

Building Interoperability

Siemens Building Technologies - Outlook

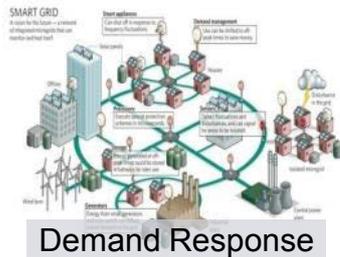
2015



Siemens BT - Divisions

Siemens Industry – Building Technologies Division					
Security	Fire Safety	Building Automation	Electrical Services	Energy Efficiency	Smart Grid Technologies
					
<ul style="list-style-type: none"> Security systems, solutions and services 	<ul style="list-style-type: none"> Fire Safety products and solutions 	<ul style="list-style-type: none"> Integrated building solutions incl. HVAC control applications 	<ul style="list-style-type: none"> Electrical installation equipment and systems Power Monitoring Software 	<ul style="list-style-type: none"> Energy and environmental solutions Energy Performance Contracting 	<ul style="list-style-type: none"> Innovative solutions from building automation to fire safety and security
Energy Efficiency and Complete Building Solutions					

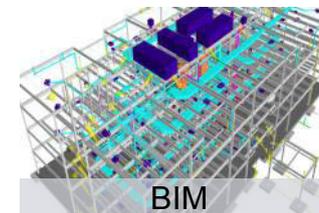
Market Place Needs – Data Fatigue



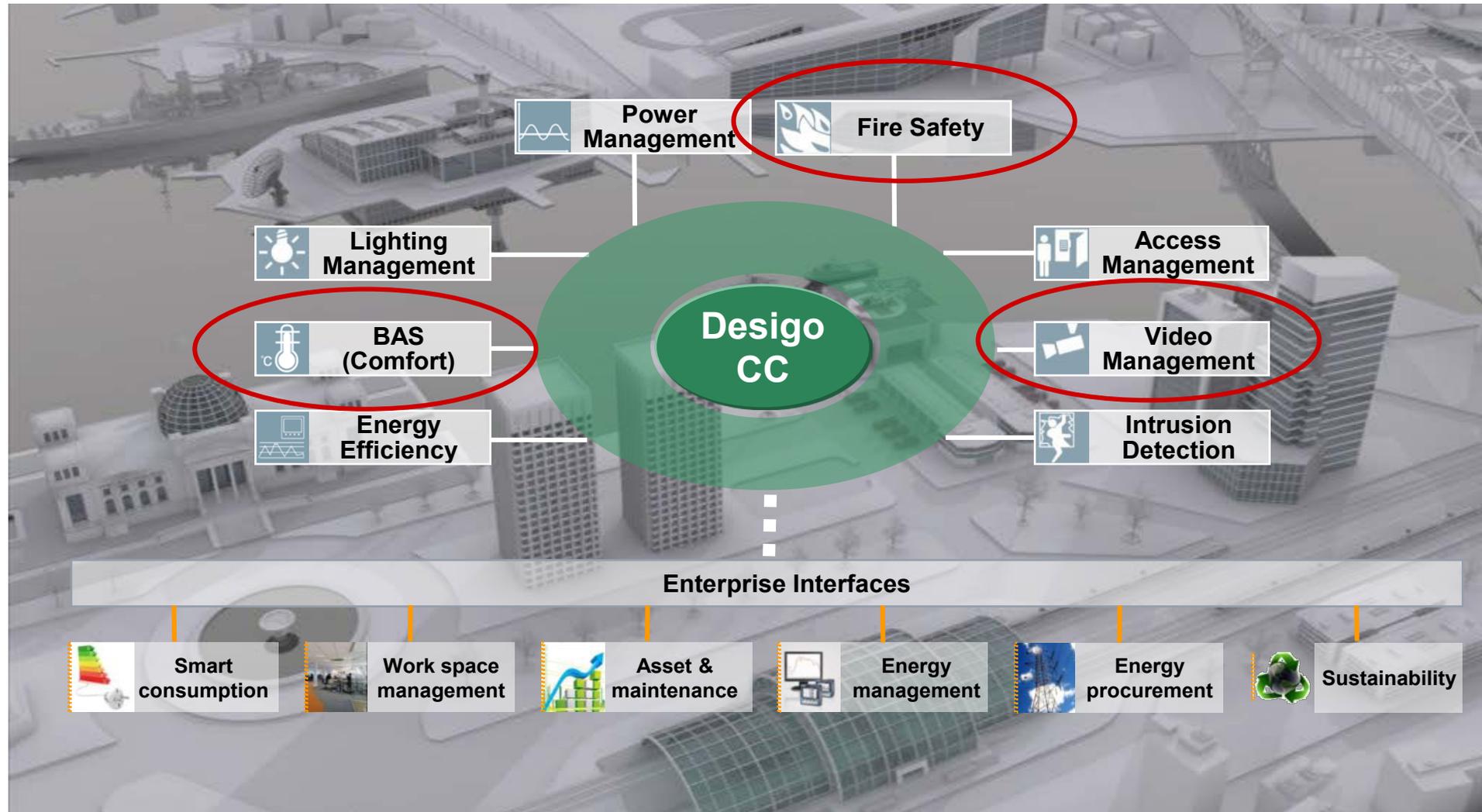
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We need tools to organize and leverage all this information to make buildings work for our businesses.

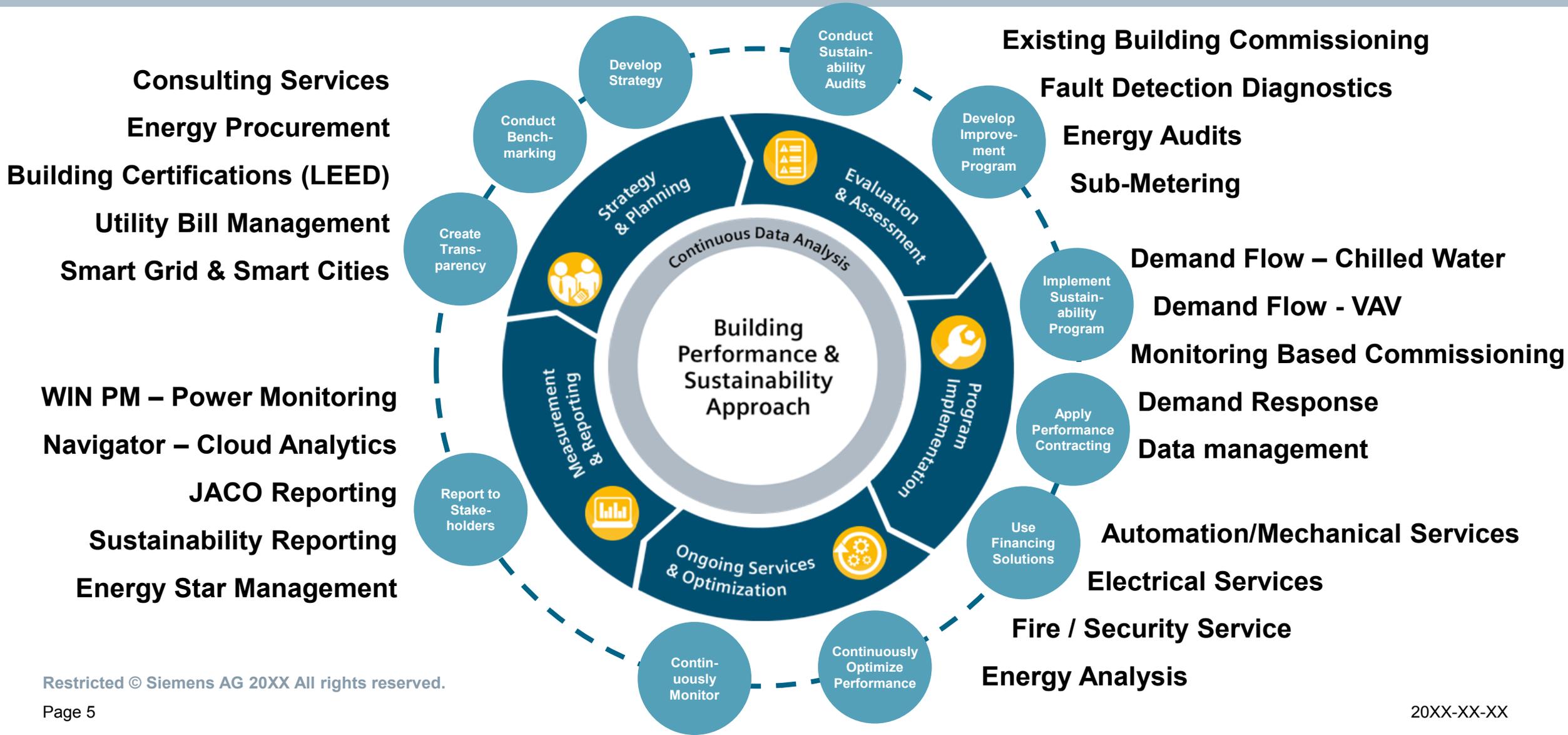
- Increasingly complex systems
- Huge amounts of available data
- Limited human and capital resources



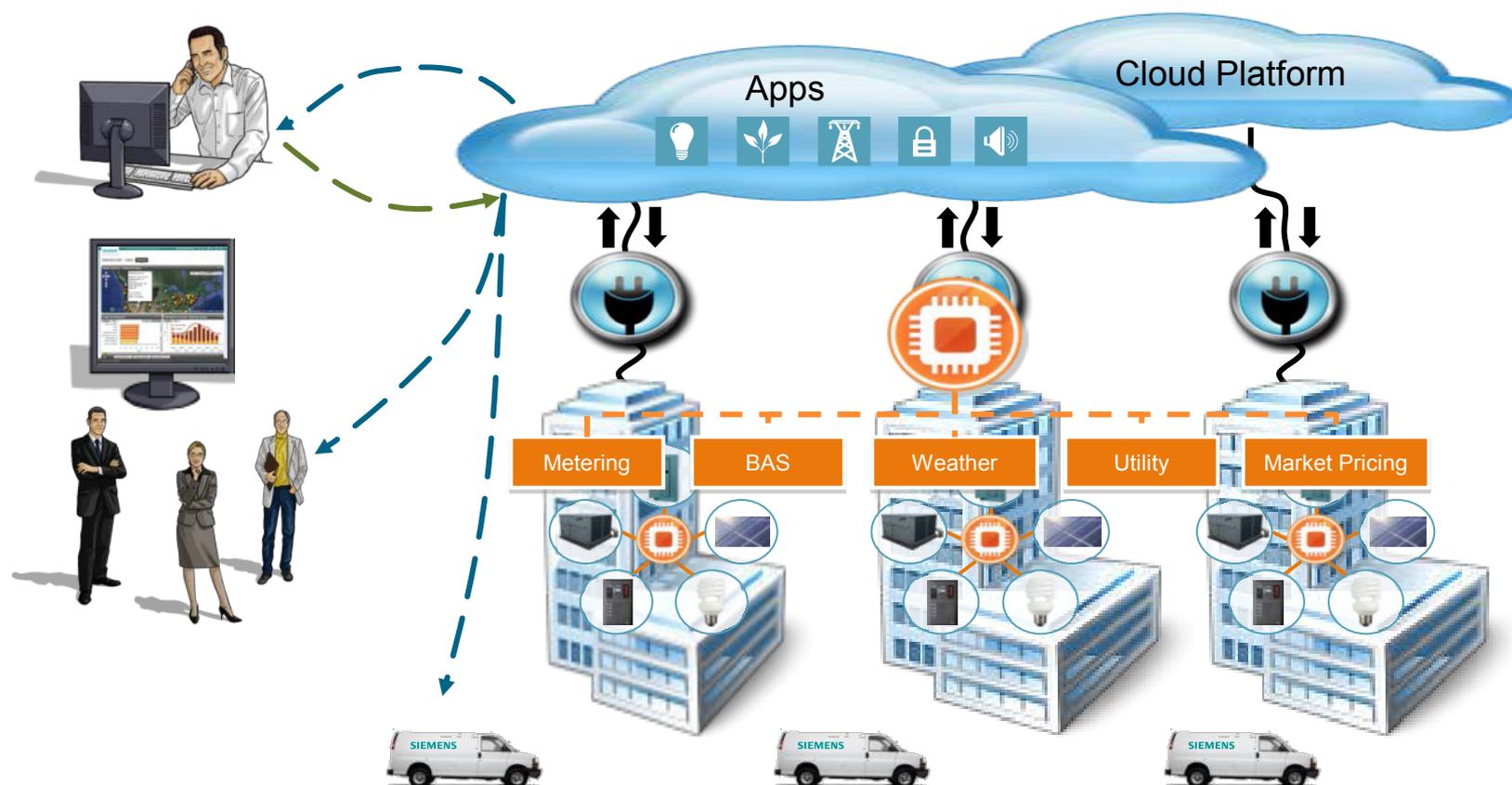
Siemens Response – DESIGO CC



Siemens Offerings – Total Building Solutions



Data Collection – Approach Bottom → Top



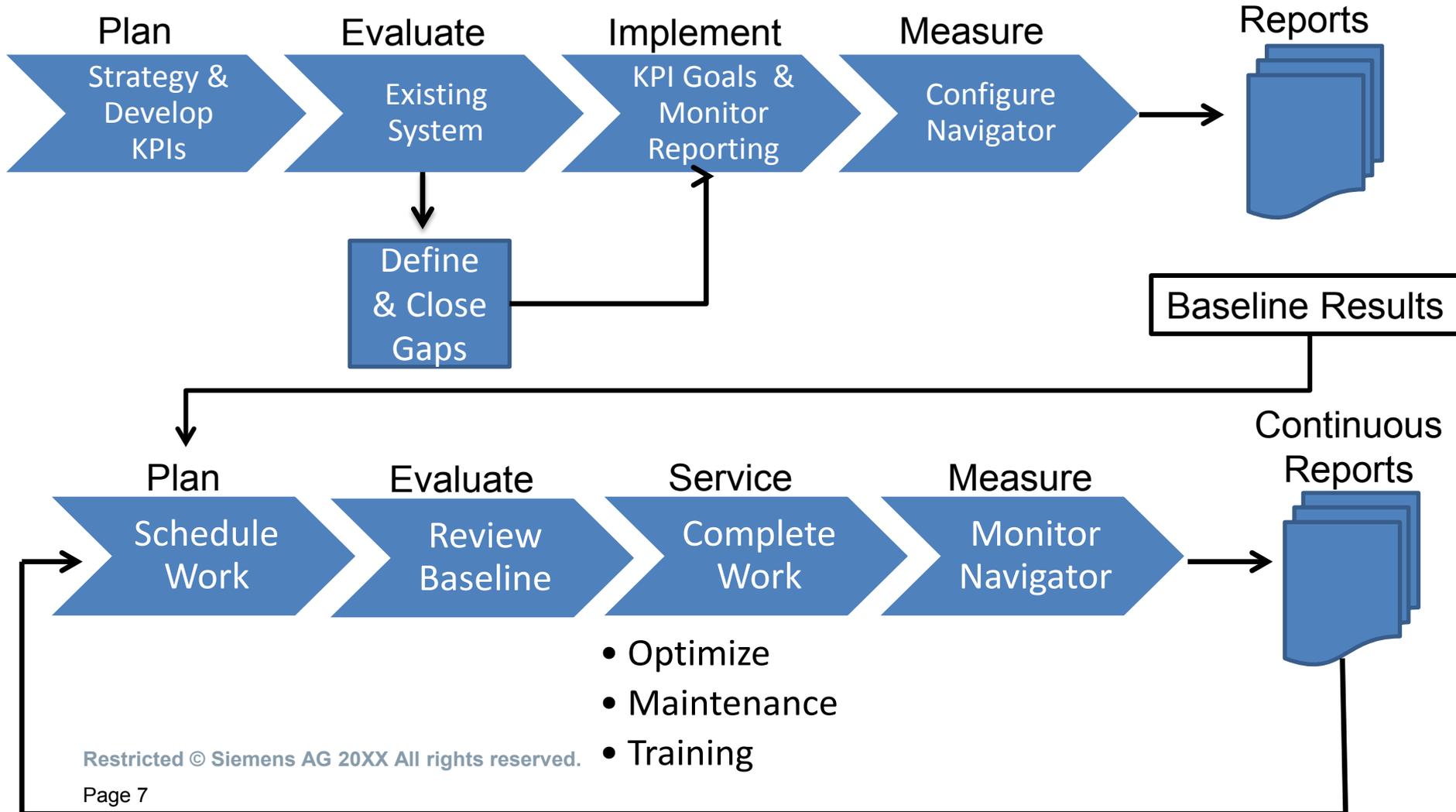
5 Keys to Success

- 1. Connect:**
Allow data to be extracted from systems, equipment and sensing devices
- 2. Collect:**
Centralize data from multiple systems / sources – Leverage Existing infrastructure
- 3. Analyze:**
People & Technology use data to generate actionable information

Drive Savings

- 4. Optimize:**
People & technology enhance systems and operations based on actionable information
- 5. Communicate:**
"Report" transparent results to various users

Define Metrics – Follow a Process



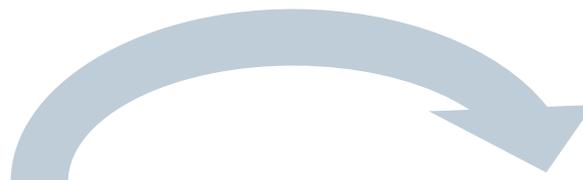
Key Performance Indicators:

- Building EUI
- Occ / Unoccupied set points
- Energy Reduction Targets
- Carbon Reporting
- Energy Distribution
- ACH Targets
- AHU Efficiency
- Chilled Water Efficiency
- System Faults
- Baseline irregularities

What's Next – Development & Partnerships



Corporate Headquarters



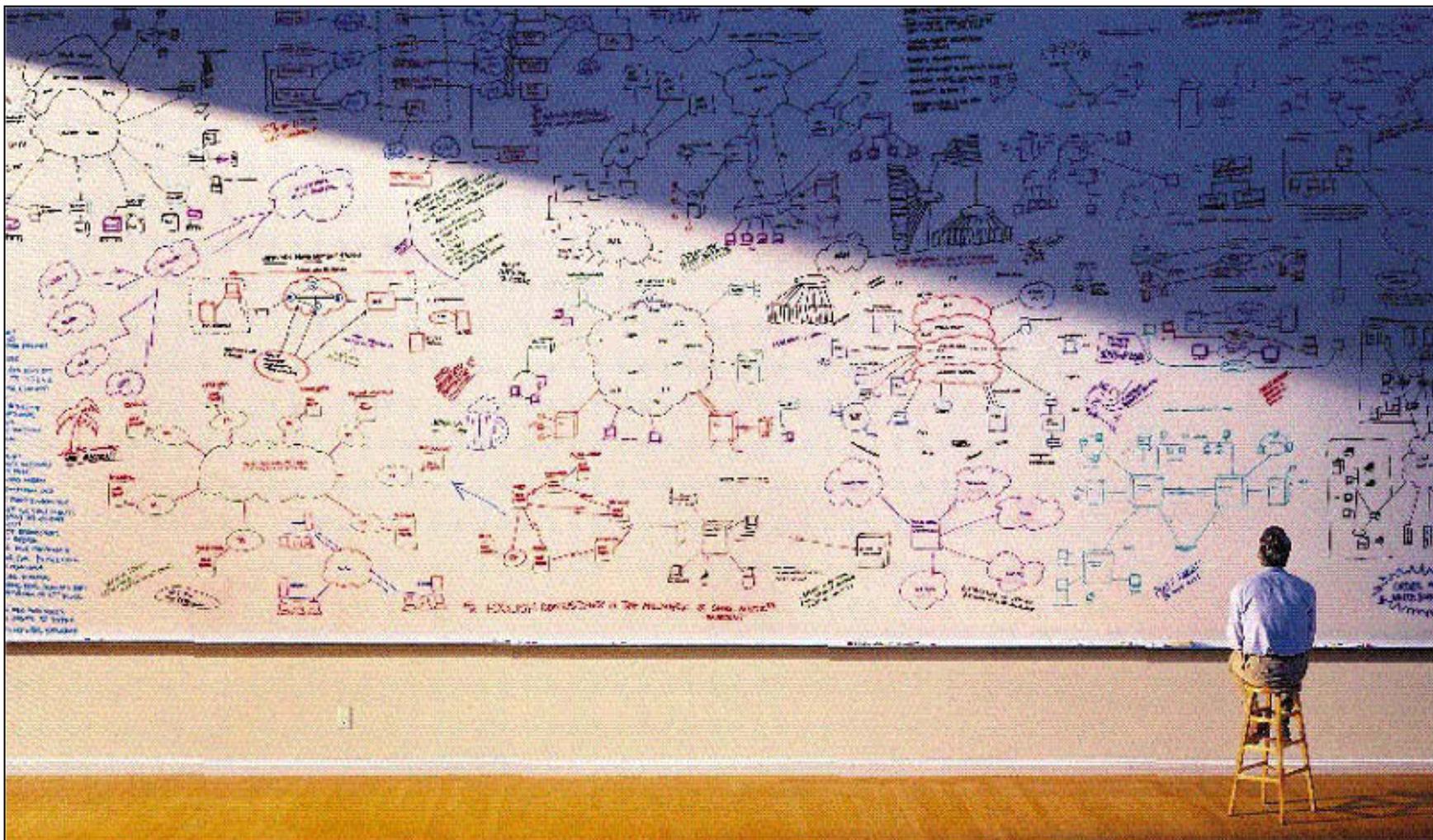
Local Branch Offices



On-Site With Building Owners



Questions



David Kopczynski
Account Executive
Siemens

+1 (206) 683-2525
David.Kopczynski@siemens.com