

Continuous Improvement and Change Management in Higher Ed

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Continuous Improvement and Change Management

Continuous Improvement means...

- 1. Operations Improvement Eliminating administrative mistakes Cut unnecessary or redundant steps from processes Simplify processes and tasks
 - 2. Asset Management (Reliability) Increase equipment uptime Reduce unexpected failures and equipment breakdowns Extend useful life of equipment

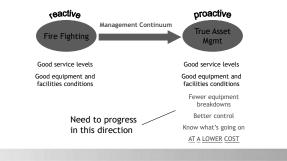
Continuous Improvement and Change Management

Agenda

- Continuous Improvement
- Change Management
- Measuring Results

Continuous Improvement and Change Manageme

Continuous Improvement means becoming more proactive.



| Continuous Improvement and Change Management | Continuous Improvement and Change Management |
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| Continuous Improvement is about incremental change | Continuous Improvement means employees at all levels of the organization feel a sense of ownership and pride. |
| Continuous improvement should focus on making small incremental improvements, not always massive sweeping changes. | Employee morale is important.When morale is low, it shows.When morale is high, it shows. |
| The continuous improvement premise is that people should be looking for small improvements in the things they do themselves | |
| thereby streamlining the process as a whole. | When morale is high, employees contribute more. They take more ownership for mishaps. They seek out and pursue improvements. |
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Continuous Improvement is about employees leading the improvement efforts.

Not a "Suggestion Program".

Employees generate ideas and implement the improvements.

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Current State of Things

Existing processes and systems are highly complex and piecemealed together.

In most organizations, especially in higher ed,...

...processes and the systems to support them have been twisted and contorted to meet specific needs over the years.

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Motivating People to Continuously Improve

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In higher ed, people don't change jobs too often.

At middle management and staff level, there is very little employee turnover.

In most organizations, facilities processes and maintenance procedures <u>have</u> <u>evolved over time with little planning or deliberate structuring</u>. Status quo is working fine.

This sense of comfort quietly permeates the FM department. obody recognizes the inefficiencies and improvement opportunities.

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Grand proclamations don't motivate.

When looking for improvements from staff, we need to provide focus.

Don't just say we want you to start making improvements and make sure we're doing things efficiently.

Need to give people a particular aspect of the organization that needs improving and then set them on a path to seek out and make improvements.

Objectives have to be clearly stated...and specific.

Through some assessment process (utilizing input from leadership, management, staff), identify specific objectives or guiding principles.

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The message coming from leadership should be...

If we are doing something counter to these objectives/guiding principles, bring it up. Let's fix it.

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Example of Objectives/Guiding Principles.

Guiding Principles for Operations

Work is managed efficiently from reception to completion

We will perform our work in a cost-effective manner Supervisors are ultimately accountable for prioritizing and managing work within their shops

We remove barriers allowing our tradespeople to maximize time spent applying their craft We will do the right preventive and predictive maintenance on the right assets

We will encourage our staff to become highly educated in their crafts We will encourage our tradespeople to communicate with occupants and building managers We will foster a culture of teamwork and collaboration with team members across Physical Plant

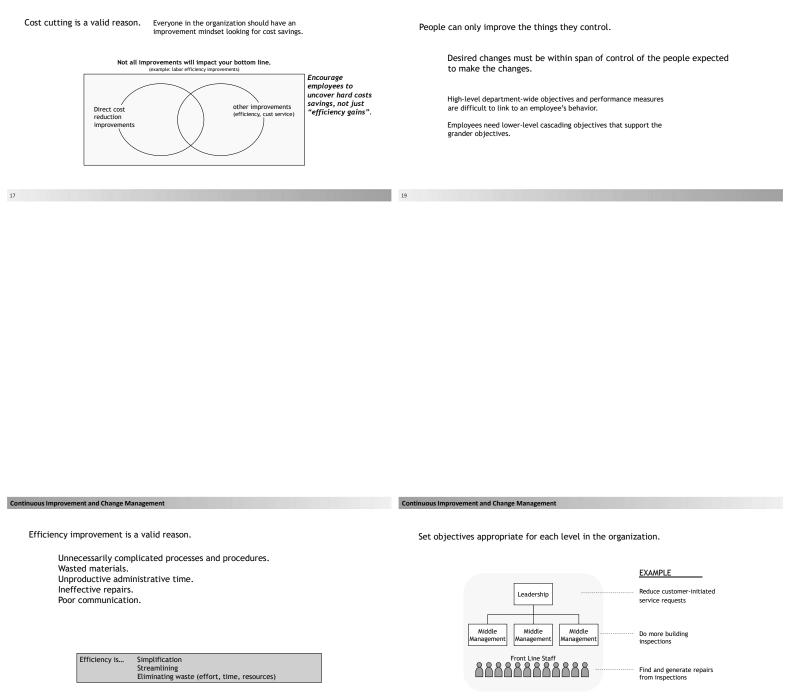
Put this in writing. Communicate it.

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Continuous Improvement mini-projects have to be well-defined.

When an improvement idea is generated, help frame it and define it.

If it's too vague, it's hard for employees to take it on.

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Examples of improvement ideas,... which ones are stated with enough specificity?

<u>PRIORITY 1</u> Implement lubrication management program. Develop preventive maintenance program for department-owned assets. Improve the way multi-shop work orders are coordinated and managed. Improve FM involvement in capital project inspections and closeout. Remove inefficiencies in the work order process. Improve warehouse request and picking process.

PRIORITY 2

Enhance capital project engineering standards for equipment maintainability Incorporate predictive technologies in preventive maintenance program Develop a skills-based training program in each trade shop. Continuous Improvement and Change Manageme

Open Lines of Communication

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| Trades Supervisors and Leadership are sometimes the brick wall, stopping ideas from going anywhere. | <i>Motivating Employees</i> is not just a singular meeting to introduce the idea and ask for improvement ideas. |
| Ideas are often perceived as complaints or griping but that's only because of the mindset of those involved,on both sides. Front line employees need some channel for identifying and communicating ideas up the organization at least one level past their supervisor. | It takes time for employees to catch on and begin contributing Frequent departmentwide workshop sessions on the topics Frequent departmental meeting and discussions Focus groups |
| Need to create a process for input and feedback, circumventing the brick wall if needed. | 27 |

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Collecting feedback and improvement ideas.

Quarterly meetings with shop staff and support staff $% \left(ask \right) = \left(ask \right) \left(ask \right) = \left(ask \right) \right) \left(ask \right) \left($

- Needs to be facilitated well, focused on operations.
- Needs to be a listening session, no responses needed.
- Maybe without management and leadership in the room.

Emails to a single point of contact for improvement ideas.

Electronic survey with comments options.

Nothing innovative here. Feedback mechanism should be simple and easy to execute.

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Who's your target for generating improvement ideas?

We're not just directing the message at shops and trades staff.

Continuous Improvement should come from throughout FM... Finance Warehouse Safety Shop supervisors IT administrators Purchasing

Continuous Improvement is about employees leading the improvement efforts.

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 Someone needs to be driving and facilitating the improvements.
 A Facilitator moves things forward.

 An idea is born or there is a notion that something isn't quite right.
And it is corroborated,...
 Employees don't always have the time to dedicate to
improvement definition, research, and execution.

 Need someone to help employees dig deeper and develop the solution.
 The Facilitator needs to help...

 ... translate issues into improvements.
... refine the ideas and ciroborate them with data.
... develop solutions and fix problems.
... implement decided solutions more broadly throughout the department.

Someone needs to facilitate the discovery and improvement definition and execution.

Need a Driving Force

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What's missing in FM?

In industry, there is always a Quality Assurance (QA) department.

It's usually these QA departments driving the improvement programs and helping to execute them.

- \checkmark ~ Provide training on evaluation and improvement techniques
- Facilitate, track, and drive the improvements
 Help monitor and measure the results

Facilities management organizations seldom have a Quality Assurance function.

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Implementing a Continuous Improvement "Program"

Continuous Improvement and Change Manageme Continuous Improvement and Change Management Hard definitive steps to instituting a formal Continuous Improvement Who should be the Facilitator/Driver? program... An outsider who will ask probing questions. Appoint a facilitator/manager over the continuous improvement program (maybe a team). • Provide this individual with training on continuous improvement philosophies/strategies. ("outside" the direct leadership team) Announce the program. Let people know it's real and you're looking for improvements. Someone who brings a fresh perspective. Create a framework for logging the projects and monitoring them. Someone with some autonomy and wide-reaching authority. Conduct introduction sessions and workshops with employees throughout FM. Provide training to interested employees (project management, problem solving, change management, etc.) Where to look ... a dedicated Quality Assurance (Business Analyst) position within FM an outside consultant a new Director/Manager 34

Make it a real thing. Not just another fleeting management initiative.

Help people frame the projects and develop solutions.

Recognize the projects to create awareness and provide some authority to the project leaders.

Encourage work time spent on these improvement projects.

Recognize successes.

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Tips for Successful Continuous Improvement

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| Continuous Improvement is about employees leading the improvement efforts. | Corrective Action Program is a tool for Continuous Improvement. |
| Not a "Suggestion Program". | When some triggering defect is found, initiate a corrective action to fix the underlying cause |
| Employees generate ideas and implement the improvements. | What's the precise problem? Where in the process did it occur? What's the root cause? (Root Cause Analysis) Eliminate the root cause to prevent it from happening. |

Develop a corrective action template and provide training.

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| Failure Analysis is a tool for Continuous Improvement. | Simplification is a real goal. |
| Failure analysis is a proactive tool to identify potential failures and take precautionary steps to avert them. | Noticing that things are too complicated and untwisting everything. |
| Failures of equipment Failures of processes Failures in service delivery Failures in administrative tasks | Processes and systems should be more: ✓ streamlined ✓ simplified ✓ intuitive |
| Provide training on failure analysis techniques. | How to streamline Identify the critical needs (and there aren't too many of those). All other "needs" should be questioned. Streamline the processes keeping just the critical needs intact. |
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Getting organized is a tool for Continuous Improvement.

- \checkmark $\,$ organized with our record keeping $\,$
- \checkmark organized with our systems and processes
- \checkmark organized physically in the office, warehouse, shops

| A well-run organization makes a difference. |
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| Customers will notice it. |
| Employees will notice it. |

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Don't confuse technology utilization with Continuous Improvement.

In the name of progress, we often force people to use imperfect and inefficient software.

Unwittingly, we are creating a process worse than before.

This software-centric approach to process development sometimes will stifle improvement ideas and their execution.

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|--|---|
| Standardization can be counterproductive. | How to utilize labor efficiency improvements. Improvements often lead to efficiencies which result in additional <u>theoretical</u> work hours. |
| Don't force a "standard" way of doing things at a task level. | |
| | Need to convert these theoretical newfound labor hours into <u>actual</u> hours used for the greater good. |
| As a management team, control things at a higher level,but leave the details for employees to figure out. | Start doing higher-level activities. Just put them on the schedule and begin doing them. |
| Standardization at task level is the exact opposite of continuous improvement. Standardization of tasks and methods is micromanaging. | Proactiveness activities Preventive maintenance and walk-through inspections Equipment and maintenance analysis Job enrichment activities Training and education Improvement projects Customer meetings |
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Spreadsheets are not forbidden.

People like to analyze things and create sophisticated functions in Excel.

Let them do it as long as your needed system inputs and checkpoints are met.

Sophisticated spreadsheets with macros, formulas, color coding, etc. Don't crush this enthusiasm by forcing people into a software with subpar functionality for analysis. The Higher Ed challenge...not everyone is motivated to get involved.

Even the best contributors may not be driven to make improvements.

Higher ed culture is unique... employees sometimes come to higher ed from industry for a non-pressure environment. (and our institutions are welcoming of it.)

Not all employees will embrace the improvement-oriented mindset. It's not a bad thing... just something to take note of.

We shouldn't alienate them. They are equally important and valuable.

Varying degrees of involvement from FM employees.

Don't expect, nor require, that everyone embrace the continuous improvement mindset.

Just ensure no one stands in the way... most people will play along nicely if you are truly carrying through with promises...



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Change Management in a nutshell...

Change Management is all about increasing the likelihood of acceptance and long-term adoption of a change.

It's the "people" side of implementing changes.

Changes requiring "change management" are... Process changes Organizational changes Technology changes Work practice changes

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Change Management is deliberate.

Change management tasks need to be specifically defined and woven into the project plan for the particular change.

Change Management is never it's own project. Rather it's the set of activities in any project that increase likelihood of acceptance.

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Developing a change management plan for your initiatives.

Proper training on the change Documentation and clarity of the change Methods and speed of rollout

Etc.Incorporate the mitigation steps into initiative workplan

Identify what specifically is changing and who will be affected.
 Brainstorm the risks/obstacles that could come up when implementing the change.
 Brainstorm ways to mitigate or eliminate the risks/obstacles.

 Communication/awareness
 Education on need for the change
 Stakeholder meetings and involvement in development, implementation

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Example change management plan...

| Project | Specific Changes | Who is involved? | Mitigation Steps |
|---------------------|--|--|---|
| Warehouse processes | Controlled access to stock shopping (stop people at the door before going in). Implement controlled checkout by warehouse staff after self- serve shopping. | Warehouse staff Shop supervisors and trades | Test and streamline checkout process by warehouse staff. Have multiple checkout stations available in warehouse to minimize wait time for tradespeople checking out. Training on mobile software for warehouse staff to support tradespeople users materials requests. Training meeting with all supervisors on Warehouse Processes 101. Communicate with shops in advance, give waring about the upcoming changes. |

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Example change management plan...

| Project | Specific Changes | Who is involved? | Mitigation Steps |
|------------------------|--|---|--|
| Lubrication management | Change in lubrication techniques Change in oil and grease storage and handling Change to oil and grease products used | Machine shop employees Mechanical shop employees Generator team Fleet garage employees | Meeting with relevant supervisors in advance to explain the initiative and general timeline. Tradespeople awareness meeting prior to lubrication training. Pilot program for grease with Machine shop and Mechanics, then other shops. Lubrication training Include relevant supervisors Trainers should help inform skeptics Trainers should stress importance of grease routes |

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"Keeping people involved" is not simply about keeping them informed.

"Involved" is different than "informed".

Don't simply inform people of progress and solicit feedback.

Getting people involved means actually letting them develop solutions and make preliminary decisions.

People don't like to be lectured, then allowed to provide feedback. That's not being involved.



Why Your KPI Program Doesn't Work

With any change, delivery matters...personalities matter.

Check your ego at the door.

The people delivering the change, the tone used by those individuals matters... It matters a lot. There is a way to be firm yet empathetic when rolling out changes to people.

Militaristic approach doesn't work.

The words used, the tone, the connection with the people being affected all matter a lot.

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KPI

stands for

Key Performance Indicator

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Typical FM Performance Indicators:

- ✓ Cost/sf
- ✓ Cost/student ✓
- Preventive Maintenance Hours ✓ FTE/sf
- ✓ Utilities/sf
 ✓ Customer S Customer Survey Rating

High-Level metrics usually reported by FM leadership to University administration.



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Why Your KPI Program Doesn't Work

KPIs metrics at this level are usually developed for benchmarking and leadership direction-setting.

This is good and very valuable, but there's no real operational benefit to the organization.

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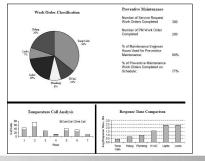
Why Your KPI Program Doesn't Work

Develop KPIs to measure the success of continuous improvement initiatives.

KPIs and metrics support continuous improvement.

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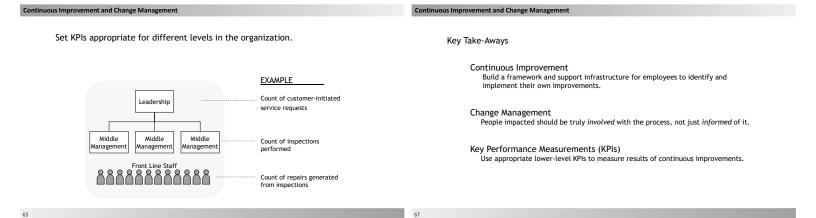
Don't begin "implementing" KPIs by presenting and emphasizing a "scorecard". Do this last, if at all.



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Determine KPIs applicable to specific improvement areas.

| Improvement Area | Key Performance Indicators |
|---|---|
| Implement formal Lubrication Management | Count of repair work on pumps. Count of catastrophic bearing failure (matl cost > 1000). Bearing parts usage |
| Implement planning and scheduling process | % labor scheduled % material costs planned vs actual |
| Finish asset portfolio | Monthly count of asset records created % of assets with attributes entered Monthly count of assets changed from ACTIVE status. Count and % of work orders with an Asset ID entered |



A KPI program should never be a stand-alone management initiative.

The initiative is to instill the organization with a continuous improvement mindset.

KPIs are used to gage the various improvement efforts.

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