

Mobile Broadband Technology Transformation

Information Technology & Innovation Foundation

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Elster Solutions

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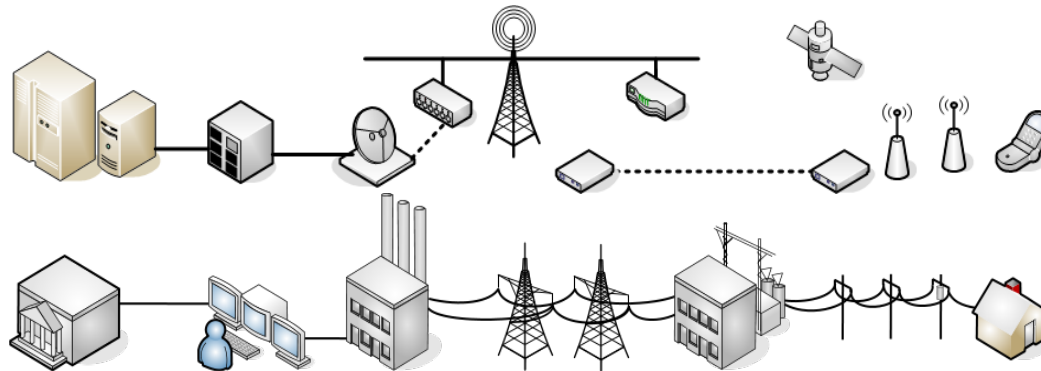


Elster Profile



- A world leader in Advanced Metering Infrastructure (AMI) with 175 year company heritage
- First commercial RF mesh technology, which is now the leading architecture (2003); residential meter capability substantially increased (REX2 2008)
- End to end solutions—Meter Data Management to Home Area Network; growth into Distribution Automation
- Elster offers a WAN direct connected option architecture for smart grid applications requiring additional bandwidth (2009)
- Major increase in cybersecurity in System 7.0 (2010)
- 4 million two-way smart electric meters shipped from our NC plant; one-third of this exported
- Elster is creating and keeping “green” jobs here at home, factories in OH, NC, NE, and FL (1800 employees) and direct supplier base is overwhelmingly US

What is the Smart Grid?

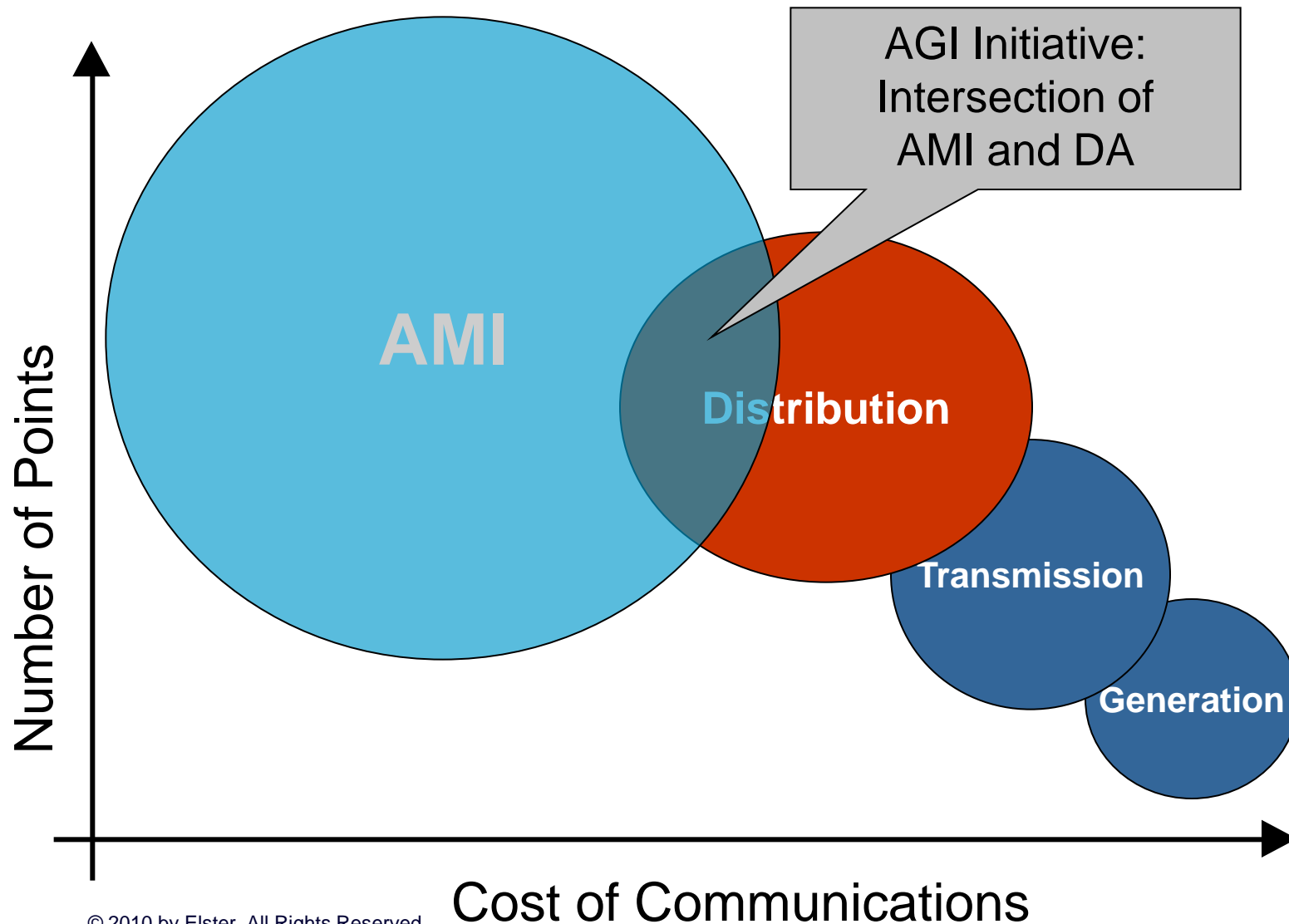


The overall system resulting from the integration of digital data sensing, computation, reporting, and control with the existing analog electric power system.

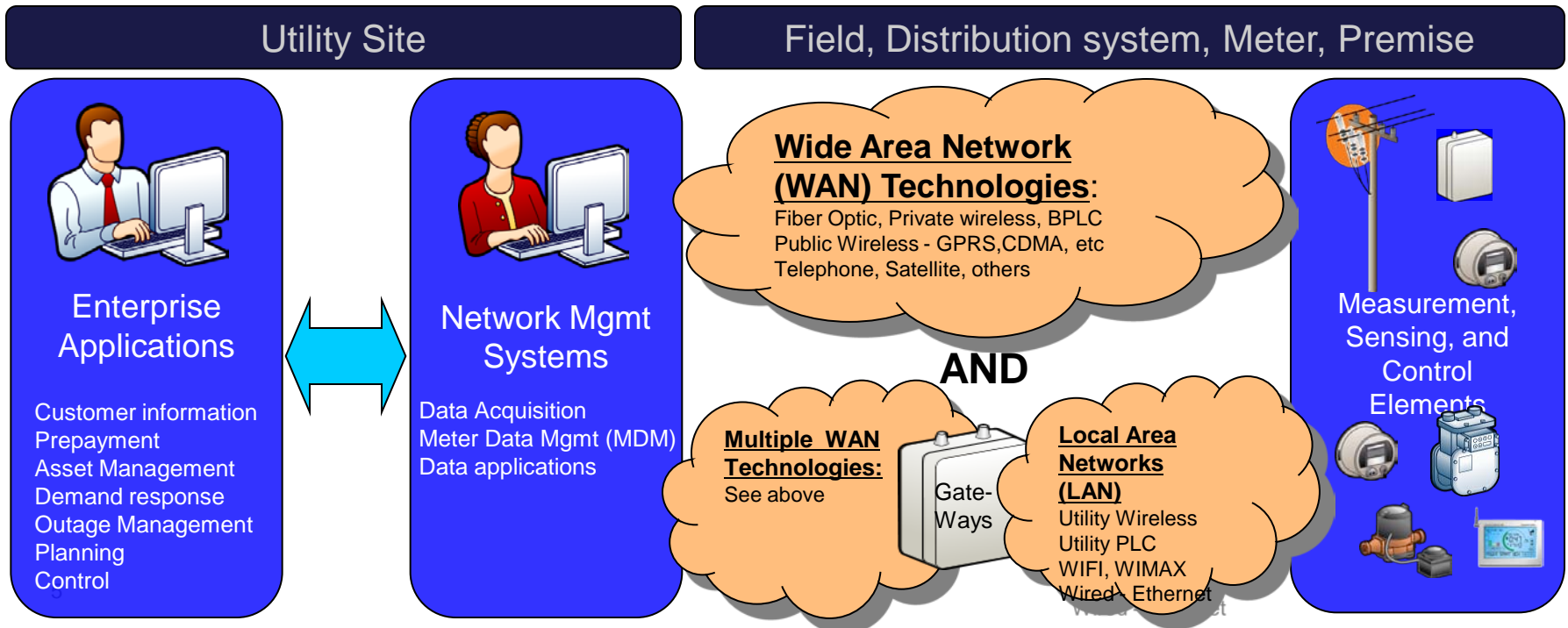
Significant economic benefits stem from increasing the productivity of physical assets and more closely reflecting costs of production in retail energy prices

The widely used diagram above was developed by the Electric Power Research Institute to illustrate this concept

AMI Enables Economical Communications



Elster Architecture Offers Choice



Low Voltage AGInode™

Distribution Transformer Monitor



Benefits

- **Safe**
- **Accurate measurements:** integrated with Elster REX2 or A3 ALPHA metering platform
- **Easy installation:** overhead and underground
- **Cost effective:** leverages EnergyAxis AMI communications infrastructure

Connectivity

- EA_NIC (900 MHz RF mesh LAN)
- W-WIC (Public wireless CDMA/GPRS WAN)

Summary



- Elster continuously introduces new technology to provide market leading solutions
- Elster designs cost effective systems based on customer requirements and other factors, including the availability of commercial broadband and/or dedicated utility spectrum
- Elster has numerous business partners (including competitors) and welcomes new relationships as needs evolve over time

Thank you

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