Plan to Perform: BIM 360 Field Execution Guide to Improving Project Quality

Laurie Spitler – Customer Engagement Specialist

Laura Talbot – Customer Engagement Specialist



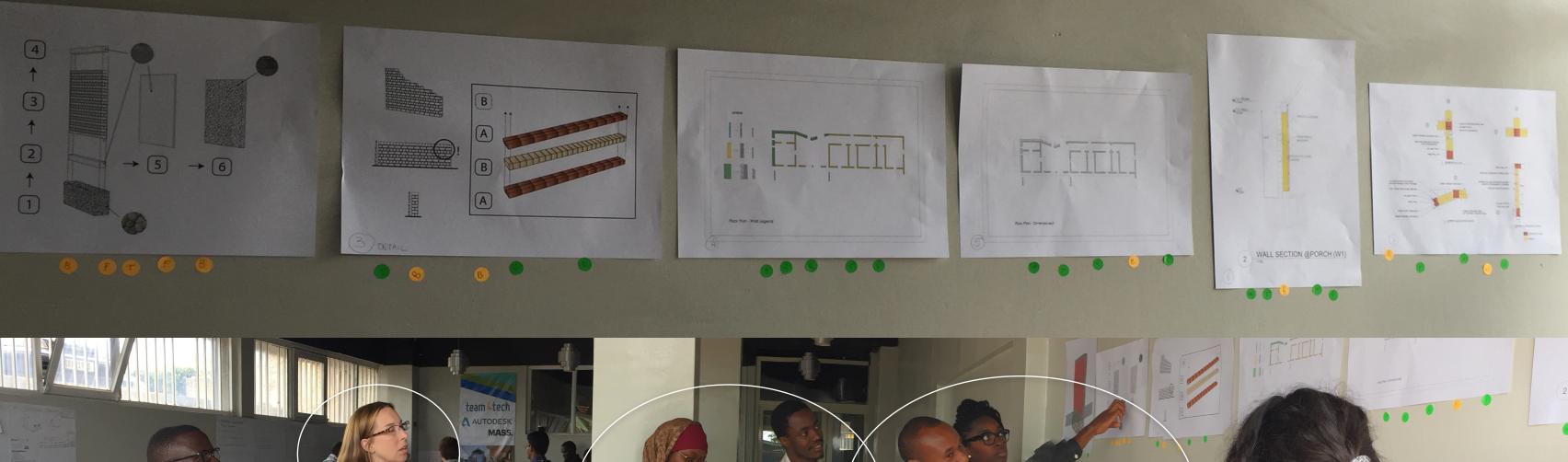


Key learning objectives

At the end of this class, you will be able to:

- Learn how to use the BIM 360 Field Execution Plan to focus and define team goals
- Understand the value of process mapping in setting workflows
- Understand how to create a training program specific to team goals
- Understand how to use reporting tools to measure success against goals







Builders Architect Students Autodesk

Technology will not "save" construction.

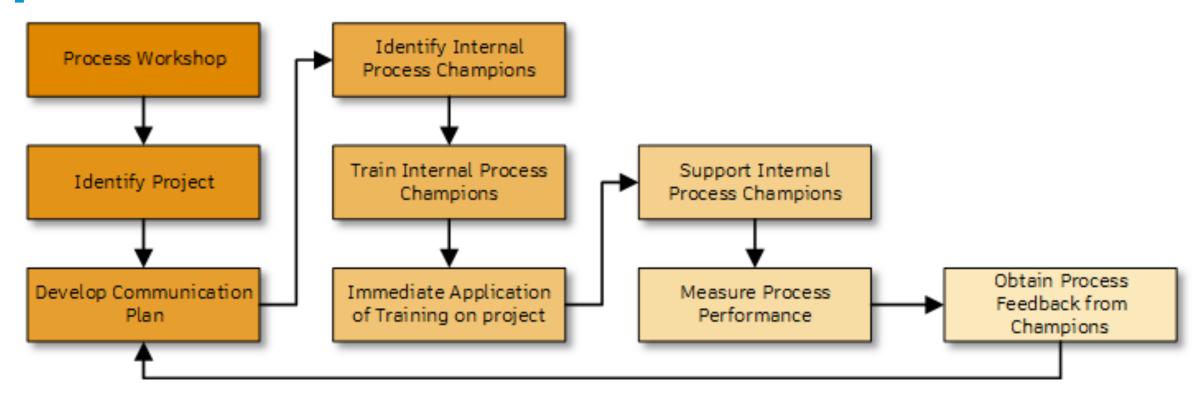
We need to be talking about communication.

How might we use technology to facilitate communication?





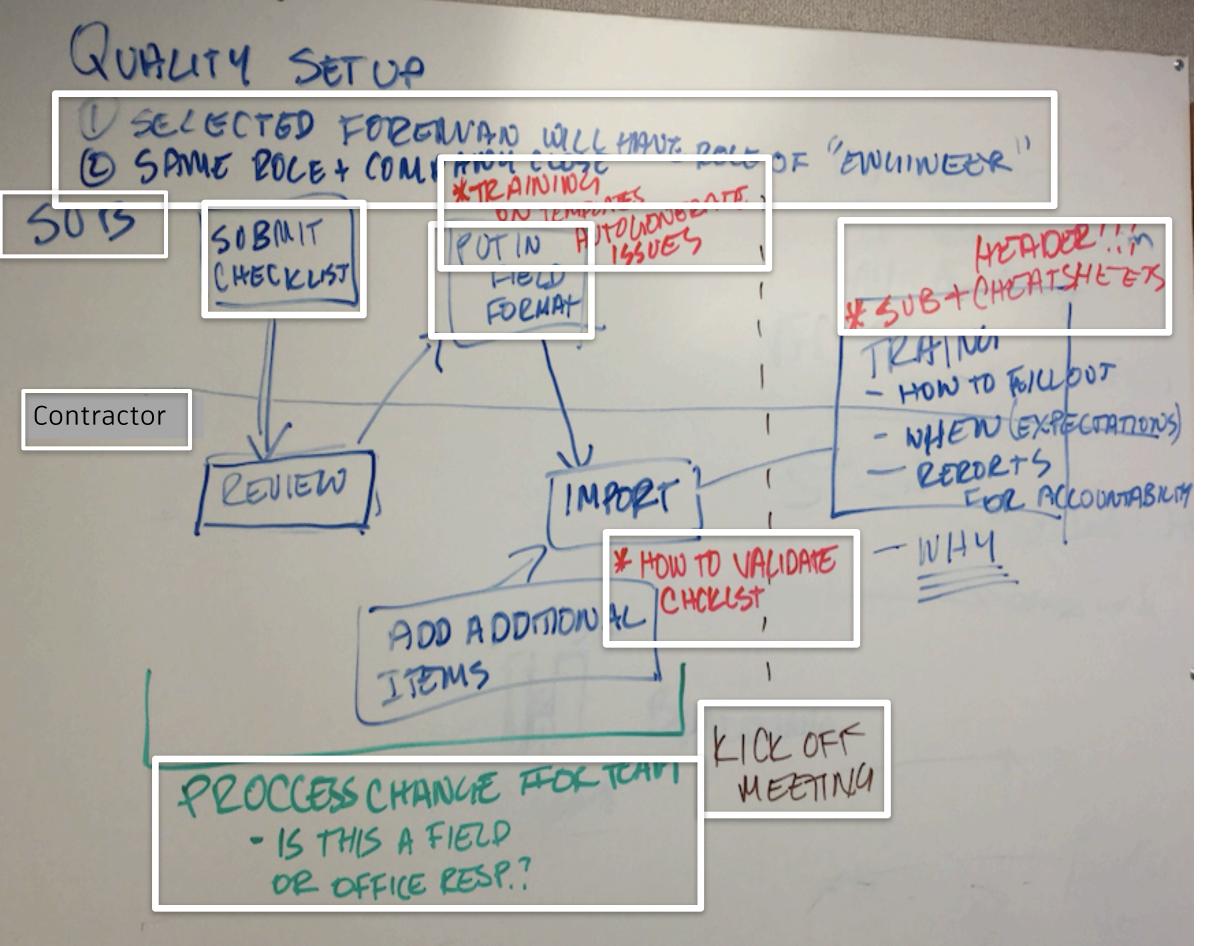
Adoption Process



Field Adoption Team:

- Champions Team
 - Executive Sponsor
 - PM/ Engineer/Superintendent with experience
 - People responsible for set up/training
- BIM360 Site
 - Field Lead
 - Office Lead





In one Process Mapping exercise, we have identified:

- 1. Ground rules
- 2. Roles
- 3. Deliverables
- 4. Milestones
- 5. Training needs
- 6. Process changes



[Company Name] FIELD EXECUTION PLAN



BIM 360° Field is field management software which provides a centralized database which will be used to track issues, checklists, tasks, and documents for the duration of the project. BIM 360™ Field is accessible via desktop and iPad app.

1. WORKFLOW	2. WHY THESE WORKFLOWS ARE IMPORTANT
	WHY THESE WORKPLOWS ARE IMPORTANT TO THIS PROJECT
QAQC	If we understand which areas and trades have quality issues, we can systematically address issues and ensure schedule is not affected.
BBUT TRIOKING	Inform subcontractors of issues everyday, update progress. This will allow us to track the status of issues at all times, prioritize ortical issues and work for the day efficiently.
TRACKET	Collaborate with architect and team to manage punchilat process efficiently with the goal of zero open issues at building turnover.
BAPETY	Track noof causes of common safety issues on site to allow the development of targeted training programs to mitigate future risks. Track safety audits for record.
DALY SITE OBSETVATIONS	
COMMISSIONING	

3. HOW WE USE FIELD TO ACHIEVE THESE WORKFLOWS							
CHECKLES	BELOW.	3488	EQUIPMENT	DATES	LIBRARY	PHOTOS	SUPORTS

	CONTRO	NUMBACCESS	TO DATA	тнарцант	FILTERS AND	ROLES					
	4.	ROLES INVO	CVEDI	N EACH V	WORKFLO	w	5. OUR I	PLAN FOR T	RAINING OU	IR TEAM	6. METRICS
erra.	Contractor	Subcontractor	Owner	Architect	Engineer	Inspector	TRAINING 1	TRAINING 2	TRAINING 3	TRANING 4	TYPE
											MELET PER MONTH
											THE TO CLOSE SELVES
											08JES PER 19ADE
											ANNLYSIS

KEY PROJECT CONTACTS					
NAME	COMPANY	PHONE	EVAL		

Five keys to project success:

- 1. Set expectations using the Field Ex Plan
- 2. Set up Location Breakdown Structure
- 3. Set up Roles and Access
- 4. Train Team!
- 5. Use Scheduled Reports



EXPECTED SKILL SETS					
CONTRACTOR - OFFICE STAFF	Set up project Manage document library Instate issues, checkdists Monitor resolution of open items Report on open items and specific workflows	Initiate issues and checkfists Review open items for completion Use document library for references.			
CONTRACTOR - FIELD STAFF	Run reports on field issues	Initiate issues and checklists Review open items for completion Use document library for references Eleasti??? Mark up photos:???			
SUBCONTRACTOR	Rue reports on field issues	Update assigned tasks Complete tasks			
OWNER	- Run reports on field issues	- Initiate issues			
ARCHITECT	- Run reports on field issues	Pritate issues and checklists Update issue lists			
ENGINEER	- Rus reports on field issues	Initiate issues and checklists Update issue lists			
NSPECTOR					

TRAINING PLAN DETAIL

TRAINING 1 - Project set up Timing: Prior to construction start Participants: GC Office Staff

- Complete Field Execution Plan
- Determine location Breakdown Structure Identify Custom Properties, Filters and Checklists.
- Populate Library

TRAINING 2 - Field introduction Participants: All Roles

- Review Field Workflows on Project. Set participation expectations.
- Conduct Desktop and Tablet Training

TRAINING 3 - Field Continuation Participants: GC, Subs, Architect

- Review process to date. What is working? What is not?
- Review advanced field workflows.

TRAINING 4 - Punchlist

Participants: GC, Subs, Architect, owner

- Review punchlist workflows
- Review project hand over requirements



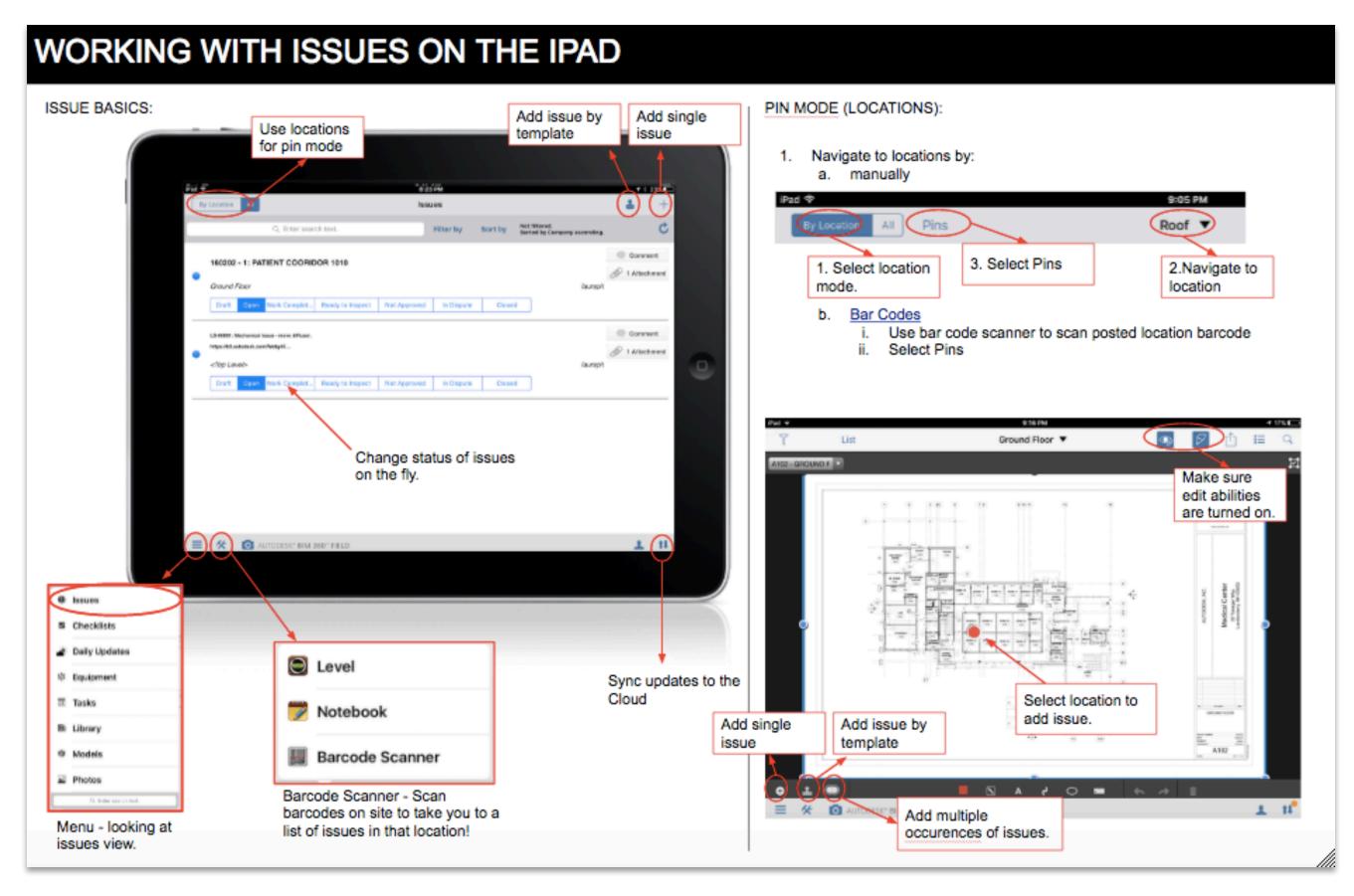


Requirements:

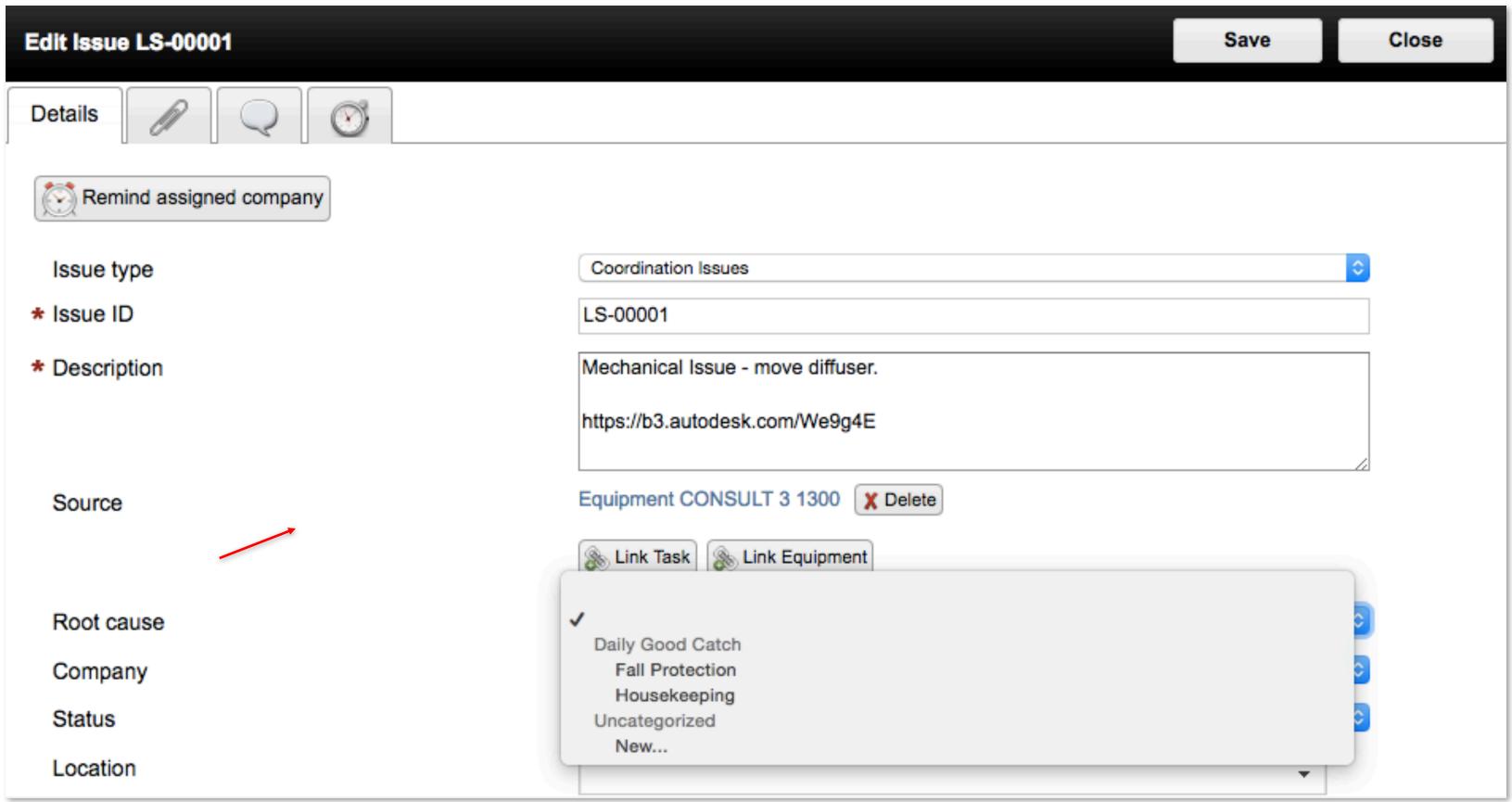
- Use Equipment to group all checklist and issues to rooms
- Barcodes for easy navigation
- Standard checklists for each room
- Issue templates for easy adding of issues
- Had to be able to report out
- Issue type work flow:





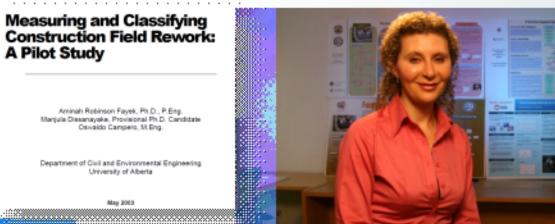


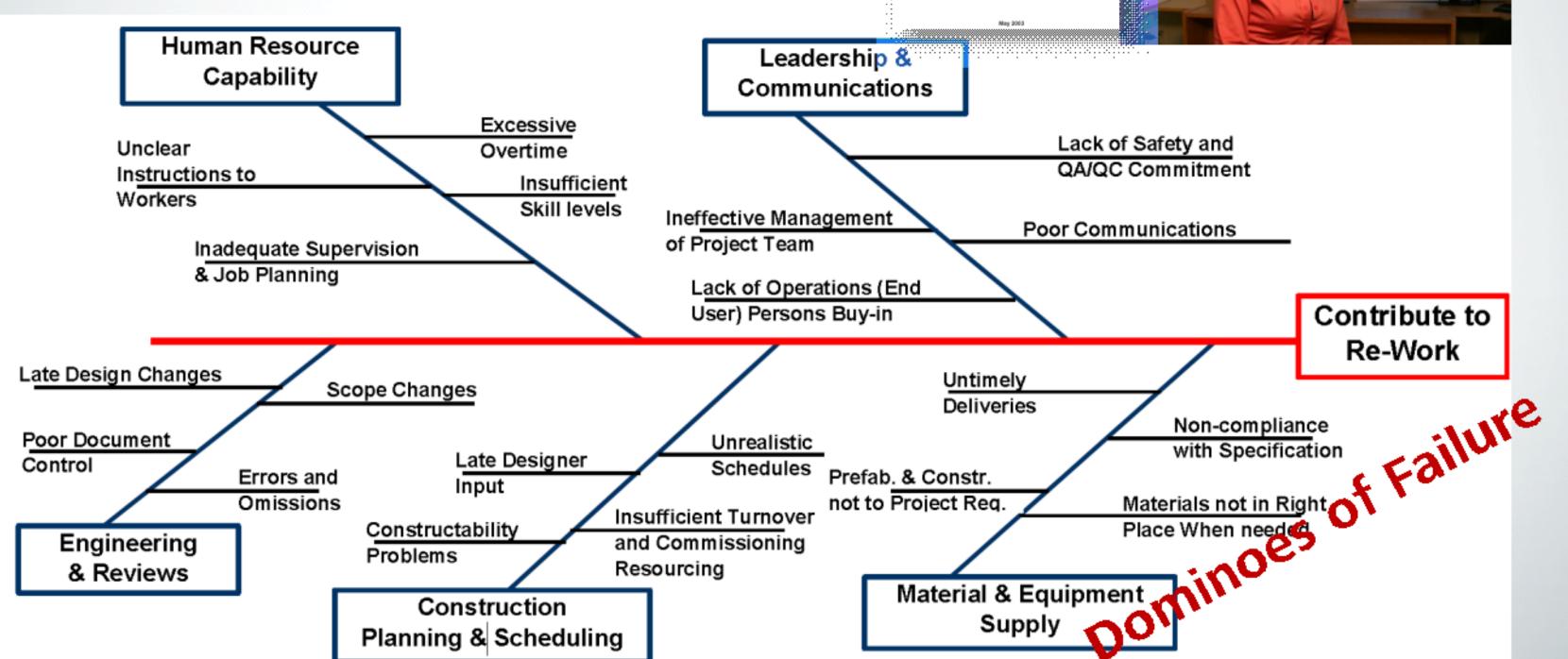






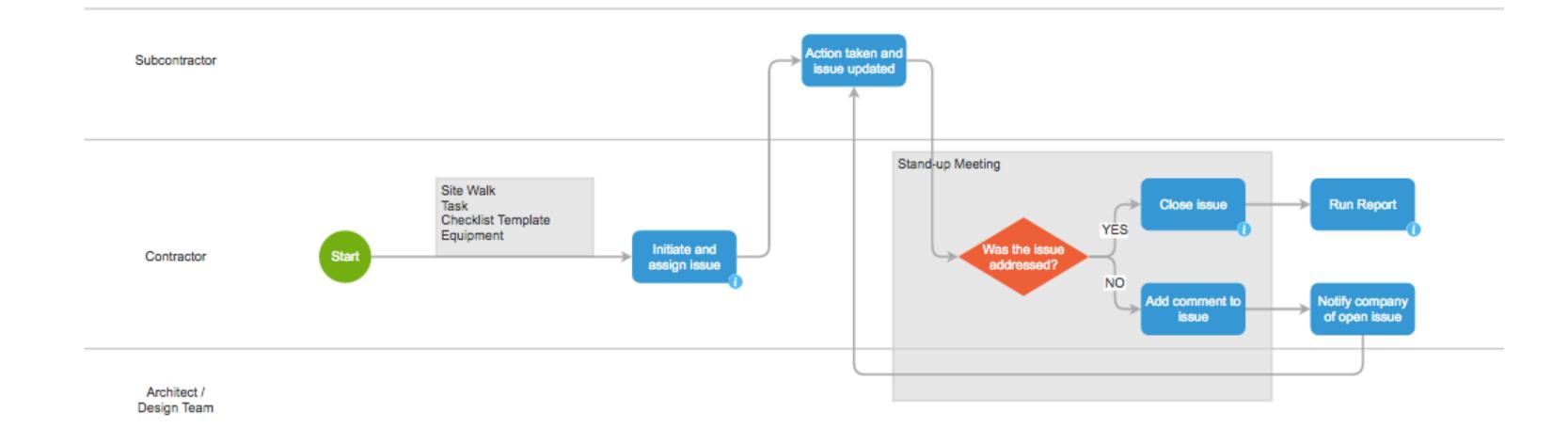
Fishbone Rework Cause Diagram





Issue Tracking

Issue Tracking

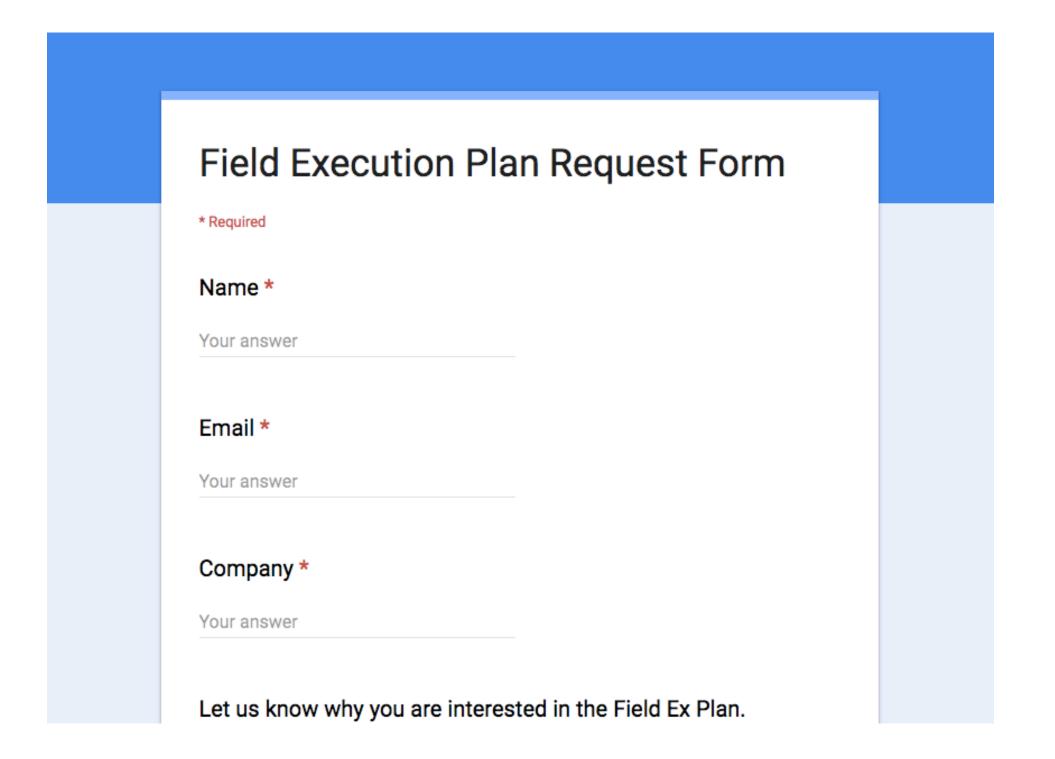


Owner





Request Field Ex





Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical errors that may appear in this document. © 2016 Autodesk, Inc. All rights reserved.

© 2016 Autodesk. All rights reserved.