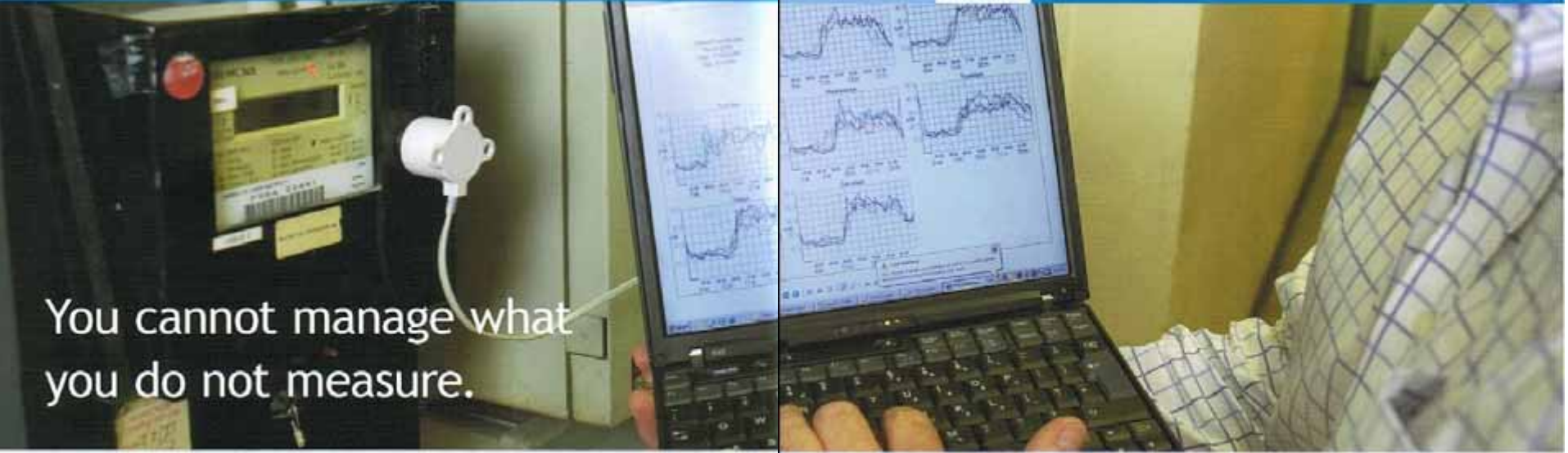


Improving Gas Consumption Data

Using the
AMR Service Provider Code of Practice

Nigel Orchard - M.D. Pilot Systems



You cannot manage what you do not measure.

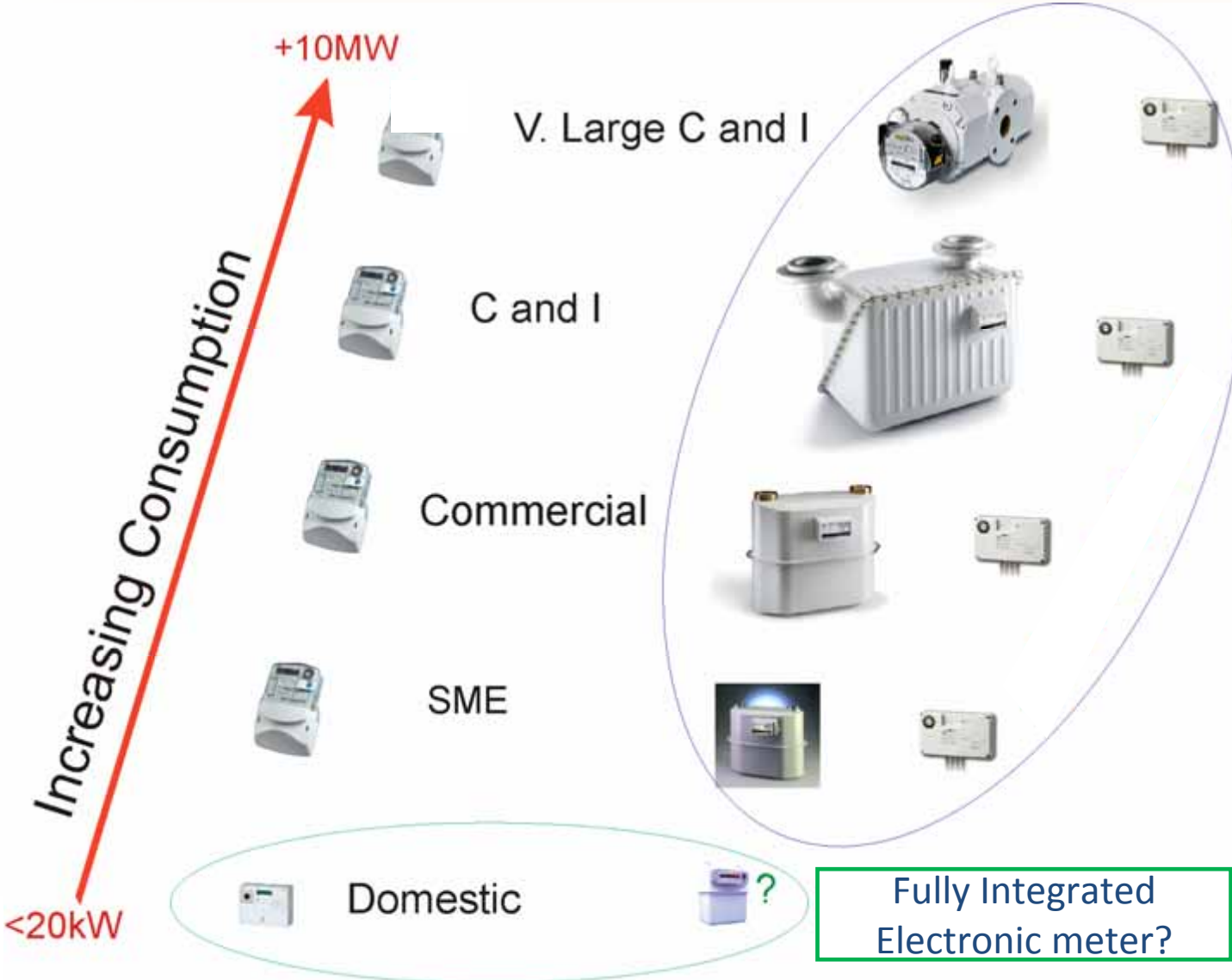
Areas Covered

- Background and Drivers
- Typical Meter Installations
- Unique problems in gas - Equipment Chains
- GM7 and hazardous Areas
- The ASPCoP
- Meter Pulse Utilisation (MPU) Agreement
- Summary

Background and Drivers

- AMR Changes in Skill Level
- DECC development of Advanced & Smart Functionality Concepts
- European Directives - Energy Services directive
- CRC - carbon reduction commitment
 - AMR required to achieve reporting criteria
- Supplier Licence Obligation
 - Advanced on sites >25k Therm's by April 2014
- Development of GM7
- AMR Installation not subject to specific Governance

Gas Smart metering



A range of meters are needed to measure over the full range.

Communications is added by an external Logger.

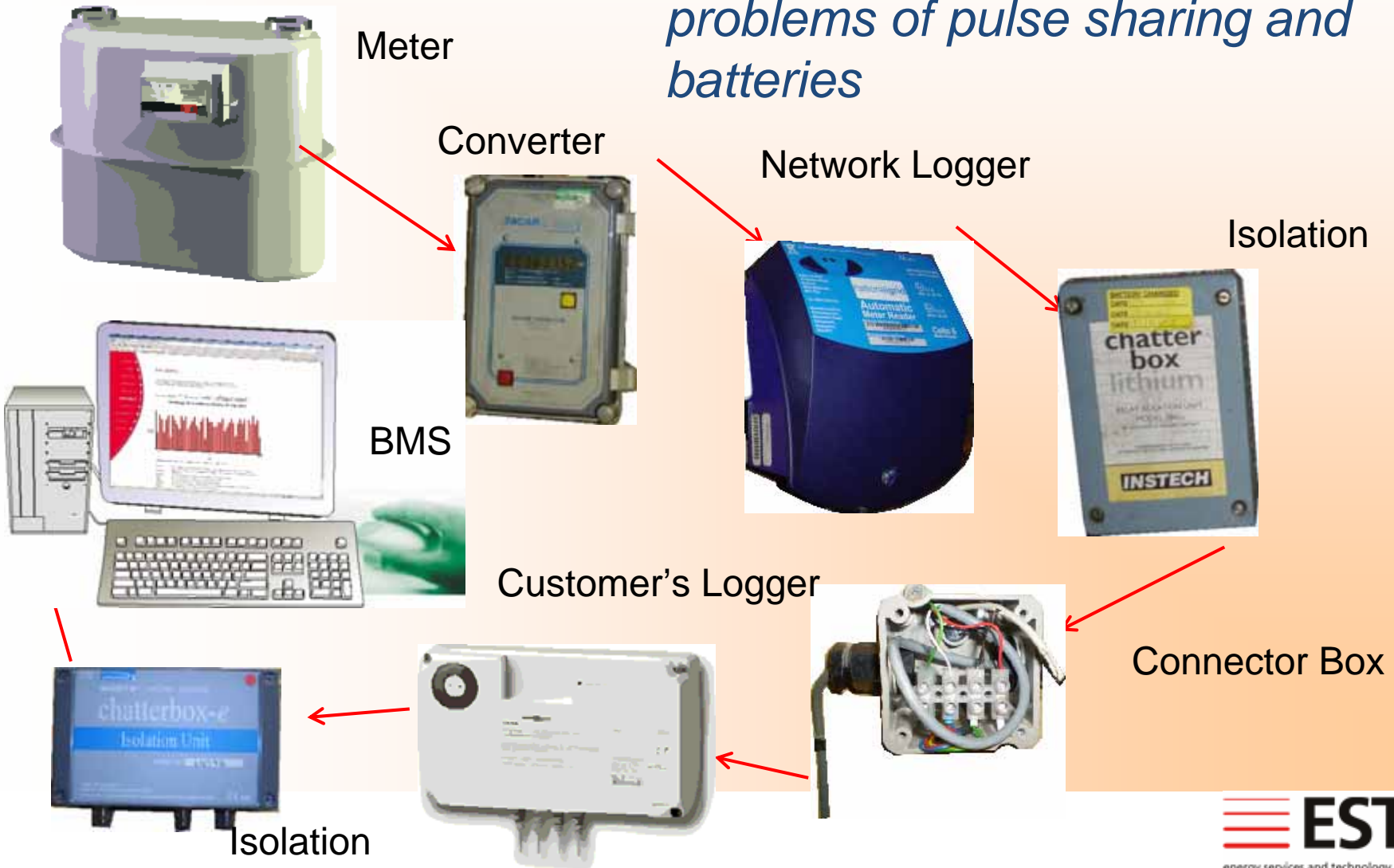
Typical Installations of Gas Meters



Large and Complex

Complex Installations and Chains

*Connection of Multiple Devices
problems of pulse sharing and
batteries*



Key Stakeholders

Complex and multiple relationships

End User	the party using the energy
Energy Supplier	the party supplying the gas
Customer	the party paying for the equipment and service (this may for example be the End User or gas supplier)
AMR Manufacturer	the party manufacturing the AMR equipment
AMR Service Provider	the party providing the AMR service
MAM	Meter Asset Manager - the party who manages the Meter asset
Shipper / Distributor	the party transporting the gas to the delivery point
Auditor	the party that verifies self-certification
Ofgem	the regulator
ESTA	the author and maintainer of the document
DECC	the party replacing Defra and BERR
SPAA	Supply point administration

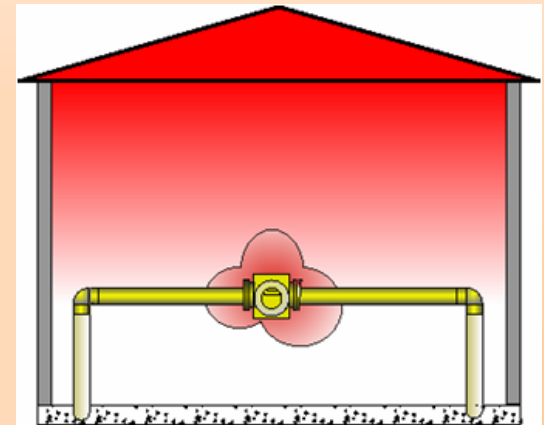
IGEM/GM7 – Industry Reference Document for Attaching to gas Meters



IGEM/GM/7 is the industry accepted bible on requirements for the selection, installation, inspection and maintenance of electrical equipment connected to gas meter installations and zone calculations.

Commercial and industrial application will be more complex and subject to hazardous zone classification.

Industry expects all equipment to be Zone 0 certified. Zone 0 is a definition of a hazardous zone demanding intrinsic safety



Why have a Code of Practice?



- To date there has been little overarching Governance over the provision and installation of AMR Equipment by Service Providers
- ESTA has taken the initiative to develop, promote and manage a Code of Practice.
- ASPCoP has been developed through consultation with stakeholders from industry including consumers and special interest groups.
- It is overseen by a Management Committee made up of representatives from industry and other interested stake-holders
- ASPCoP is not law, but it should be followed unless there is an alternative course of action that achieves the same or better standards.

Benefit of ASPCoP to Customers and ASPs

- Provides an harmonised Governance structure
- Improves customer confidence
- An easy method of proving compliance with industry standards
- Ensure customers have access to a reliable installer who understands the practical issues associated with gas AMR services
- Ensures better quality of install and service
- In the future is likely to be requested by customers and specifiers
- ASPs must demonstrate they are compliant by an independent audit



ASPCoP - Safety and Installation

- ASPs must comply with industry standards for gas safety (reference to IGEM GM7 technical standard)
- Works must be done by competent persons
- Training is required and proof of training
- An appropriate level of public liability insurance must be provided



ASPCoP - Data Accuracy Assurance

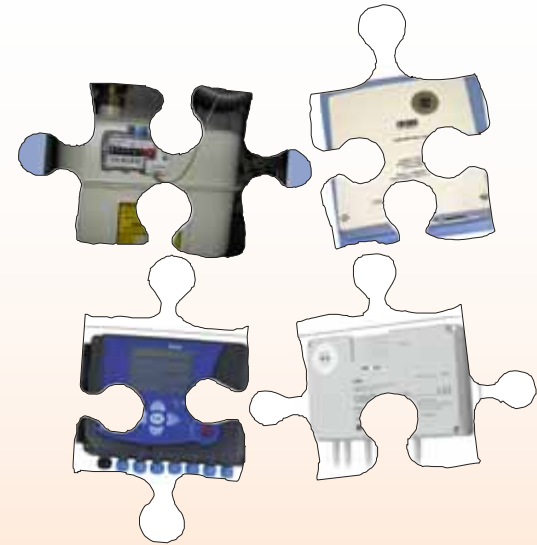
- Demonstrate end to end data integrity
- Operate robust processes including data recovery and disaster recovery
- Data Security including a public data protection policy
- Must demonstrate full end to end data compliance in collection and delivery
- Aim is for a common standard such that any supplier will accept data



ASPCoP - Interoperability

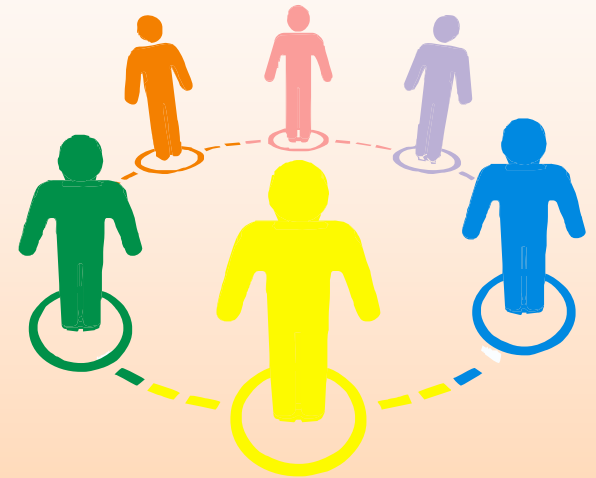
Data standards will allow interoperability and a data/system level.

- At the system level and not attachment to meter
- ASPs to engineer systems to receive AMR collected meter reads in standard data formats.
- Achieve interoperability between AMR service providers (ASP) and other market participants
 - A level of interoperability will allow all market participants to design software to anticipate a common form and promote competition in other services.
- Short term – close as possible to current
- Long term - XML



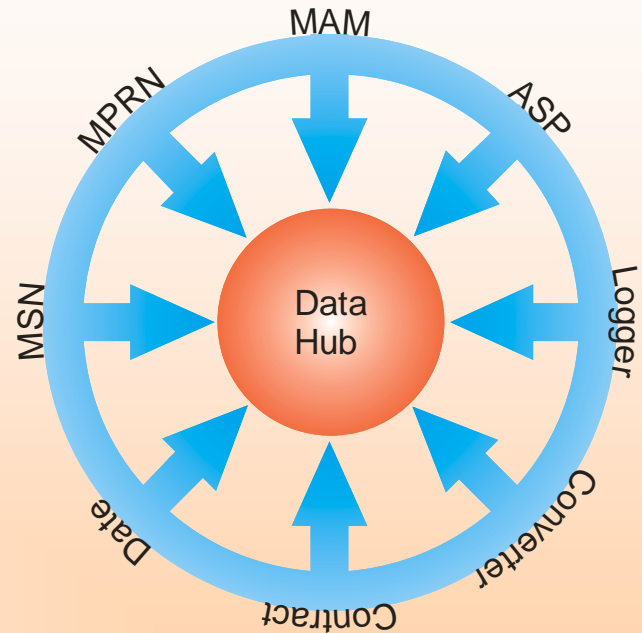
ASPCoP - Governance

- ESTA manages ASPCoP on behalf of the industry
- ESTA have formed a Management Committee
- Members are from stakeholders within the industry – suppliers, ASPs, MAMs and consumer groups
- A formal Change Control Process has been initiated and changes will be reviewed by an expert group of stakeholders and ESTA members



Data Hub

- The Hub is intended to provide a secure, one-stop data interchange
- Aim is to help with collating and monitoring of key data relating to an AMR installation
- Collect and store data from different sources and make it available to those who need to use it.
- Aim is to minimise disruption and effects of chains



MAMCoP and New MPU Agreement

- MPU agreement is a contract between the
- Meter Asset Manager (MAM) and ASP to
- allow connection to the meter

- Anyone connecting a device to a meter **MUST** have signed an MPU agreement with the appropriate MAM

- New universal MPU being developed by Association of Meter Operators (AMO)

- This will cover arrangements between the MAM and the party wishing to connect to the Meter.

- ASPCoP membership provides a route for compliance with the requirements of the MPU



Current Members and Administration

SIEMENS



i n v e n t s y s
IMServ

ASPCoP Administration

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E: aspcop@esta.org.uk

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Summary

- ASPCoP now launched and provides practical guidance and advice on how to achieve the standard
- Number of companies registered and more pending
- Further developed through consultation with representatives from industry and stakeholders
- ASPCoP is not law but will increasingly be specified by interested parties as a requirement