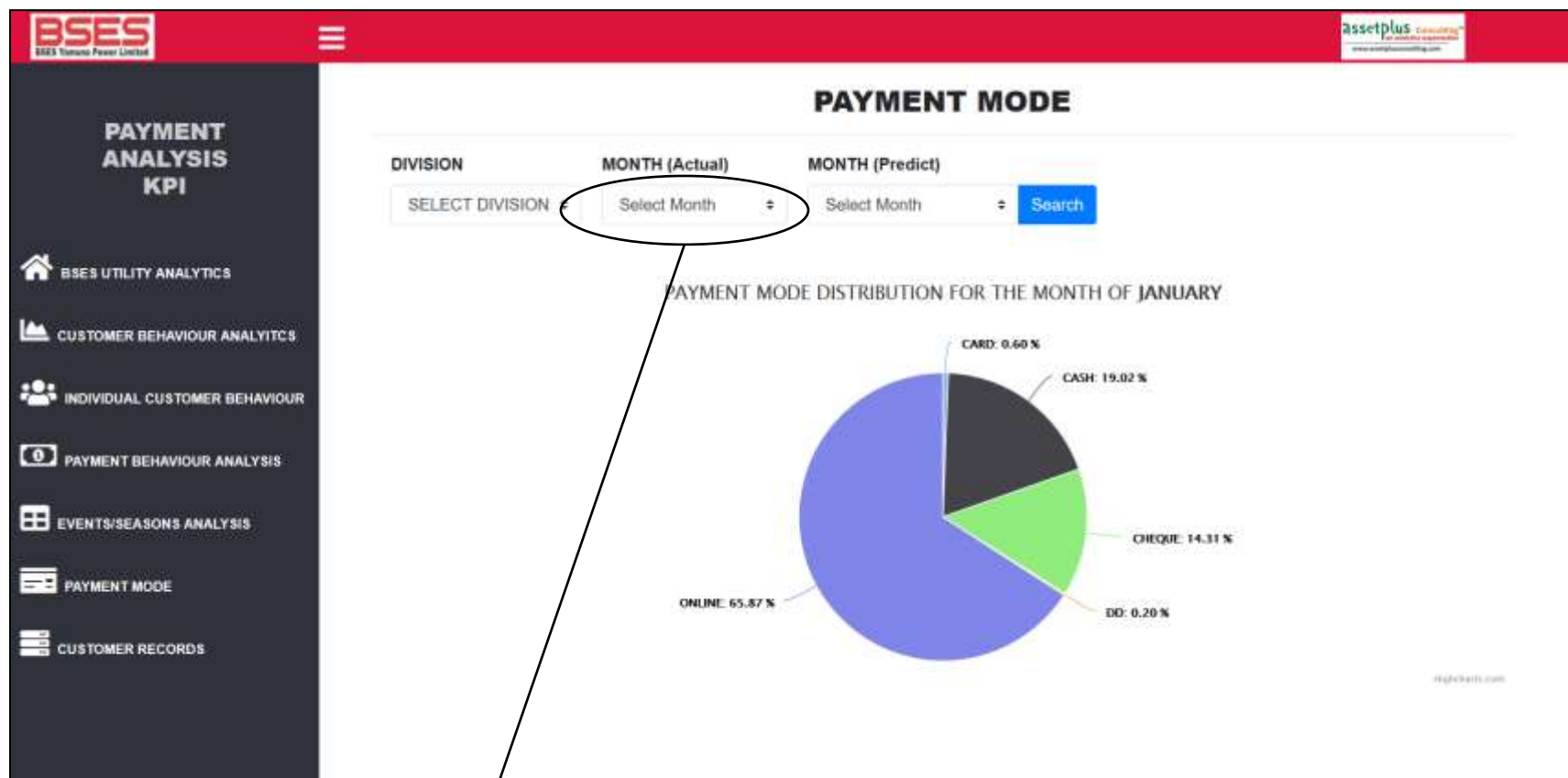
# CONSUMPTION VS PAYMENT DAY VS TEMPERATURE

CUSTOMER NUMBER ARE POPULATED AS PER YEAR AND CASE SELECTION



TO CHANGE THE YEAR AND CASE CATEGORY USER CAN SELECT DESIRED YEAR AND CASE CATEGORY TO CHANGE THE CUSTOMERS FALLING WITHIN SELECTED OPTIONS

# PAYMENT MODE



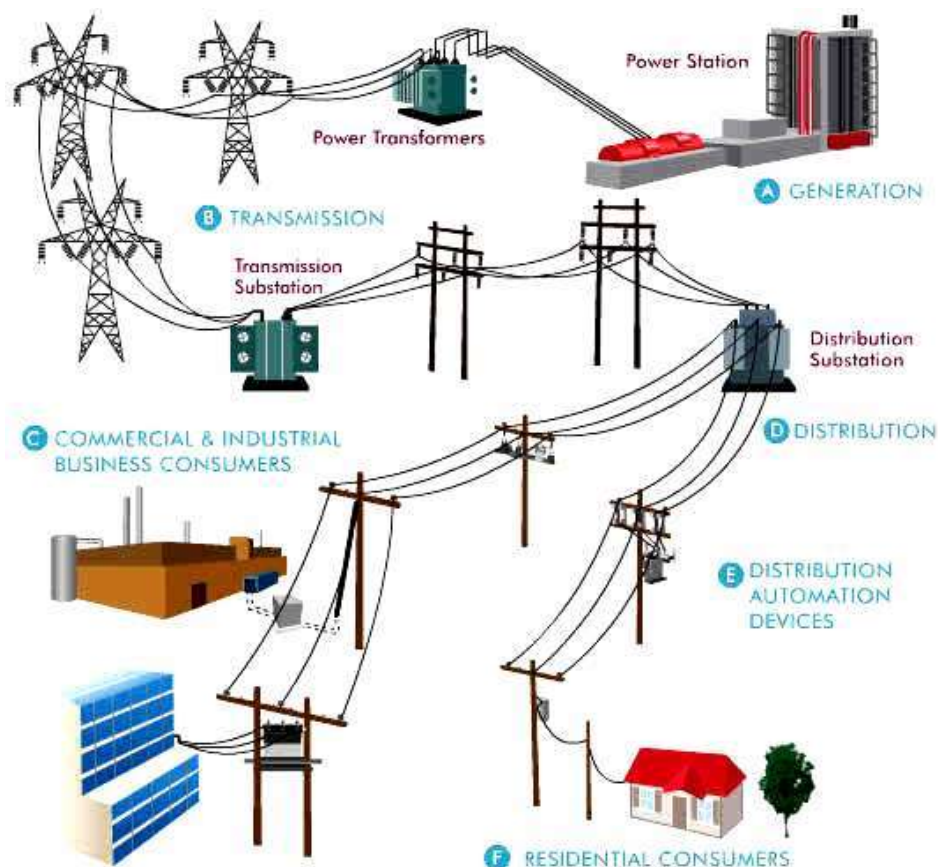
**SELECTING ONLY MONTH(Actual) WILL SHOW  
PAYMENT MODE'S DISTRIBUTION FOR THAT  
MONTH**

# Loss Minimization

- \* Controlling pilferage point based on AI solution
- \* Reducing the operation cost of metering Billing and Collection (CLK2PAY)
- \* Tagging of Network from Substation to DT to LV feeder to Pole to End Customer
- \* Tracking of the field force for their operation efficiency



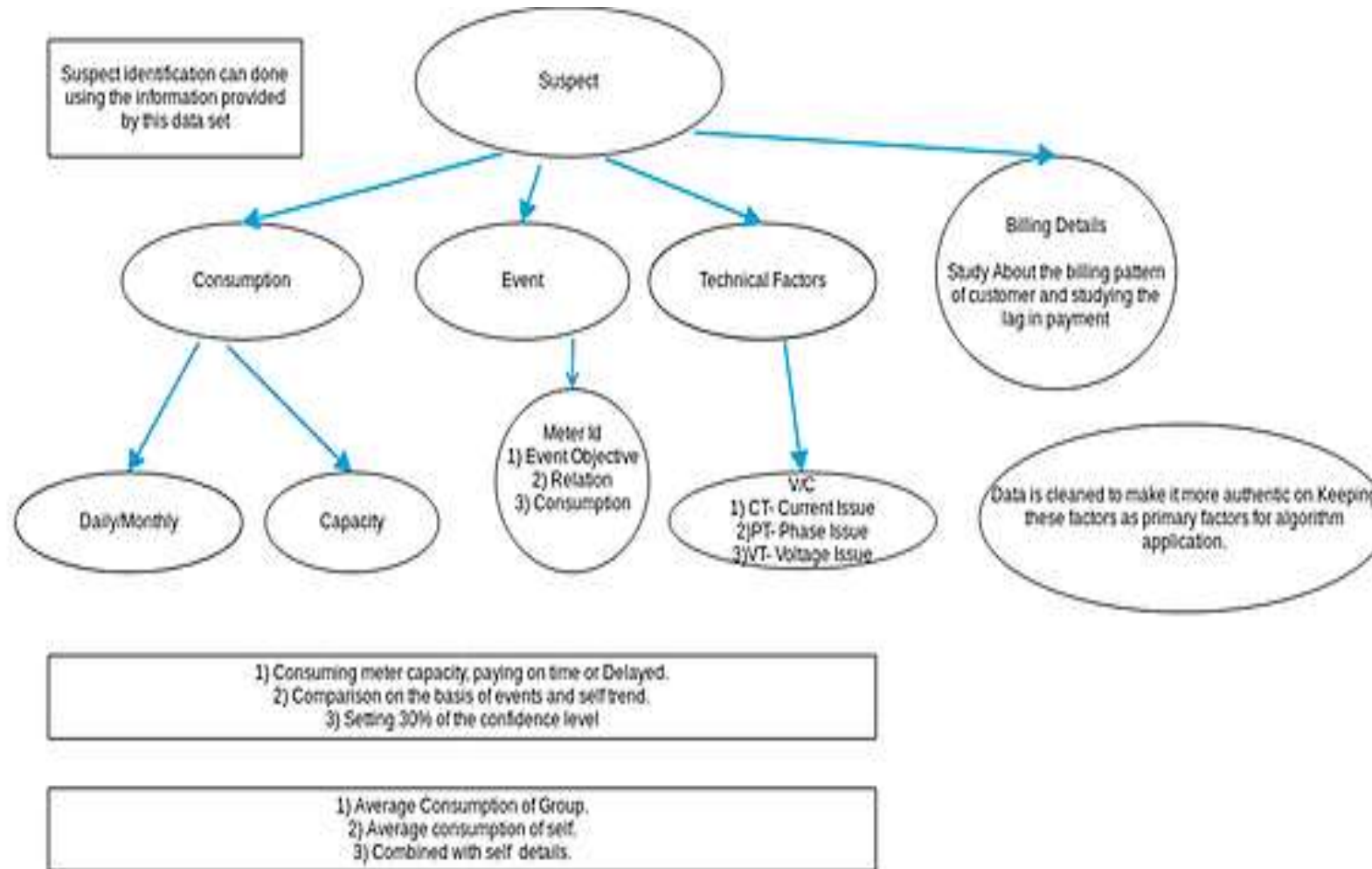
## MINIMIZATION OF LOSS— FINDING PILFERAGE POINT IN MY CUSTOMER



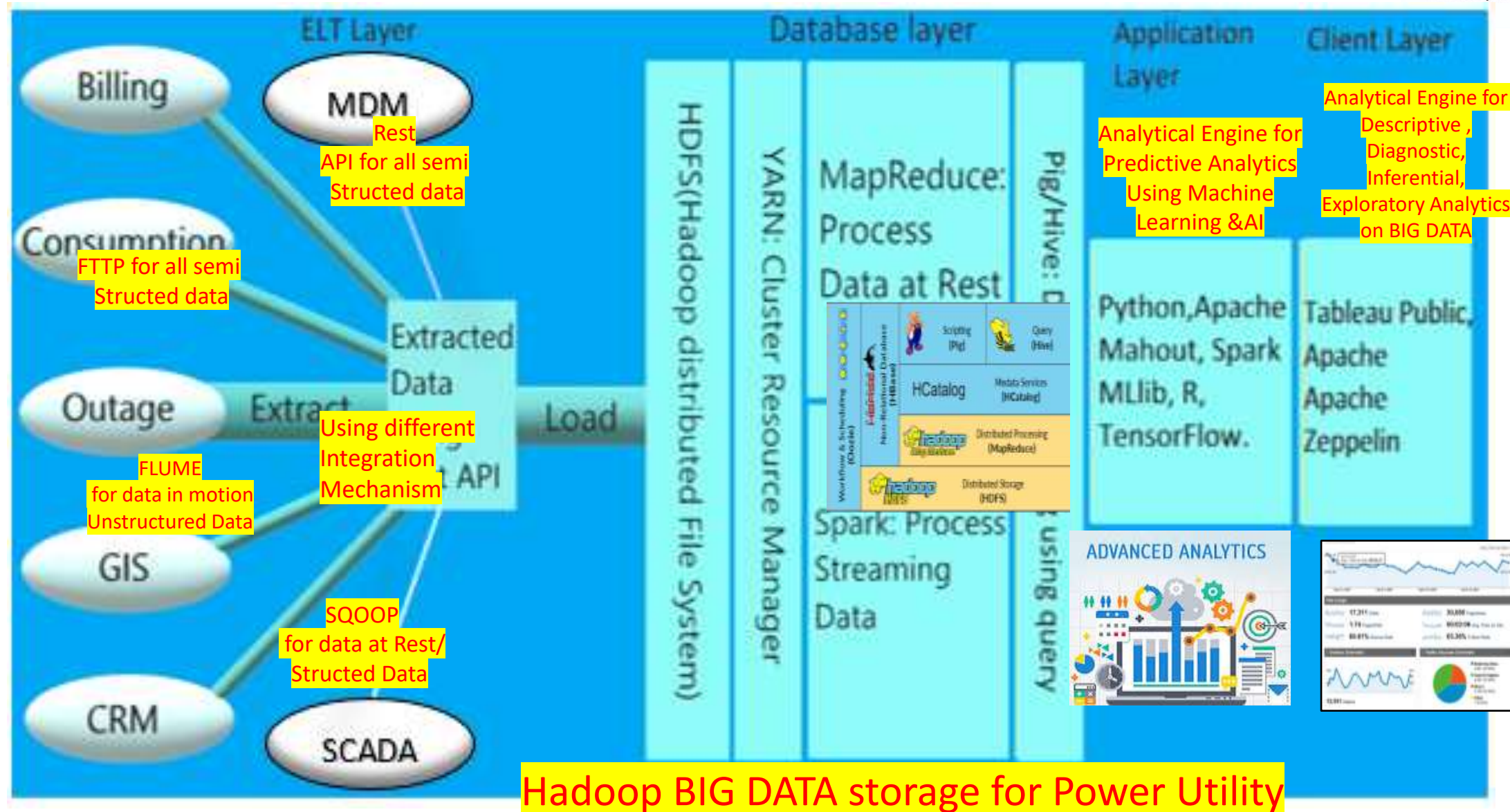
## PROBLEM STATEMENT- FINDING PILFERAGE POINTS IN DOMESTIC CATEGORY

Methods for plugging the leakage

# Narrowing the Variables

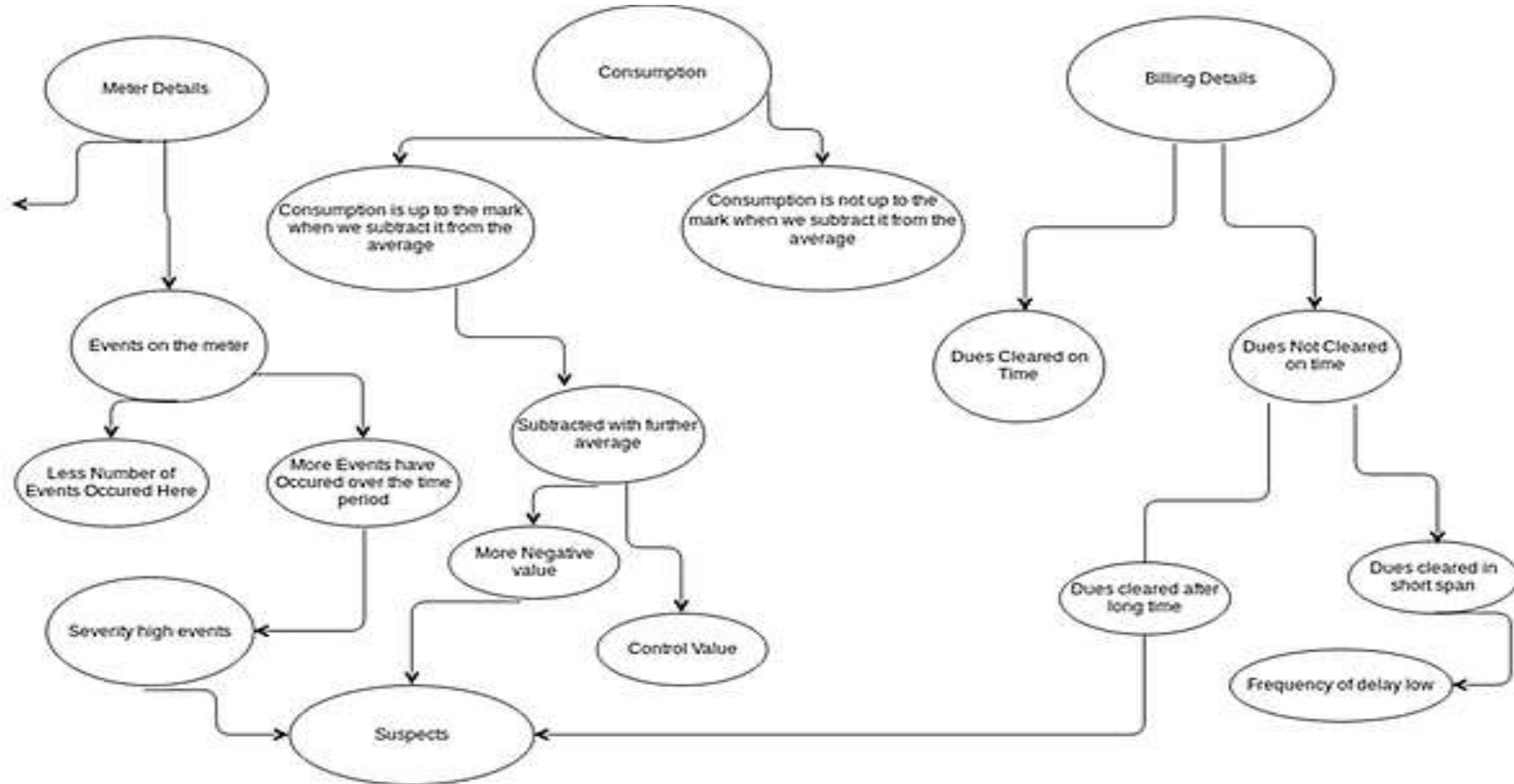


- Meter Consumption data daily/monthly (historical)
- Meter event data
- Billing data
- Payment data
- MRD file
- Customer complain



Hadoop BIG DATA storage for Power Utility

# Applying RANDOM FOREST Models



**PINNING THE PILFERAGE POINTS WITH 99% ACCURACY**



# HOME PAGE

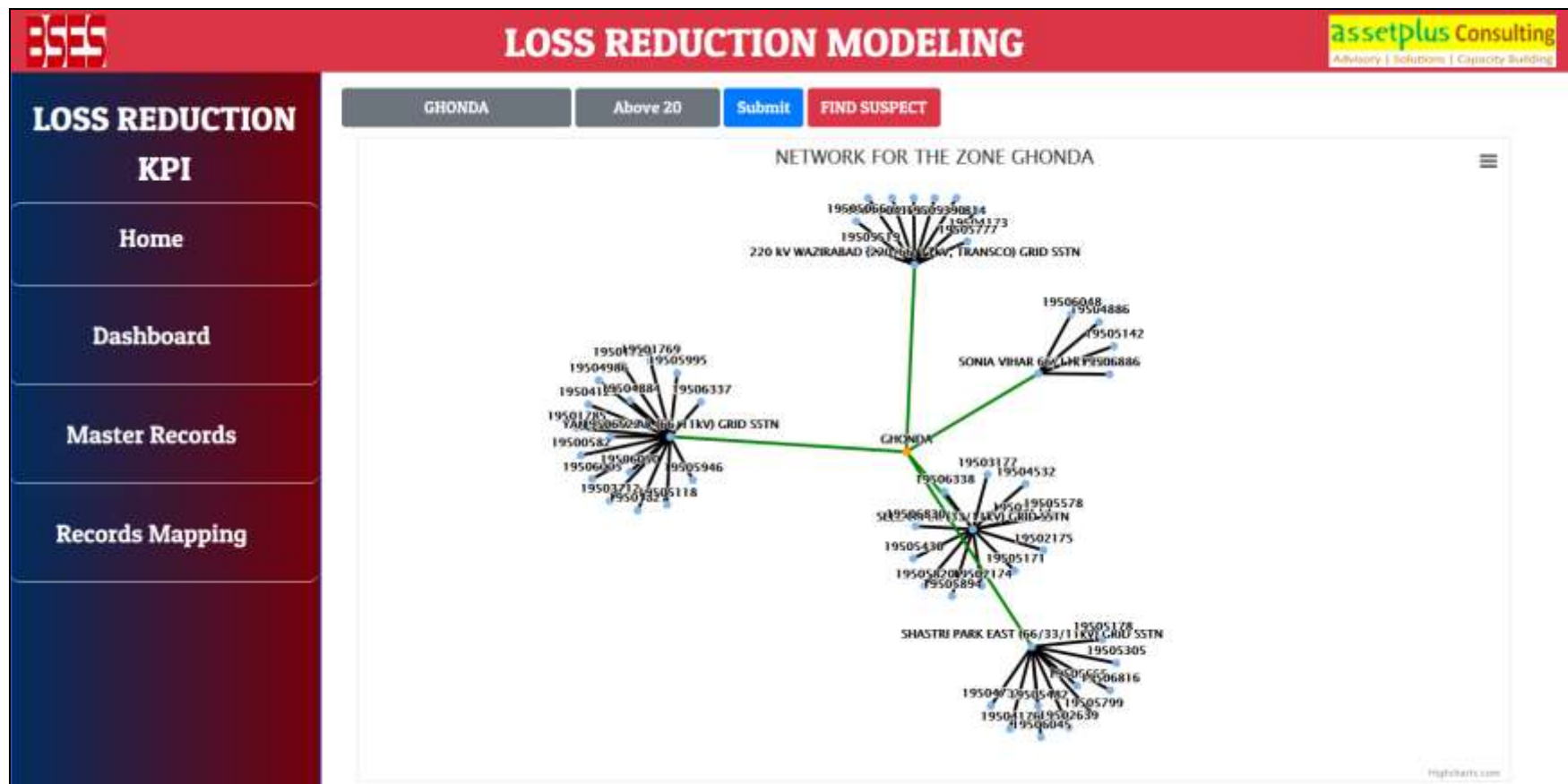


# DASHBOARD

DASHBOARD provides a brief overview of total number of GRIDs, total number of DT, total number of customers each block



# NETWORK GRAPH SHOWING DISTRIBUTION



# SUSPICIOUS BEHAVIOUR DASHBOARD

Here the dashboard will reveal the suspicious behaviour of customers where the suspects are categorised into three different categories, which can be accessed by the user through dropdown option

1. CRITICAL SUSPECTS
2. SEVERE SUSPECTS
3. MILD TO SEVERE SUSPECTS

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**LOSS REDUCTION**

- LOSS REDUCTION MODELING
- CONSUMER INSIGHT
- MASTER RECORDS
- RECORDS MAPPING

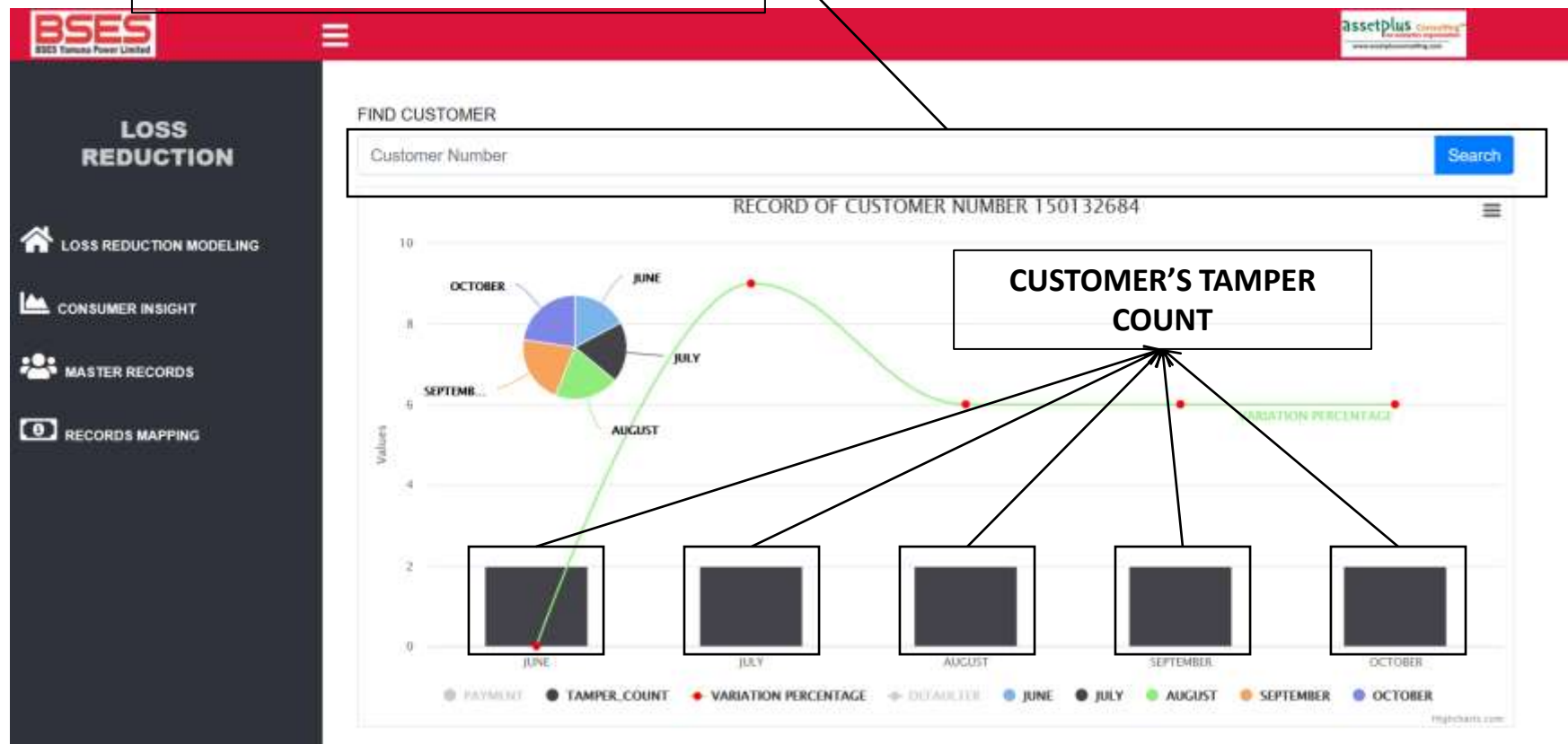
CRITICAL SUSPECTS SUBMIT

NUMBER OF SUSPECTS FOUND UNDER CRITICAL CATEGORY: 1

ZONE NAME	CUSTOMER NUMBER	TOTAL MONTH	TOTAL EVENT	DEFAULTER COUNTS
SHASTRI PARK	101394213	5	296	2

# CUSTOMER'S OVERVIEW

GET OVERVIEW OF CUSTOMER NUMBER  
OF YOUR CHOICE, BY SIMPLY TYPING THEIR  
CUSTOMER NUMBER





# Loss Minimization

- \* Controlling pilferage point based on AI solution
- \* Reducing the operation cost of metering Billing and Collection (CLK2PAY)
- \* Tagging of Network from Substation to DT to LV feeder to Pole to End Customer
- \* Tracking of the field force for their operation efficiency

# TAGGING PROJECT (VERIFICATION OF CONSUMER MAPPING TO THE POLE)



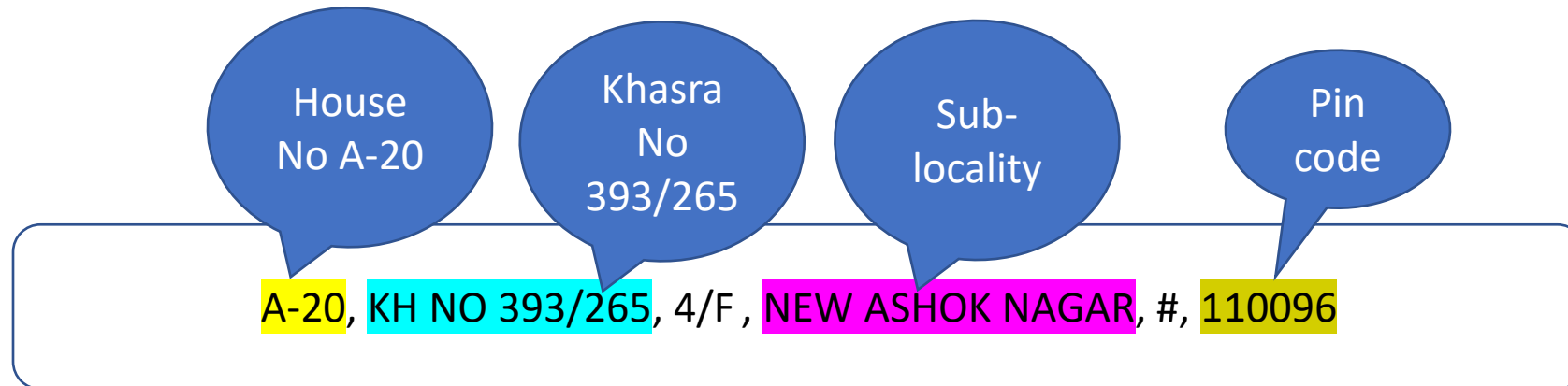
**DATA ANALYTICS DRIVEN  
ANAMOLY DETECTION-  
BY USE OF  
TEXT MINING METHODOLOGY  
WITH HEURISTIC BASED  
MODELLING**

CONSUMER MAPPING FROM  
SSTN\_DT\_FEEDER\_POLE

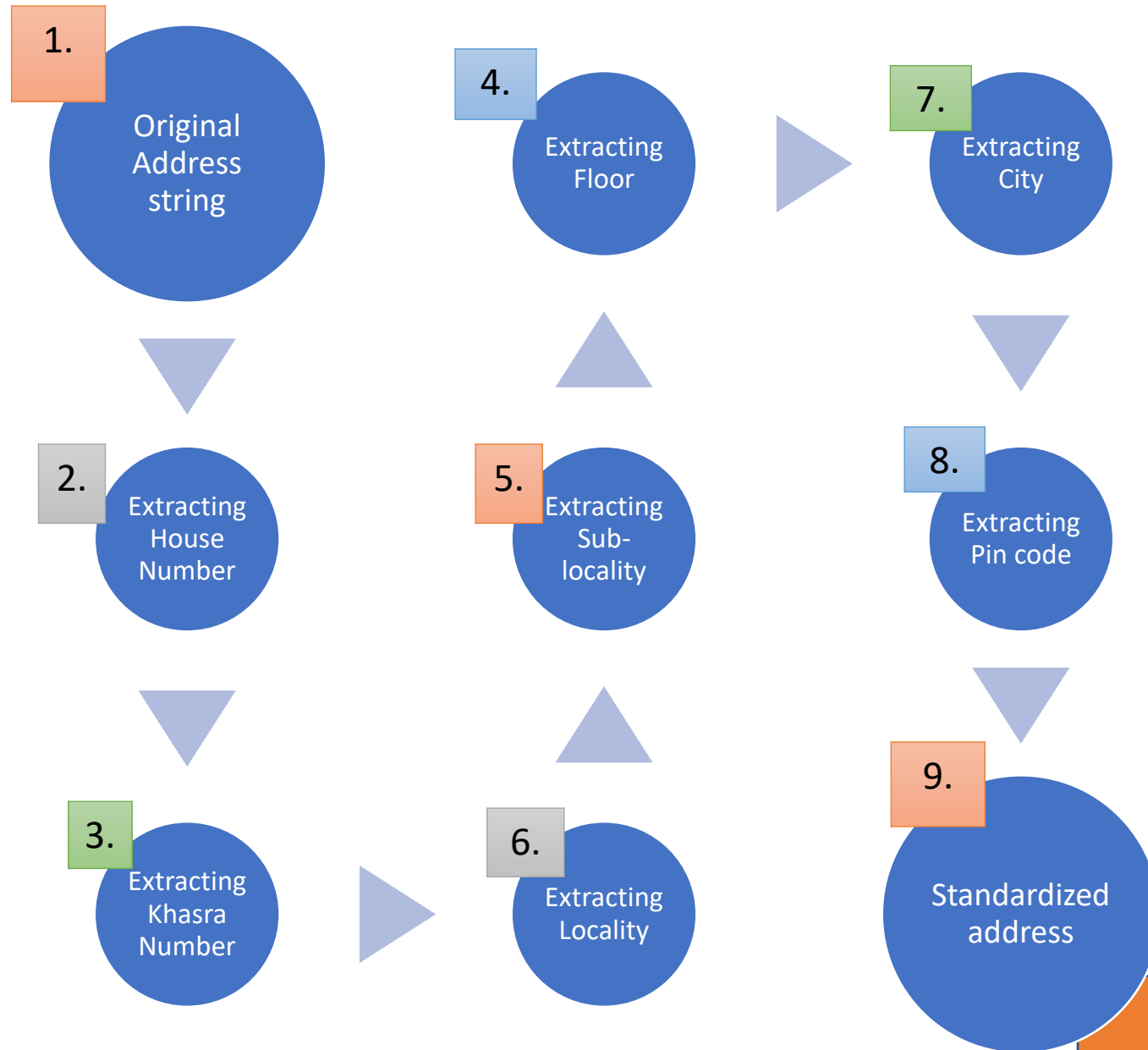


# STANDARDISATION OF ADDRESS

TOKENIZATION the string of addresses into  
'HOUSE NUMBER', 'KHASRA NUMBER', 'FLOOR',  
'SUBLOCALITY', 'LOCALITY', 'CITY', 'PINCODE'



# Data Processing Steps



# Home Page

← → ↺ 🏠 127.0.0.1:8000/Start

Untitled - Jupyter Not... Getting Started Untitled - Jupyter Not...

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**TAGGING ANALYSIS KPI**

**TAGGING ANALYTICS**

**INPUT DATA**


**PROCESSED DATA**

**→ ANOMALY OUTCOME**

**→ NETWORK ILLUSTRATION**

**🔍 SEARCH RECORDS**

**📄 RECORDS**



**INPUT DATA**  
More info ➡

**PROCESSED DATA**  
More info ➡

**ANOMALY OUTCOME**  
More info ➡

**NETWORK ILLUSTRATION**  
More info ➡

Activate Windows  
Go to Settings to activate Windows.



# Input Data

Browser tabs: Inbox (2,080) - pushpan, My Drive - Google Drive, My Drive - Google Drive, WhatsApp, Home Page - Select or, Untitled4 - Jupyter Note, Tagging Dashboard

Address bar: 127.0.0.1:8000/records

Browser tabs: Untitled - Jupyter Not..., Getting Started, Untitled - Jupyter Not...

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## INPUT\_DATA

**TAGGING ANALYSIS KPI**

- TAGGING ANALYTICS
- INPUT DATA
- PROCESSED DATA
- ANOMALY OUTCOME
- NETWORK ILLUSTRATION
- SEARCH RECORDS
- RECORDS

REGION: SOUTH\_EAST

DIVISION: EAST-MAYUR VIHAR I&II

SUB\_DIVISION: MVR\_PC8

ACCOUNT\_CLASS: MLCC

SEARCH

Click For Filter Data

SDO_CD	Contract_Account	ACC_CLASS	Region	Div_Code	Div_name	Acct_Det_ID_for_CA	Cycle_No	Sub_Division_Zone	Zone_Name
1240	152390708	MLCC	South_East	ESMVR	East-Mayur Vihar I&II	Domestic	0D	MVR_PC8	S/STN 8 POCKET C
1240	150632807	MLCC	South_East	ESMVR	East-Mayur Vihar I&II	Non-Domestic	0D	MVR_PC8	S/STN 8 POCKET C

Activate Windows  
Go to Settings to activate Windows.

Windows taskbar: Type here to search, 1:04 AM, 10/22/2020



# Processed Data

## TAGGING ANALYSIS KPI

TAGGING ANALYTICS

INPUT DATA

PROCESSED DATA

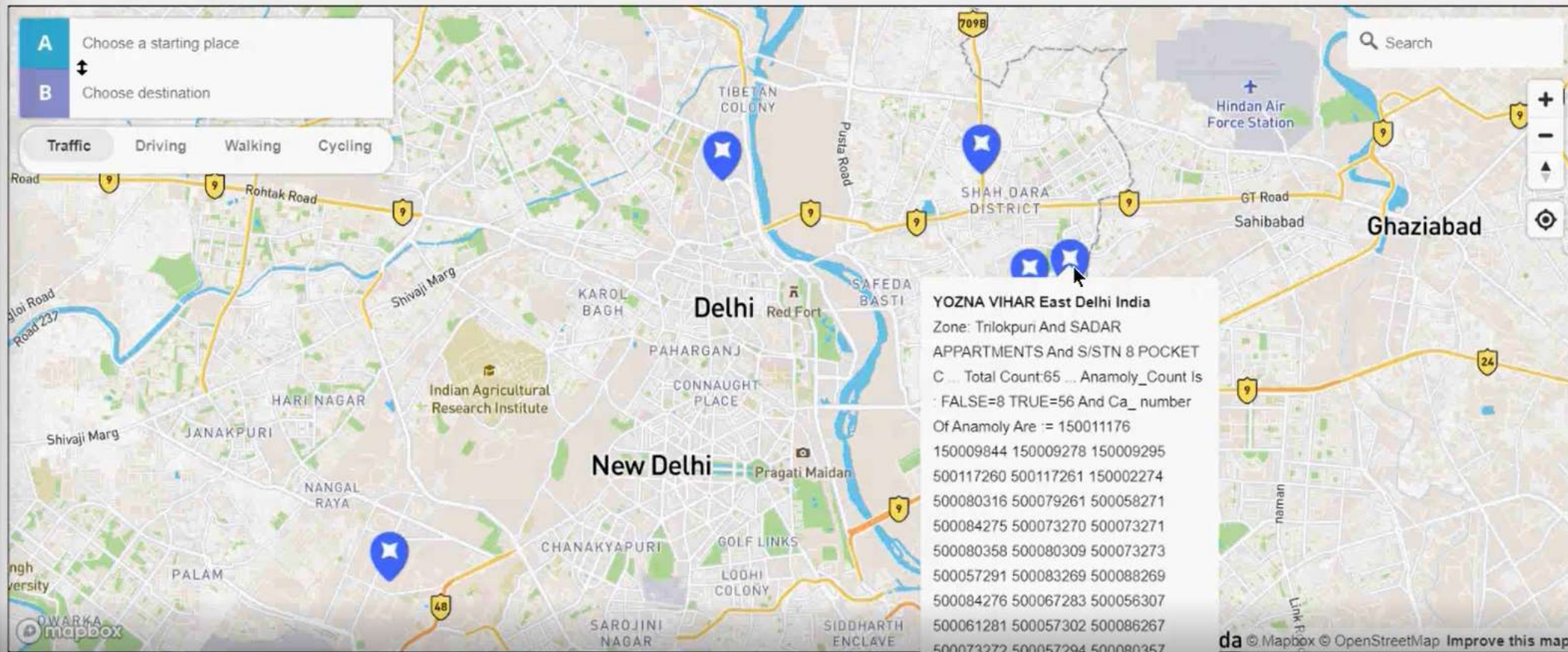
ANOMALY OUTCOME

NETWORK ILLUSTRATION

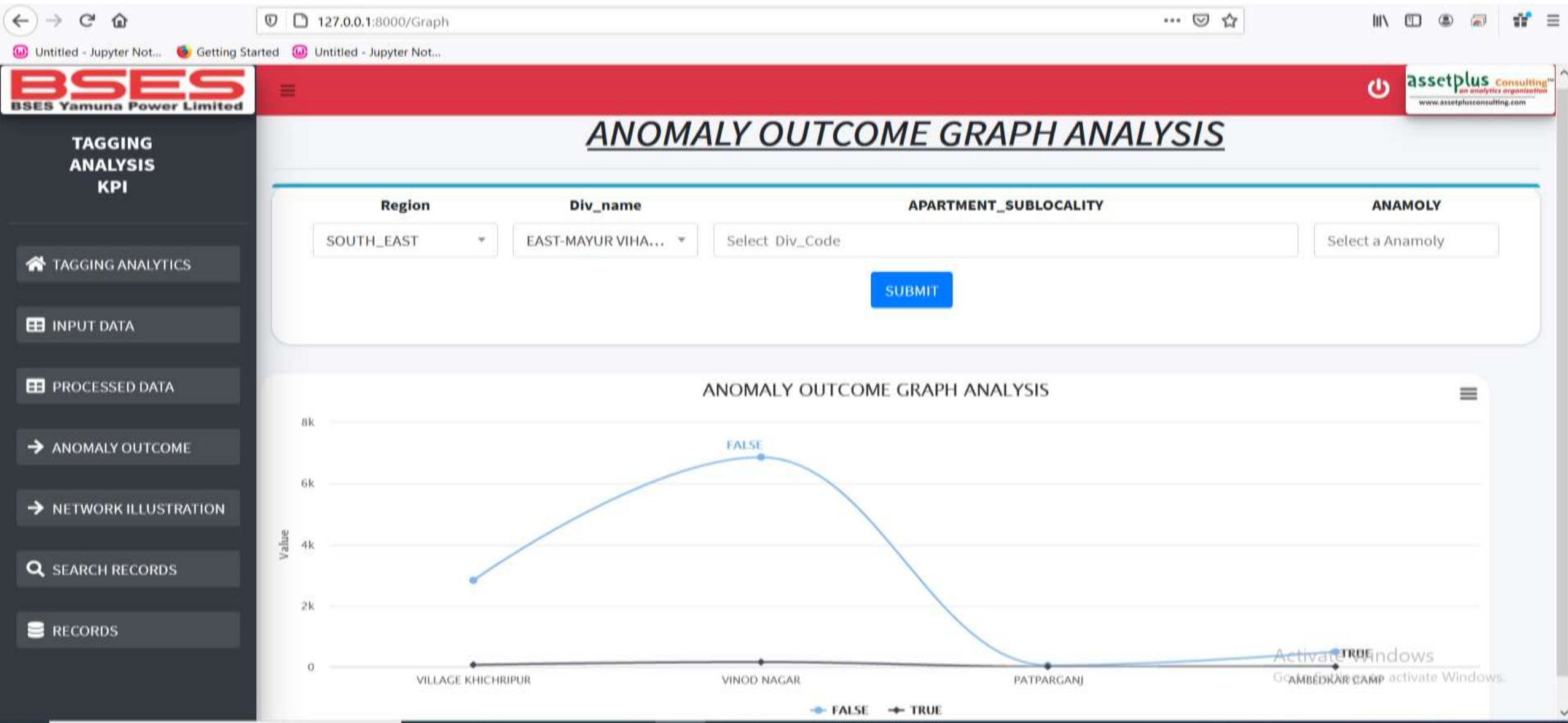
MAP

RECORDS

## MAP



# ANOMALY OUTCOME GRAPH





# All Records

Browser address bar: 127.0.0.1:8000/tagging\_records

Page Header: BSES Yamuna Power Limited | assetplus Consulting™

## Tagging Record

Region Div name Sub Division Zone ACC CLASS Search

Click For Filter Data

SDO CD	Contract Account	ACC CLASS	Region	Div Code	Div name	Acct Det ID for CA	Cycle No	Sub Division Zone	Zone Name	SAP FUNC CD	SAP FUNC DET	POLE NO	MTR NO	CONSI NAME
1240	151688517	SLCC	South_East	ESMVR	East-Mayur Vihar I&II	Domestic	24	MVR_PC8	S/STN 8 POCKET C	1S-DL-YP-ETC-DMVR-2302-MV2007	KHP VILLAGE MAIN ROAD:PL	MVRJ599	55242663.0	ASHIS
1240	152023379	SLCC	South_East	ESMVR	East-Mayur Vihar I&II	Domestic	24	MVR_PC8	S/STN 8 POCKET C	1S-DL-YP-ETC-DMVR-2302-MV2007	KHP VILLAGE MAIN ROAD:PL	MVRK082	35231605.0	NIKHII CHAU
1240	152023373	SLCC	South_East	ESMVR	East-Mayur Vihar I&II	Domestic	24	MVR_PC8	S/STN 8 POCKET C	1S-DL-YP-ETC-DMVR-2302-MV2007	KHP VILLAGE MAIN ROAD:PL	MVRK082	35232232.0	NIKHII CHAU

127.0.0.1:8000/tagging\_records?sort=SAP\_FUNC\_CD

# Loss Minimization

- \* Controlling pilferage point based on AI solution
- \* Reducing the operation cost of metering Billing and Collection (CLK2PAY)
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- \* Tracking of the field force for their operation efficiency



BRPL TELEMATICS project  
MOBILE & PORTAL TRACKING Application FOR  
BRPL Digi Seva Kendra (DSK)

# ADDRESSING CHALLENGES

- **PRODUCTIVITY** –HANDLING THE PROCESS
  - MANAGING RESOURCES IN THE FIELD
  - LIVE TRACKING
  - HISTORY TRACKING
  - TIME SPENT AT THE CUSTOMER PREMISES
  - ROUTE TAKEN
- **EFFICIENCY**
  - NUMBER OF ORDERS HANDED IN THE DAY
  - LOCATION VISITED vs TO BE VISITED
- **OPTIMIZATION**
  - TIME SPENT IN THE FIELD
  - DISTANCE TRAVELLED IN THE DAY







Which kind of consumers , field user has to spend more time .....resolve that with FAQ etc



Does travel mode is the only cause for reduced number of customer visited



Understand practical field level difficulties



Verify the expense claims



More enhance ANALYSIS of data for improved productivity

RESOURCES IN THE FIELD

LIVE TRACKING

HISTORY TRACKING

TIME SPENT AT THE CUSTOMER PREMISES

ROUTE TAKEN

NUMBER OF ORDERS HANDED IN THE DAY

LOCATION VISITED vs TO BE VISITED

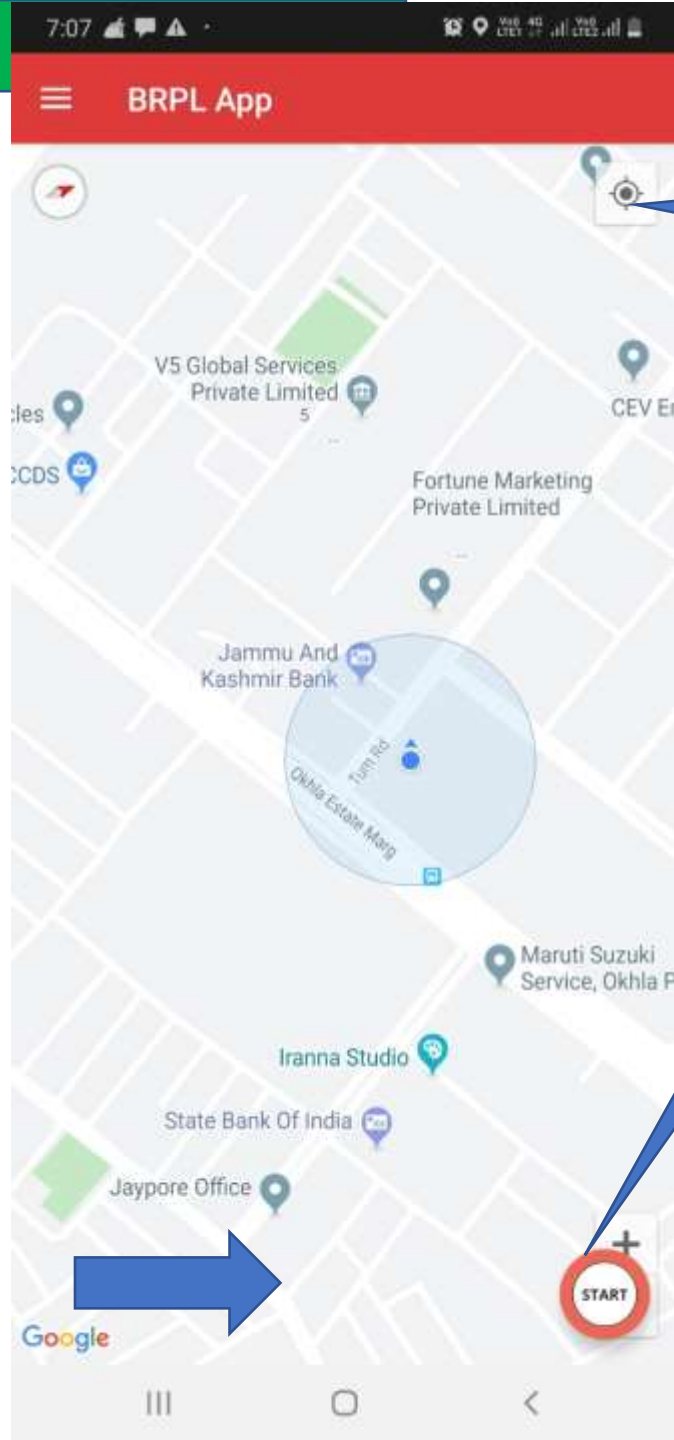
TIME SPENT IN THE FIELD

DISTANCE TRAVELLED IN THE DAY

INTEGRATION WITH THE EXISITING DSK APPLICATION



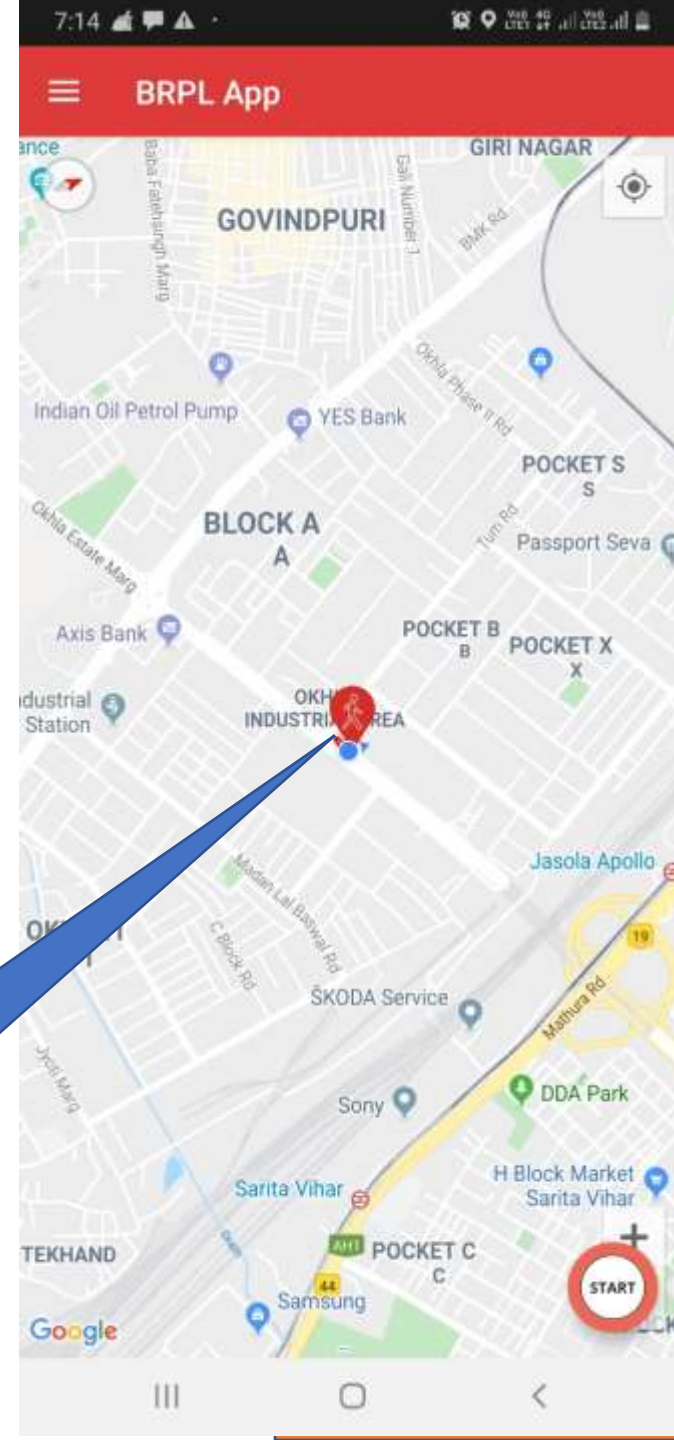
APPLICATION  
LANDING  
PAGE




ON TAKING  
THE PIN,  
ZOOM TO  
CURRENT  
LOCATION

APPLICATION  
LANDING  
PAGE  
Like  
Ola/UBER

User current  
position –  
STARTED or  
STOPPED



Manager view  
of all the  
reportes and  
their location  
and their  
STATUS



Login

UserName  
mgr

Password  
12345678

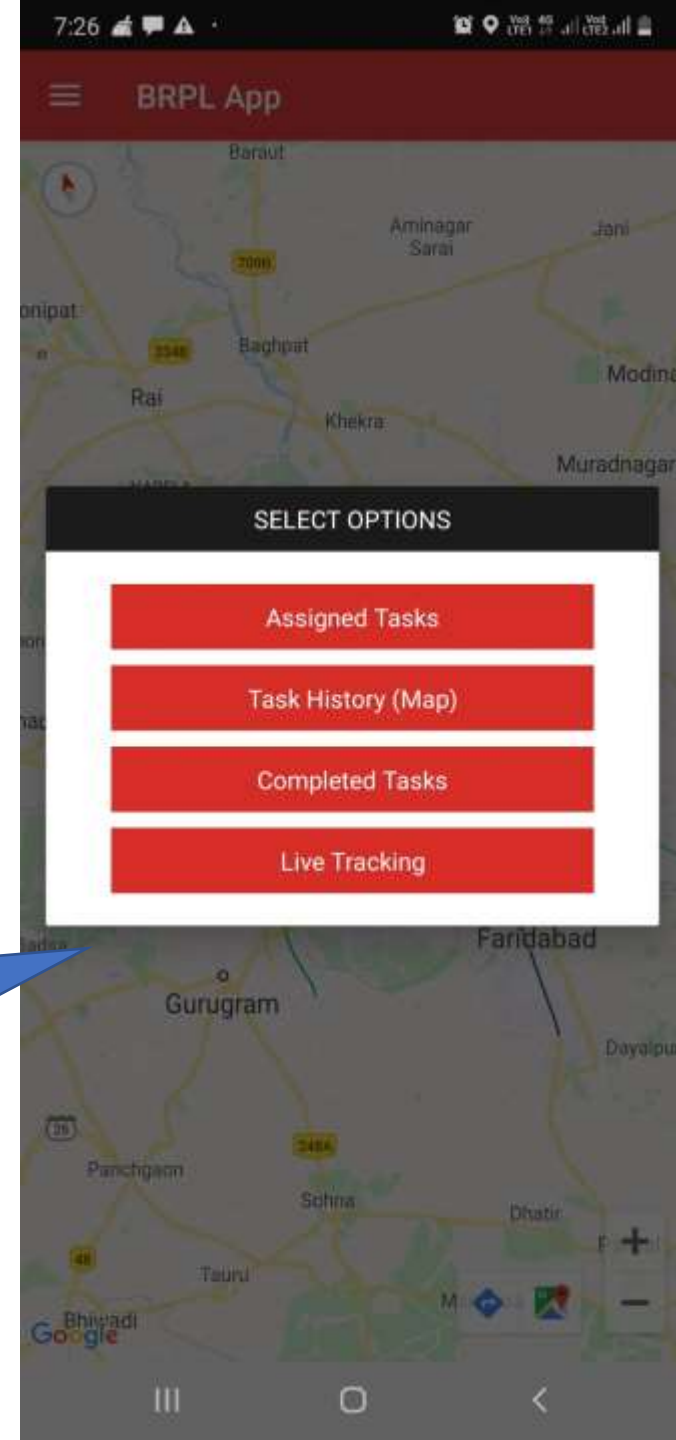
LOGIN



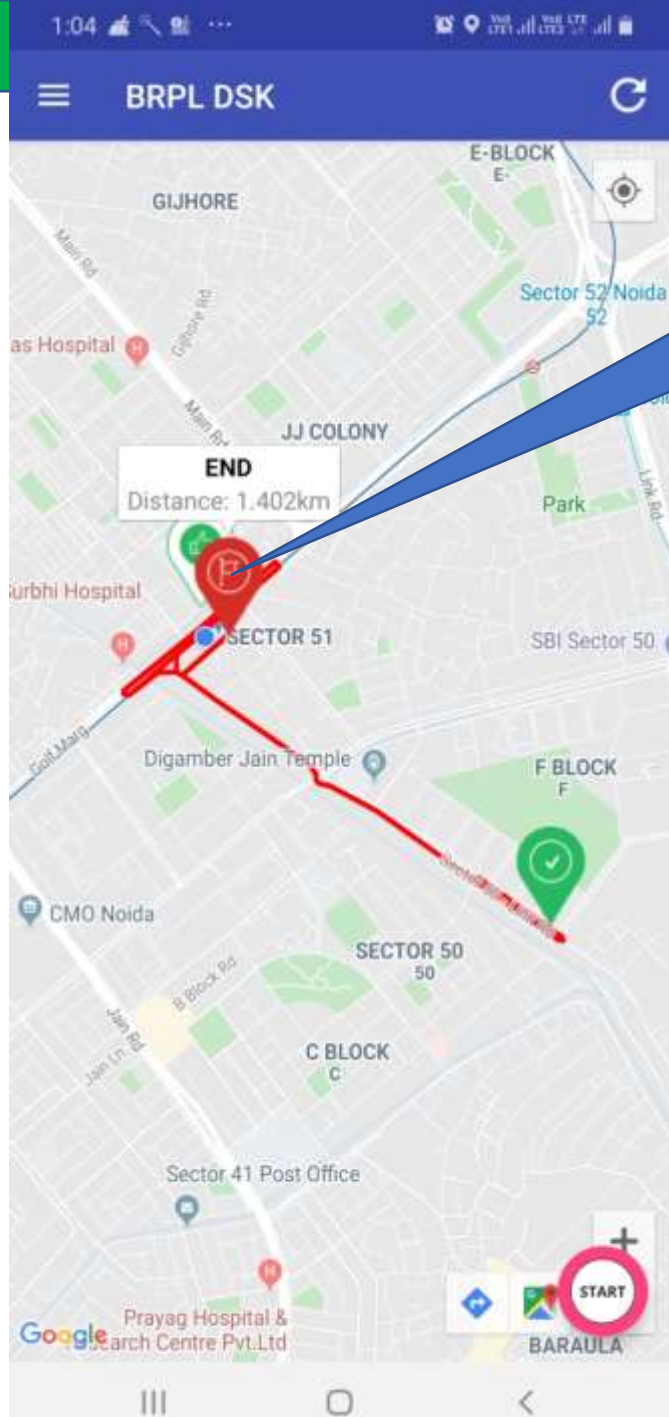




Right click on  
user and get  
the viewing  
option

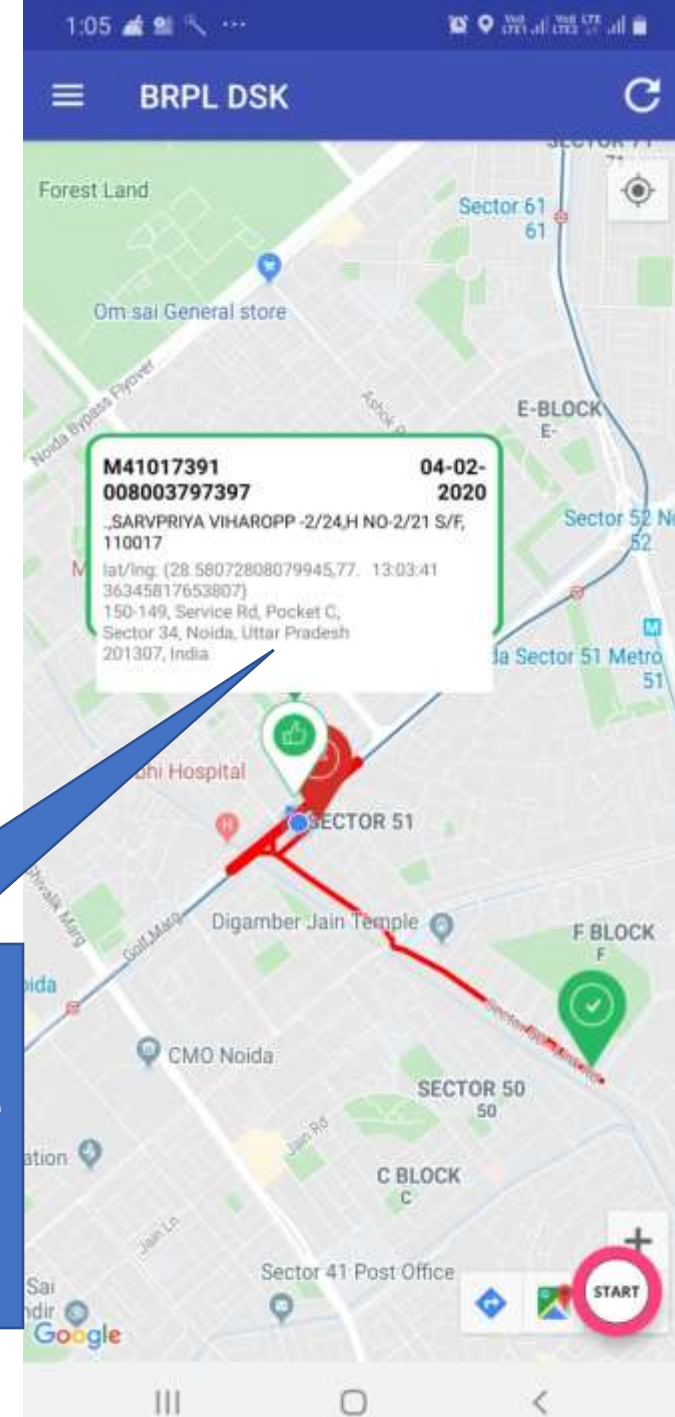






Distance covered by the user in the journey

USER , customer address to be visited and the address as the time of SUBMIT location, with date , time , lat long details



# Loss Minimization/Operation Efficiencies

- \* Controlling pilferage point based on AI solution
- \* Reducing the operation cost of metering Billing and Collection (CLK2PAY)
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# Clk2pay

## Hybrid Solution (Mobile and Portal)



0034608



Is the meter reading?

YES

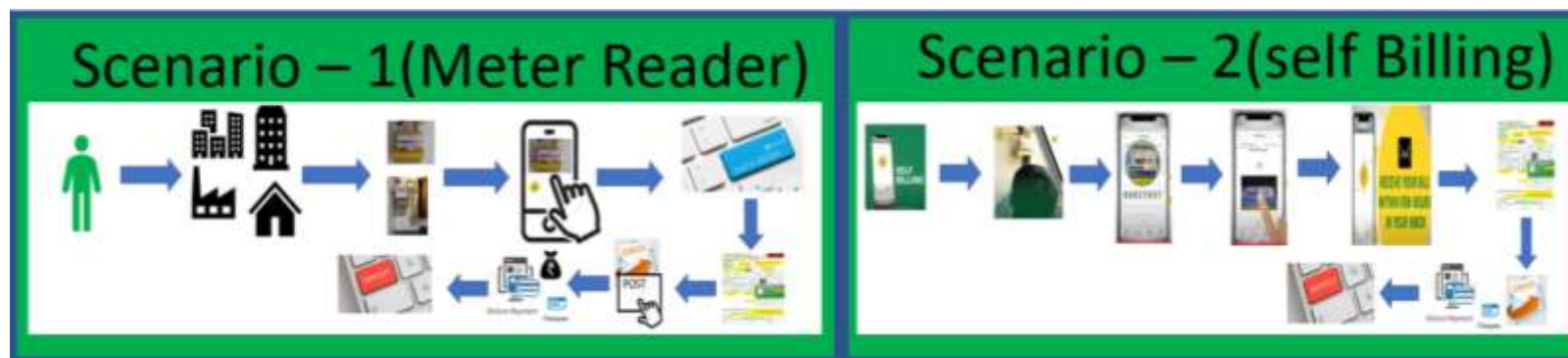
NO



Saving on the cost of visit, follow up

# Background

- Solution to help utilities to enable their customer to click their consumption from the meter and instantly pay the bill, without any human intervention and delay
- The another big advantage of this solution is , it reduced the operation cost of meter reading as it supports , not only the quick billing , but also storing the image for the customer to support and help in future problem resolution of wrong billing
- This solution helps reduce cost associated with each single consumer ie meter reading + uploading the information in central billing system + sending bill to consumer + later payment reminders.
- It is estimated that the cost incurred by utilities from the mete reading capture from consumer premises to the bill being raised and dispatched is in tune of 15 cents per month per consumer



Powered by Artificial Intelligence

# Clk2pay





**EXPERIENCE THE DIFFERENCE**

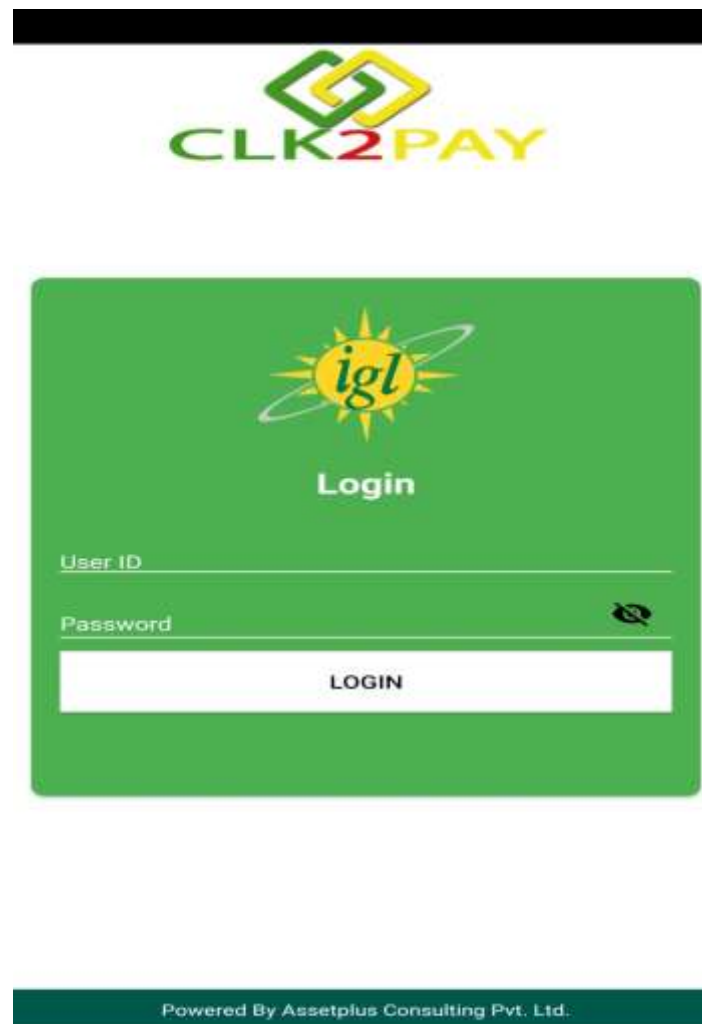




## LANDING PAGE



## LOGIN PAGE



## CUSTOMER LANDING PAGE

9:28 PM | 0.0KB/s

Click2Pay

### General Information

Name	NAVIN KUMAR
Gender	Male
Father Name / Husband Name	Father name
Address	K-1101 11TH FLOOR TOWER K ARIHANT ARDEN GH07 SECTOR 1 GREATER NOIDA EXTENSION
Mobile No.	8527547612
Email ID	navin.jit@gmail.com

### Account Information

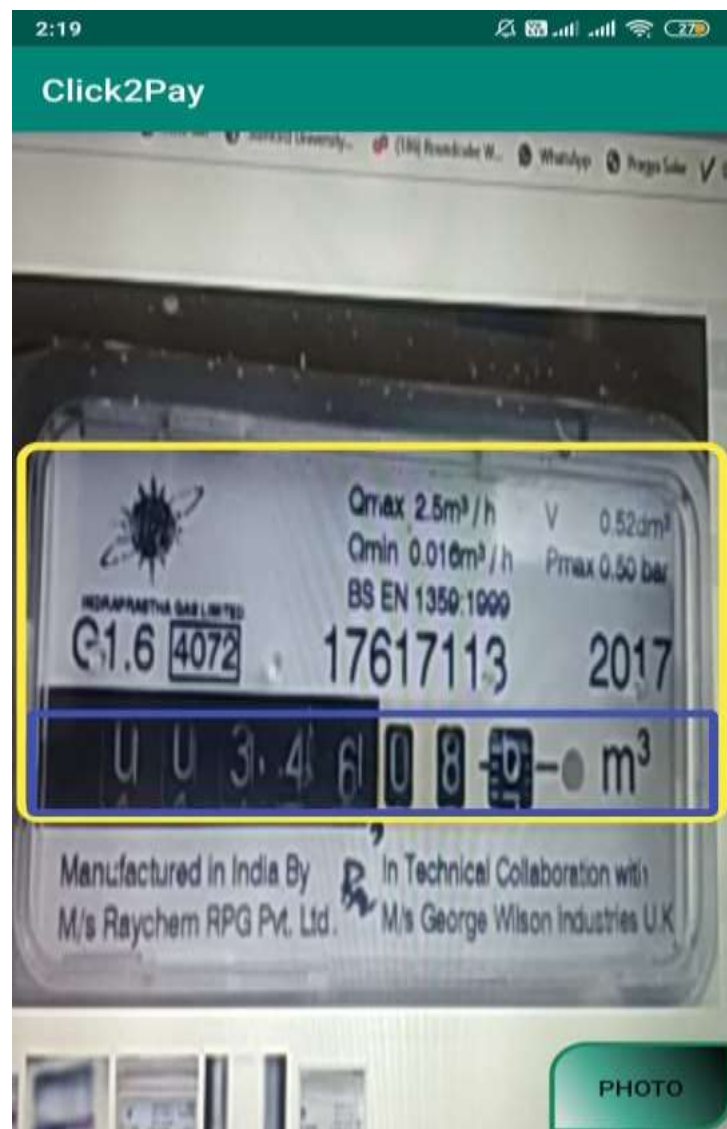
BP No.	6000055508
Customer Category	Domestic
Meter Number	17617113
Meter Make	RAYCHEM
Meter Model	BK-G16
Meter Serial no.	
Customer Join Date	18-05-2020

READING BILLING

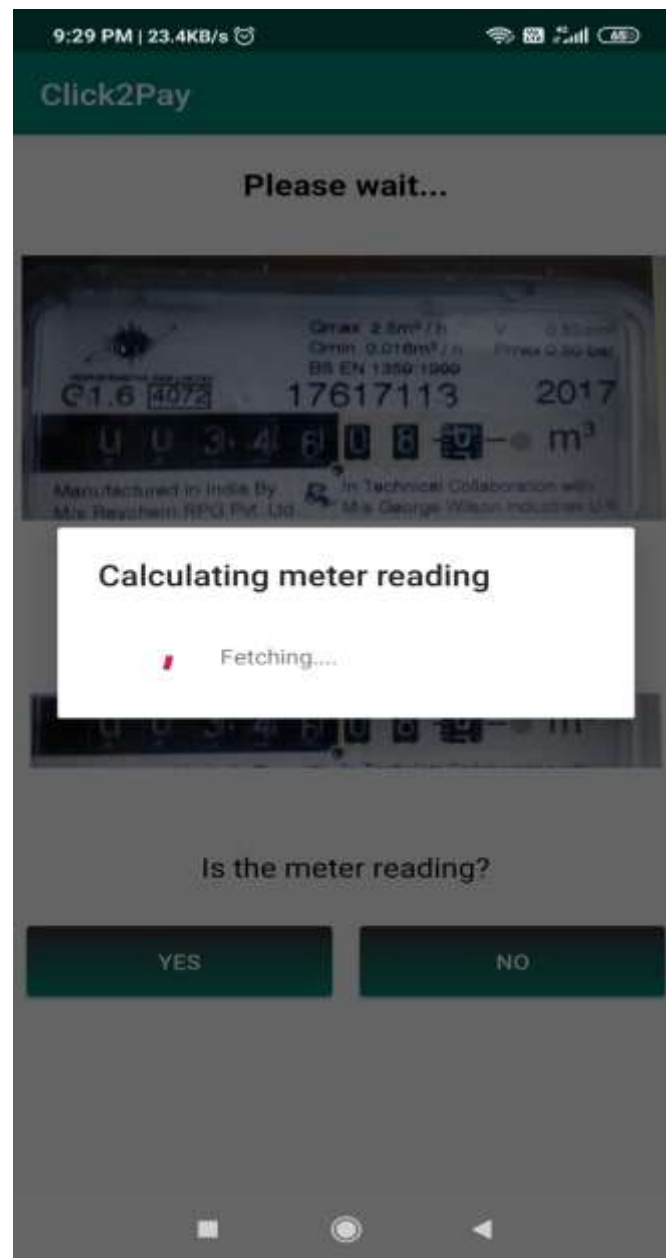
## CUSTOMER METER



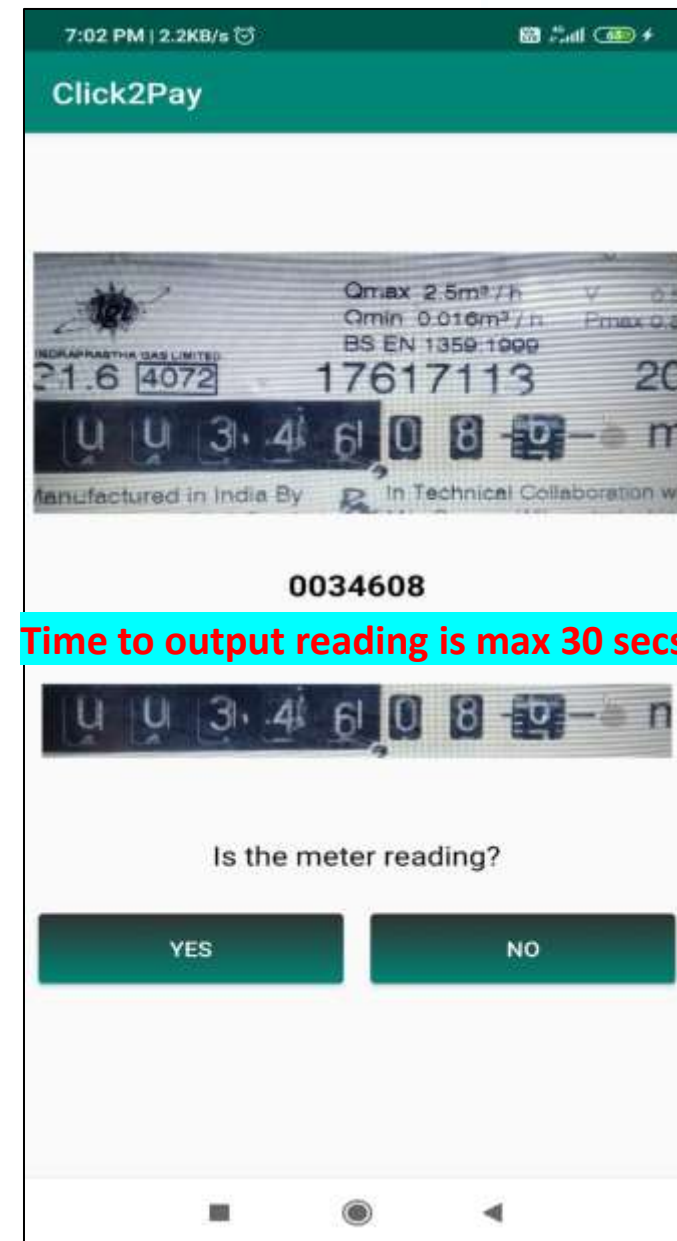
## FRAMING METER



## ARTIFICIAL INTELLIGENCE MODELLING



## CURRENT METER READING



## INSTANT BILLING FOR THE CONSUMER

**Click2Pay**

**Billing Details**

Previous Bill Amount	542741
Previous Meter Reading	0034608
Current Meter Reading	0034708
Current Consumption	100
Customer Category tariff	25
Current Consumption charges	2500
Arrear	
Penalty	
Taxes	450
Due Date	14-09-2020
Total Amount for the month	2950
Total Bill Amount after due3000 date	

**Invoice Details**

Invoice number	15000016255
Invoice Date	30-08-2020
Bill Amount	2950

**PAY NOW****PAY LATER**

## EXITING THE APP

**Click2Pay**

**Address |** K-1101  
11TH FLOOR TOWER K  
ARIHANT ARDEN GH07 SECTOR 1  
GREATER NOIDA EXTENSION

**Mobile No. |** 8527547612

**Email ID |** navin.jit@gmail.com

**Account Information**

Do you really want to logout?

**NO****YES**

**Meter Number |** 17617113

**Meter Make |** RAYCHEM

**Meter Model |** BK-G16

**Meter Serial no. |**

**Customer Join Date |** 18-05-2020

**READING****BILLING**

Team Size of 20 people

Order worth 0.50 Million USD



5 + PHD

5 + Data Scientist

5+ Data Engineers

5 + MBA

100 + Years Experience

Trained 2000+ Faculty

Trained 1000+ Students

Trained 50+ Corporate

Our Journey so Far



# Enablers

Guiding team



## Sumit Gupta

**Sumit** has been a solution evangelist for Smart Grid, Renewable Energy and Power Management in past. He brings in over 20 years of industry experience spanning over Domain of Energy & Utility, currently provide direction to **assetplus consulting** as **Founder and CEO, a startup**, focusing on strategic decision making support to Utilities .

### Sumit has contributed in Capacity as

- ✓ Program Advisor – Energy Efficiency & Adoption of Renewable Energy, with Ministry of Micro, Small and Medium Enterprise (MSME),
- ✓ Program Advisor on new initiative ie SOLAR ANALYTICS (Capacity building and Consulting) with National Institute of Solar Energy (NISE), under Ministry of New & Renewable Energy (MNRE),
- ✓ Program Advisor for Power Analytics initiative in India with National Power Training Institute (NPTI) under Ministry of Power
- ✓ Advisory committee Guiding International Solar Alliance (ISA), NISE & SECI on adoption of solar ( MICRO GRID, Off grid system )at AFRICA

***Sumit has been associated with AT Kearney , PricewaterhouseCoopers, SAS, in the past.***

- ***BE in Material Science and Metallurgy( NIT, Rourkela)***
- ***Post Graduation in Supply Chain Management (IMT, Ghaziabad) and***
- ***Advanced Management Program in Strategy & Leadership from Harvard University***



## Prasanna Jha

- Graduate **from IIT Kharagpur in Mechanical Engineering** with more than 15 years of experience in Product Design/Development , Management and Managing technical team. Prassana has been associated with PTC India in the past.
- In 2012, Prasanna has started my entrepreneurial journey by starting JhaMobi which is in mobile application development industry. Starting from market analysis, product planning, requirement gathering and analysis, code development to documentation.
- Has been a serial Entrepreneur start-ups like **Jhamobi & Mansionlee**



## Ratna Gupta

- **Ratna** bring in 20 years of diversified experience , worked for a decade in IT industry in Financial domain in technical and functional role
- She moved on to academia with the mission to create young mind focused on developing both professionally and spiritually , a combination which is a foundation for a future leader. She has dedicated a decade in Academia
- **Ratna has been associated with Ramco System, Microsoft, Infosys**
- **BE in Electronics & Communication ( BIT , Mesra, Ranchi),**
- **MBA Finance ( BIT , Mesra, Ranchi),**
- **Phd in Financial Derivatives ( BIT , Mesra, Ranchi),**



## Navin Kumar

- Head of Analytics with 14+ years of experience in Data Science, Analytics. Helping clients to leverage the power of AI/ML/NLP, Big Data, Cloud and Blockchain in their business to drive the value and streamline the existing processes.
  - Helped utility to understand their customer payment behavior and decide the strategy using ML algorithm. Potential value-add in ~5-7 Cr per month.
  - Helped Taxation department to utilize the analytics to deepen and widen tax base using AI and ML algorithms
  - Helped Baking Client to validate their existing transaction fraud models using AI/ML model validation techniques.
  - Helped Govt to understand the citizens issues and moods using social media analytics and grievance data.
  - Helped Telecom customer to identify the social media influencer model to reduce their camping cost and effectively target the potential brand ambassador.
  - Helped KPO customer to reduce the churn of their customers using ML models.
- 
- **Navin has been associated with TCS , SAS & EXL in the past.**
  - **He holds B.Tech in Computer science from JIT, Noida**

## YOUR PARTNER FOR CO CREATING SUCCESS



[www.assetplusconsulting.com](http://www.assetplusconsulting.com)

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