Lesson Learned from Pilot Implementation of Organizational Performance Management (OPM) Process Area

Monday Half-Day Tutorial
Specific Goal and Practice Summary

SG 1 Manage Business Performance
- SP 1.1 Maintain Business Objectives
- SP 1.2 Analyze Process Performance Data
- SP 1.3 Identify Potential Areas for Improvement

SG 2 Select Improvements
- SP 2.1 Elicit Suggested Improvements
- SP 2.2 Analyze Suggested Improvements
- SP 2.3 Validate Improvements
- SP 2.4 Select and Implement Improvements for Deployment

SG 3 Deploy Improvements
- SP 3.1 Plan the Deployment
- SP 3.2 Manage the Deployment
- SP 3.3 Evaluate Improvement Effects
Organizational Performance Management (OPM) purpose is to proactively manage the organization’s performance to meet its business objectives. In Maturity Level 5 the organization is expected to continually improve its processes (methods) and deliverables (systems, software, services and acquisitions) based on a quantitative understanding of its business objectives and performance needs.
Some Questions
(from first case study)

- Can we justify a tool with OPM
- How to do it
Some Questions
(from second case study)

- We have only financial business objectives
- Our PPMs dose not provide PMs practical insights
- We are lacking a system level insights
- We don’t know how to map and connect our objectives to quantitative targets at process / deliverable level
Case Study #1
Requirements Analysis and Management
Process ROI

Project Idea and Proposal Preposition Development

- If an average developer day cost is ~7000
- The total Program effort was 10220 day (100%)
- The testing phase was 1480 day (14.5%)
- Defect that are the result of documentation are 69% of all defects

- If we will assume the to correct 69% of all defects will take around 40% of the testing duration; \( \therefore \) means that:
  - that will be 740 day
  - With the overall cost of 518000

- However to add 100 review days in the static tests and another 20 of code inspection will end with the cost of 2100000

- And still we have saved at least 3080000 (440 days)
- Means that we were able to reduce 4.5% of the project time
Definition of Process

• A set of interrelated activities, which transform inputs into outputs, to achieve a given purpose.
Process Control
Process Levels and Dimensions

Architected and Improved Process

- Objectives
- Structured
- Monitored / Measured
- Effective / Efficient
- Process Interfaces and Integration in Lifecycle
- Prioritize and Balance Resource Utilization within Larger Context
Suggested Measures
Architected and Improved Process

- Process productivity
- Process resources utilization effectiveness
- Process resources utilization efficiency
- Meeting the process objectives
- Other processes interfaces efficiency
- Process related defects density
Process Levels and Dimensions

Operationally Optimized Process

- Known Capability and Stable
- Defined Ingredients
- Known Critical Elements
- Meeting Objectives
- Controlled Interfaces
- Responsive / Modifiable
- Resilience / “Agile”
- Relevant ‘What If’s Scenarios
- Accepted Tolerance / Freedom Boundaries
- Predictable Outcomes
Suggested Measures

Operationally Optimized Process

- Influence of Critical Elements on process output
- Process resources utilization
- ‘What If’s Scenarios
- Process elements capability
- Quantitative definition of process ingredients
Measuring Process Performance

Key Questions

• What is the current performance?
• Is this value "good"?
• Is it changing?
• How can I make the value “better”?

Candidate Attributes

• Definition (completeness, compatibility)
• Usage (compliance, consistency)
• Stability (repeatability, variability)
• Effectiveness (capability)
• Efficiency (productivity, affordability)
• Predictive Ability (accuracy, effects of tailoring and improvements)
## Some Examples

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<tr>
<th>Goal</th>
<th>Measure</th>
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<td>Completeness</td>
<td>The number of process elements added, changed, and deleted during tailoring.</td>
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<td>Number of discrepancy reports generated by Quality Assurance audits</td>
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<td>Stability (volatility)</td>
<td>The number of process elements changed within a specified time interval.</td>
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<td>Effectiveness</td>
<td>Product quality</td>
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<td>Effectiveness</td>
<td>Defect leakage to subsequent phases</td>
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<tr>
<td>Efficiency</td>
<td>Productivity (or production coefficient)</td>
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<td>Efficiency</td>
<td>Rework as a fraction of total effort</td>
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<td>Predictability</td>
<td>Probability distribution for an estimated quantity or related population statistics</td>
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Relationships for CoQ
Process Quality Audits and Progress Check Calibration

- As for today the organization is managing its programs as large and complex programs and need to comply with more than just one quality standards in many disciplines (e.g. HW, optics, software) and use large groups of internal and external assessors that perform implementation checks, progress checks, readiness reviews and formal appraisals.

- These assessment teams are typically composed from groups of very experienced and professional individuals that have the best knowledge in their professional domain but not necessarily on how to conduct an efficient and effective appraisal which provide meaningful results.

- The combination of the effort and expected resources increase the risks on qualification of auditors, domain knowledge, and calibration of results and findings effectiveness.
Main Steps for Process Improvement

- During our analysis and planning, we were able to identify improvement targets in **main lifecycle areas** such as
  - operations,
  - information,
  - governance,
  - people
  - organizational structure,
  - portfolios,
  - project execution,
  - finance.
- And as in core processes that are **critical to the system** success such as stakeholder management, technical interfaces and integration.
Quality Audits and Progress Check Calibration

- By measuring the following attributes, we were able to increase usability of the process and progress checks by 47%, and quality of deliverables by 37%
  - Role based profile and criteria
  - Calibration mechanism and criteria
  - Evaluation mechanism and criteria
  - Leveling the different quality engineers and ‘auditors’
  - Flowing specific trainings (on different levels) as personal development and qualification criteria
  - Listing specific performances as indicators for leveling justifications
  - Structuring the different audits and reporting guidelines in a single mandatory to follow process,
Process

Project Idea and Proposal Preposition Development

The Need Statement → Project Office Preposition → Project Team → System Development and Acquisition → System Validation

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Defects by Type

- Cancelled: 9%
- Testing: 18%
- Documents: 28%
- STD: 42%
- External Data: 3%
Managed Process for Innovation

Strategize

Define Program Strategy
Prioritize Program Strategy

Capture

Capture Idea
Enterprise Search
Publish Idea to Portal

Formulate

Develop Feasibility Case
- Strategic Impact
- System Potential
- Financials
- SWOT

Evaluate

PMO Reviews Idea
Run Portfolio Analysis
Approval

Define

Build Project Team

Select

Execute Project
- Design
- Operational Potential
- Legal Evaluation

Deliver

Customer Feedback
Finalize Design Document
Approval

Publish Operational Case

Community Ratings and Reviews
Case Study
## Case Study

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The Normal Distribution should be used when observations tend to accumulate around a particular value rather than spread evenly across a range of values.
The Exponential distribution should be used when the probability of observations decreases in time.
Project Idea and Proposal Preposition

Development

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- Defect that are the result of documentation are 69% of all defects

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Process
Quality Audits and Progress Check Calibration

Data

- Interviews
- Doc Review
- Instruments
- Presentations

Notes

- Ratings
- Findings
- Observations
Questions ?
Case Study #1
Business Objectives
Development and Quantitative Targets
Management
The Challenge

- We have vision and business strategy
- We are focused on financial results that we can report on P&L
- Why we need other ‘business’ quantitative objectives and targets
- What are the benefits for the system and program managers
- How we do it
'Cheshire Puss,' she began, … `Would you tell me, please, which way I ought to go from here?’ `That depends a good deal on where you want to get to,' said the Cat.

'I don't much care where –’ said Alice. 'Then it doesn't matter which way you go,' said the Cat. ' - so long as I get somewhere,' Alice added as an explanation. 'Oh, you're sure to do that,' said the Cat, 'if you only walk long enough.'

Tell me where you want to be and I will show (measure) you the way.
And

“When people consult me, it’s not that I am reading the future; I am guessing at the future. … How do I guess at the future? Based on the omens of the present. The secret is here in the present. If you pay attention to the present, you can improve upon it. And, if you improve on the present, what comes later will also be better”

The Alchemist – Paulo Coelho
The Solution We Chose

Strategic Policy Deployment (SPD)
Strategic Policy Deployment

- Combination of:
  - Clear & Aligned Priorities
  - Behavior Changes
  - Change in Thinking (PDCA)
  - Elimination of Waste

...to achieve Business Results
Snap Look to The Tool
Strategic Policy Deployment

- A process to *focus* upon Goals, that cut across the corporation
- *Aligns & links* resources & action in pursuit of those Goals.
- Enables progress towards the Goals to be *measured*
- Enables rapid *root cause corrective action* if results vary from goals
- Drives *process* improvement
- Individuals & teams get *clarity* on their impact upon the Goals
- It becomes the yearly implementation of our long term strategic planning process.
Policy Deployment as a Tool

Policy Deployment is an effective tool to use for answering the following questions:

- How do we identify our critical goals?
- How do we develop plans and align our activities?
- How do we communicate our goals and activities level by level?
- How do we align the abundant talent of our team members on the critical few?
- How do we sustain our activities?
- How do we quickly change course when required?
- How do we learn from our experience?
Magnitude of Change

- Behavior Change
  - Discipline
  - Emphasis on *how* the organization will deliver the priorities
  - Catchball to understand the priorities and the means to deliver them
  - Gemba – look for evidence the plan is proceeding and in control
- Clear and Aligned Priorities
  - Start with top management priorities and link/translate at every level
  - Critical few metrics match Excel commitments
  - Must deselect
Use policy deployment to remove the big boulders one at a time.

Your Destination (Vision)

Your Start Point (Present situation)

The 'road' is typically strewn with obstacles (boulders), some are large, some are small.

Use continuous improvement to remove the small obstacles on an ongoing basis.

Keep improvement efforts focused on the 'road' not out here!

Use policy deployment to remove the big boulders one at a time.
Strategic Policy Deployment Process

Step 1
Choose the Focus

Step 2
Align the Organization

Step 3
Implement the Plan

Step 4
Review and Improve

Operational Focus

Strategic Focus

Act | Plan
---|---
Check | Do

frequently
Catchball

- Process to build consensus through dialog about the goals and how to achieve them.
  Two way communication that arrives at a collective wisdom on the priorities and the plans to deliver the results.

- Leader needs to have a vision of what is needed and how it may be achieved.
  - Team will provide input on the specific how.
  - The leader will confirm the plan:
    - Push the team to stretch further if the plan comes short of what he had in mind.
    - Question and develop understanding of the plan if the plan exceeds what he had in mind.
Targets

All priorities require a target so they can be measured.

Targets have to be achievable, challenging, based on reliable data, and **SMART**.

- **S** - specific
- **M** - measurable
- **A** - agreed
- **R** - realistic
- **T** - timed
The DO Phase

- Stay *focused* on the *plan*.
- Make *execution* of the plan as visual as possible.
- *Review* the plan on a regular basis.
  - Look at metrics daily/weekly
  - Formal reviews monthly
    - results vs. expected, as well as the *countermeasure* to fill the gap
- Ask *why* if the team is doing things that are not in the plan.
- Question frequently by *going to see*.
  - Schedule the time to look for evidence that the plan is proceeding and in control.
The CHECK Phase

Holding reviews maintains the discipline of the process:

- Confirm progress of current activities to expectations.
- Confirm the results to target. Look for trends.
- Evaluate the plan and results.
- Be visual.
- Hold timely, regular reviews daily/weekly/monthly, dependent on level.
  - Look at metrics daily/weekly
  - Hold formal reviews monthly
  - results vs. expected, countermeasures to close any gaps

Reviews should be disciplined and structured.

A mini PDCA cycle takes place everyday as activities are checked constantly.
The CHECK Phase

- Counter measures are data driven looking at root cause.
- Check if previously identified counter measures are working and on track.
- Don’t react to noise.
- Escalate issues that can not be resolved to the next level.
The CHECK Meeting

The manager runs the review meeting.

The manager should focus on standard work:

- Metrics Chart
- Action Plan
- Corrective Action for RED Items
- Key Items at Risk

- Asking clarifying questions during the review process.
- Making sure that each person knows what is expected of them to move forward.
- Confirmation check - will this plan get us there?
- Follow up at Gemba before the next review for key issues.
Check Questions

Policy Deployment – Questions to Ask

1. Do you have a plan?
2. Does the plan close the gaps to the goal?
3. Is the plan being executed on time?
4. Is the plan generating the expected business results?

If the answer is no for any of these, generate a countermeasure

Monitor effectiveness of countermeasure
Look for trends – not just red/green

- Metrics chart gives an overall view if on track
- Use graphs and charts to see what is really happening.
The ACT Phase

If off track:

- Review the plan and countermeasures to confirm that gap from the plan can be closed.
  - Is the plan itself valid or does it need to be modified?
- Follow up to determine if actions on the countermeasures have been done.
- Go to GEMBA to check to see if progress is being made on critical issues

If on track

- Lock in the condition with standardized work

Confirmation Check

- Does the plan and countermeasures link to the goal/vision?
- Does it seem reasonable?
How We Did It
The strategy document has 53 quotes the leading us to an optional list of Business Objectives and Quantitative Targets.
Business Objectives

- Supporting professional and personal service on competitive terms
- Flexible adjustments to changing market conditions at the lowest possible cost and a satisfactory time-to-market
- Keep its leading position
- Group’s systems must be capable of handling growth in the Group’s business, organically as well as through mergers and acquisitions
Business Objectives

- Prioritizes resources and projects based on cost-benefit considerations
- Manages the actual development process
- Systems must be designed for group-wide deployment
- Systems and functionality are reused across products, distribution channels, brands and markets
- Systems must optimize cross-organisational processes and make it possible to combine parts of the Group’s products into new products
Business Objectives

• By reusing system elements, even across different technical platforms, significant efficiencies are gained in the development of systems

• Integrate third party systems into the whole system complex, regardless of the technical deployment platform

• Minimize the costs associated with the integration of applications and tools across systems and platforms

• Limited but adequate set of market leading technologies are used as standard tools
Business Objectives

- SyDLC and TCO must be implemented in such a way that the integrity of the business cannot be compromised.
- Level of security and operations must be high and financially sound.
- Systems and platforms must have a high quality level, protecting the Group against errors, downtime, security breaches and data loss.
- Quality level must correspond with risks, consequences and not least the expectations of the customers.
Business Objectives

- Systems must adhere to the agreed service levels and be delivered with the agreed functionality.
- Simple and accessible user interfaces, adapted to the user’s role or the customer’s needs.
- Access is given to the necessary functionality and information from the underlying business system based on consolidated data.
- Systems must constantly support the chosen set of distribution channels and user interfaces, enabling the Group to meet the customer at any given point.
Business Objectives

• Knowledge about the customers and their behavior must be gathered in a structured way on each customer interaction, and related to the Group’s products
• Integrated and customer-facing sales and advisory system ensures that products and services can be developed and deployed across business units, customer segments and distribution channels
• Reduce the Group’s costs by optimizing the whole value chain
Business Objectives

- Costs associated with the rationalisation of processes must be minimal, enabling economically feasible automation of even small business processes.
- Business procedures must be implemented direct as supported processes, guiding employees and customers through the activities with as little prior knowledge as possible, letting them concentrate on the products and actual business.
- Enables conversion of manual activities into automatic sequences without changing the basic design of the underlying processes.
Business Objectives

- Combine activities efficiently and flexibly across distribution channels, partners, brands and markets, wherever this is desirable from a business point of view.
- Systems must support the processes which gather, organize, share and analyse the entire knowledge platform that exists about customers, products, business initiatives, organization, employees, etc.
- Information must be available at any time and anywhere to those it is meant for.
- Group’s management processes and pricing, they must be based on consolidated and sufficiently current data.
Business Objectives

- Increase flexibility gradually without compromising on efficiency and stability
- Diversity is handled systematically and efficiently by using an infrastructure, which efficiently integrates systems, processes and manual activities across platforms and technologies
- Infrastructure is provided to developers, freeing them from having to program integration and flexibility into each system
- Use of market leading standards
- Design of system elements focusing on flexibility
Business Objectives

- System elements must be designed to scale in line with business growth and expansion
- System elements must be capable of handling unexpected events
- Ensure that systems can continue normal operations with the least impact on the business
- Business continuity during normal operating conditions as well as in disaster-like situations
- Systems design must if possible take into account the changeability of externally controlled data and processes
- Readiness for change by implementing changes for the entire group
Business Objectives

- Resources can thus be reused in any other project or area in the Group in a simple and efficient way, thereby ensuring consolidation of both data and functionality.

- It must be possible to combine scattered IT resources into complete systems, applications and actual business processes.

- Infrastructure must handle the coupling dynamically and parameterized.

- Selection of coupling method must not be based on a technology choice made by the developers.
Business Objectives

- Infrastructure and development methods must as a minimum support a layering of systems into user interfaces, business logic and data
- Service levels must if possible be based on dynamic and flexible policies, which are directly definable in the operational environment
- Infrastructure must efficiently handle error detection and quality control of complete system
- Infrastructure must efficiently support the integration
- Architecture is an essential parameter when choosing a third-party system
Business Objectives

- Program management must ensure consistency across manual and system-supported processes, by enabling any given process to involve both manual and automated work items.
- Infrastructure must provide simple and efficient methods for supporting business procedures, processes and routines.
Specify Measures
Manage Measures
Questions ?
Contact

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