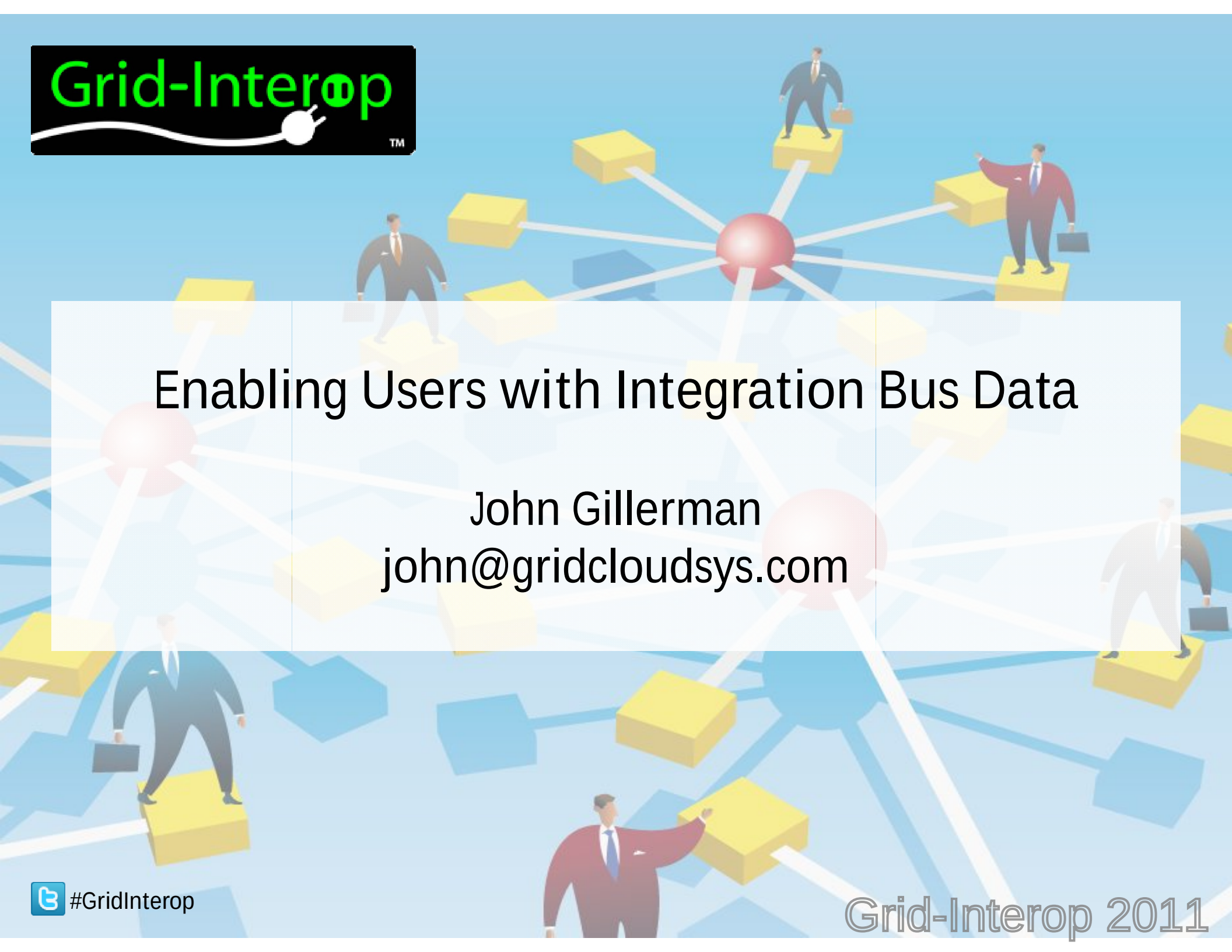

Enabling Users with Integration Bus Data

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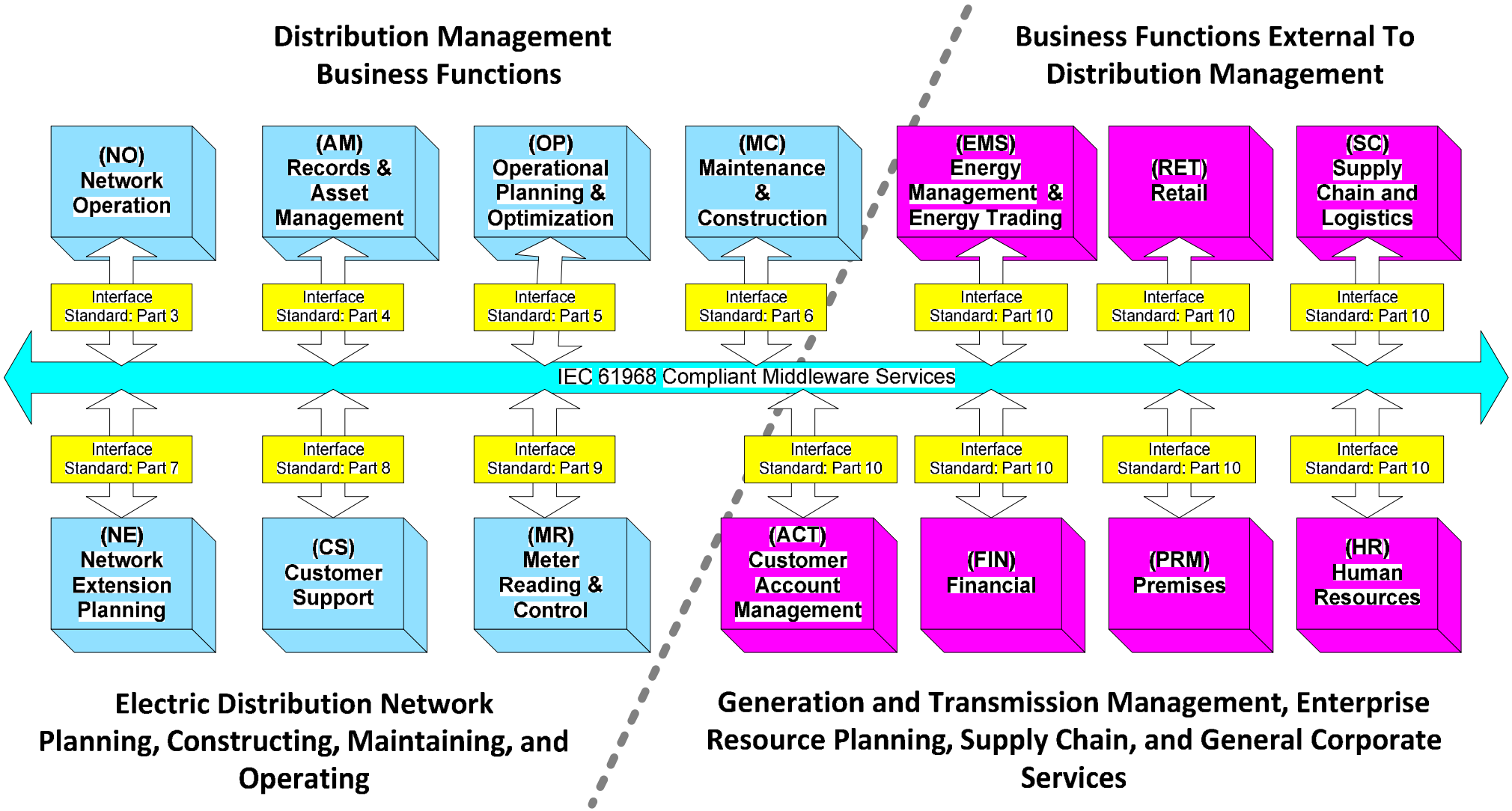
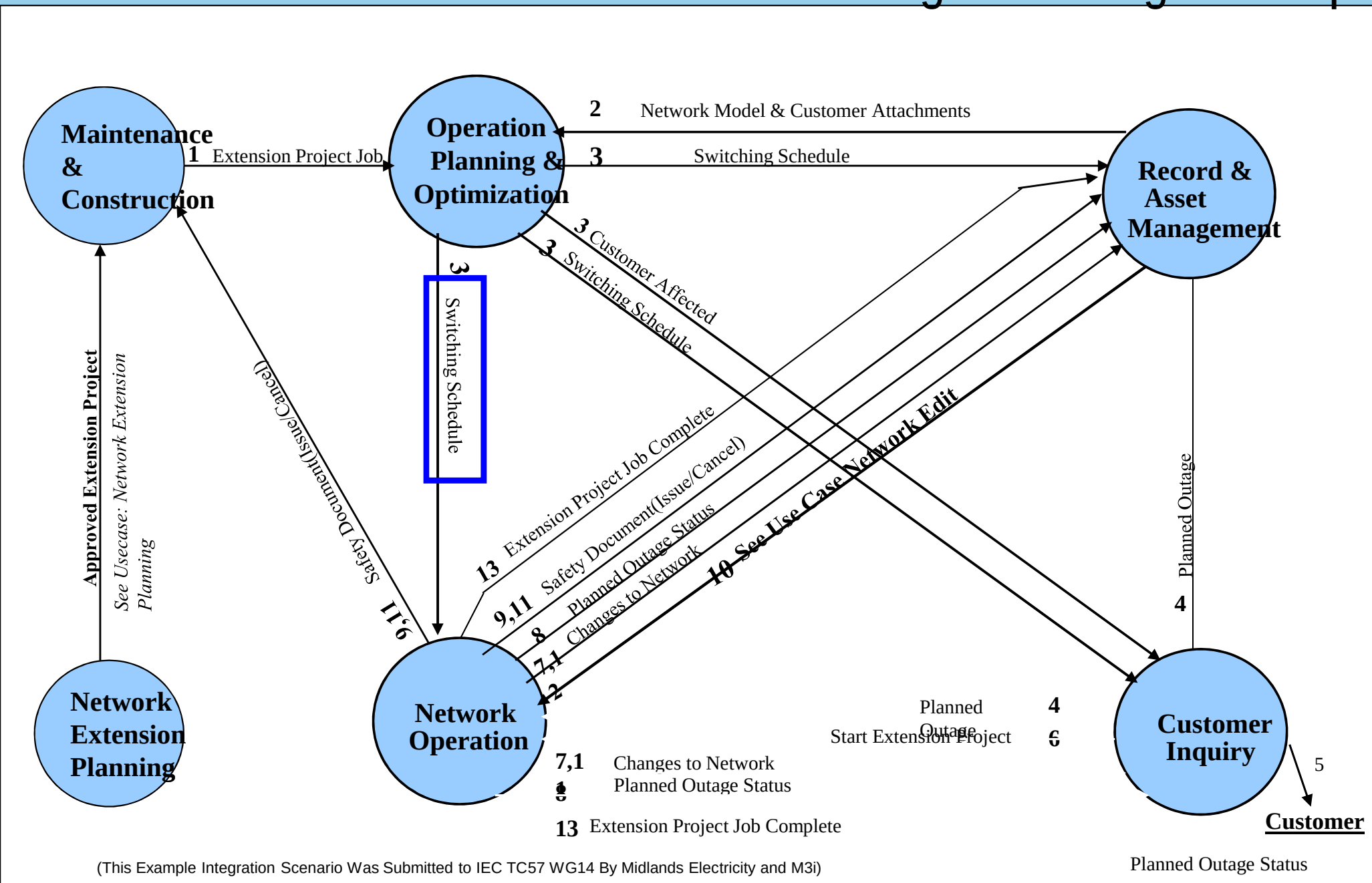
Utilities Exchange Messages on an Integration Bus Between Applications

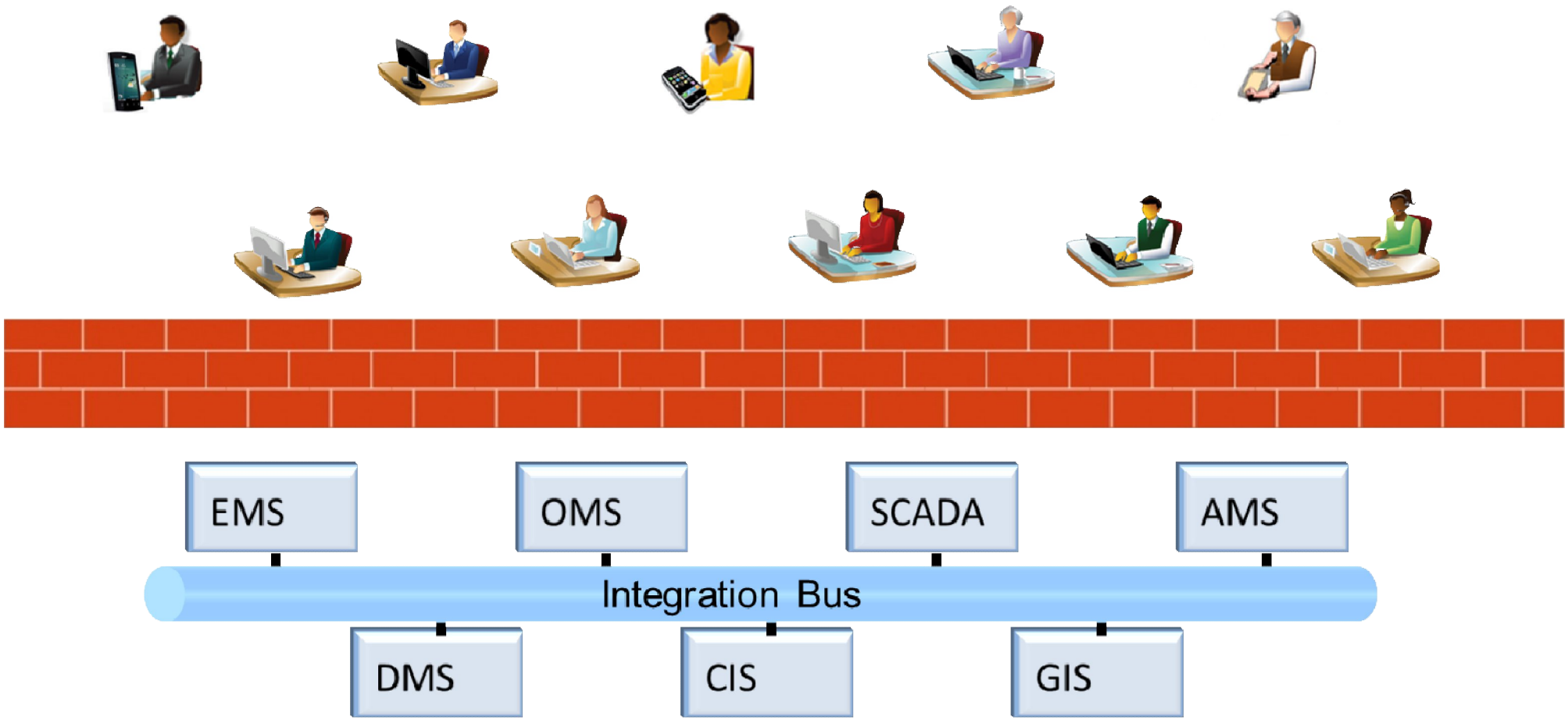


IEC Common Information Model (CIM) Message Exchange Example



(This Example Integration Scenario Was Submitted to IEC TC57 WG14 By Midlands Electricity and M3i)

Users/New Applications can't easily access Integration Bus Data



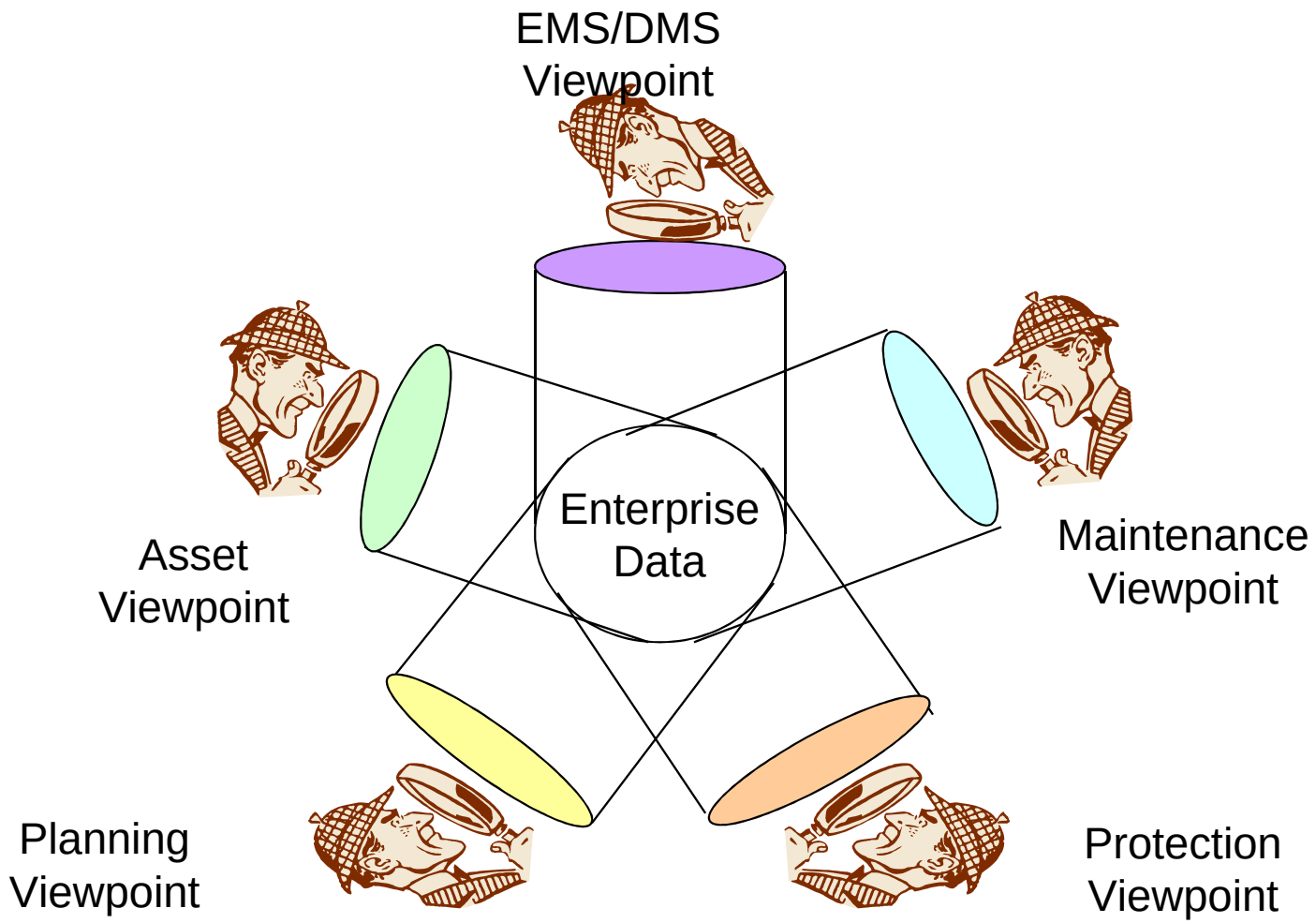
Huge amounts of data is flowing between the **applications** on the integration bus, but **users** need a way to select and receive only the information they are interested in.

Example: Meter Readings

- A typical meter reading head end may send out a million meter events a day. Each meter is typically identified by a numeric ID.
- WG 14 messaging supports getting a list of every meter ID and to poll for specific meter events once you have the meter ID.
- How does a user who is only interested in VIP metering events select the data of interest? Is it possible for any human to go through a million numeric IDs to find the ones of interest?

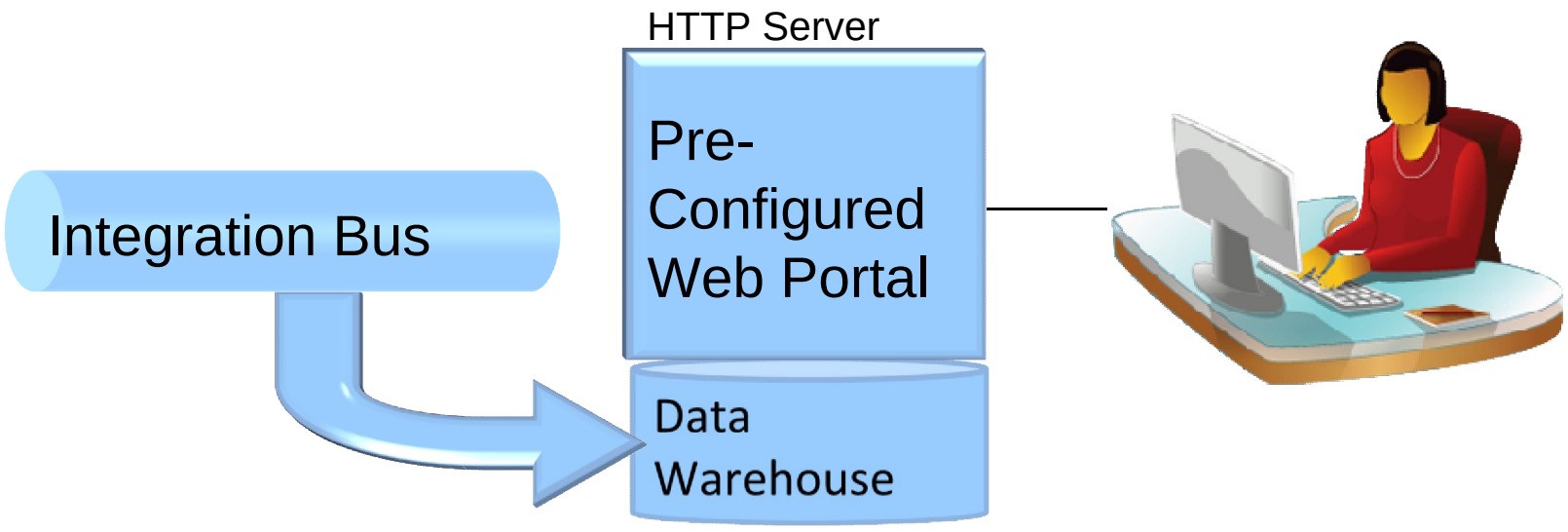
The Amount of Data on the Integration Bus is Huge

Each Type Of User Wants Different Data and Looks at Data Differently

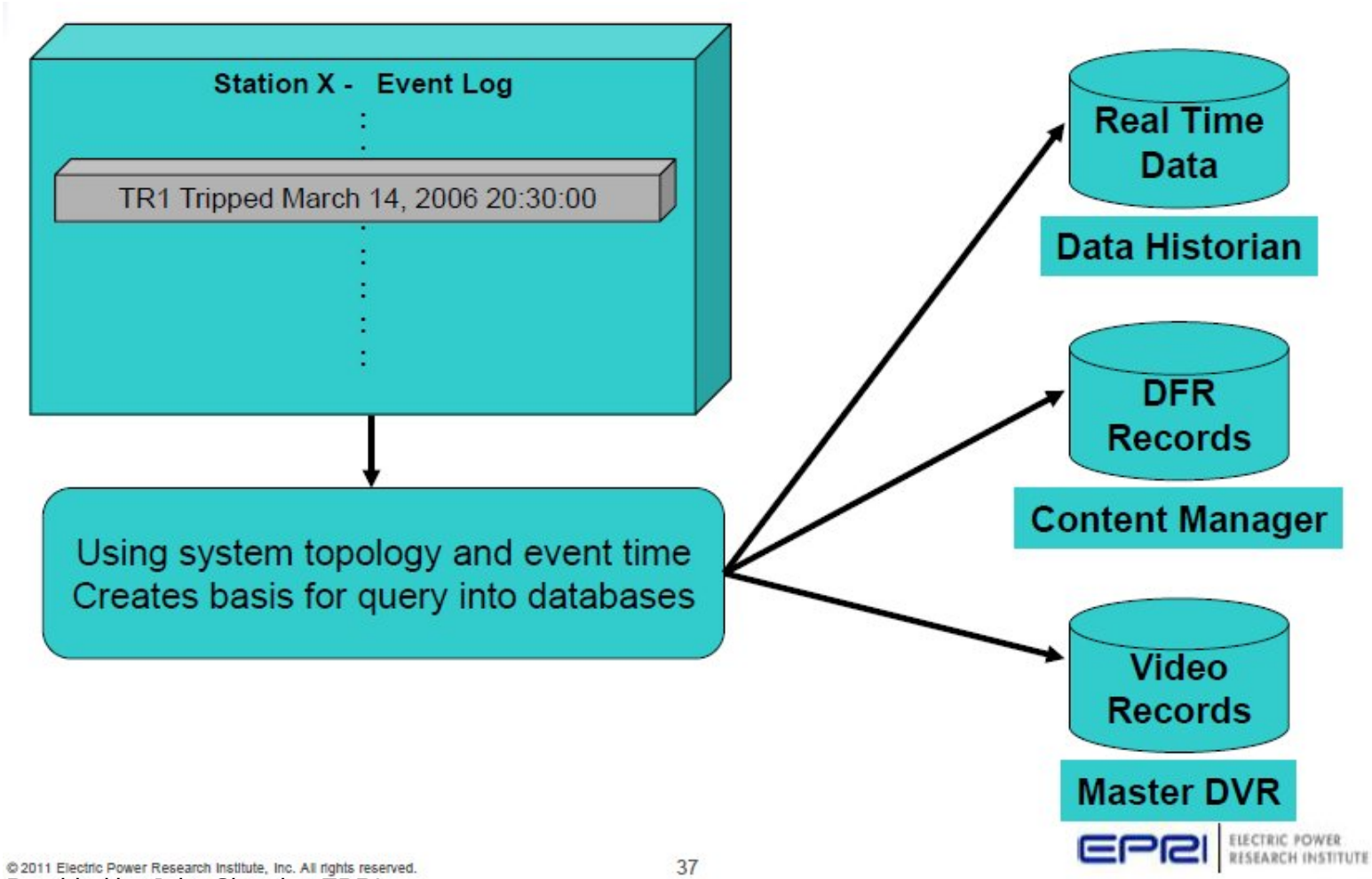


Typical Approach: A Warehouse Based Portal

- Putting all messages into a data warehouse disables real-time eventing to users/new applications. The portal typically has no means to notify users that new data of interest is available.
- Using a data warehouse/portal in this way defeats the purpose of an event driven architecture which is one of the main goals of an integration bus



New Applications Need Ad Hoc Access to Data: Query and Subscription



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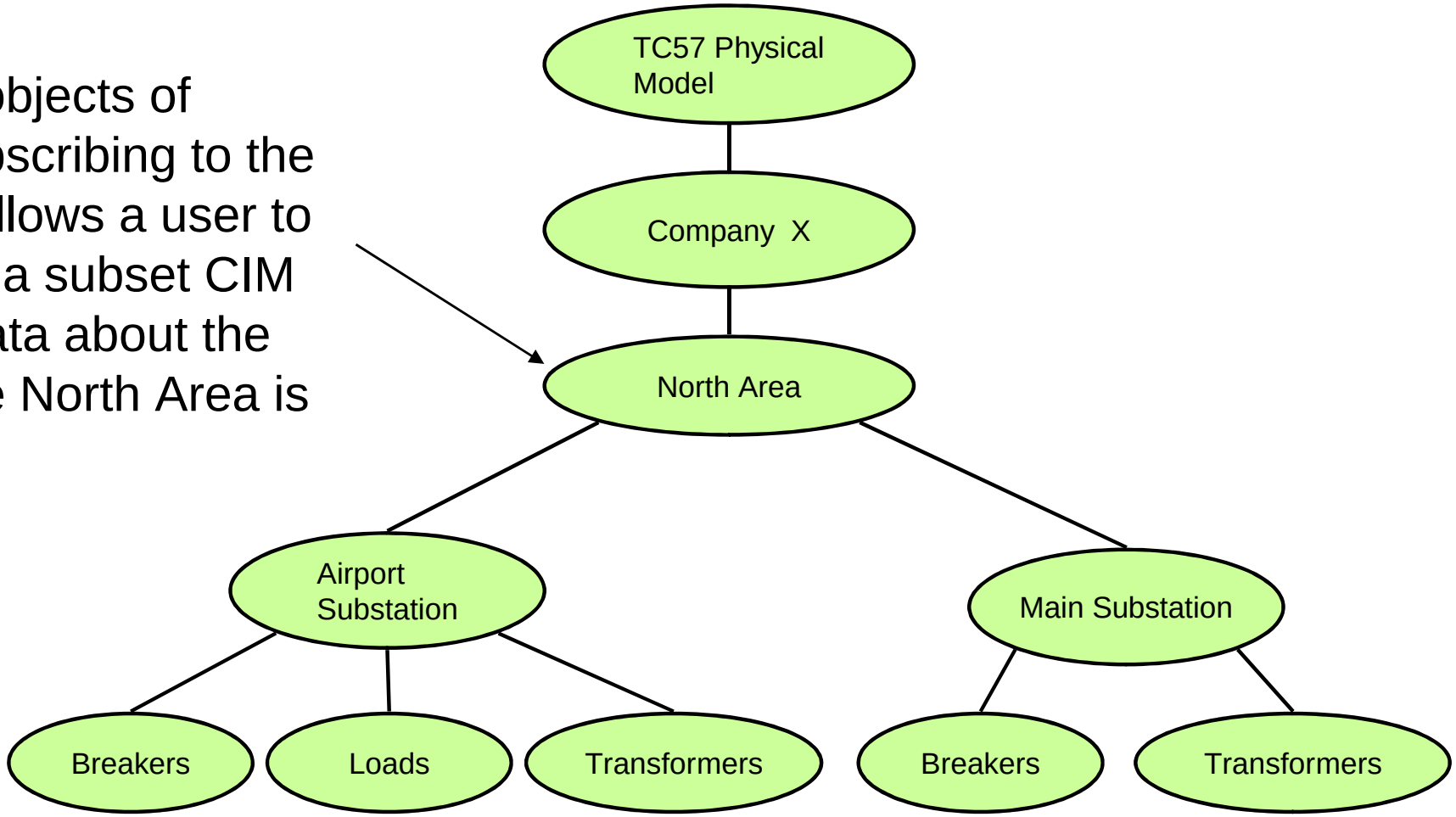
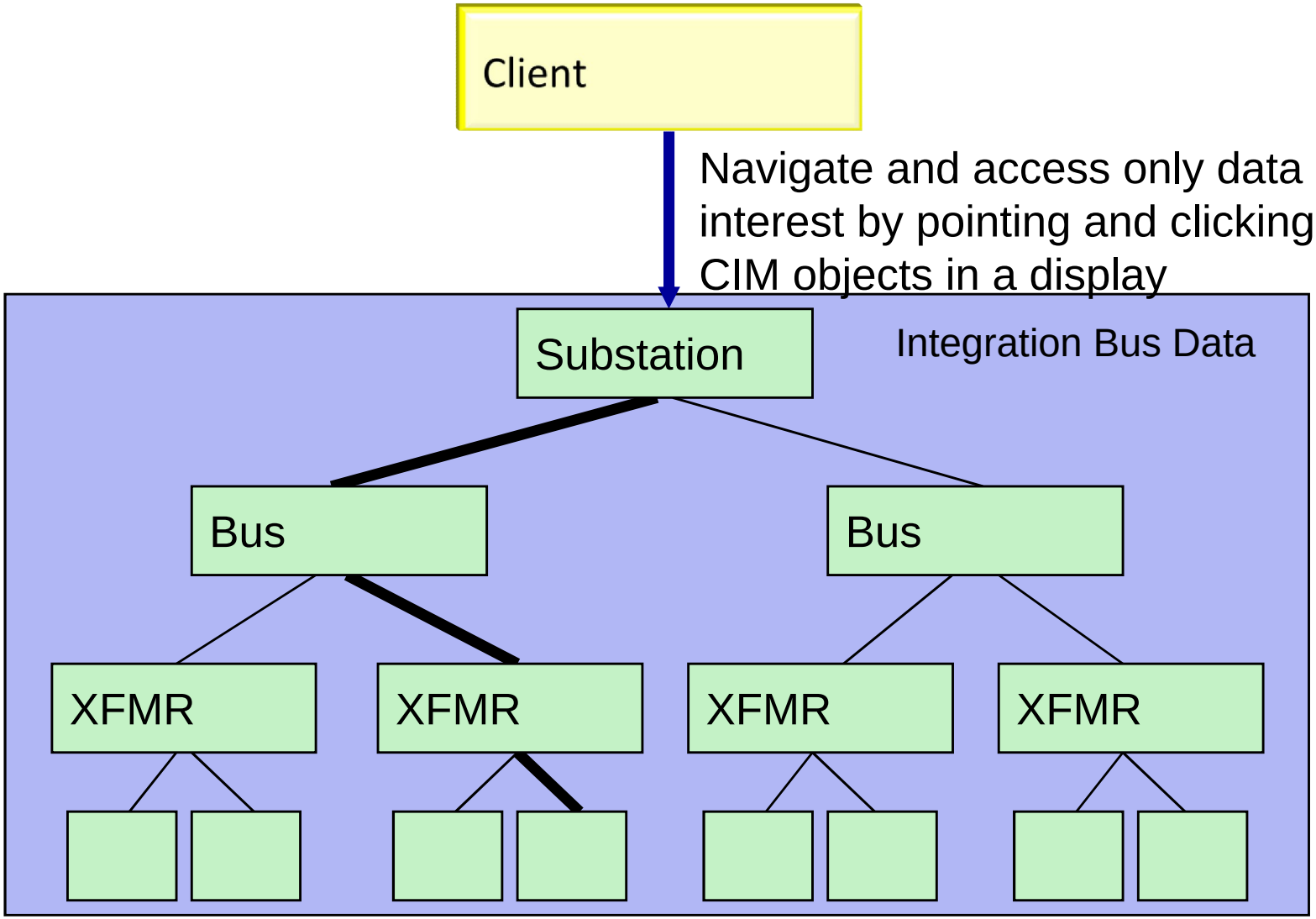
Provided by John Simmins EPRI

Solution Architecture: Use the CIM to access data

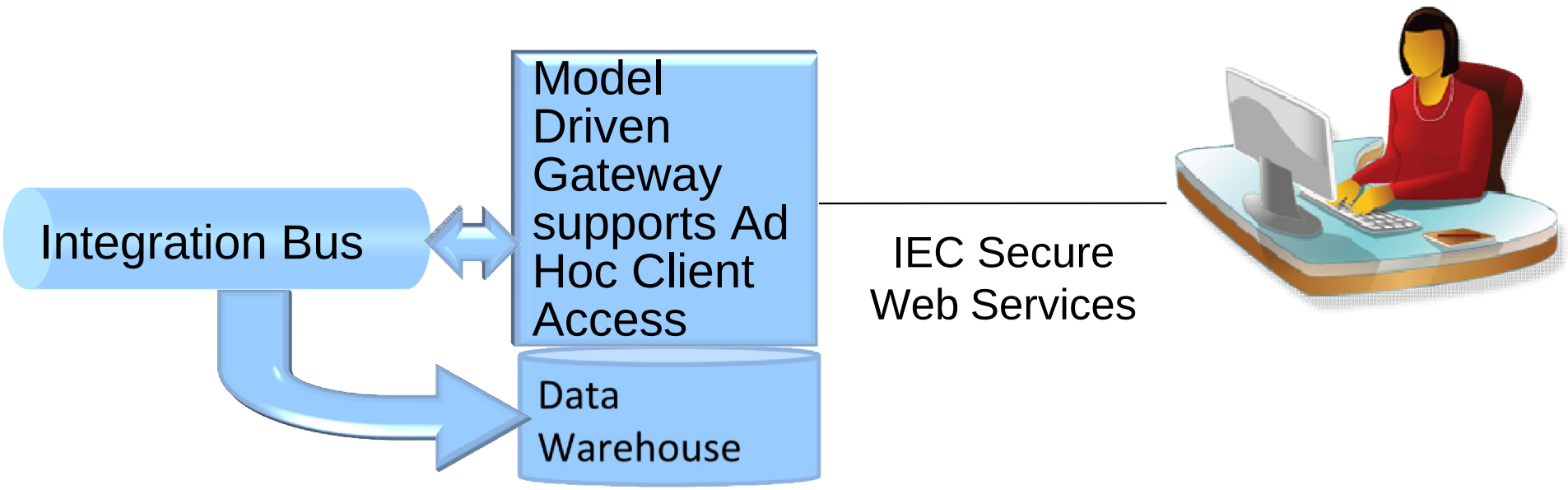
Navigate to objects of interest. Subscribing to the North Area allows a user to **only** receive a subset CIM data. Only data about the objects in the North Area is received.



Navigate and access only to data of interest



Using a Model Driven Gateway to Access Integration Bus Data



Model Driven Gateway supports Client Query and Topic based Message Subscription all configured via a model driven GUI

Thank you!

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