Achieving Astronomical Gains in Information Flow

QUEST to the Moon!

Anusha Dixit



Alex Leipold



Neehar Peri



Uday Warier



Emma Wilkins



Background



Short-Term #1

Short-term #2

Long-term

Risk Mitigation

Financial Considerations

2 Impact





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Feb

Mar

Apr

May



Recommendations: Hypothesis Testing

- 3 surveys, 2 wireframes, 1 pilot
- Presentation to Engineering Steering Committee

- Recommendations: Implementation

 Presentation to leadership with final recommendations and implementation plan

Reduce Inventory Waste

Update Documentation with Visuals Maintain Lessons Learned Over Time

> Optimize Production Objectives

Opportunities for Improvement

Streamline Handoff Process

Prioritize Deviations Queue

Involve all Stakeholders in Planning

Differentiate Job Requirements Establish Instant Communication Platform

5



Feb

Mar

Apr

May



 Presentation to leadership with final recommendations and implementation plan







Feb

Mar

Apr

May



Second Site Visit: Hypothesis Confirming

13 interviews with 11 stakeholder groups

groups

Recommendations: Hypothesis Testing

- 3 surveys, 2 wireframes, 1 pilot
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Recommendations: Implementation

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Short-Term Recommendation #1

Background

Short-Term #1

Short-term #2

Long-term

Risk Mitigation

Financial Considerations

Impact

Kickoff Meetings





Current State



Kickoff meetings do not include all stakeholders and lack a unified structure

Meeting Agenda Template



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CUSTOMER Requirements

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RESPONSIBILITIES OF Stakeholders

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PROJECT TIMELINE

Î	June 2020 XXX
ł	July 2020 XXX
ł	August 2020 XXX
ł	September 2020

XXX



Ideal State

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Engage all stakeholders at start of program



Improved planning and scheduling



Short-Term Recommendation #2

Background

Short-Term #1

Short-term <u>#2</u>

- -

Long-term

Risk Mitigation

Financial Considerations

Impact

Roles and Responsibilities





Current State

- Employee roles are fluid over a project
- 2 Personnel changes lead to confusion

Complex processes lead to bottlenecks in identifying roles and responsibilities

Roles and Responsibilities

	Role A	Role B
Deliverable #1	R	С
Deliverable #2	A	
Deliverable #3	С	A
Deliverable #4	1	R
Responsible		
Accountable		
Consulted		
Informed		



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Maintain record of dynamic roles and responsibilities through RACI Matrix





70% believe kickoff meetings would generate **"a great deal" of value**

60% believe the role definition process is "somewhat effective"

Could "give downstream stakeholders advance warning of a need for resources"





Short-Term #1

1 Short-term #2

Long-term

Risk Mitigation

Financial Considerations

Impact

Knowledge Management

Current State

How did we use that piece of machinery 3 years ago?

Ideal State

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How did we design that part in the last project we had with this client?

Use a Knowledge Management System to capture key decision points and lessons learned

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Text and video-based knowledge management system (KMS)

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Ease of upload

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Ask A Question

Type something...

Text and video-based knowledge management system (KMS)

Shelly F. 8/25/2020

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Ease of modification



Recent Video Views:



Project B Relevant Videos:



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Text and video-based knowledge management system (KMS)



Validation



79% are aware of the current text-based lessons learned repository

63% indicated that they don't regularly use this repository

"This system **would be great** because the current system(s) have information everywhere and it's difficult to find what you're truly looking for"

Original Process Flow





Improved Process Flow







Feb

Mar

Apr

May



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Recommendations disrupt current process flow



Severity

Likelihood



Recommendations disrupt current process flow



Severity



KMS encounters scalability issues

Modular implementation through pilot



Recommendations disrupt current process flow



Severity





Background

Short-Term #1

Short-ter<u>m #2</u>

Long-term

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Financial Considerations

Impact

Financial Considerations







Background

Short-Term #1

Short-term #2

Long-term

Risk Mitigation

Financial Considerations

Impact

-



Benefits

Increase Productivity Capture Employee Knowledge Facilitate Continuous Improvement









Thank you!



Appendix


Appendix A: Video-based KMS





Recent Video Views:













Project A: Using Machine 6 for Process B Mark B. B/27/2020





Machine 1 Relevant Videos:























Videos by Arthur M:







Project B: Using Machine 6 for Process B Arthur M. 8/19/2020

38



Recent Video Views:













Project A: Using Machine 6 for Process B Mark B. B/27/2020





Machine 1 Relevant Videos:





















Videos by Arthur M:













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Appendix B: Text-based KMS

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Appendix C: KMS Pilot





Name	Date	Customer Requirement	Description of Problem	Description of Solution
Example Project Engineer #1	4/2/20	Impulse vs. Volume	Customer requests material X with an impulse of Y within certain volume Z	Used material A instead, achieved maximum impulse possible within volume constraint



Appendix D: Cost-Benefit

Key Assumptions



Cost of Body Camera	\$315 (including body strap attachment)
Number of Buildings Using Cameras	28
Hours for Command Media Update	80
KMS Development Costs	\$36,000 (200 hours at Engineering exempt rate)
Yearly Maintenance Costs	\$63,000 (annual budget for engineering software)
Hours to Develop Training Resources	40
Number of Stakeholders Trained	79 (ME, PE, PM) in first month; 124 in seventh month



Appendix E: Process Flow

Initial Process Flow Chart



OUEST HONORS PROGRAM

NORTHROP GRUMMAN

Final Process Flow Chart



OUEST HONORS PROGRAM

NORTHROP GRUMMAN

Journey Map





Roles & Responsibilities

	Project	Configuration	Project
	Manager	Management	Engineers
Product Specification			
Documents	R	А	1
Design Analysis Results	Α		C,I
Tooling Design Process			
Release	С	А	C,I
Model/Drawing Release	С	Α	R

Responsible for completing that step in the process Accountable for ensuring that step is completed Consulted prior to the completion of that step Informed of the results once that step is completed **Identified Deviations**

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1 Modifications of customer requirements

2 Changes in team personnel

Recommendation



Financial Opportunity





Net Present Value of Recommendations



Payback period



Graph to come



IRR



Status Presentation 2

QUEST to the Moon



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Status Presentation 2

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Survey Insights



Kickoff Meetings

64%

indicated that kickoff meetings would generate "a great deal" of value 86% n = 14 are aware of the current text-based repository

KMS

71%

don't regularly use it

Journey Map



- Pick a stakeholder (i.e PE) and go through a hypothetical project
 - Start of a new project- attends kickoff meeting
 - Updates role and responsibilities
 - Receives customer requirements and drafts initial design
 - Runs into problem, uses KMS to solve it, updates KMS with lessons learned
 - Personnel change with other PE's- delegates responsibilities differently based on roles change
 - Ending state attained much faster as a result of recommendations (happy project engineer)



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Focusing on **improving information flow** at Elkton, MD site

Primary sources of disruption are process deviations and manufacturing deviations

Aim to streamline information flow and **minimize** any gaps

Knowledge Management

Current State

Current lessons learned repository lacks widespread use.

Our Recommendation

Text and video-based knowledge management system (KMS)



Ease of upload



Ease of modification

Ease of searchability

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Video-Based

Text-Based



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Project B: Using Machine 5 for Process C Larry G. 9/1/2020

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Process C

Machine 2

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Video-Based KMS



Text-Based KMS



Kickoff Meetings



Current State

Kickoff meetings do not include all stakeholders and lack a unified structure

Our Recommendation



Engage all stakeholders at start of program



Establish program norms and expectations



Improved planning and scheduling



- Date, time, location of meeting
- Overall info about contract (PM considerations)
- Relevant stakeholders
 - Responsibilities for each stakeholder
 - Timeline of responsibilities
- Overall project timeline/requirements
 - Deadline for each step
- List of customer requirements
- SMEs for each area (refer back to KMS)

2 Roles & Responsibilities

Current State

Costly delays from deviations in roles & responsibilities due to:

- **1** Modifications of customer requirements
- 2 Changes in team personnel

Our Recommendation



Dynamic roles and responsibilities documented through RACI Matrix

Risk Mitigation

- 1. Recommendations are major changes that may disrupt current process flow in unanticipated ways
 - a. Likelihood: Low, Severity: High
- 2. Employees may not use KMS to the extent that they need to
 - a. Likelihood: Medium, Severity: Low
- 3. KMS might not scale to all stakeholders
 - a. Likelihood: Low/Medium Severity: Medium

- 1. Recommendations built as lean as possible to correspond with current flow
- 2. Mitigation- KMS built into other recommendations, implementation of KMS will be in currently used system
- 3. Modular implementation of KMS with pilot, so NG can see what works for which stakeholders

