

**Deep Dive Workshop on
Artificial Intelligence and Robotics for Electric Utilities**

Organized by India Smart Grid Forum

Use Case of AI in Metering for Electric Utilities

Presented by

Tutor: *Sumit Gupta, Mentor & CEO,*

Asset Plus Consulting™

A decision science company for Utilities



Tuesday, 15th June 2021 | 17:30-19:00 (India) | 20.00-21.30 (Manila)



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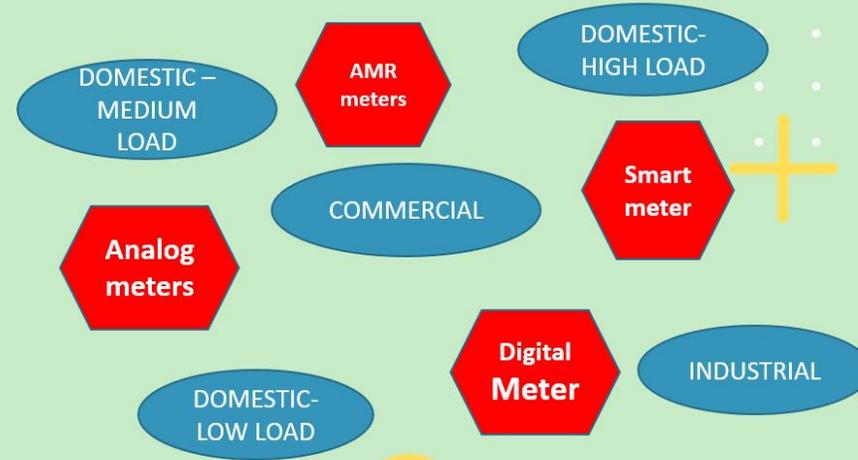
Industry Pain +Perspective from STRATEGY 5 for utilities

-the cost of **Metering, Billing and Payment Collection** is approximately 30-50 cents per consumer globally (*ie roughly Rs 20/- per consumer in India*) further the **METER PROBLEMS** causes erosion of topline by 10-15%.....any initiative in this direction would be a welcome move by globally utilities and hence give rise to smart technology adoption

And then we have COVID TOO!!

Strategy 5 firms globally are Mckinsey, BCG, AT Kearney, Bain& Co, Booz Allen Hamilton

Operation Efficiency Offering



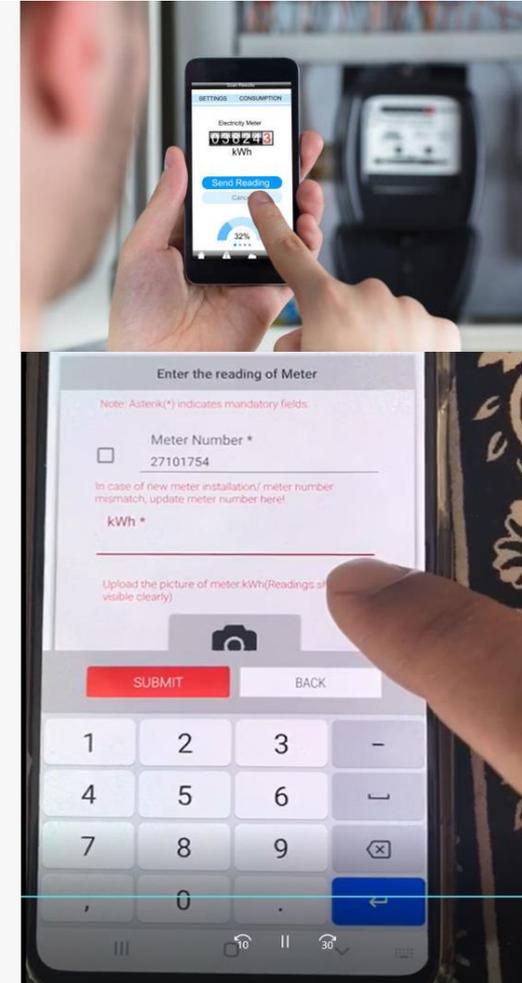
ARTIFICIAL INTELLIGENCE DRIVEN METERING



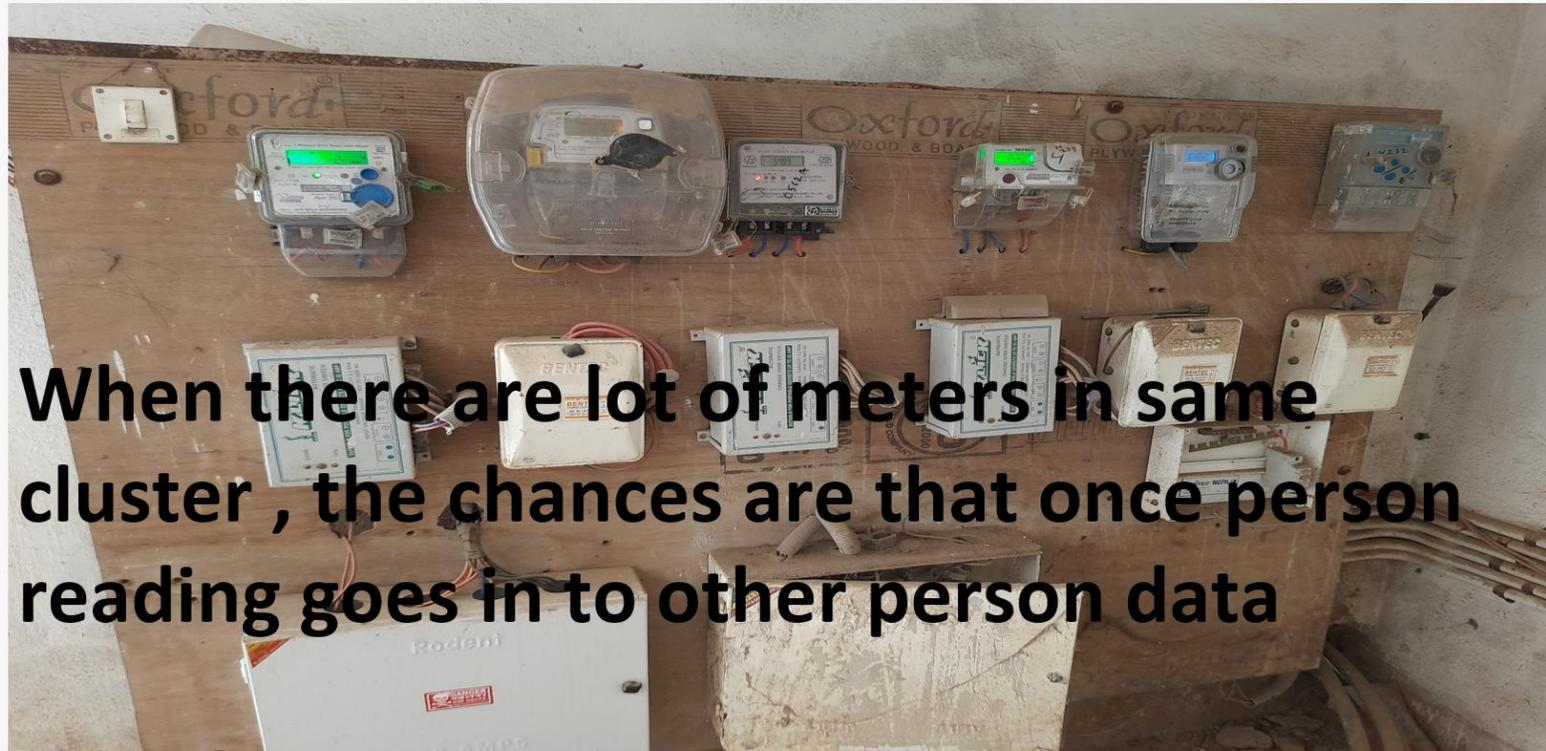
Business Challenges

Electricity companies can not do accurate billing as meter reading is entered or punched which is prone to errors

Meter readers/users not putting the data correctly intentionally or UN-intentionally



Business Challenges



Meter readers not putting the data correctly intentionally or UN-intentionally

Business Challenges

No relation established between the photos taken, CA#, meter number, latitude, longitude, meter reading

Images to be processed without human intervention and attached CA number with meter reading and meter number output



**We found the perfect solution to replace traditional meter reading
- one that will NEVER fail to deliver.**



An AI intervention that enable Metering, Billing
and Payment in just 3 clicks!

pandemic
resistant- never
look back to old
methods

GIS enabled to
capture location
details

pay anytime,
anywhere

no need for
physical meter
checking

reduces cost per
customer

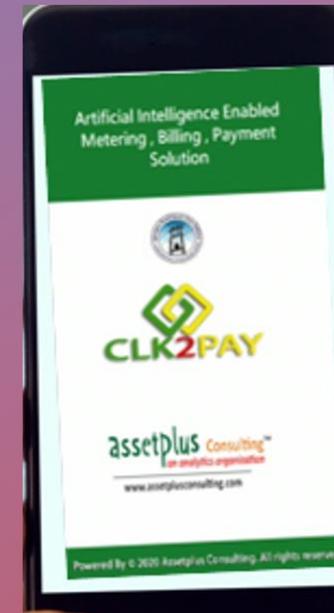


Complete Meter Image processing **offline AI** processing Validation and verification/ Audit check of spot/self/meter reader



**Meter reading
, Meter
Number
processing
Online AI
processing
using mobile
AI application**

CLK2PAY



Electricity Meter

CLK2PAY

SCAN → CONFIRM → PAY

Artificial Intelligence Enabled Metering, Billing, Payment Solution

General Information

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Account Information

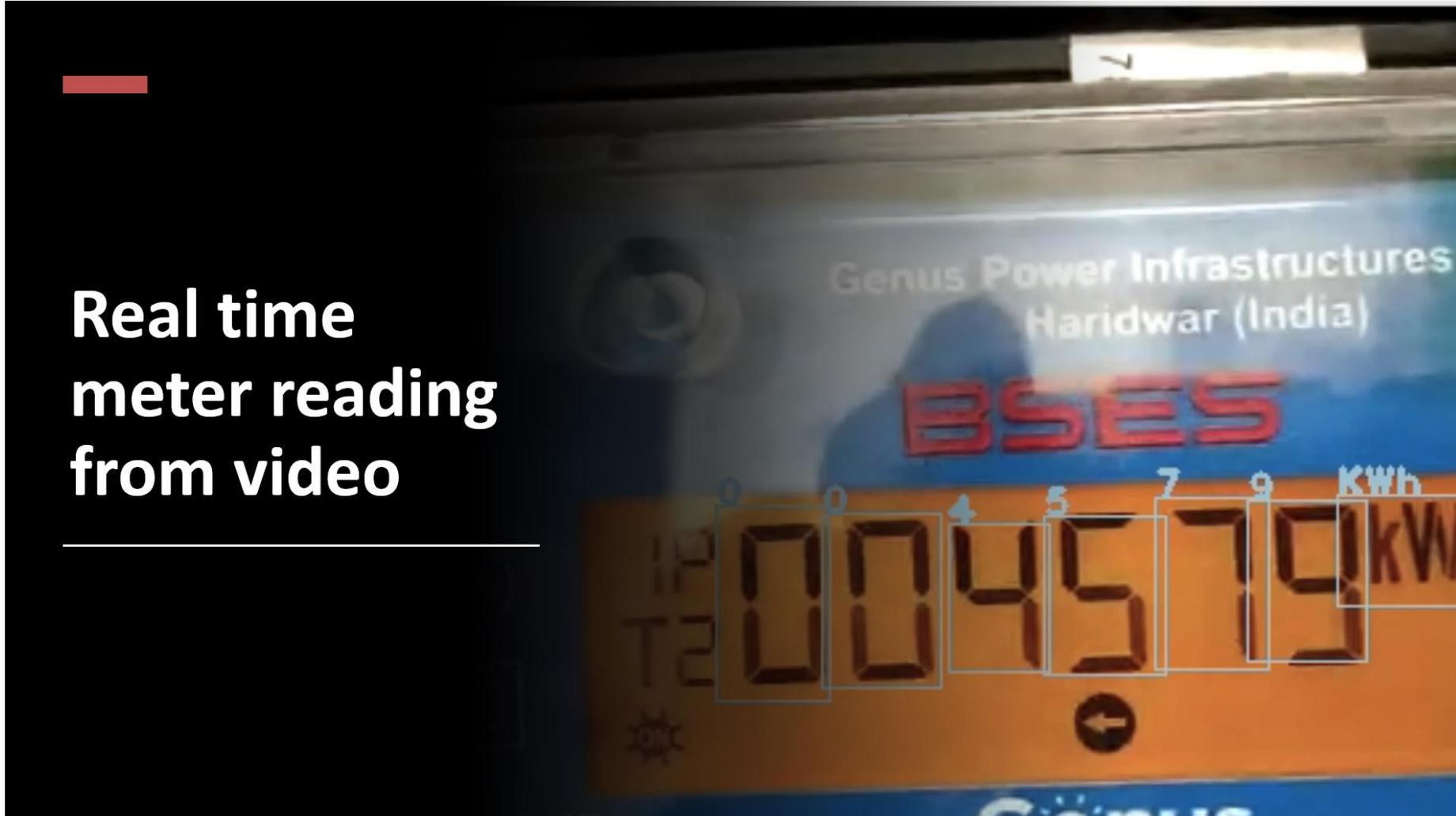
CA	9000078039
Tariff Category	Domestic
Pole Number	61524261

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**Real time
meter reading
from video**



1

Everyone uses the phone!

Our solution can be adopted easily by customers- without any hassle. Both in online/offline mode

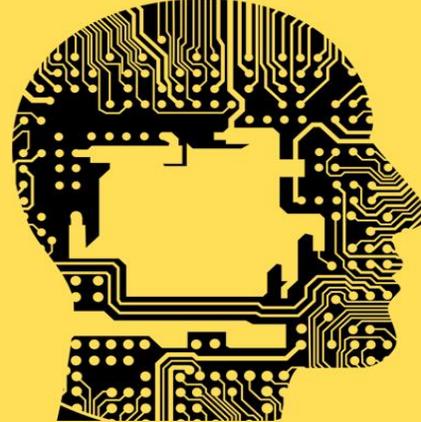
2

Customer bills can be printed out and given to customers

3

Utilities can see a **Revenue turnaround in a under 1 minute**- as compared to 1-7 days before.





AI
**IMPROVEMENT
IN PROGRESS**



**One Stop
solution for
Power/ Gas
/Water**



**Work in progress
with India's
leading utility
(Gas/Power)**

Traction

Question and Answers

Thank You

For discussions/suggestions/queries email:

Links/References (If any)