

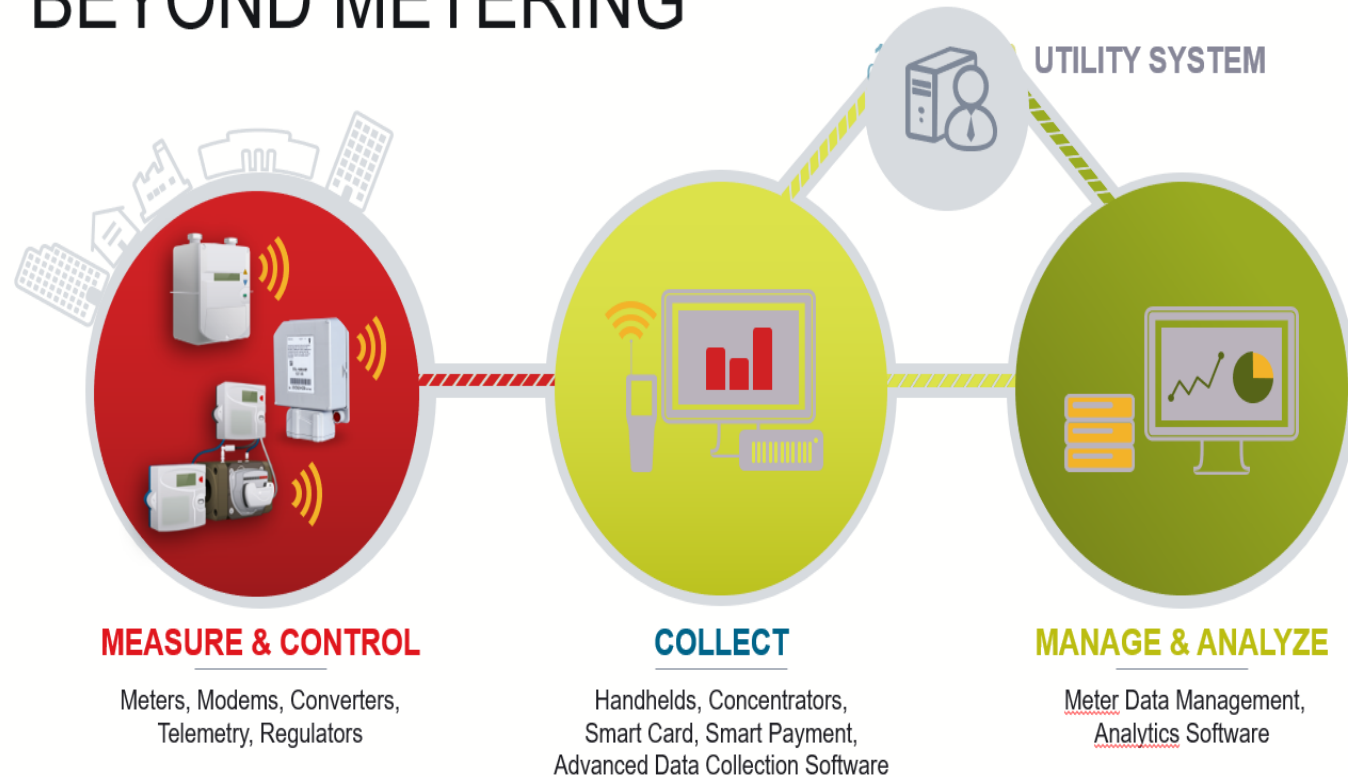
New Technologies, Innovations and Trends in CGD

(Digitalization: Smart Metering, Meter Data Management, Analytics and Dash Boards, IT and OT Convergence)

Speaker : Vinay Dixit,
*National Manager,
Itron India Pvt. Ltd.*

- Digitalization: What?, Why? & , Need?
- Smart Metering : Domestic, Commercial & Industrial
- Meter Data Management: **Handle Multi HES, Data Repository & VEE!**
- Analytics and Dash Boards: **Humongous Data what to be Done?**
- IT and OT Convergence: **IT integration for data-centric computing with operational technology (OT) systems used to monitor events, processes and devices and make adjustments in enterprise and industrial operations.**

BEYOND METERING



WHAT IS AT STAKE?



- Accuracy & Timely billing, no average low billing
- Improved customer satisfaction
- Focus on core business
- Operational efficiency in meter to Cash Process
- Domestic/Residential under AMR Solution, step towards smart / digitization

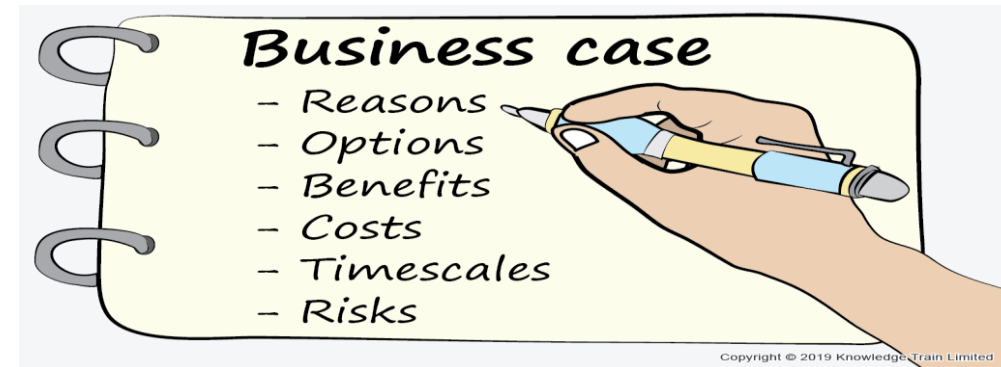
- **Key Drivers:**



- Automated meter reading & Alarm of data.
- Billing interface to SAP,
- Single end to end solution provider for New Infrastructure, software and services for implementation and operations mgmt.
- Proven and scalable Solution
- Dashboard & Analytics
- Gas reconciliation.

- **Business case:**

- Automation of Meter to Cash Process
- Accurate readings includes alarms & Temper (If any)
- Billing without any manual interference
- Support Integration to SAP billing System
- Timely & accurate billing
- Gas reconciliation.



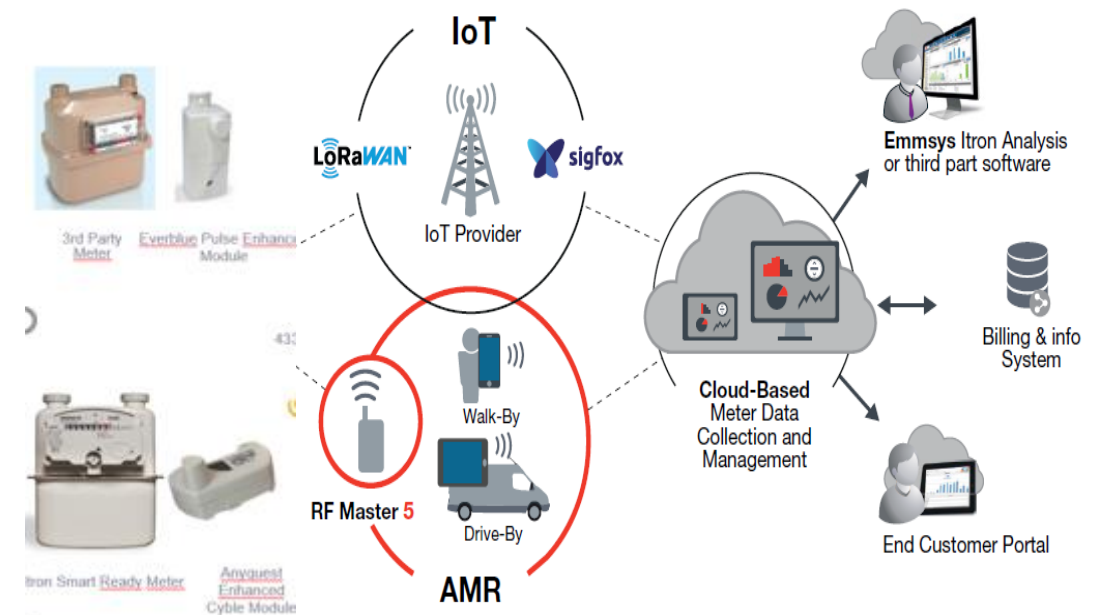
- RF Walk By / Drive
- RF Fixed N/w with DCU (Data Concentrator Unit)
- RF LoRa WAN P2P
- RF Mesh
- GSM / GPRS P2P
- NbloT



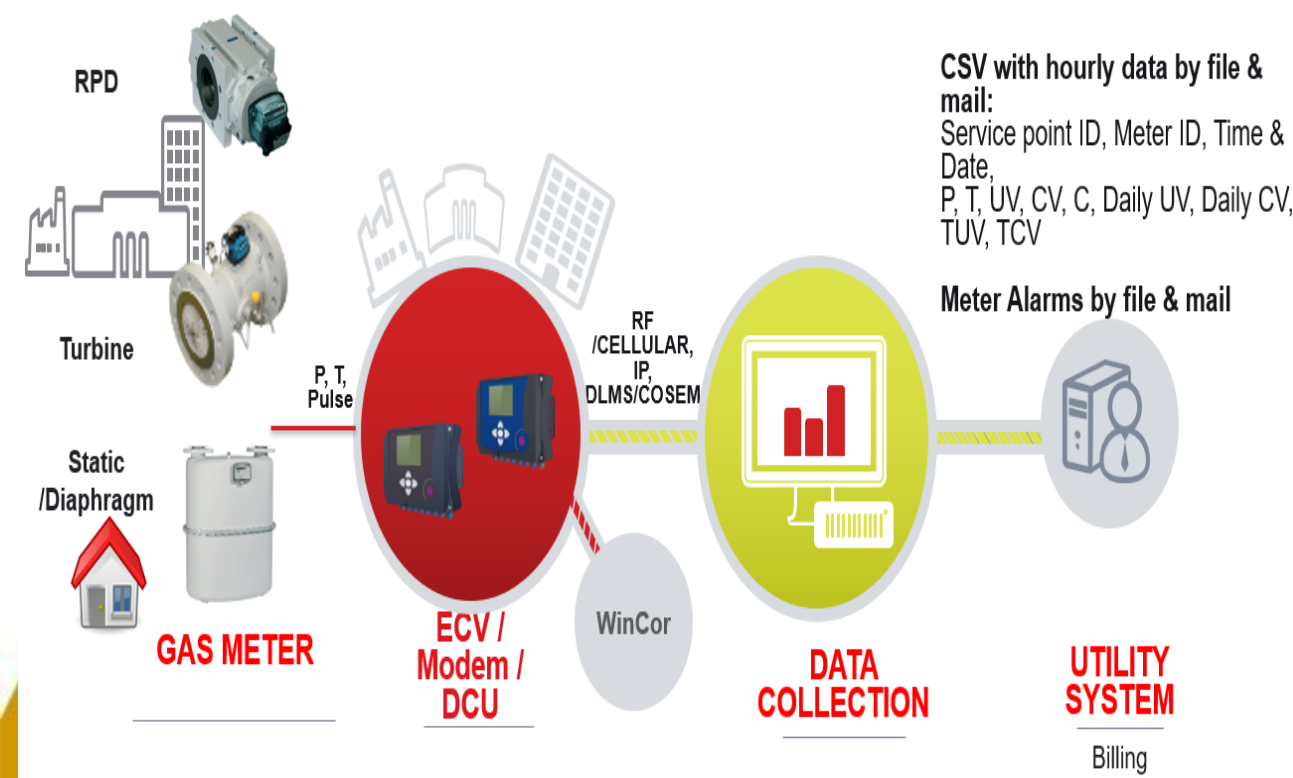
RF Walk By / Drive By /DCU



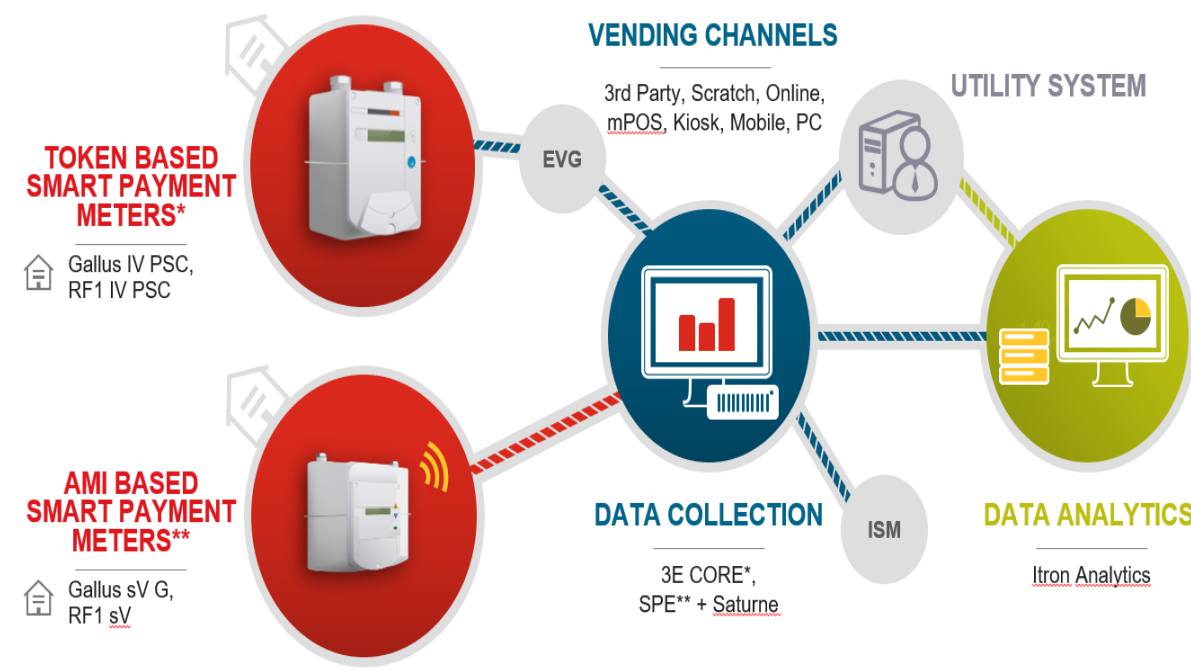
LoRa RF for Domestic



GSM / Nblot /GPRS P2P



Prepaid Metering



Indian Largest Domestic Gas AMR IGL of 280k nos. end points

- Project is based on successful pilot started & implemented in 2010-11 for 2.2k nos. points and still running successfully till date executed by Itron India.
- 280k nos. AMR project includes:
 - 10 years Managed Services
 - Integration with ERP (SAP)
 - Asset Management & Geo Tagging.
 - Smoothening Meter to cash process
 - On SaaS platform: No IT server investment & related services
 - Greater operational efficiency



- Choice of the Technology absolutely based on use case but most important points to be taken care:
 - Revenue Protection + Greater Operational Efficiency + Asset Management
 - N/w Optimization & management
 - S/w as a Service Vs Managed Services
 - Investment (CapEx Vs OpEx or CapEx cum OpEx Model)
- Key factors:
 - Scalability + Reliability + Proven + Repeatability
 - Pros & Cons
- Recommendations:
 - Technology evaluation considering its global footprints & 360° PoC @RPF Stage.
 - QCBS (Quality and Cost Based Selection) for Technological deals.

Thank You

*For discussions/suggestions/queries email: www.indiasmartgrid.org
www.isgw.in*

[Links/References \(If any\)](#)

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