LEAN Project Management Avoid Waste

Presented by Louisette Bizier, PMP, Lean Six Sigma Black Belt, CBBP



fmi#igf

Consulting & Solutions Inc.

Professional Development Week 2019

Right resources. Reliable results.

Objectives

- Identify methodologies involved when planning a transformation project
- Identify the sources of waste during project management
- Integrate change management and project management

Session Outline

- Principles of LEAN project management: 30 minutes
- Exercises on "waste": 30 minutes
- Change management: 30 minutes

Project Management Processes



Project Management Controls



 4.1.3Embedding within the project and programme framework an approach to project gating*

* Directive on the Management of Projects and Programmes, TBS April 2019

LEAN Process Transformation: DMAIC



LEAN Project Management -Transformation projects



money (cost of transformation) What are the risks?

LEAN Obsession: eliminate waste



 DOWNTIME: Defects, Overproduction, Waiting, Not used talent, Transportation, Inventory excess, Motion waste, Excess processing

Eliminate Waste in Project Management Processes



- Both value and waste are created during the project lifecycle
- Scope
 - Value (quality) : what the client wants
 - Waste (scope creep): what the client would not agree to pay for
- Cost resources
 - Identifying "only" required resources
- Time
 - Identifying "only" required activities





Unused Talent



- Identify required/available competencies
- Expert carrying out administrative tasks
- Administrative/repetitive tasks that could be automated
- Meetings with many participants
- Strategy Push vs Pull
 - Officers assigned to only specific tasks (dispatching)



Over production (Scope)



Deliverables

- Verify required features with Client and communicate requirements to expert
- Integrate quality control activities

Management documents

- Avoid complex templates to fill for "traversing" a gate
- Avoid complex templates to justify change requests
- Leverage project plan to produce progress reports



Excess Motion (Time)



During execution, monitor task switching



Searching for, Information, People (contact list), Facilities (conference rooms), Equipment (computer, boards, stationary, etc)



Over processing (Time)



Excessive Tasks

- Avoid too many controls
 - system approval and manual approval;
 - going up the entire hierarchy,
 - committees
- Avoid reviewing documents excessively (format, terminology, phrasing, punctuation, etc). Produce to "good enough"
- Record same information in many places
- Reconcile information recorded in many places



Transportation



- Needlessly moving people for meetings
- Moving digital documents around instead of sending links
- Printing hardcopy documents



Waiting



During initial planning, reduce slack time During execution, manage risks. Mitigate to avoid waiting for:

- Approvals
- Contracts to be awarded
- Security
- Information, explanations to be available
- Equipment, facilities



Excess Inventory (Cost)



Too many documents, emails, goods, data, etc. During project execution, organize all project documents as they become available, provide standards and guidelines:

- Classification and document versions:
- Software to use
- Data to capture in systems



Defects (Cost)



Deliverables

- Wrong resource assigned to the task
- Insufficient quality control tasks

Management documents

- Overly optimistic project plan
- Wrong assumptions
- Capturing bad/wrong data during monitoring
- Producing inaccurate progress reports from optimistic/insufficient data

Exercise

 Apply Lean principles to improve project management



• Identify the type of waste in each situation

Situations 1-5

Situations		** **	Q.F.	-			1	
	Wait	Excess Movement	Excess Inventory	Over process	Over produce	Defect	Trans port	Unused Talent
 The project charter does not specify any constraints or assumptions 								
2. Meeting minutes relay all the discussions that took place during the meeting								
3. Clients must fill a change request form to request a change and they can't find the template. They ask their colleagues for help.								
4. Progress reports relate all events that happened since the last report								
5. Every email between the project authority and the project manager is kept in a file								

Solutions 1-5

Situations		** *	Ĩ.	a (*				
	Wait	Excess Movement	Excess Inventory	Over process	Over produce	Defect	Trans port	Unused Talent
1. The project charter does not specify any constraints or assumptions		Movement	intentory	process	produce	~	pore	Tucht
2. Meeting minutes relay all the discussions that took place during the meeting					~			
3. Clients must fill a change request form to request a change and they can't find the template. They ask their colleagues for help.		~						
4. Progress reports relate all events that happened since the last report					~			
5. Every email between the project authority and the project manager is kept in a file			~					

Situations 6-10

Situations		** **	Q.F	—			1	
	Wait	Excess Movement	Excess Inventory	Over process	Over produce	Defect	Trans port	Unused Talent
 Deck for senior management has 30 pages 								
7. The invoices are recorded in the financial system and on the project log								
8. A contract is printed, signed, scanned and sent to the supplier for signature								
9. A resource has not obtained his/her security clearance to start work as planned								
10. Project manager searches for all the timesheets and invoices submitted so far								1

Solutions 6-10

Situations			Ĩ.	-			1	
	Wait	Excess	Excess	Over	Over	Defect	Trans	Unused
 Deck for senior management has pages 		Movement	Inventory	process	produce		port	Talent
7. The invoices are recorded in the financial system and on the project log		~						
8. A contract is printed, signed, scanned and sent to the supplier for signature		~					~	
9. A resource has not obtained his/her security clearance to start work as planned	~							
10. Project manager searches for all the timesheets and invoices submitted so far		~						

Situations 11-15

Situations		** **	Ŵ.	- F			1	
	Wait	Excess Movement	Excess Inventory	Over process	Over produce	Defect	Trans port	Unused Talent
11. A bilingual person is tasked to translate all communication material				P.000				
12. The project manager modifies the project plan when the timesheets are submitted								
13. All project deliverables are submitted to the Committee for approval								
14. There are many versions of the project plan								
15. Project Manager's schedule is mobilized by a series of meetings								

Solutions 11-15

Situations	<i>i</i>		R.	i			*	
	Wait	Excess	Excess	Over	Over	Defect	Trans	Unused
11. A bilingual person is tasked to translate all communication material		Movement	Inventory	process	produce		port	Talent
12. The project manager modifies the project plan when the timesheets are submitted						~		
13. All project deliverables are submitted to the Committee for approval	~			~				
14. There are many versions of the project plan			~					
15. Project Manager's schedule is mobilized by a series of meetings		~						



Change management focused on individual - ADKAR

- Awareness: all staff must be aware of waste situations
- Desire: What are the incentives to avoid waste and consequence to do/not do so
- **Knowledge**: Training, coaching, information
- Ability: capacity and authority to eliminate waste
- **Reinforcement**: sustainability of the initiative through KPIs

A missing step in ADKAR = Failed change



Waste during Change Management



- Awareness: Stakeholder engagement
 - Unused Talent: stakeholders communicate to others
- **Desire:** Gap analysis
 - Defect: wrong criteria to analyze gaps
 - Overproduction: too much analysis use a baseline
- Knowledge: SoPs, Training, coaching
 - Unused Talent: peer to peer training, coaching
 - Excess Motion: Just-in-time online training
 - Excess Inventory: theoretical, useless training material
- **Ability:** capacity and authority to eliminate waste
 - Unused talent: limit change initiation to management levels
- **Reinforcement:** sustainability of the initiative through KPIs
 - Waiting: Updating Job description, KPIs
 - Overprocessing: too many KPIs

Integrated Methodologies



- Project Management
- Product Development
- Change Management

Conclusion



Successful Project Management conditions

- Multidisciplinary endeavour
- Project Manager must have a good understanding of how all the pieces fit together
- Project Manager specialized in the Product Development Methodology
- Combined with LEAN will produce
 - Quality result
 - On time
 - On budget