

# The “Age of Convergence”

Andy McMillan  
Teletrol Systems Inc



Or ...

“When  
Worlds  
Collide”



# OpenEMS Architecture

Analysis and Intelligence Layer

Browser-based tools for routine operations and analysis



Value Added Applications and Services



Development and Deployment Tools

Data and Event Management Layer

Operations I/F

Enterprise I/F



SQL

Partner I/F



XML DB

Tools I/F

Connectivity Layer (Corporate IT Network -- IP, Web Services)

Building Systems Layer

Communications Router

Building Systems Data Network (IP)

eBuilding Controller

Web Services

Direct Sensor Connections (OSA, etc)

System Monitors  
Local Control Panels

Wireless

BACnet MS/TP

Modbus RTU (TP or IP)

BACnet/IP & Web Services

HVAC Devices

Ventilation Devices

Lighting Controllers

Access Control

Power Monitors

Power Generation

Specialty Devices

# OpenEMS Architecture

## Analysis and Intelligence Layer

Browser-based tools for routine operations and analysis



Enterprise Energy Mgt

Work Order Processing

Demand Response

Data Visualization

Asset Management

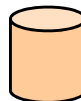
YTBI

Development and Deployment Tools

## Data and Event Management Layer

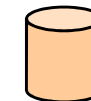
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Tools I/F

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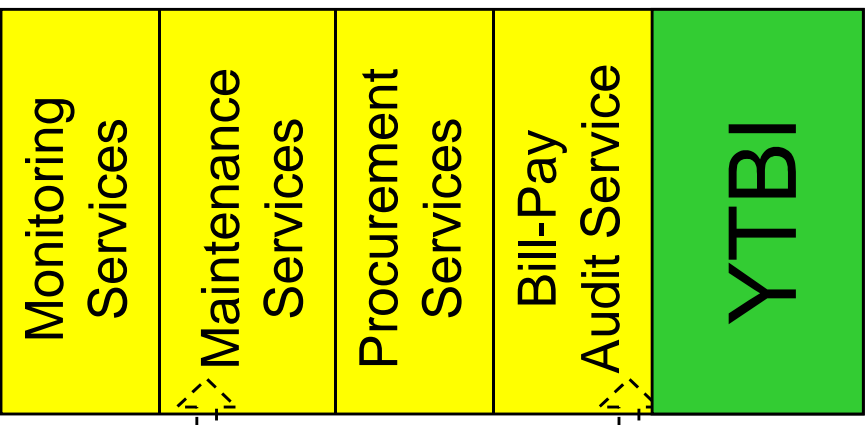
Power Generation

Specialty Devices

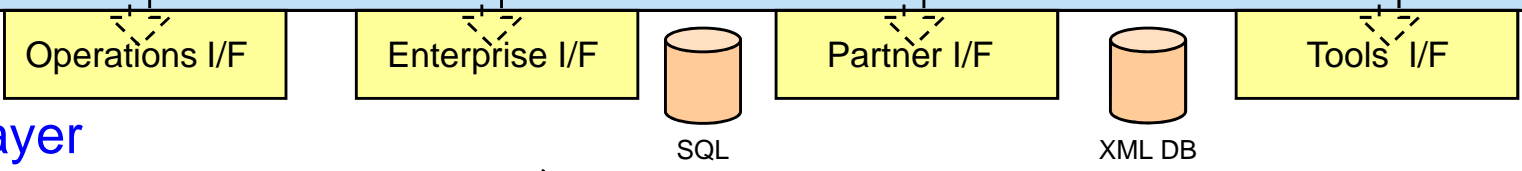
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## Analysis and Intelligence Layer

Browser-based tools for routine operations and analysis

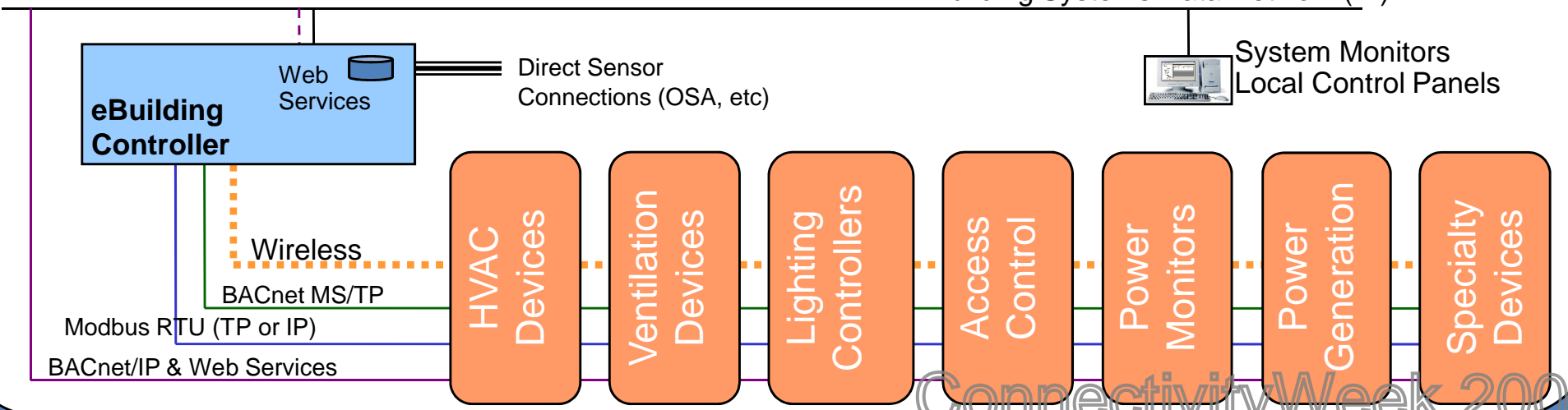


## Data and Event Management Layer

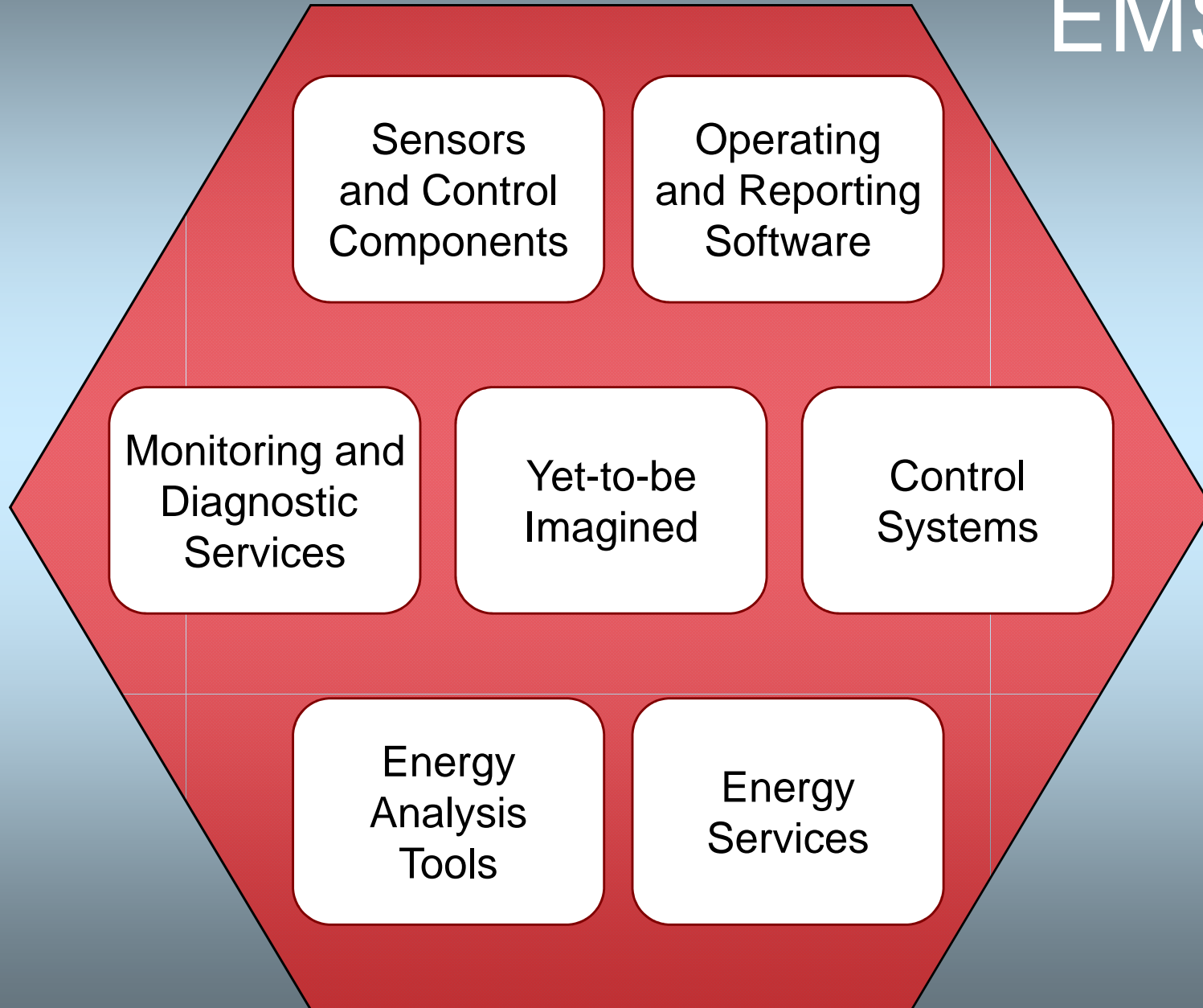


## Connectivity Layer (Corporate IT Network -- IP, Web Services)

## Building Systems Layer

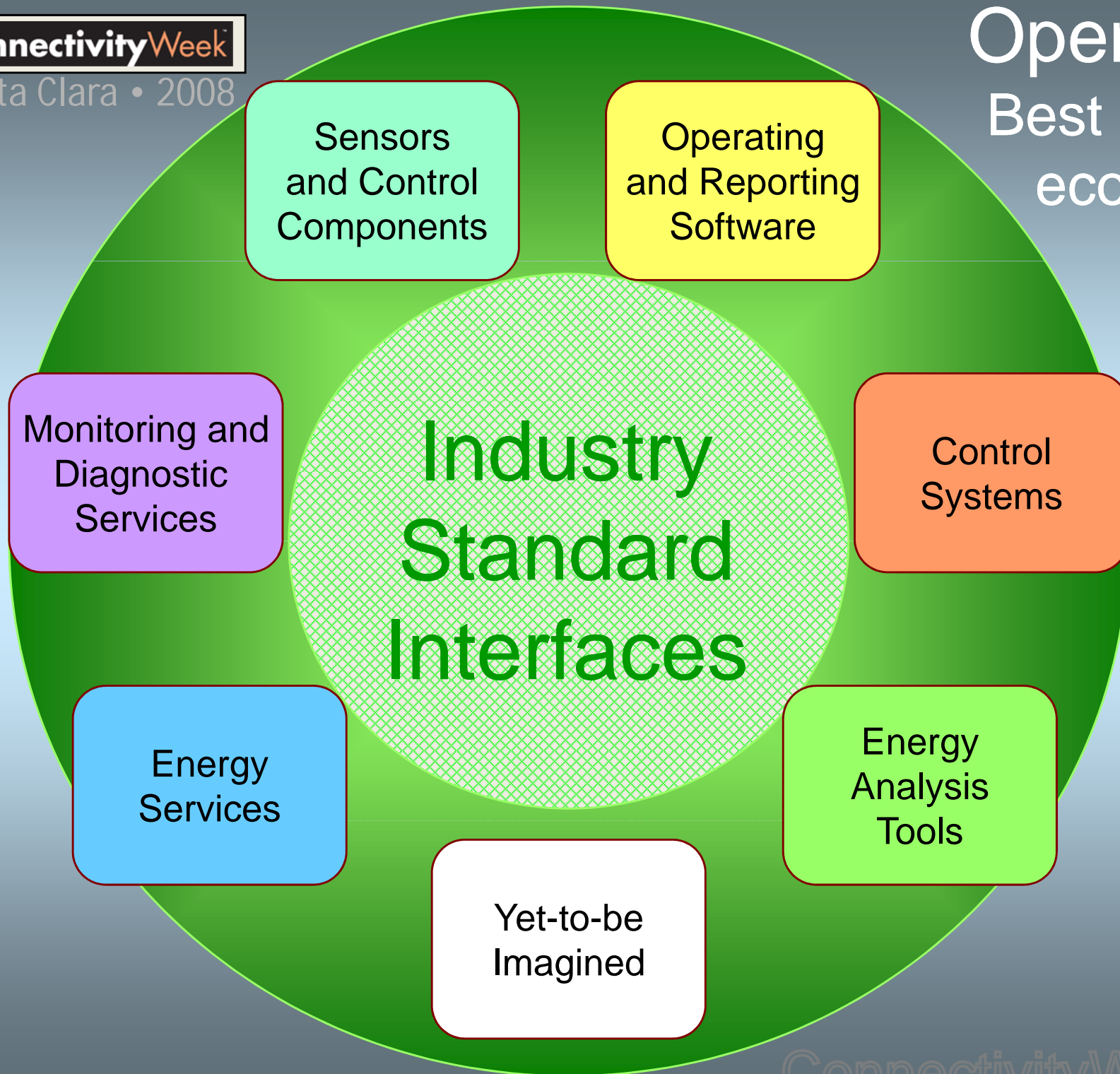


# Sole Supplier EMS

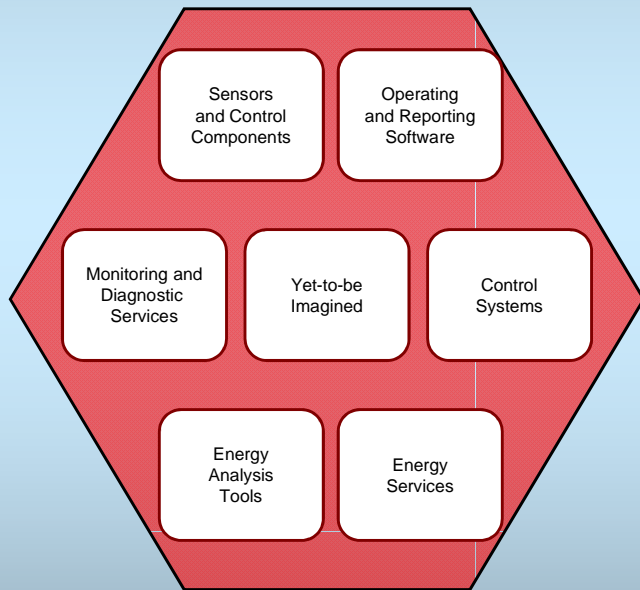


# OpenEMS

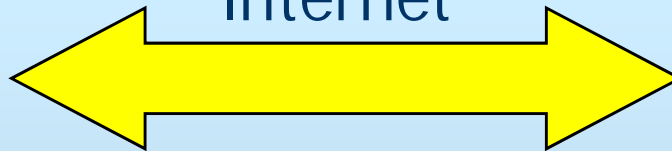
Best in class ecosystem



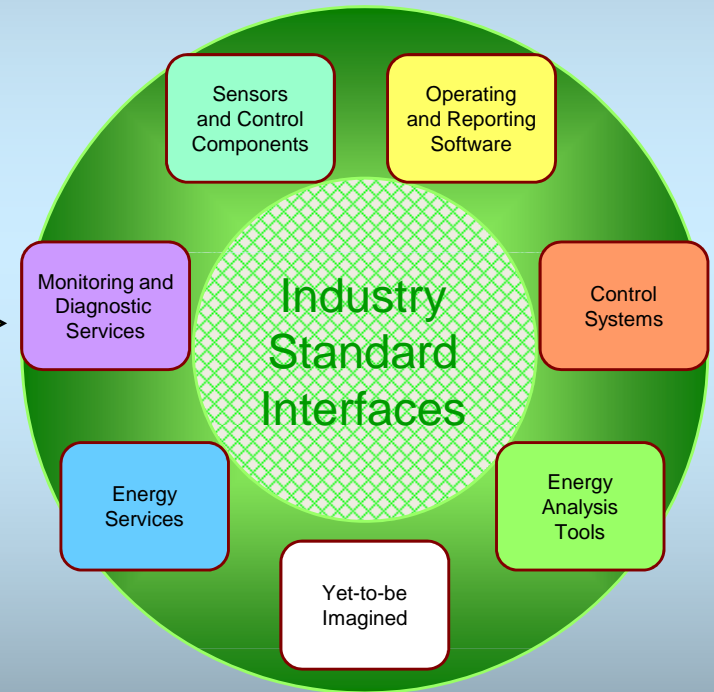
### Sole Supplier EMS



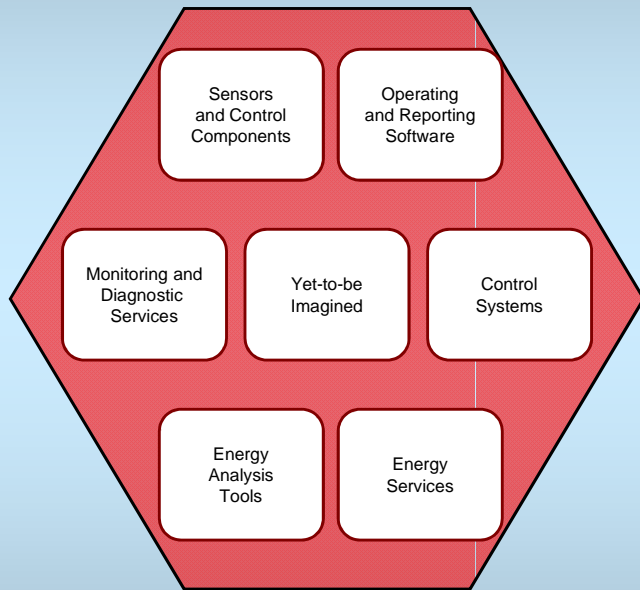
BACnet  
Web Services  
Browsers  
Internet



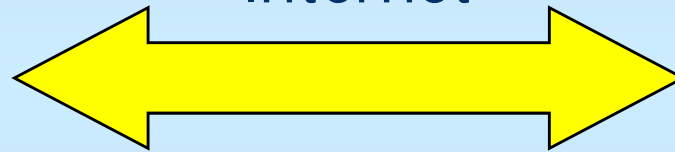
### OpenEMS



### Sole Supplier EMS

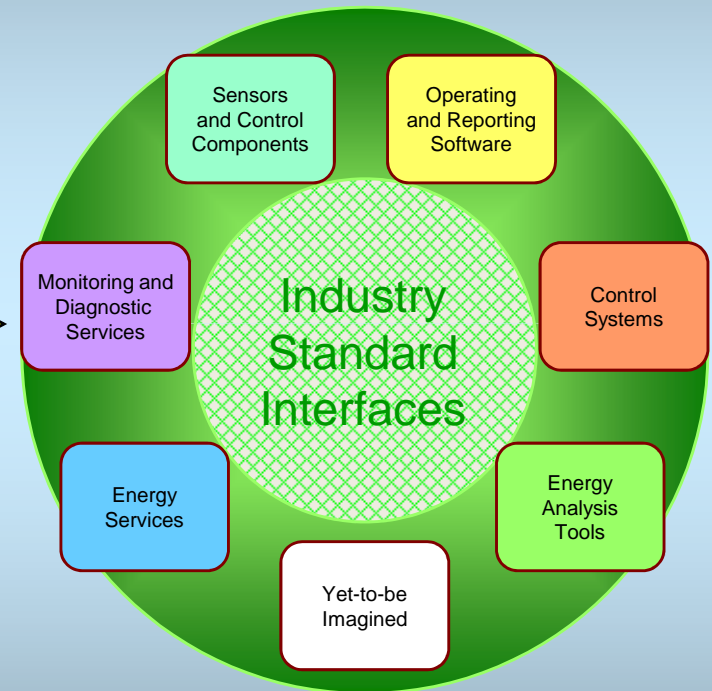


BACnet  
Web Services  
Browsers  
Internet



Source of Innovation  
Speed of Migration  
Scope of "Solution"  
Technology Leverage

### OpenEMS



# What Matters in the New World?

Treasure Flexibility  
Cherish Extensibility  
Demand Standards ... in the right places  
Respect value, pay attention to cost  
Study History



# The “Age of Convergence” [or “When Worlds Collide”]

Andy McMillan  
Teletrol Systems Inc



[AndyM@teletrol.com](mailto:AndyM@teletrol.com)