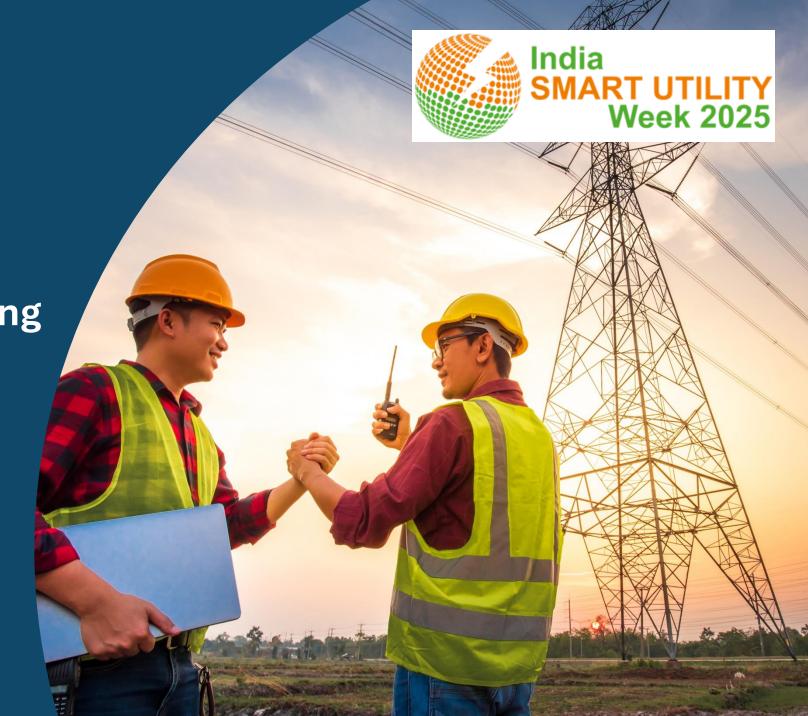


Navigating India's AMI
System Challenges Using
Futuristic Architecture

A Case for Al Enabled Meter Data Systems

Rohit Pareek

Chief Product Officer, Impresa.ai



India's AMI Challange

1

Unmet RDSS Goals

Utilities are struggling to meet RDSS AMI targets 2

Persistent Project Delays

> Ontime go-live, Important for revenue realization of AMISPs

3

The SLA Challenge

Its hard to measure and meet SLAs



Deficiency in Future Readiness

Lacks ability to take next steps with "Beyond the Meter" story.

India's AMI Crisis

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Top Reasons

Decades old system architecture





Fragile integration between IT-OT systems

The Consequences!



India's AMI Crisis

impresa, di Smart.Simple.Innovative

Example: Why Traditional MDMs are Failing











Monolithic Architecture and Lack of Cloud Nativity Siloed Approach to Critical Business Functions e.g. SMOC Missing Al Advantage.

Traditional Ways of Integrations are fragile and erroneous.

Future-Ready Architecture



Key Elements



AI-First Approach – Intelligence to detects anomalies & fraud in real time.



Cloud Nativity & Edge Computing – Eliminates system overload & improves scalability.



Seamless AMI Integration – Works with AMI, billing, CRM, and IT/OT systems.



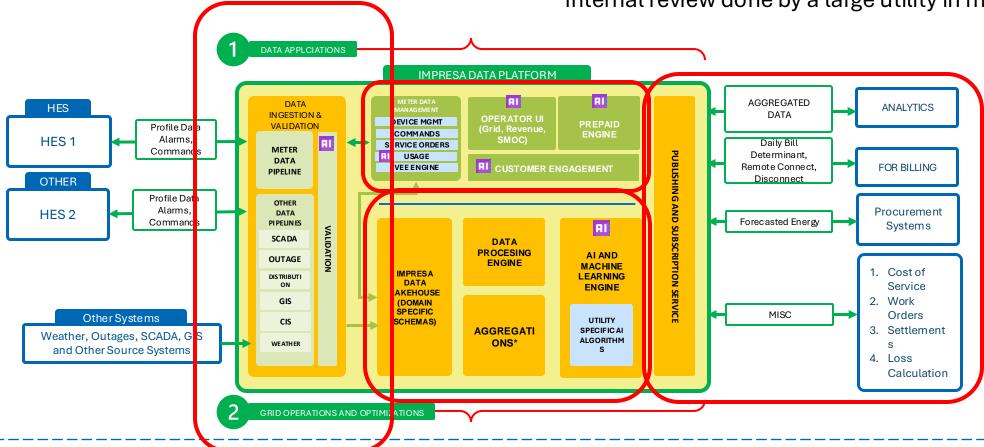
Automated Compliance – Built-in/pre-integrated Prepaid Engine, SMOC, Customer Engagement, alignment with RDSS AMI mandates.

Reference Architecture



An Integrated Meter Data System

Ranked #1 by GARTNER in AI platform landscape in an internal review done by a large utility in mid-east.





PREBUILT DATA
PIPELINES
(INTEROPERABLE, CIM COMPLIANT)



AI-FIRST APPROACH (FASTER AVAILABILITY OF DATA FOR BUSINESS USE)



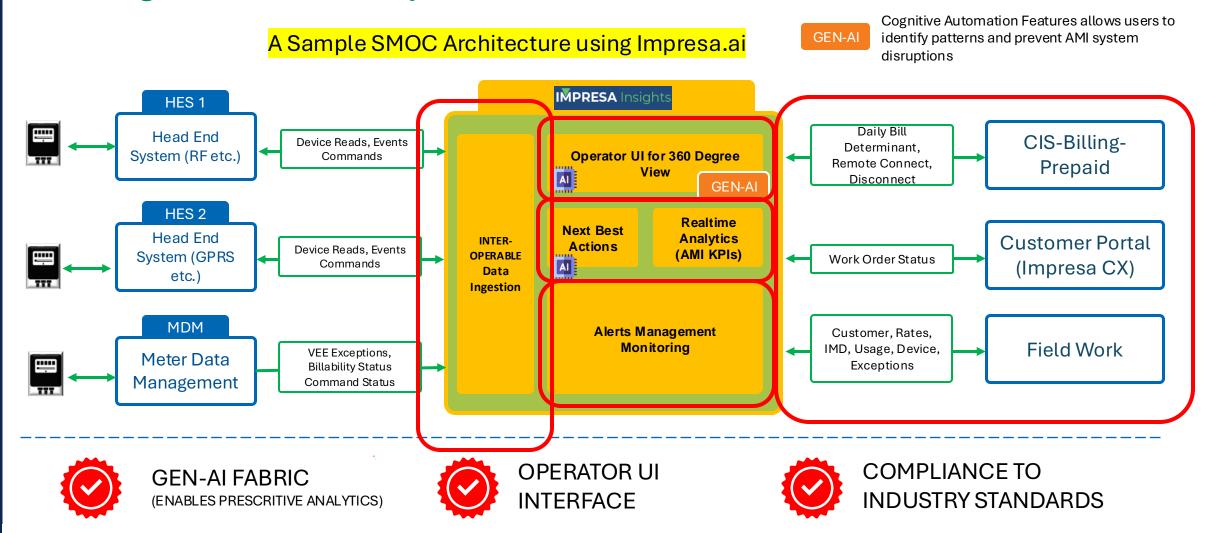
READY FOR "BEYOND THE METER" STORY

(GEN-AI FABRIC, PREBUILT AI USE CASES)

Reference Architecture



An Integrated Meter Data System



Reference Architecture



A Future-Ready, Disruptively Enabling The Path Forward

We have experienced



75% Reduction in Total Cost of Ownership



Flexible Scaling for Business-Critical Days in The Day/Month



99.99% Meter Data Accuracy using Al Processing



Interoperability - New Age Integration Architecture



How a Major Utility Gained from Beyond The Meter Capabilities

A CASE STUDY

Client : Large Utility in Mid-East, 1.5 Crore Smart Meters

Challenge: Cost of ownership of traditional systems, system reliability, system rigidity for handling large

number of registers. **Inability to use data** for "beyond the meter" Al use cases.

Solution: Impresa Meter Data Hub and AI platform.

OUTCOMES

- 4 Year Roadmap for leveraging AI for business operations and customer service
- Iterative go-lives of value-added functionalities every 3 months.
- Operational costs are ~15% of traditional MDM.
- Faster, value-driven country-wide rollouts

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TAKE NEXT STEPS!

To know more
Contact me at **+91-9701420310.** or
Visit **WWW.IMPRESA.AI**



BOOTH # 1

