



QUANTA
TECHNOLOGY

the power of

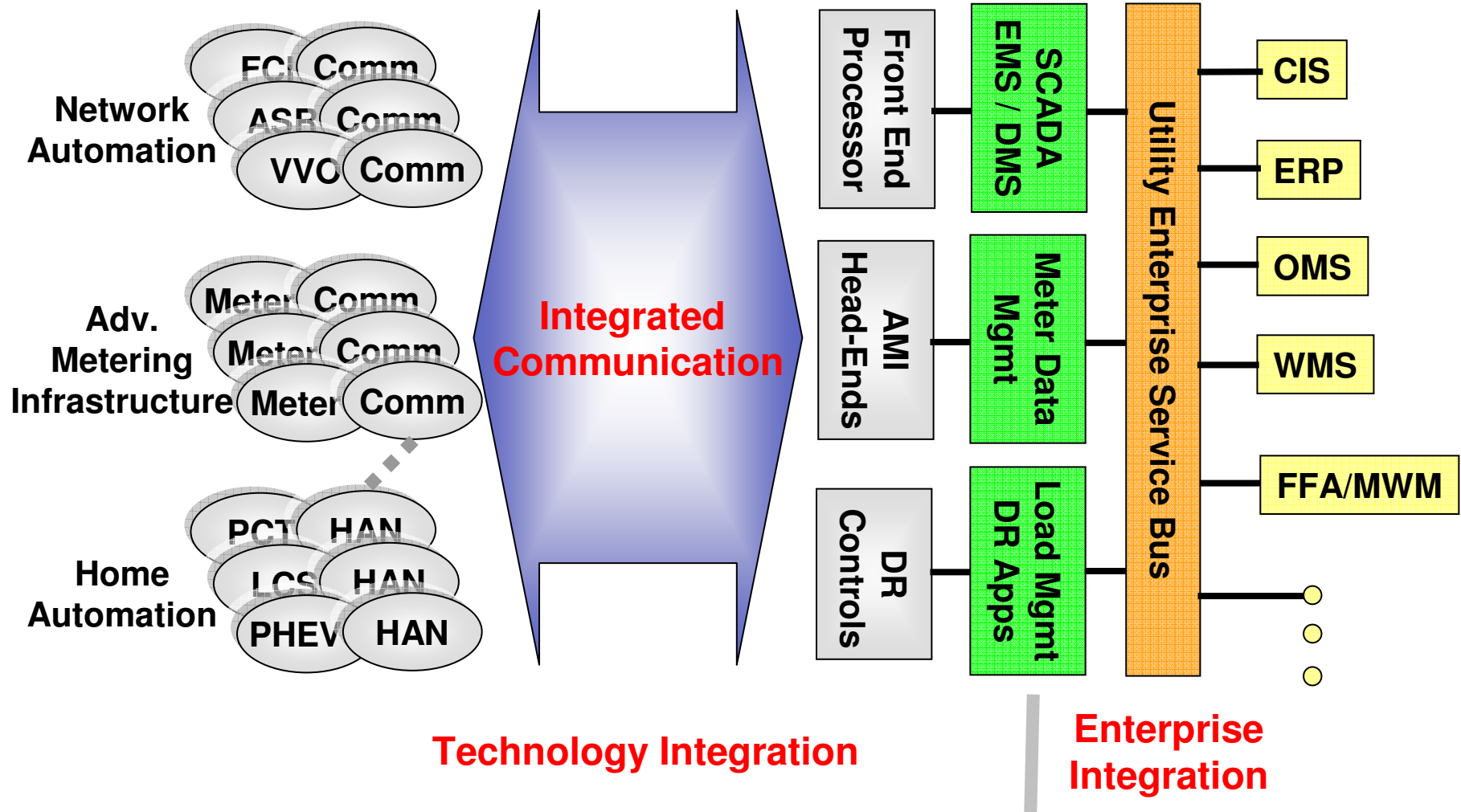
Enterprise Info Mgmt for Smart Meter, Smarter Grid

*Hahn Tram
CMU, March 10 2009*

Focus: Smart Grid/Smart Metering Data Mgmt

- To facilitate operation and maintenance of the Smart Grid/Smart Metering infrastructures
- To achieve benefits throughout the utility enterprise
 - System planning & operations
 - Customer service

Technology & Enterprise Integration



Smart Grid/AMI Asset Mgmt

- Asset data management
 - Deployment
 - O&M
 - Restoration after storm
- O&M represents >25% of total cost of ownership
- Becoming critical infrastructure for utility ops
 - Cash register – revenue management
 - Energy mgmt – energy conservation and efficiency
 - Distribution operations and management – reliability

Asset Management

- Tracking the data from order to inventory, from installation to O&M and retirement
 - Physical data – make and model, etc.
 - Installation data – location and connectivity
 - Configuration and configuration settings
 - Operating status
 - Testing, maintenance, work schedule/status...
- Smart Grid/Smart Metering asset challenges
 - Volume, geographic distribution, configurability

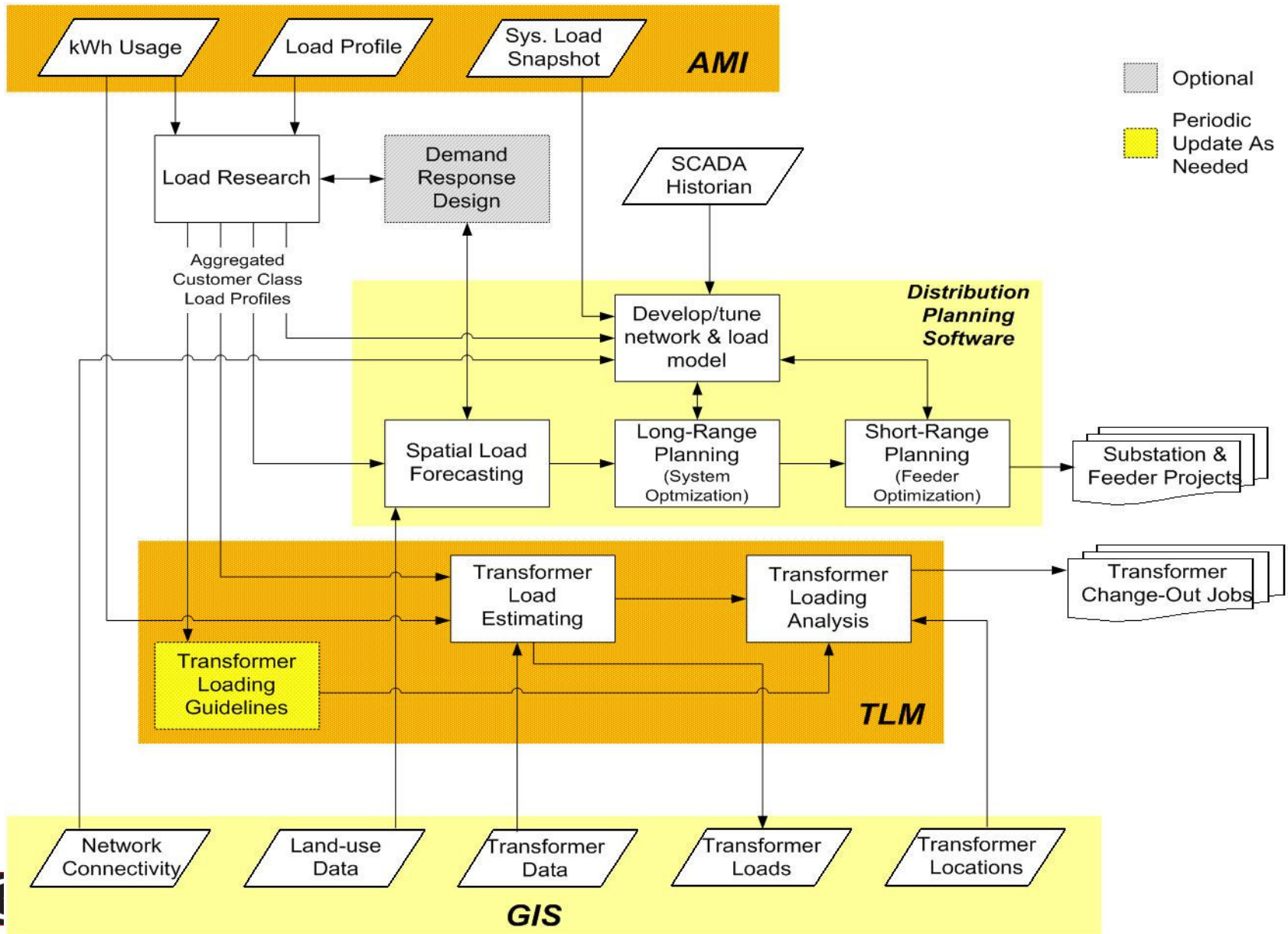
System of Record?

- System-of-Record (SOR) decisions make big differences in integration architecture, system integration efforts, and asset mgmt processes

	CIS	ERP	GIS	App (MDM, SCADA, etc.)	Comm Head-end
Physical Data	SOR?	SOR?	SOR?	SOR?	SOR?
Location & Connectivity	SOR?		SOR?	SOR?	
Configuration & Settings	SOR?			SOR?	SOR?
Operation Status				SOR?	SOR?
Test, Maintenance...		SOR?		SOR?	

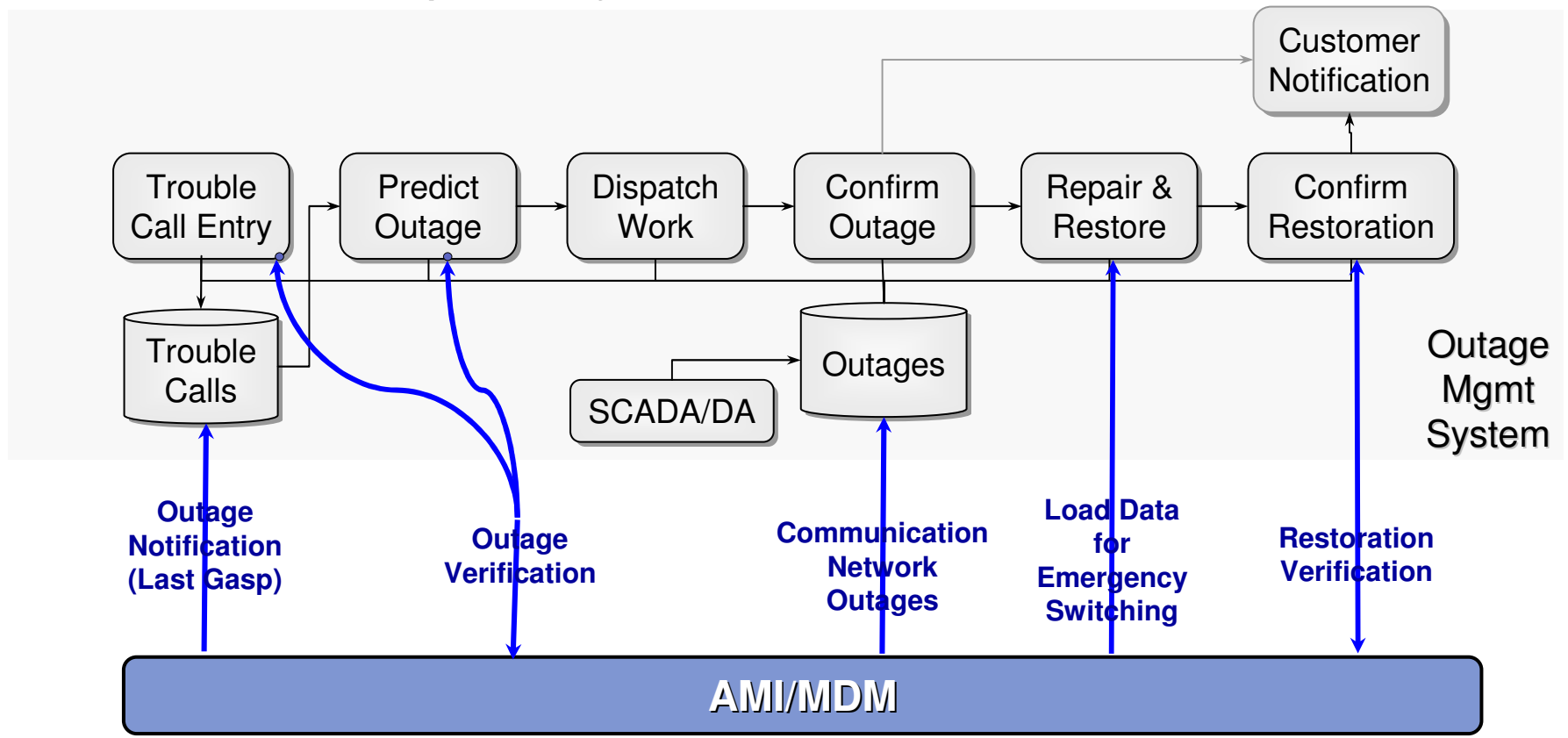


Integration for Planning & Engineering



Integration for Outage Management

- **Better customer perception**
- **Reduced outage duration**
- **Increased crew and dispatch productivity**
- **Reduced outage duration**
- **Improved AMI data availability**
- **Reduced outage duration**
- **Increased crew productivity**
- **Better customer satisfaction**



Are You Ready

- Utilities are rushing to deployment of Smart Grid
 - Advanced T&D Automation
 - Advanced Metering Infrastructures
 - Demand Response and in-home programmable & communicating devices
- Are info systems & biz processes in place?
 - Collect and manage asset data at deployment
 - Leverage device and system data & functions to realize benefits during and after deployment
 - Sustain benefits through effective O&M



Questions?

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