

Facility Management Reporting in Facilities: The Value of Metrics & KPIs

Laurie Gilmer, PE, CFM, SFP, LEED AP, CxA
Facility Engineering Associates

Meet Our Presenter:



Laurie Gilmer, PE, CFM, LEEDAP, CxA
Vice President
Facility Engineering Associates

- Lead FEA's Facility Services division
- SME for IFMA's Measurement, Monitoring & Reporting task group
- IFMA Instructor and serves as Chair of IFMA's Scheme Committee for the SFP credential
- Co-authored the second manual in the sustainability "How-to Guide" series, EPA's ENERGY STAR Portfolio Manager

Learning Objectives

- Understand the role of organizational drivers in choosing KPIs
- Choose the right metrics and KPIs
- Identify the elements of a good facility management report - who are your stakeholders and what do they need to hear?
- Demonstrate alignment with organizational mission

Agenda

- The Building Blocks of a Strategic Approach
- Facility Operations Overview
- Telling the Story

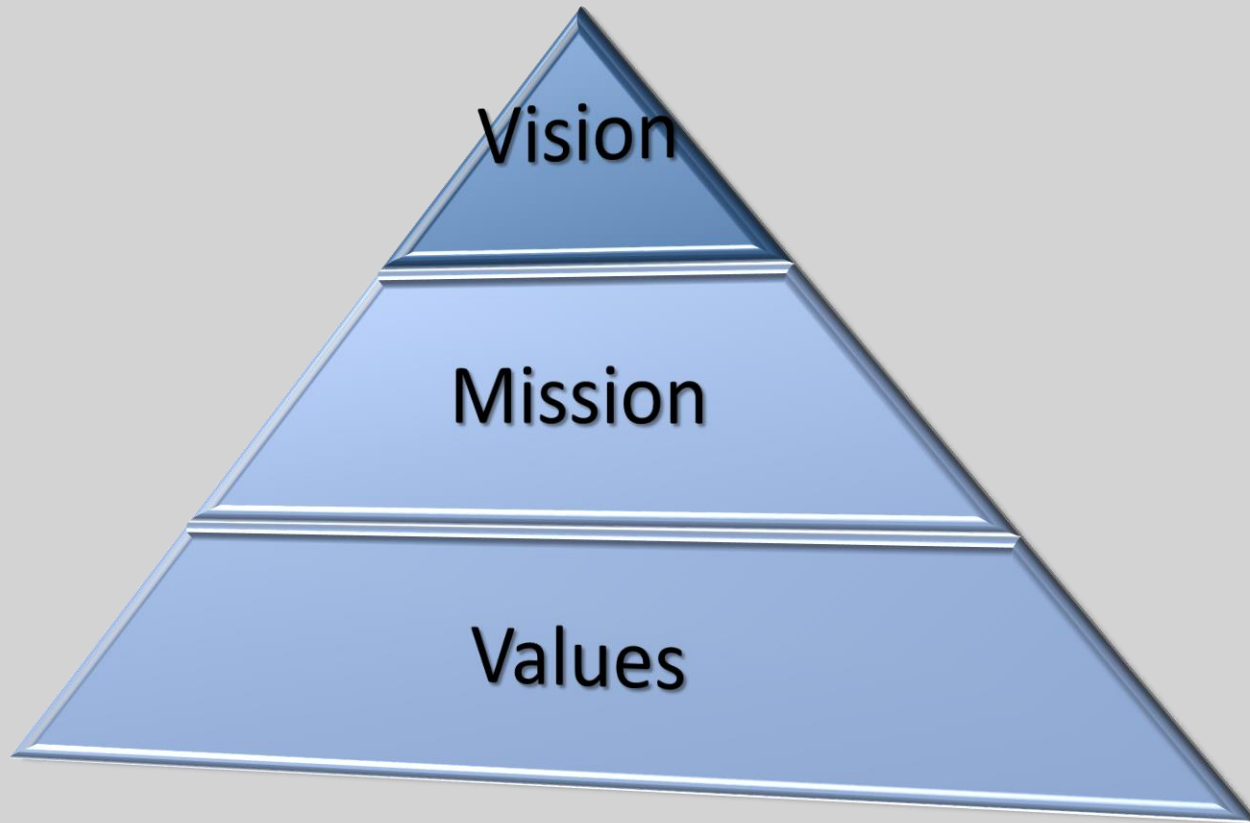


Starting with the end in mind...

KPIs

doesn't mean skipping to the end.

What is Important to Your Organization?



What is Important to Your Organization?

Be the best
widget producer
in our industry

Provide quality goods
at a good price to our
customers

Preserve our
nation's
treasures

Extend and
preserve life

Provide full
service to our
clientele

Provide world
class guest
service

Be a world class
educational
institution

Maximize profit
to our investors

What is Important to Your Organization?

Be the best
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Preserve
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What does this mean for facilities?

Extend and
preserve life

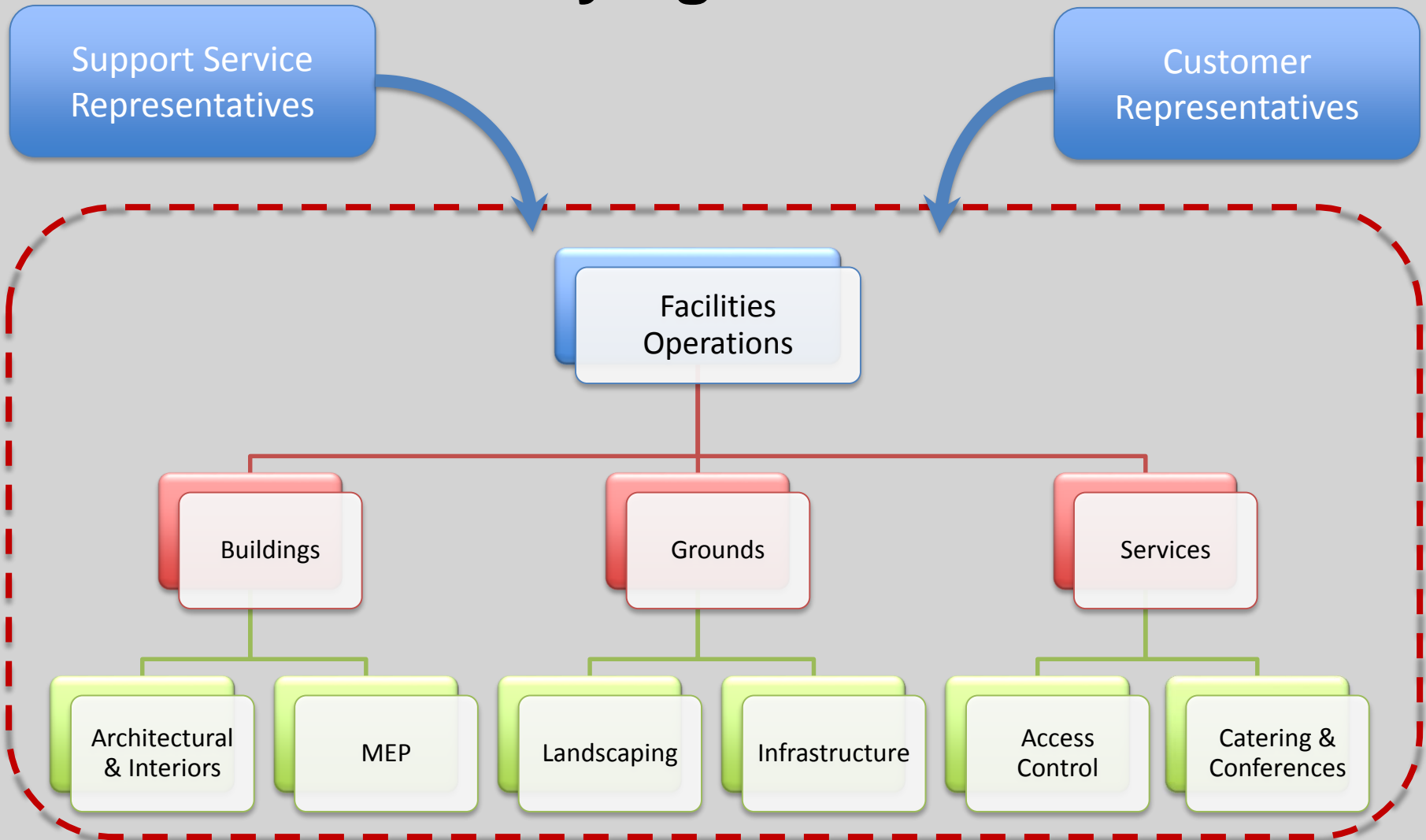
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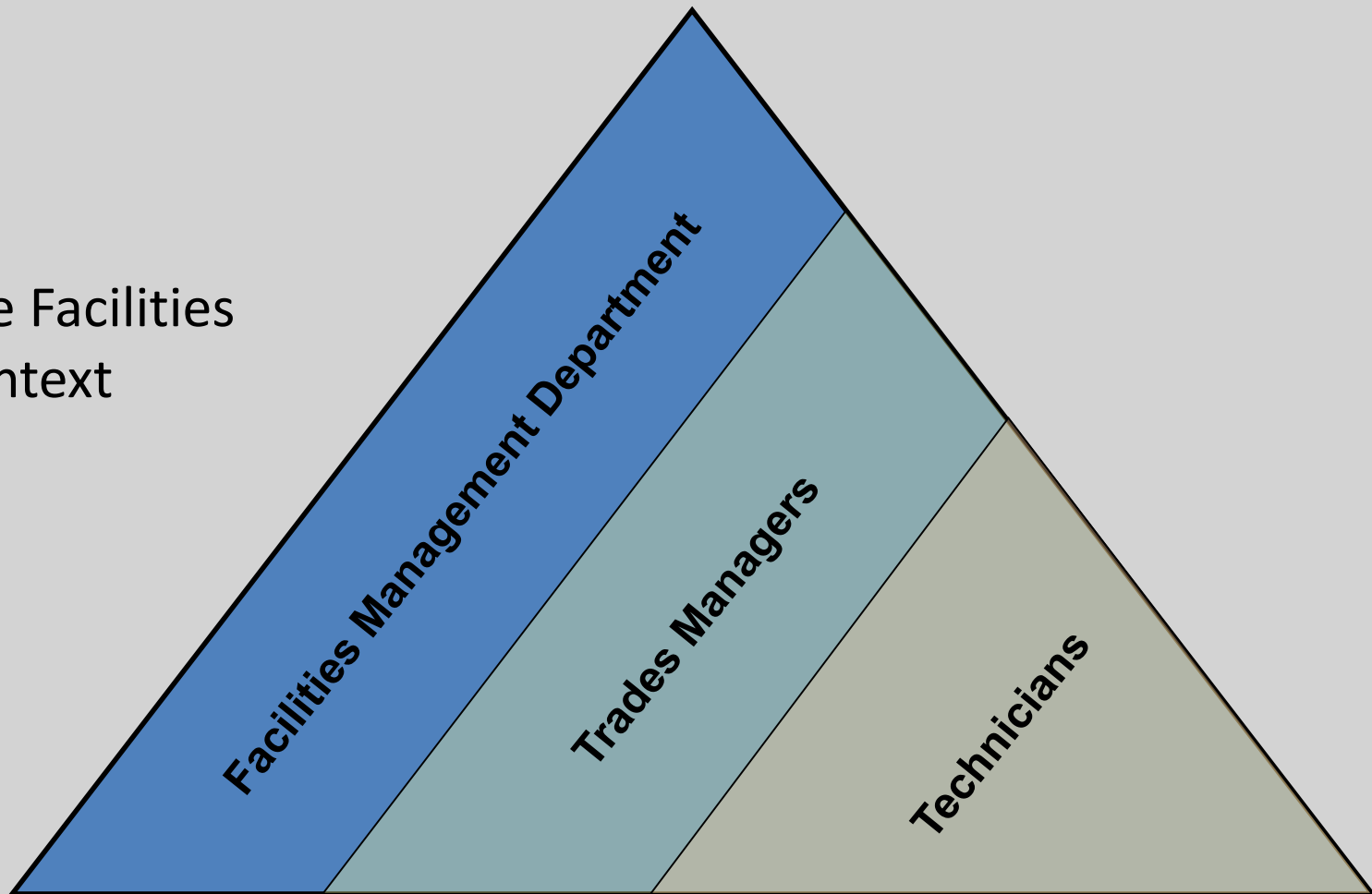
Maximize profit
to our investors

Identifying Your Team

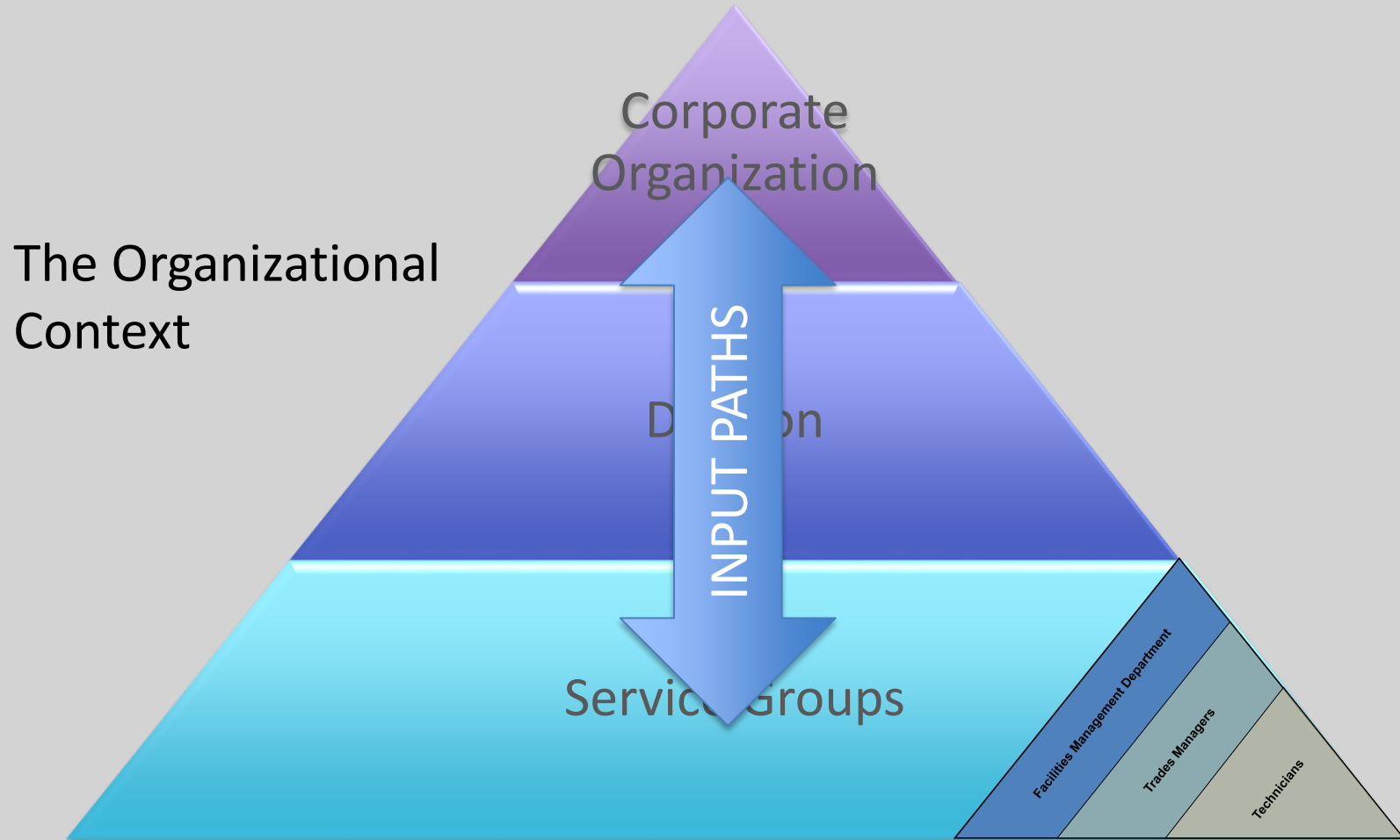


Another Way to Look at the Team...

The Facilities
Context



Another Way to Look at the Team...

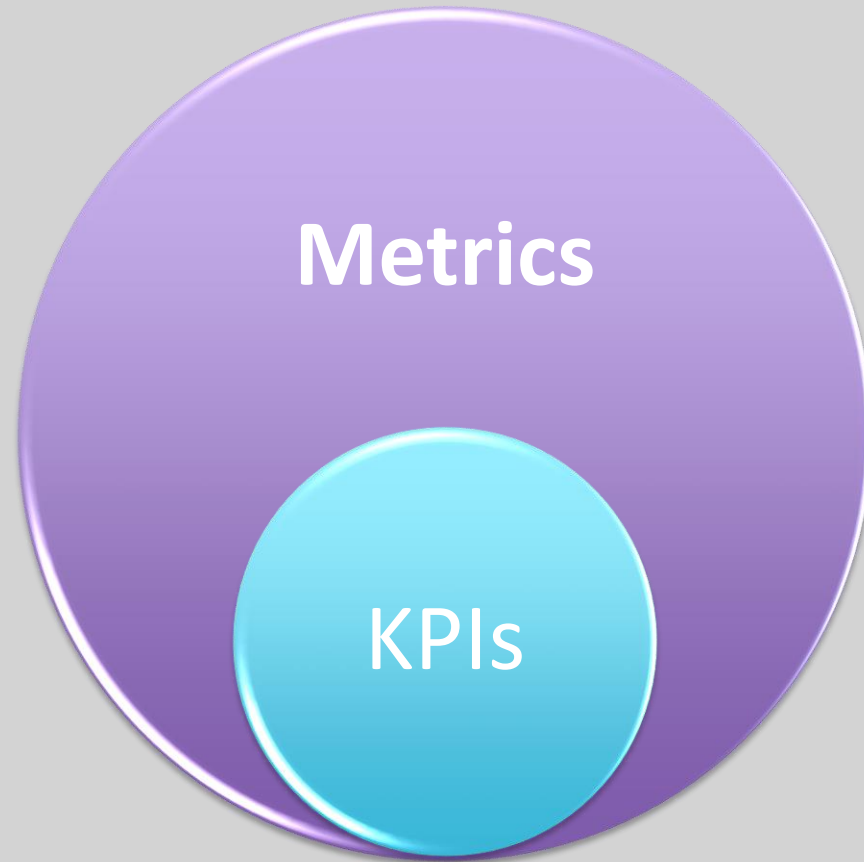


Defining Outcomes

Desired Outcome	How Will You Know?
Have great customer service	<ul style="list-style-type: none">• Timeliness of response• Reliability of services• Work quality• Positive interactions
Manage finances well	<ul style="list-style-type: none">• Improve capital budgeting process for long term needs• Cost effectiveness of work performed• Cost of facilities
Reduce down-time	<ul style="list-style-type: none">• Manage scheduled down-time for lowest impact• Improve critical system reliability• Perform the right about of maintenance at the right time

Metrics vs. KPIs

A KPI is a core metric that defines top level success



Choosing Metrics

Be the best widget producer in our industry

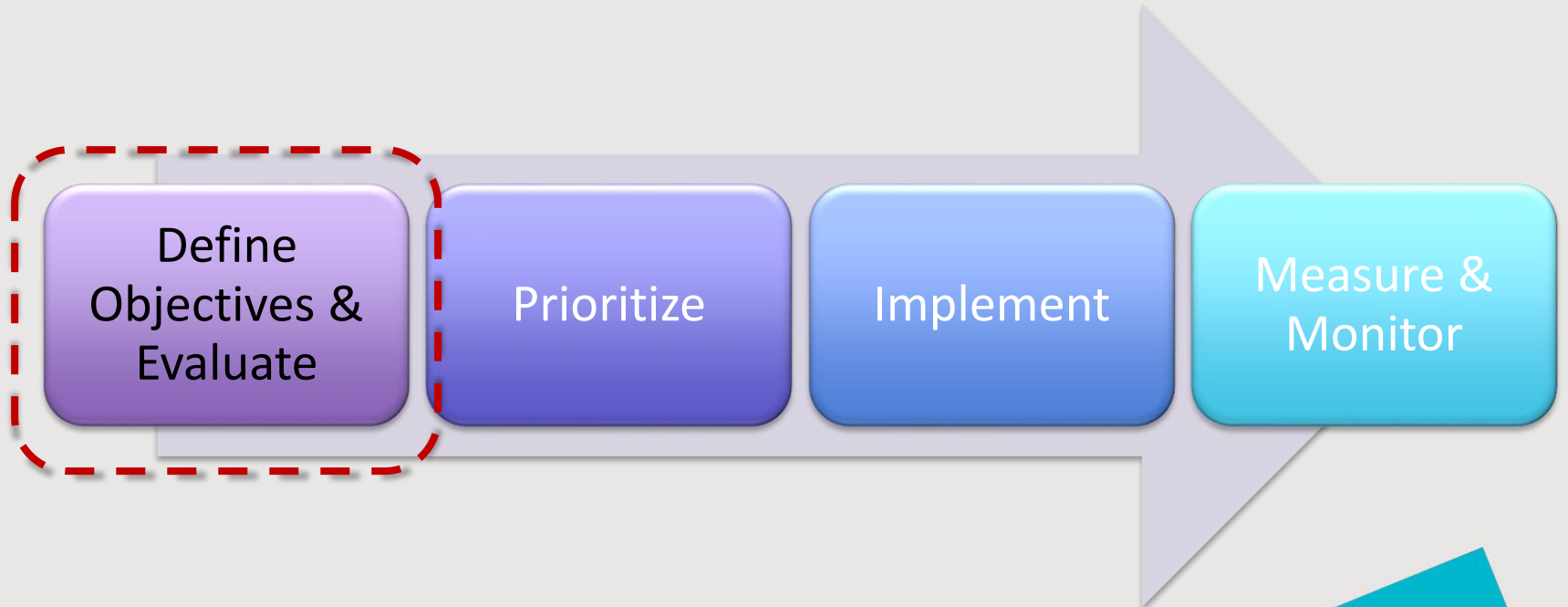
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Where to Start



Evaluate

Strategy	Purpose	Intended Result	Communications Team Role	Frequency
Intranet				
Home page				
Departmental page				
Email				
Information bulletins	50,000			
Activity reports				
Meetings				
Brown-bag lunches/ Information sessions				
Leadership team employee meeting	100,000			
All-manager meetings				
All-employee meetings				
Staff meetings				
Team meetings				
Corridor conversations				
Web site pages				
Monthly news				
Director staff meeting notes				
Organization				

	Recommendation	KPI
Process	<ol style="list-style-type: none"> Separate Preventive Maintenance (life safety) Code from QR activities. Disaggregate minor renewal, corrective, and reactive maintenance. Clarify definition and categorization of reactive maintenance activities. Monitor PM activity planned time vs. actual time. Define CMDB Fault/Value Codes. Perform quality assessment of equipment inventory data. Develop a system level retro-commissioning (RCx) program. Develop total system preventive maintenance procedures. Make DRF Operations Manual electronically available. Automate timecards and eliminate duplicate timecard data entry. Measure completion rate for preventive maintenance work orders identified as code compliance or life safety. Simplify interface for adding asset-specific field notes. Develop a O&M program that incorporates reliability centered maintenance. Improve parts delivery time. Develop dashboards for supervisors, managers, and coordinators. Conduct staffing analysis and define levels of service. Develop a communication plan. 	<ul style="list-style-type: none"> PM to CM Ratio PM Schedule Completion Rate Work Distribution by Type Open Work Orders (WO) by Type WO Completion Targets Top Ten WO Trouble Codes Workforce Productivity Emergency Response Time Compliance Material On-Time Delivery Maintenance WOs Awaiting Parts (%)
Customer		<ul style="list-style-type: none"> Customer Satisfaction Amount of project work completed
Learning & Growth	<ol style="list-style-type: none"> Develop job descriptions. Develop employee training for maintenance activities. Provide periodic O&M program training. 	<ul style="list-style-type: none"> Employee Satisfaction Rating Annual Staff Training Hours (Regulatory) Annual Staff Training Hours (Non-Regulatory)
Finance	<ol style="list-style-type: none"> Reduce Parts Invoicing Time to allow project closeout in a timely fashion. Utilize frarger web portal. 	<ul style="list-style-type: none"> O&M Parts Cost (vendor vs. In-house procure) Maintenance Costs per CRV Actual O&M Expenses to Budget General vs. Customer Funded work

- ✓ Goals
- ✓ Organizational structure
- ✓ Communication protocols
- ✓ Workflow processes
- ✓ Current metrics
- ✓ Staffing & resources
- ✓ Technology
- ✓ Customer satisfaction
- ✓ Employee satisfaction

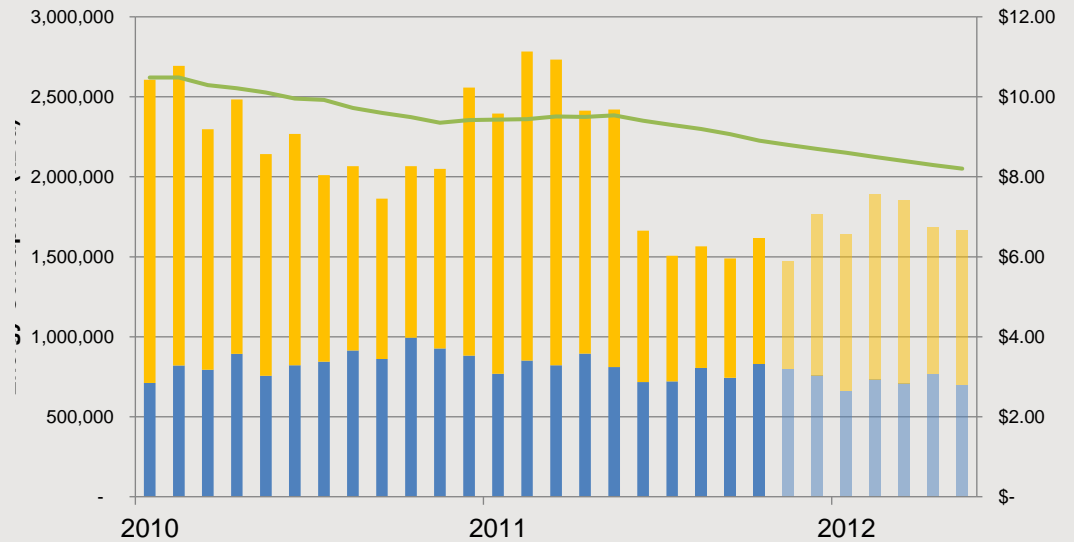
Defining the Future

Success Looks Like...

We have great customer service

We manage our finances well

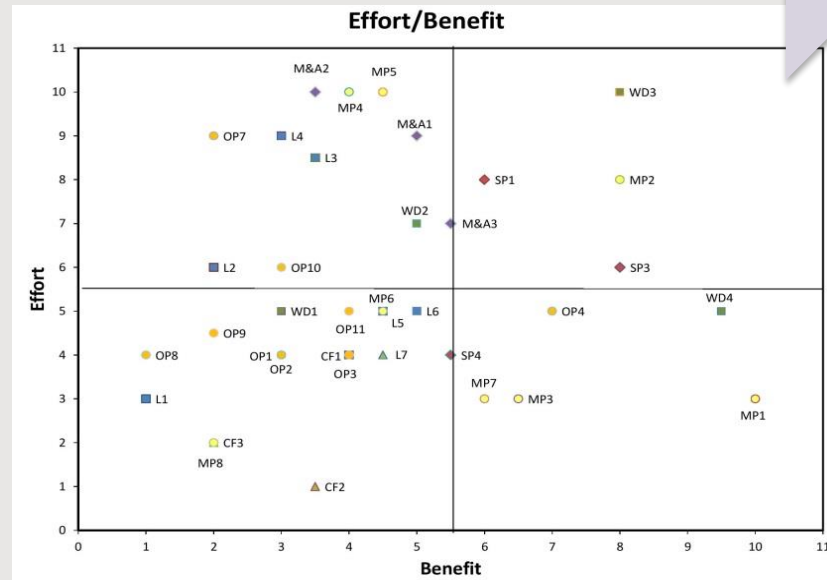
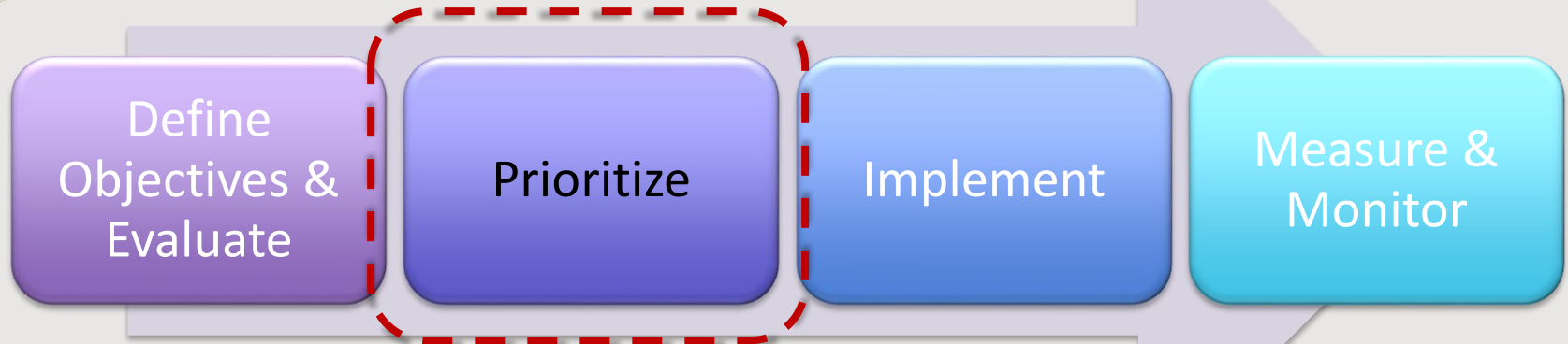
We have very limited down-time



Defining Outcomes

Success Looks Like...	How Will We Know?
We have great customer service	<ul style="list-style-type: none">• Timeliness of response• Reliability of services• Work quality• Positive interactions
We manage our finances well	<ul style="list-style-type: none">• Improve capital budgeting process for long term needs• Cost effectiveness of work performed• Cost of facilities
We have very limited down-time	<ul style="list-style-type: none">• Manage scheduled down-time for lowest impact• Improve critical system reliability• Perform the right amount of maintenance at the right time


Prioritize



Creating the Program



Selecting the Right Metrics



We like to think that more information drives smarter decisions; that the more details we absorb, the better off we'll be.

-Ron Friedman

Why Too Much Data Disables Your Decision Making

How Many Things Can You Measure?

Performance Measurement	Measurement	Target			Information Provided	Legal / Data Required	CHHS	Priority	Type Metric	KPI Level
		F	S	B						
Executive Management										
1. Executive Measures, Programs, and Initiatives										
Executive Expenses/Total	Exp/Total	<=100%	<=100%	<=100%	Monitor of expenses allocated to all customers	Yes	✓	✓	✓	1
Business Customer Repetition Coefficient	BCR	>=100%	>=100%	>=100%	Measurement of BCR use of assets	Yes	✓	✓	✓	2
Facilities Manager Controls of Expenses	FM/Exp	10%	10%	10%	Facilities manager and FM in customer facilities	Yes	✓	✓	✓	2,3
Customer M&M Expenses/Exp	CM/Exp	<=10%	<=10%	<=10%	Customer goals of saving, M&M trends	Yes	✓	✓	✓	2
Customer Expenses/Total Expenses	CM/Exp	<=100%	<=100%	<=100%	Monitor of customer spending by customer	Yes	✓	✓	✓	3
Customer Expenses/Total	CM/Exp	<=100%	<=100%	<=100%	Monitor of customer spending by customer	Yes	✓	✓	✓	3
Percent of Budget (Actual)	Act/Bud	<=100%	<=100%	<=100%	Monitor of budget vs actual M&M	Yes	✓	✓	✓	2
Customer Satisfaction	CSAT	>=90%	>=90%	>=90%	Business results of completed CM M&M	Yes	✓	✓	✓	1,2
Percent M&M with Customer Initiated	CM/Exp	>=100%	>=100%	>=100%	Monitor of customer initiated work orders	Yes	✓	✓	✓	2,3
Top Ten M&M Tickets Costs	Top Ten	<=5%	<=5%	<=5%	Top ten expenses	Yes	✓	✓	✓	2,3
PPPE Maintenance Cost of Assets	PPPE	1-3	3	4-8	Facilities and Maintenance Measures of Maintenance Issues	Yes	✓	✓	✓	1
PPPE Controls Cost of Expenses	PPPE	3	3	4-8	Facilities and Maintenance Measures of Controls Issues	Yes	✓	✓	✓	1
PPPE Controls Cost of Expenses	PPPE	1-3	3	4-8	Facilities and Maintenance Measures of Controls Maintenance	Yes	✓	✓	✓	1
Business Management										
1. PM, PIM/PTM, and CEM (Facilities Maintenance)										
Maintenance Productivity	Maint/Prod	>=100%	>=100%	>=100%	Top 100 PM or CM (annual focus)	Yes	✓	✓	✓	1,2,3
M&M Initiated to M&M or M&M of Inspection/CEM	M&M/Ins	>=100%	>=100%	>=100%	Monitor of annual program effectiveness	Yes	✓	✓	✓	2
Approved Budget	Budget	>=100%	>=100%	>=100%	Business results of value proposed	Yes	✓	✓	✓	3
Facilities Manager	FM	<=100%	<=100%	<=100%	Business results of value proposed	Yes	✓	✓	✓	3
Number of Preventive Maintenance	PM	<=100%	<=100%	<=100%	Monitor effectiveness of maintenance program	Yes	✓	✓	✓	1,2,3
Approved Budgets Control to Budgets [%]	Budget	<=100%	<=100%	<=100%	Monitor effectiveness of maintenance program	Yes	✓	✓	✓	2,4
Facilities Control to Best PM	PM	<=100%	<=100%	<=100%	Monitor goals of PM Program	Yes	✓	✓	✓	2,3
Mean Time Between Events (MTBE)	MTBE	Total	Total	Total	Monitor goals of asset	Yes	✓	✓	✓	2,3
Mean Time To Repair (MTTR)	MTTR	Total	Total	Total	Monitor lead time	Yes	✓	✓	✓	2,3
Customer Mean Time	MTTR	<=100%	<=100%	<=100%	Initiation of annual of customer facilities	Yes	✓	✓	✓	2,3
Asset Spend on Maintained M&M	Asset	<=100%	<=100%	<=100%	Business of activities, M&M performance	Yes	✓	✓	✓	2,3
PM to CM Ratio	PM/CM	>=100%	>=100%	>=100%	Monitor of maintenance initiatives effort	Yes	✓	✓	✓	2
PM Relative Completion Rate	PM/Comp	>=100%	>=100%	>=100%	Monitor of PM program effectiveness	Yes	✓	✓	✓	1,2,3
PM Completion for Cost Business	PM/Comp	>=100%	>=100%	>=100%	Monitor of goals completion (M&M or M&M program)	Yes	✓	✓	✓	2
PM Efficiency	PM/Comp	<=100%	<=100%	<=100%	Monitor efficiency of PM program	Yes	✓	✓	✓	2
Number PM Tickets	PM/Ticket	<=100%	<=100%	<=100%	Monitor of program effectiveness	Yes	✓	✓	✓	2
PTM Completion Ratio to Budget	PTM/Comp	>=100%	>=100%	>=100%	Monitor of program effectiveness	Yes	✓	✓	✓	1,2,3
PTM M&M or Percent of Total PM	PTM/Total	>=100%	>=100%	>=100%	Monitor of PTM program effectiveness	Yes	✓	✓	✓	2
Range Efficiency to PTM	PTM/Range	Total	Total	Total	Monitor effectiveness of PTM	Yes	✓	✓	✓	2
Number of Issues Resolved to PTM	PTM/Issues	Total	Total	Total	Monitor effectiveness of PTM	Yes	✓	✓	✓	2
Best Case Response [% Issues Resolved]	PTM/Best	>=100%	>=100%	>=100%	Monitor effectiveness of response to issues customer goals	Yes	✓	✓	✓	2,3
Percentage of Budget Approved Issues	Budget	Total	Total	Total	Monitor goals of customer	Yes	✓	✓	✓	2
Range Efficiency to CEM Program	CEM/Range	Total	Total	Total	Monitor effectiveness of CEM program	Yes	✓	✓	✓	2
CEM vs. Percentage of Cost Budget (Budget)	CEM/Budget	>=100%	>=100%	>=100%	Best Reported Efficiency measure	Yes	✓	✓	✓	2
Assets Held [% Managed in Full 12 mo.]	Assets	<=100%	<=100%	<=100%	Monitor of customer asset usage	Yes	✓	✓	✓	2
Maintenance/Production Time per Site	Maint/Prod	3-3	1-4	5-8	Monitor of customer leading performance	Yes	✓	✓	✓	2
Maintenance/Total Time	Maint/Total	>=100%	>=100%	>=100%	Monitor of customer program performance	Yes	✓	✓	✓	3
Percentage of Open Points Closed	Open	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Maintenance/Production Issues per Site	Maint/Prod	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Asset Mile	Asset	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Percentage of Best Practice Issues	Best	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Percentage of Range for PMs	Range	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Maintenance M&M Budget Points [%]	Maint	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Points Closed to C-Customer P-Costs [%]	Points	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
Initiate Costs to Process PMs	Initiate	Total	Total	Total	Monitor of customer program performance	Yes	✓	✓	✓	2
2. Maintenance Metrics - Productivity - Performance										
Maintenance Productivity (By Role on Productivity)	Maint/Prod	>=100%	>=100%	>=100%	Top 100 PM or CM (annual focus)	Yes	✓	✓	✓	1,2,3
CM - Best Case Efficiency - CM's CP, CEM [%]	CM/Best	>=100%	>=100%	>=100%	Best Reported Efficiency measure	Yes	✓	✓	✓	2
CM - Cost Efficiency - Total Productivity of Best Case	CM/Best	>=100%	>=100%	>=100%	Best Reported Efficiency measure	Yes	✓	✓	✓	2
CP - Cost Performance - Total Productivity of Best Case	CP/Best	>=100%	>=100%	>=100%	Best Reported Efficiency measure	Yes	✓	✓	✓	2
CEM - Cost Efficiency - Percent Best	CEM/Best	>=100%	>=100%	>=100%	Best Reported Efficiency measure	Yes	✓	✓	✓	2
Initiate Closed to Budget M&M [%]	Initiate	Total	Total	Total	Monitor effectiveness of budgeting budget M&M	Yes	✓	✓	✓	2
Best Relative to Top	Best	Total	Total	Total	Best measure of work initiative to top	Yes	✓	✓	✓	2

Metrics Can Be Driven By...

1. Financial performance requirements
2. Mandatory reporting requirements (resource use, pollution)
3. Voluntary reporting requirements (corporate citizenship)



Financial Drivers

1. How much money do we need?
2. Where should it be directed?
3. How do we know we are using our resources wisely?



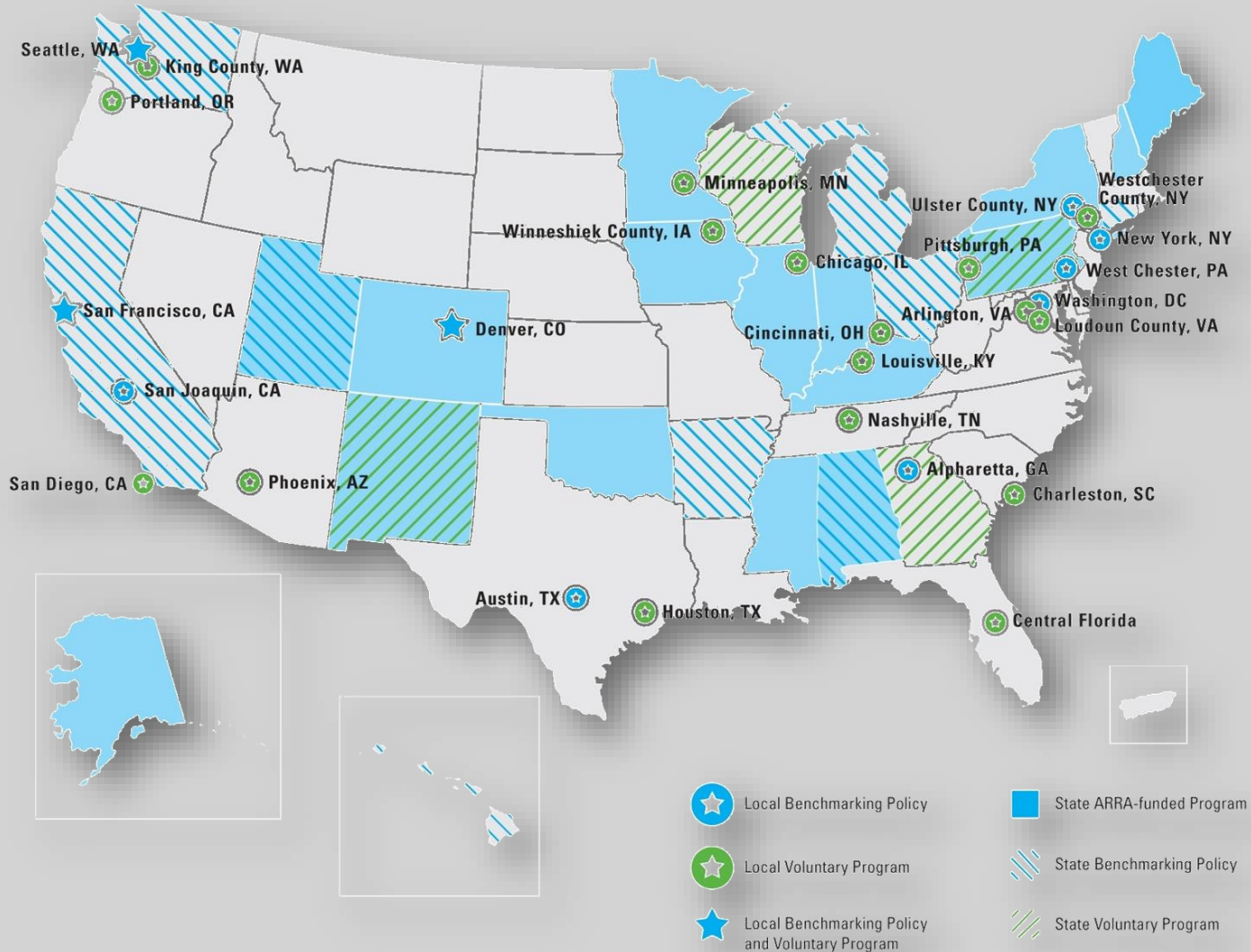
Reporting Requirements

“...It is therefore the policy of the United States that **Federal agencies** shall increase energy efficiency; **measure, report, and reduce** their greenhouse gas emissions from direct and indirect activities; **conserve and protect** water resources through efficiency, reuse, and stormwater management; eliminate waste, recycle, and prevent pollution; leverage agency acquisitions to foster markets for sustainable technologies...”



*-Federal Executive Order 13514
October 8, 2009*

Energy: Voluntary and Mandatory Disclosure



Global Reporting Framework

Reporting Protocol: GRI

Sustainability Reporting guidelines (G3 Guidelines)

Environmental Performance Indicators (9 Aspects)

- Materials
- Energy
- Water
- Biodiversity
- Emissions, Effluents, Waste
- Products and Services
- Compliance
- Transport
- Overall

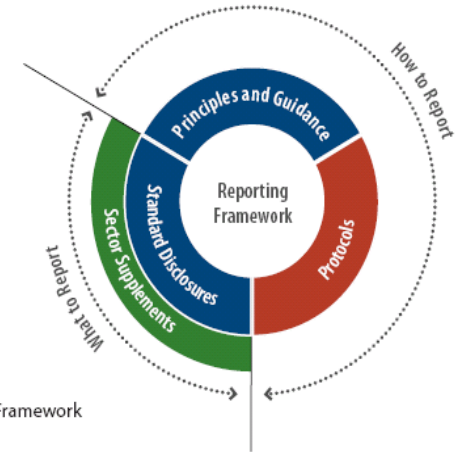


Figure 1: The GRI Reporting Framework



Example Balanced Scorecard

Department								Status
Improvement	7. Integrate technology to improve services	7a. Develop a strategic technology plan.						
		7b. Utilize the Big Foot upgrade process to improve work order management.						
		7c. Evaluate current work order codes, priorities, and completion rates.						
		7d. Develop an ongoing CMMS training program.						
Strengthen Retention and Recruitment	8. Formalize a program for career development	7d. Develop...						
		8a. Commur program.	% complete					
		8b. Impleme staff produci performance	% complete					
		8c. Docume plan by ideni manager	% complete					
		# of CMMS trainings delivered						

Mission Statement: Integ providing, maintaining an fulfilling the visions and g

ity operations by tomer's needs while



Information Sources



- ✓ FM Information System
- ✓ Staff
- ✓ Internal Surveys
- ✓ Utility Companies
- ✓ Service Companies
- ✓ Vendors
- ✓ Building Automation System
- ✓ Energy Management System
- ✓ Other Internal Systems

Linking Information to the Source

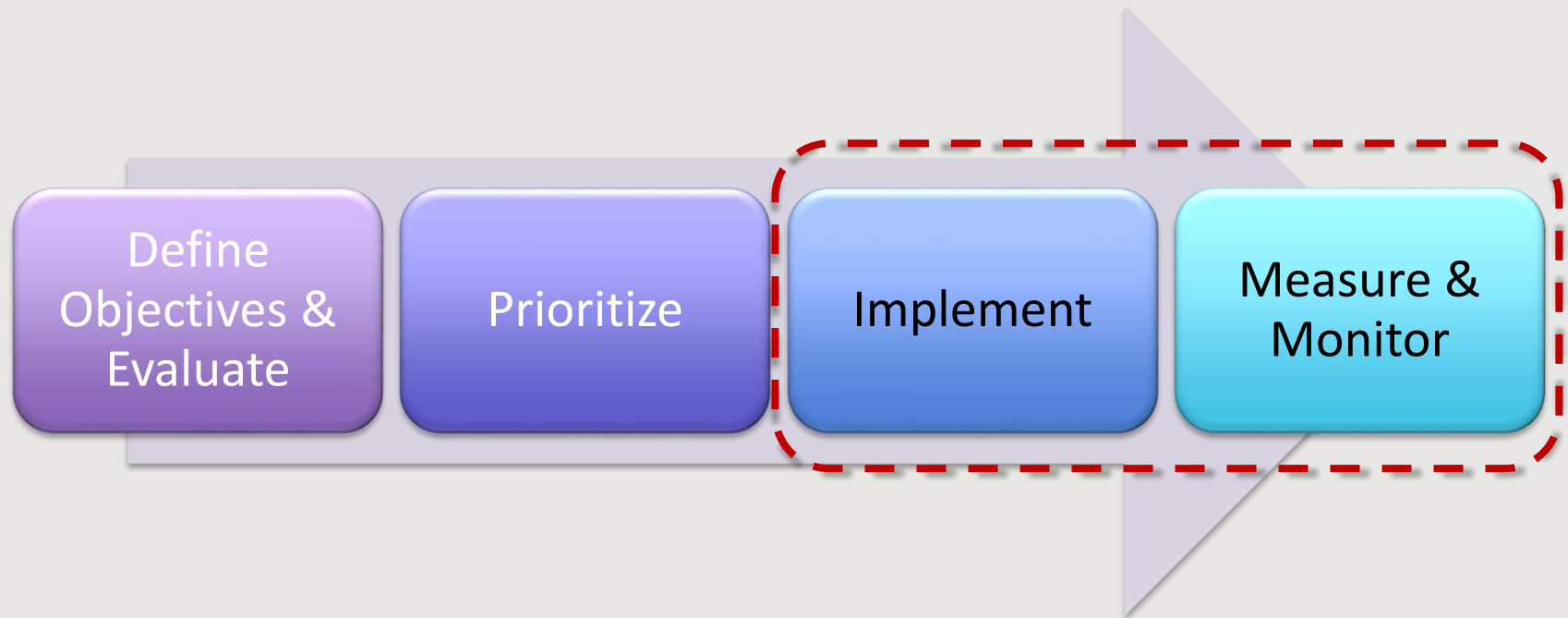
Commonly Measured	BAS	EMS	FM Information Systems	Other Internal Systems	Staff	Internal Surveys	Utility Companies	Service Companies & Vendors
Facility Info								
Occupancy			✓					
Space Use			✓					
Floor area			✓					
Energy Use								
Electricity		✓		✓			✓	
Natural Gas		✓		✓			✓	
Diesel								✓
GHGs		✓					✓	
IEQ								
CO2	✓	✓						
Thermal Comfort	✓	✓	✓			✓		
Purchasing								
Construction				✓				
Consumables				✓				
FF&E				✓				
Water								
Source					✓		✓	
Consumption	✓			✓			✓	
Uses	✓			✓	✓			
Waste Stream								
Waste					✓			✓
Diversion Rate					✓			✓
Recycling					✓			✓
People stuff								
Complaints				✓	✓	✓		
Noise					✓	✓		
Ergonomics					✓	✓		
Sick days				✓				
Productivity?				✓				
OH&S?				✓				
Site								
Waste water					✓			

Messaging and Motivation

Strategy	Purpose	Intended Result	Communications Team Role	Frequency
Intranet				
Home page	Business metrics/ dashboard	To keep employees up-to-date on progress	Update data that is not automated	Daily
Departmental page	Departmental dashboard, contracts, budgets	To keep employees up-to-date on department progress	None	Daily
Email				
Information bulletins	Inform, engage	Employees understand the purpose, progress and how to connect	Consult, develop, publish	Weekly and as necessary
Activity reports	Inform	Employees understand what the rest of the organization is doing	Collect and publish	Monthly
Meetings				
Brown-bag lunches/ Information sessions	Inform, clarify, exchange		Plan, announce	Twice a month
Leadership team employee meeting	Model open organization, Inform		Take notes	Varies
All-manager meetings	Inform, clarify		Note taking	Monthly
All-employee meetings	Inform, clarify		Planning, logistics	Twice a year
Staff meetings	Inform, clarify			
Team meetings	Daily work			
Corridor conversations	Various			
Web site pages				
Monthly news	Connect people to colleagues, to organization and to job	Employees connected and informed	Develop, publish	Monthly
Director staff meeting notes	Connect people to organization and document organizational history	Employees connected and informed	Develop, publish	Weekly
Organization				

- ✓ Communication Plan
- ✓ Program Training
- ✓ Report Progress
- ✓ Celebrate Successes

Implementation & Monitoring

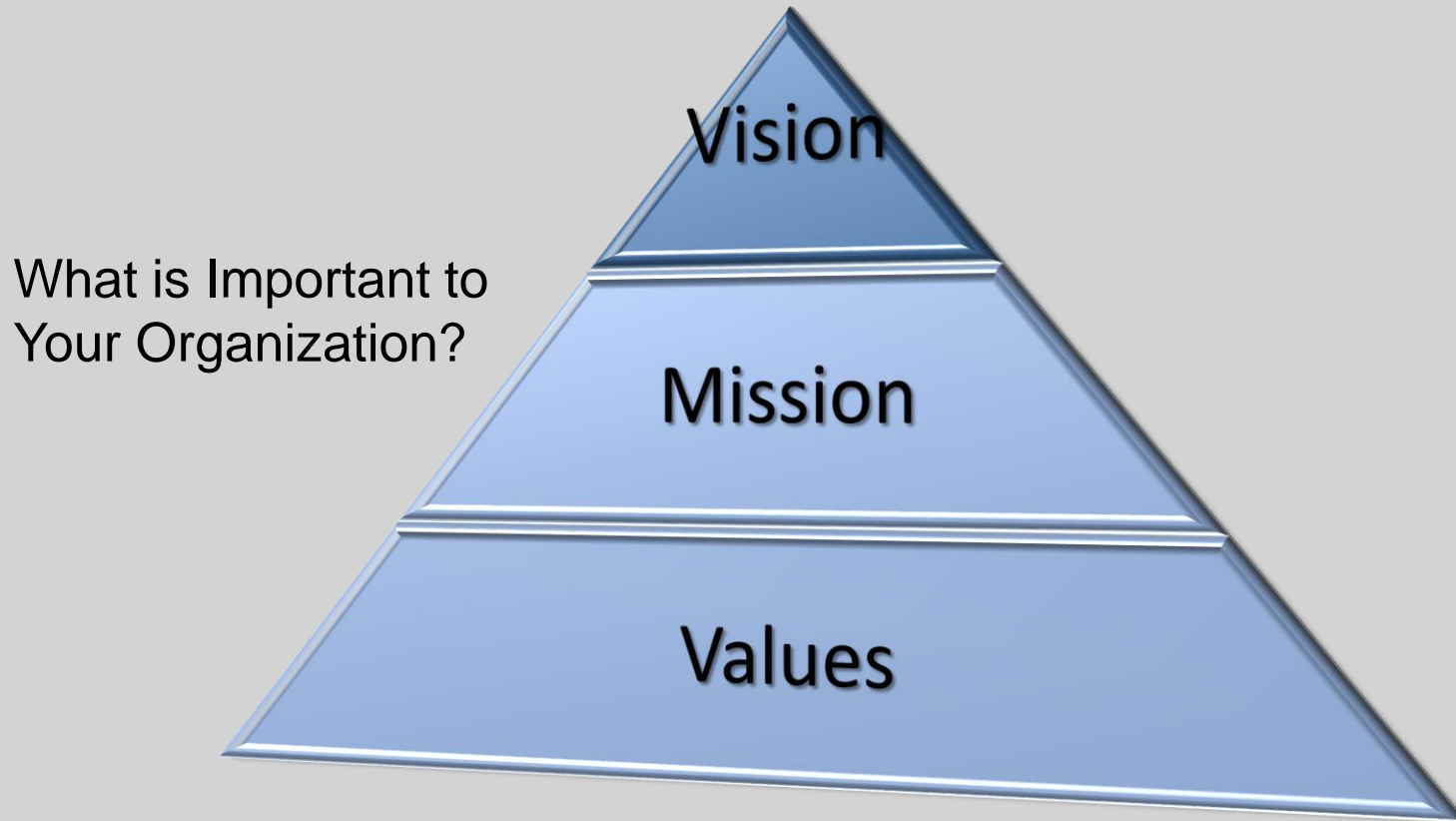


Agenda

- The Building Blocks of a Strategic Approach
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- Telling the Story



We Started Here...



Now, tell the story!

Telling the Story

Tips for Success

1. Know your audience and how people think
2. Sketch it out
3. Use graphics
4. Use trends
5. Include the future as well as the past
6. Keep the focus on the right information



Framing Effects

How different ways of presenting the same information can evoke different emotions, decisions, and outcomes



The Perception: Facilities is a Cost Center



Facilities is an Investment in Organizational Success



Sketch it Out

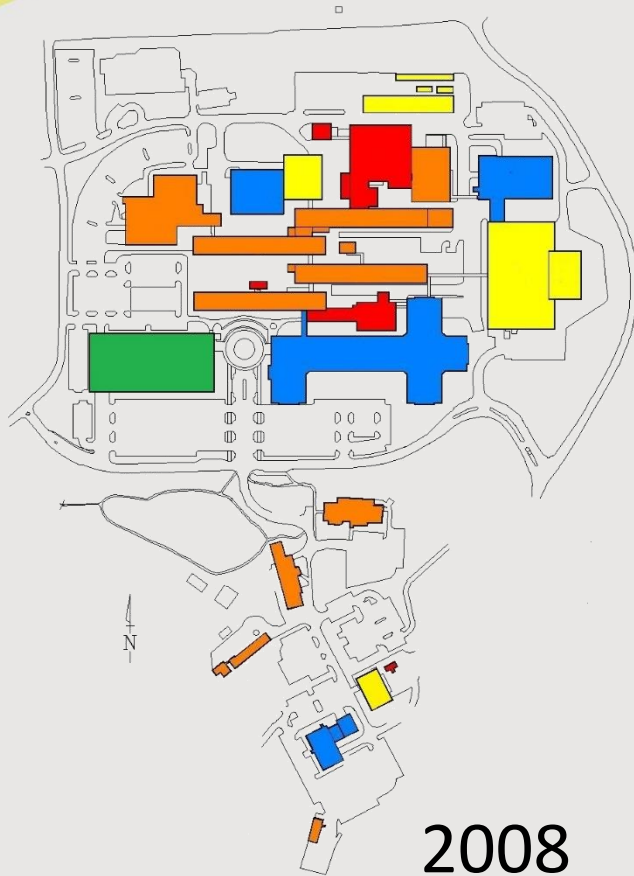
The sketches consist of several overlapping pages of hand-drawn notes and diagrams:

- Page 1 (Leftmost):** A vertical list titled "Workforce" containing various metrics and categories such as "# of staff", "Production", "Training", "Energy", "Annual", "Utilities", "# of IT", "# of staff", "# of calls", and "Hours".
- Page 2 (Middle-Left):** Titled "FINANCE", it includes a list of metrics like "200,000 • Cost", "• SKL", "• Cost", "• Cost", "• Cost", "• Utility", "• Total", "• Total", "• Month", "• Power", "• Cost", "• Cost", "• Bill", "• Shop", and "• Water". A central box titled "Workforce" lists:
 - # staff by type (labor, fixed labor)
 - Productivity
 - Training program status (people)
 - Employee satisfaction
 - Annual staff training hours
 - Utilization
 - # in-house presentations or work
 - # staff related conferences attended
 - # staff by department
 - Hours by division (MOP, PMOP)
 - Hours billed by staff type (labor, ...)
- Page 3 (Middle-Right):** Titled "Operations Report", it includes:
 - Operations Department to report support the university by _____ through _____
 - What we are working to accomplish, why it need
 - Metrics:**
 - # buildings
 - # acres
 - # trees
 - degrees of staff
 - % landscape/maintained areas (concrete, non-pavement surface)
 - Operations by the numbers:
 - # people on campus (avg.)
 - # employees on Ops.
 - # vehicles on campus (ca)
 - # tickets
 - # SW saved for by Opns
 - A pie chart showing "50% Annual" and "50% Annual" with the note "Breakdown of SW & Utilities under Base by Question".
 - Organizational chart for "Bldg Ops" with sub-units like "Bldg Ops - Utility", "Arch. Maint. & Rest.", "Grounds Maint.", and "Event Services".
- Page 4 (Rightmost):** Titled "Report", it features:
 - Hypothesis 1: Student → End of day travel to reduced
 - Hypothesis 2: Travel time balancing to reduced
 - Hypothesis 3: Dealing with job materials...
 - Hypothesis 4: Work orders requiring immediate action...
 - Intention: "prove we're the best have our staff organization?"
 - Use this for Report
 - What KPIs/metrics do they currently report? → include "Smart Types"
 - Factors of use/influence:
 - Appointments
 - Real-time demand
 - Season
 - Prospective...
 - Goal... demonstrate
 - because of # ... work flow service
 - to the best because they use best practices... not
 - List of metrics: # users, # hrs changed, # Prod vehicles, # hours of work day, # people on panel, # hours on site, # ITPS, # tickets, # cost of work, # SW saved, # SW saved, # SW saved.
 - Numbered list:
 - Employee time for BPs
 - Acres saved for staff sleep by currently
 - Research for proposed work
 - Total completion - analysis
 - SW saved by type
 - Budgets saved by work type
 - Reduce work by type
 - Ref: "FFMT Benchmark Report" → single + consistent
 - Overall:
 - Group #1
 - Group #2
 - Group #3
 - Events:
 - IT + Commands
 - WEP
 - WRE
 - Overview:
 - Workforce - who's going on site, how off are we using (how / training) - training hours
 - Finance - how much did we spend, where is it going, cost. find vs. recover?
 - Customer - how many are out of hand? What types do we do? What do people say about us? # people completed
 - Impacts... shifts bear working on (utilities)
 - Spots: # bldgs, # people, # SW, # saving days
 - What else should be reported on? Downtime? Energy use, water use, # work orders (tickets), types of activities
 - environmental contracts, what we send out, services we provide
 - % SW cost of operations
 - # calls received, where from, call response time
 - # calls worked, # fixed from work orders, # work order workers

Use Graphics

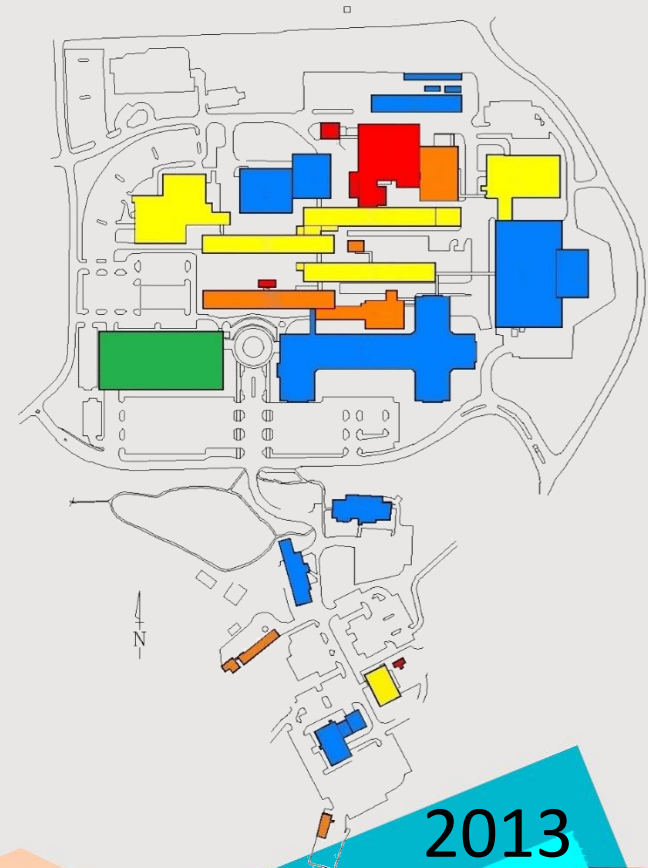
Condition Index

- Excellent
- Good
- Fair
- Below Average
- Poor



2008

Invest \$24M



2013

Mission Criticality & Capital Needs

Use Trends

Healthy People Impact Profits

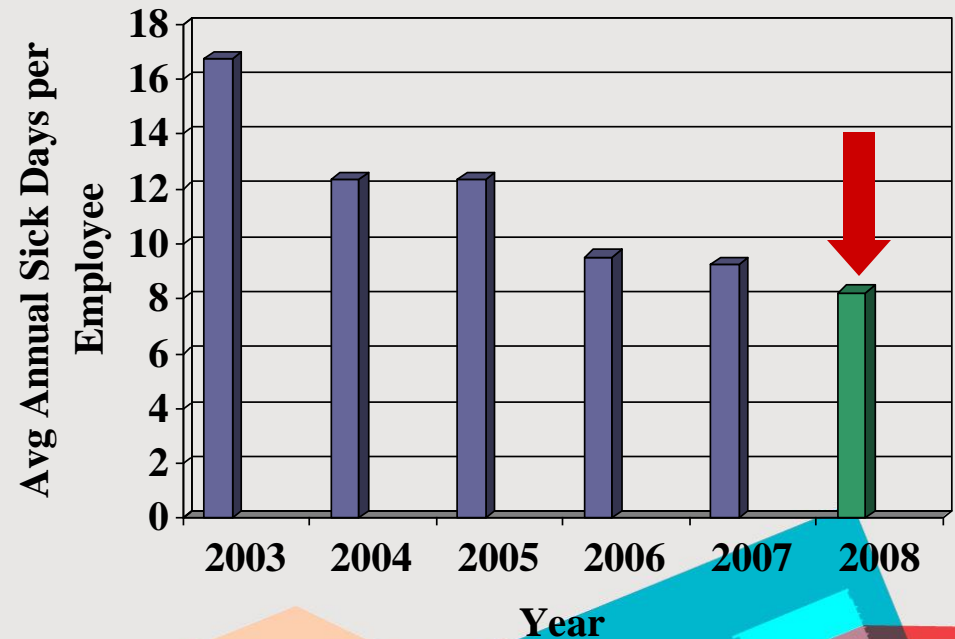
Through these programs, the company reduced employee sick time

Reducing sick time by

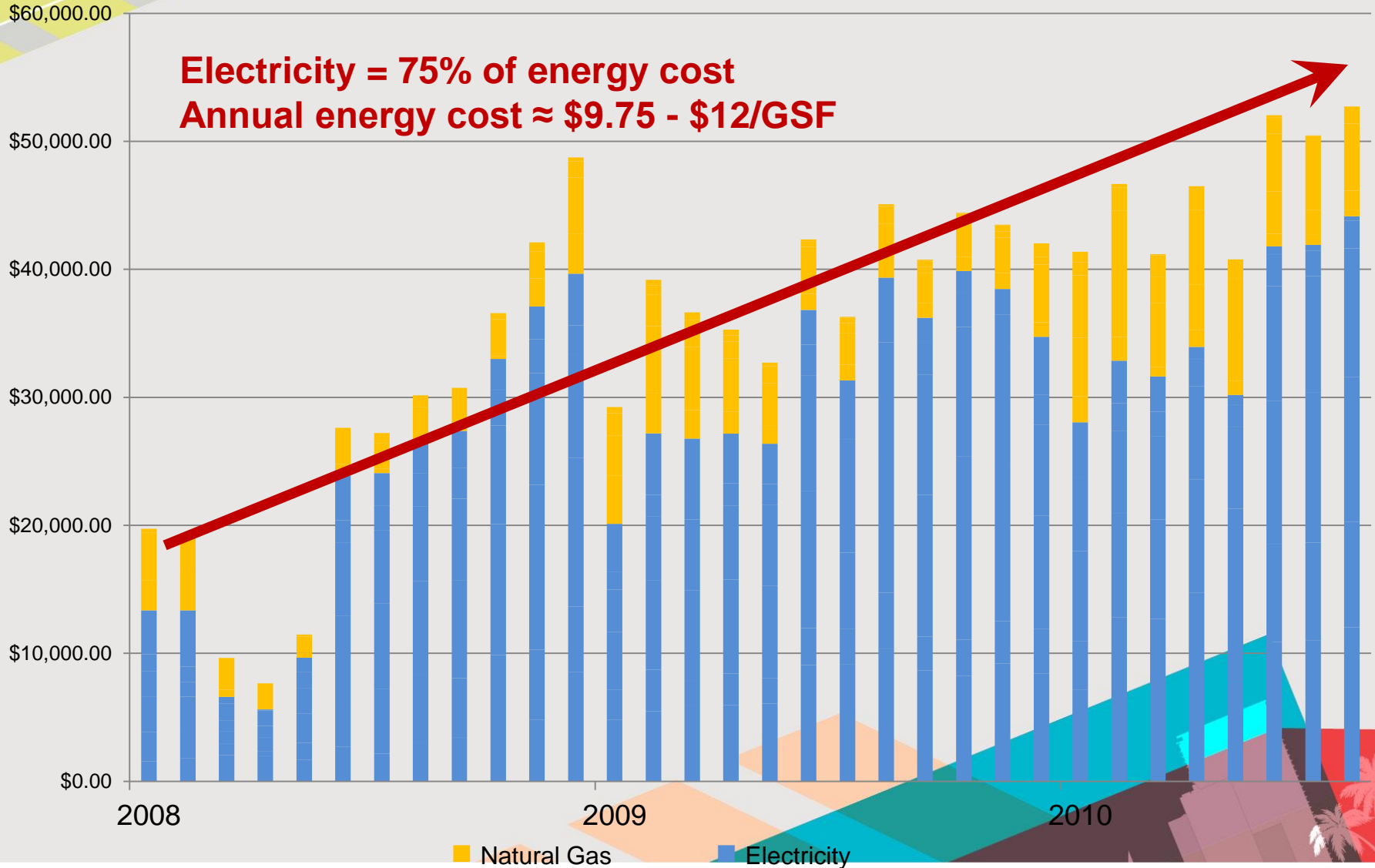
- 1 day
- per employee
- per year...

Estimated savings: \$105,000 each year

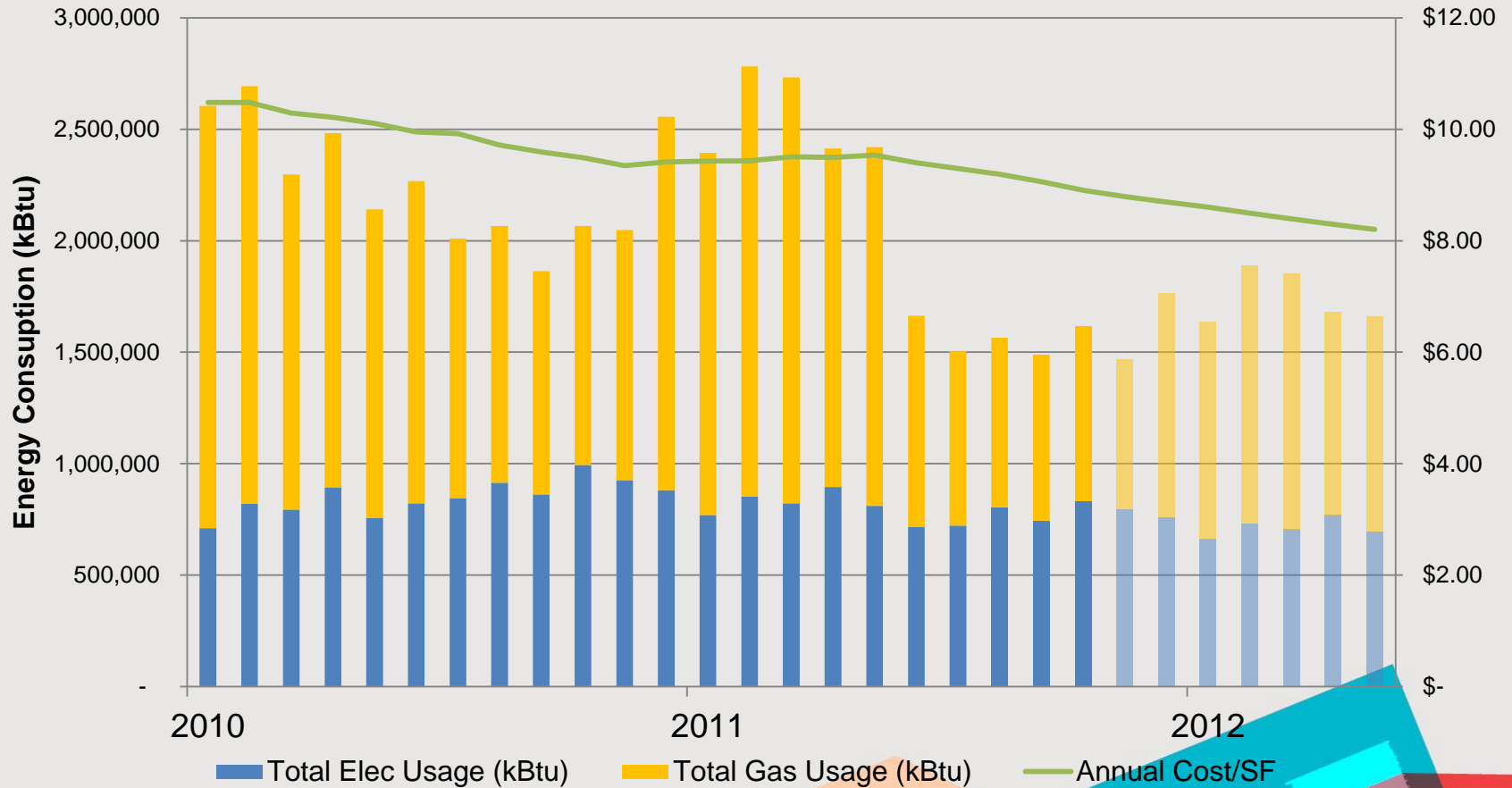
Based on 1,750 employees, average cost \$60/employee



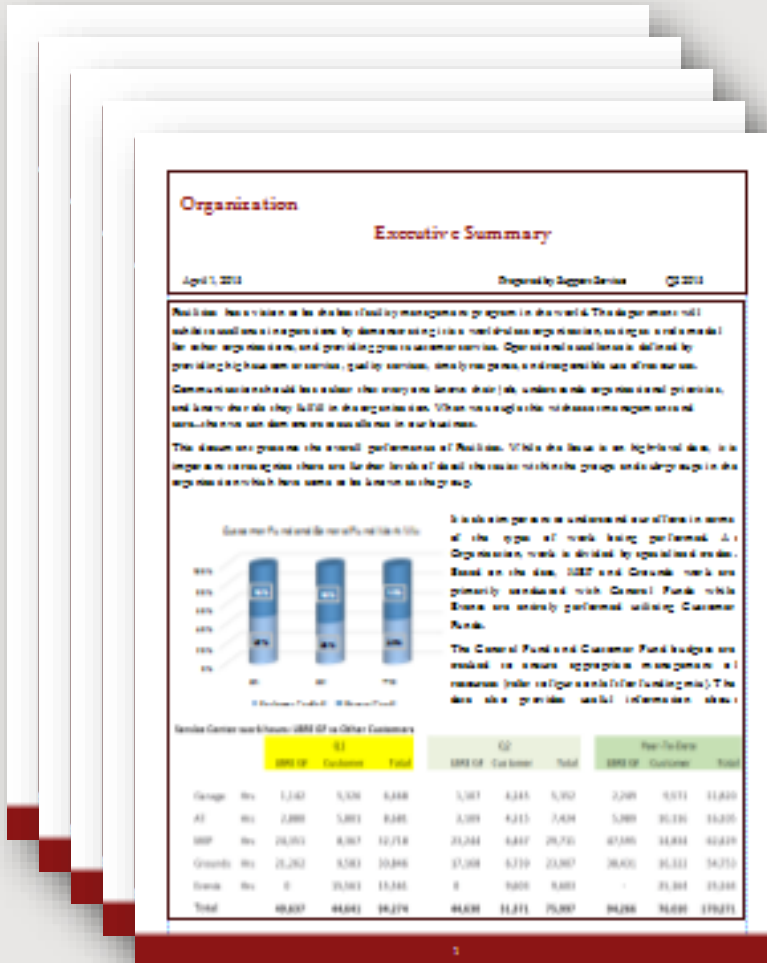
Use Trends



Include the Future



Reporting



- Targeted to your audience
- Reports progress using selected metrics
- Paints a picture for future success

Summary

- Organizational drivers inform metrics and KPIs
- Choose the right metrics and KPIs
- Demonstrate alignment with organizational mission
- A well crafted report tells your audience what they need to understand past performance and future expectations



Questions?

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Thank You!

Laurie Gilmer

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