

• 0 0

2021 Guide to EHS Software Success: From Idea to Reality

A 7 Minute Read

Contents

A Winning 7-step
Approach to EHS
Software Success

Define the Problem
Requirements Matter
Build a Business Case
Define the Decision Makers
Make it a Party
Change Happens
Be SMART
Communicate, Communicate,
Communicate

2021 EHS
GUIDE TO
SUCCESS



2021 Guide to EHS Software Success

DIGITIZING YOUR EHS
PROCESSES ALLOWS YOU
TO STREAMLINE HOW YOU
WORK, IMPROVE
PRODUCTIVITY, SAVE
MONEY AND MAKE BETTER
DECISIONS BASED ON REALTIME REPORTING

Follow A Winning Approach



From Idea to Reality

• ° PROJECTS FAIL

YOUR PROJECT DOESN'T HAVE TO

OF IT PROJECTS FAIL
COMPLETELY

OF PROJECTS

EXPERIENCED SCOPE

CREEP

Source: Project Management Institute

ACCORDING TO JOHN KOTTER, AN AUTHOR, THOUGHT LEADER AND HARVARD PROFESSOR THERE ARE 7 REASONS WHY EFFORTS FAIL

- 1. Not establishing a great enough sense of urgency
- 2. Not creating a powerful enough leadership coalition
- 3. Lacking a vision
- 4. Lack of communications
- 5. Not removing obstacles
- 6. Not planning for and creating short-term wins
- 7. Declaring victory too soon
- 8. Not reinforcing the new behaviors and processes

2021 Guide to EHS Software Success



Don't Repeat the Mistakes of Others

WE'VE LEVERAGED THE LESSONS LEARNED BY JOHN KOTTER AND LAYERED IN THE THOUSANDS OF SUCCESSES WE'VE HAD AT MOBILEFRAME TO CREATE A WINNING **FORMULA FOR ORGANIZATIONS TO** TAKE THEIR EHS IDEAS **EROM CONCEPT TO** REALITY





LESSON 1: DEFINE THE PROBLEM



"IF I HAD AN HOUR TO SOLVE A PROBLEM, I'D SPEND 55 MINUTES THINKING ABOUT THE PROBLEM AND 5 MINUTES THINKING ABOUT SOLUTIONS."

- ALBERT EINSTEIN





DEFINE THE PROBLEM

MOTIVATE

Develop a problem statement that motivates your organization to action

ILLUSTRATE

Illustrate what the desired process will look like

DOCUMENT

Document your pain points

PAINT A PICTURE

Paint a picture of what happens if you continue with the current process



Sample Problem Statement

Clearly articulating your problem statement is the first step in building awareness and understanding of the challenges you are facing

Problem Statement Guideline	Example Response	
Describe how your EHS solution should work regardless of existing constraints.	Employees will use EHS software on their phones or tablets to document and report on the "who, what, when, where & why" of any incident. The solution will track details through the completion of the incident management process. Management will use real-time data to prevent, predict, and reduce worker injury and claims. The safety team will generate OSHA-ready reports for work-related injuries & illnesses with the click of a button.	
Clearly define the problem. The reader should be able to understand the pain and frustration quickly.	We don't have trusted data about our incidents to make the proper recommendations and changes. Our paper-based process is difficult to manage and is a time-consuming process. It can take weeks to collect the completed forms, ensure the data is accurate, and update our business systems. The information is often incorrect, and important data is usually missing. The safety team constantly follows up on actions, searching for information, and spending hours creating reports.	
Explain the financial ramifications of the project. Identify the costs associated with using paper forms and spreadsheets. The information shared here supports your business case.	Automating or digitizing the data collection process associated with incident rates provides us the opportunity to: Send everyone home safe and reduce OSHA recordable incident rates to 0.5 or lower. Reduce worker comp expenses and worker downtime. Be more cost-effective by reducing rework by at least 20%. Save all employee, craft, and administrative personnel at least 1.5 hours per month spent doing paperwork.	
Propose a solution. Be as clear and concise as possible.	We propose that we undergo a digital transformation to eliminate our outdated, manual processes. We want to standardize a single solution for all of our EHS needs to avoid point solution chaos. The software must be customizable to our needs and our policies.	
Explain why the solution is a good idea.	EHS software will help keep our employees, facilities, and the environment protected. We will streamline and automate our workflow, policies & procedures to increase bottom-line performance.	
Summarize both the problem and the solution.	We need to switch from paper-based processes to a software solution that runs on mobile devices to manage our incident rates quickly and responsibly. Our goal is to use technology to help us prevent, predict and reduce work injury claims.	



LESSON 2: REQUIREMENTS MATTER



"AGILE DEVELOPMENT WORKS 99% OF THE TIME WHEN THE BUSINESS KNOWS AND CAN CLEARLY ARTICULATE THEIR REQUIREMENTS."

- GLENN WICKMAN, MOBILEFRAME CTO



000

DEFINE YOUR REQUIREMENTS

ENGAGE

Engage your stakeholders early in the process

DOCUMENT

Document stakeholder requirements

PRIORITIZE

Prioritize requirements based on stakeholder needs and organizational pain points

BE COMPREHENSIVE

Define strategic, functional, and technical requirements



Strategic Requirements

Define strategic requirements by engaging the various department leaders that will have a vested interest in your program

Strategic Requirement	Description
Scalability	 The solution must have a flexible server architecture that accommodates growth, handles complex load balancing, disaster recovery, and includes server management tools.
Time to Implement	Ability to implement as quickly as possible with minimal dependency on IT resources.
Learning	Ability to evolve with the way people learn and communicate.
Culture	 Provide employees with apps that are compatible with the way they work.
Platform	 Standardize on a single platform across the entire company for any app and any department.
Workflow / Logic	Ability to use logic and workflow with no limitations. A code-free approach is required.
Reporting	Ability to deliver real-time reporting dashboards across any device with trusted EHS data.



Functional Requirements

Gather detailed user needs to define the supporting business case and kick-start technical requirements

Functional Requirement	Requirement Description	
Paperless Capture of Observations	 Ability to capture observations on any mobile device (all information will be paperless, including any notes or pictures that may be required) 	
Ease of App Changes / Configuration	Ability for a business person with no coding experience to design, develop and deploy apps without IT	
Observer Feedback & Improvement Suggestions	Ability to provide feedback for improvement through the app	
Reporting: Scoring Capabilities	Ability to generate reporting according to any hierarchy with supporting scoring capabilities	
Deployment of App Changes	Ability to deploy any changes to an app in real-time with no manual intervention required by the user	
Photo Capture & Annotation	Ability to capture photos, including additional information such as GPS coordinates, timestamps, annotations, etc.	
Language Capabilities	Ability to generate workflow, forms, etc., in the desired language (e.g., Spanish, German, Korean, etc.)	
Workflow/ Business Rules	Ability to design and configure complex workflows and logic	
User Experience	Easy to use, intuitive and responsive	
Management Reporting	 Ability to create custom database queries without vendor or IT support Ability to create web dashboards without writing code Real-time data capture and reporting 	
Messaging	Real-time messaging built into the app	
Signature Capture	Capture approvers signature as required in the workflow	
UI	 Ability to brand the app in a department or organizational style Ability to customize the UI 	
Offline Capabilities	Works in disconnected mode	



Technical Requirements

Define technical requirements to ensure the proposed solution fits into your tech stack with minimal effort

Technical Requirements	Requirement Description	
Integration	 Integrate to any enterprise system or database, including ERP, CRM, and legacy systems Must be able to integrate with Active Directory or LDAP 	
Security	Ability to meet company security requirements	
Operating System Agnostic	Cross-platform support is required without the need to maintain separate code bases. Support must include iOS, Android, Windows, and the web	
App Updates	Ability to push updates on demand. No manual intervention required by the user	
Batching	Ability to create batch jobs to be run on any frequency required	
Version Control	Ability to show the history of app changes Ability to rollback to previous versions if required	
Vendor Updates / Releases	Ability to sync new versions of software remotely without recalling devices for updates	
Connectivity	Offline, disconnected use is required so users can always be effective even without connectivity	
Remote Device Management	 Control devices remotely so administrators can reset handheld databases, log off users, trigger sync, view device statistics, set rule-based actions, and restrict app usage 	
On-Premise vs. Cloud	Software must be flexible enough to be deployed on-premise or in the cloud	
Architectural Fit	Fits into the current company IT architecture	
Lifecycle Development	 Offers complete lifecycle capabilities that allow users to design, develop, integrate, deploy and manage multi-channel apps with a single solution Provides mobile app development tools, a graphical screen designer for perfecting UI, an integration wizard, a built-in test environment (with integrated diagnostics and debugging) to simulate a live deployment, and mobile device management capabilities that support both BYOD and enterprise-owned mobility programs 	



Requirements Example: Inspections

Inspection Questions	YES	NO
Does the EHS solution support workflow to take corrective actions?		
Can you set alerts?		
Are you able to provide real-time reporting?		
Does the way data is captured reinforce the system is using trusted data?		
Are you able to make changes to the solution in real-time and immediately deploy to the field?		
Does the solution allow users to work both on and off-line?		
Are you able to capture GPS coordinates automatically?		
Are you able to take pictures and make annotations?		
Are you able to create a variety of inspections?		
Are you able to track actions associated with the inspection?		
Does reporting support OSHA and other regulatory reporting agency requirements?		



LESSON 3: BUILD A BUSINESS CASE



"WITHOUT A
BUSINESS CASE,
HOW CAN WE MAKE
DECISIONS AND
TAKE ACTION?"

- UNKNOWN



• 0 0

BUILD A BUSINESS CASE

QUANTIFY

Quanitfy the need for your EHS solution

FOCUS

Focus on what matters most such as productivity gains & ability to make real-time decisions based on trusted data

COSTS & BENEFITS

Cleary identify the costs and benefits associated with the proposed EHS solution

ASSUMPTIONS

Document the assumptions behind the business case & the associated owners



Business Case

Build a business case using trusted data that is meaningful and articulates the business value associated to your EHS mobile efforts

Common Business Benefits	Sample Metrics	
Cost Savings / Expense Reduction	 Annual savings in insurance premiums of X Savings of \$X total FTE expense 	
Productivity Increase	 X hours per week saved because there is no need to follow- up for missing or incomplete information, missing forms, etc. 	
Data Integrity	 Increase in data accuracy from X% to Y% Real-time capture and reporting of data 	
Management Reporting	 Reporting will allow a management team to analyze root causes Data will be trusted and provided in real-time 	
Employee Satisfaction	 HR policies and procedures are followed, treating employees fairly and consistently Office staff required to "follow-up" on insufficient data can now spend time on higher value items 	

Assumption	Owner (Person who is signing off on the assumption)
The project will be implemented globally and fully rolled out in 3 months or less	
XYZ Insurance company premiums will be reduced by as a result of going paperless	
There are X users	
The average amount of administrative time saved by automating paper processes is	
The data entry time is approximately per week	



LESSON 4: DEFINE THE DECISION MAKING CRITERIA



"YOU CANNOT MAKE PROGRESS WITHOUT MAKING DECISIONS."

- JIM ROHN



• 0 0

DEFINE DECISION MAKING CRITERIA

DEFINE THE PROCESS

Don't make the decision-making process personal; define the criteria and process first

GAIN CONSENSUS

Share the decision-making criteria with key stakeholders to get and include their feedback at the start of the process

STICK TO THE CRITERIA

Focus decision-making sessions on the agreed-upon decision-making criteria

COMMUNICATE

Share the decision-making process with your organization to support adoption



Decision Making Criteria

Define the criteria you will be using to make a decision on the "best fit mobile solution and app".

Share the decision-making criteria with key stakeholders at the beginning of your project.

Questions	Commentary
Does the solution meet your core strategic requirements?	
Does the solution meet your core functional requirements?	
Does the solution meet your core technical requirements?	
Is the solution an overall fit with your organization?	
What are customers saying about the solution? The good, the bad, and the ugly?	
What training is available?	
Is the solution a "mobile-first" design?	
Does the solution "KISS"?	
What is the Total Cost of Ownership (TCO)?	
Other Questions?	



LESSON 5: MAKE IT A PARTY



"THE KEY TO USER ADOPTION IS MAKING NEW WAYS OF DOING THINGS EASIER THAN THE OLD WAYS."

- LONNY OSWALT, MOBILEFRAME CEO



• 0 0

CLEAR ROLES & RESPONSIBILITES

INVITE KEY STAKEHOLDERS

Include all parties at the beginning of the process to achieve buy-in and get the right resources allocated to your project

MINIMIZE SURPRISES

Engaging key stakeholders at the beginning will minimize surprises, increase engagement levels, define better needs/requirements, capture concerns & potential roadblocks & improve communications

KNOW YOUR ROLES

A RACI stands for Responsible,
Accountable, Consulted & Informed
--know who is responsible for what



Roles & Roles & Responsibilities

Define clear roles and responsibilities

RACI	Role(s)	Responsibilities
Responsible	The people who do the work and provide the data for the decision-making process. In a mobility effort, typical responsibilities are:	 Conducts the analysis required to validate requirements Functional Technical Strategic Builds the business case Obtains positive confirmation of supporting assumptions Participate in demos Identify & engage all stakeholders Define selection criteria
Accountable	There can be only one—the sole person who approves a decision. A decision can be multifaceted, requiring multiple choices made by different people; however, it is not a consensus.	 Approves the selection criteria Approves the budget Approves the final recommended solution Allocates resources
Consulted	The individuals who are typically subject matter experts or the people impacted by the decisions. This role may influence but does not have a part in the final decision-making process.	 Consulted in identifying requirements Functional Technical Strategic Validates assumptions
Informed	The individuals doing the work that is changed. In a mobility effort, those that need to be informed do not play a role in the mobility selection process. A representative "user group" may be involved to build buy-in.	 Typical groups informed are: Non-Participating Leadership Team Users Managers of Users



LESSON 6: CHANGE HAPPENS

"IT IS NOT NECESSARY TO CHANGE. SURVIVAL IS NOT MANDATORY."

- W. EDWARDS DEMING



• 0 0

CHANGE HAPPENS: BE PREPARED

BE PREPARED

As we all know, change happens, whether we want it to or not. Be prepared to adapt to new user needs, market changes, etc.

FLEXIBILITY

Ensure your EHS solution is able to meet the ever-changing demands of your business and most importantly your customers

PRIORITIZE & MEASURE

Not every change request requires a change; ensure you have a change control process that prioritizes changes based on predefined requirements



Change Checklist

Capturing and acting on user feedback is needed to support user adoption and optimization of the EHS app

Questions	Answers
Can the user community quickly provide feedback on the app?	
Can a user easily submit a change request?	
Are the parties responsible for the app participating in a clearly defined process on what changes can and can't be made?	
Is an impact assessment being done for each change requested?	
Is there a clearly defined approval process for making changes to the app?	
Is the person kept updated on their change suggestions?	
How are users being kept updated regarding changes made to the app?	
Is there a reporting process in place to reinforce the value and the use of the app?	

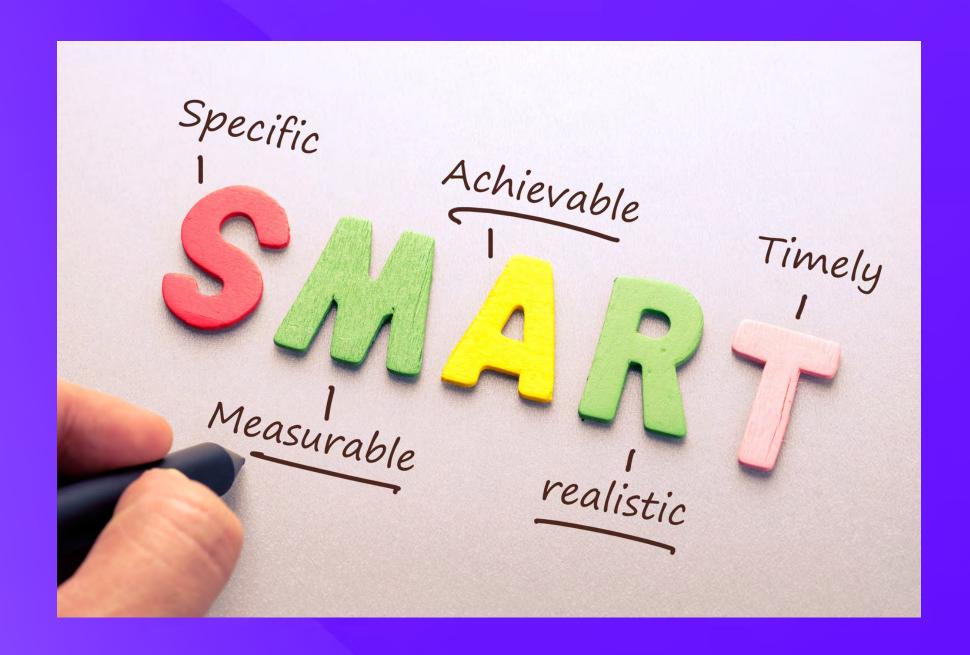


LESSON 7: BESMART



"WHAT GETS MEASURED GETS MANAGED."

- WILLIAM THOMSON, LORD KELVIN



• 0 0

SET SMART GOALS

DEFINE SUCCESS

Paint a picture of what success looks like that allows everyone in the organization to go in the same direction

KNOW THE TIMELINE

Time is money, manage against the timeline -- make the tough decisions to keep your project on track

PRIORITIZE

Be clear by defining what tasks are required to be completed & when

FOCUS RESOURCES

Keep resources laser focused on the tasks at hand

• 0 0

SMART Goal Template

Setting Specific, Measurable, Actionable, Relevant, and Timely goals clearly defines actions required and expected results

SMART Element	Success Criteria	Paperless SMART Example
Specific	Is the expected result defined in sufficient detail?	Identify and automate all paper processes associated with incident reporting by replacing paper forms with customized
Measurable	Is the objective measurable so that both progress and success have metrics reported using trusted data?	apps to meet our specific business requirements. Data collected in the apps must be integrated into back-end systems and provide real-time reporting. Additionally, the apps must be able to provide access to
Achievable	 Is the objective challenging yet realistic? Can it be accomplished with the resources immediately available? 	real-time data to the user. The 87 people who use paper forms today for incident reporting-related data capture will use apps within two weeks from the start of the project.
Relevant	Will the objective make a difference in today's business environment? Will it reflect the realities of our business today?	Automating these paper processes will save 150 hours per week associated with capturing, tracking, and entering data from the paper forms.
Timely	Is the goal specific, and does it have a realistic timeframe?	Real-time data analysis will allow for specific actions to be taken that will result in an immediate 10% reduction in incidents.



LESSON 8: COMMUNICATE, COMMUNICATE,

"COMMUNICATE FOR UNDERSTANDING AND BUY-IN. MAKE SURE AS MANY OTHERS AS POSSIBLE UNDERSTAND THE VISION & STRATEGY."

-JOHN KOTTER





COMMUNICATE

SEGMENT

Segment your audiences & communicate what's important to them

QUICK HIT WINS

Set your EHS project up for success and identify quick wins you can communicate to show momentum

BE CONSISTENT

Set up a communication schedule and stick to it, even when you think you have nothing to say

NO ONE OVER COMMUNICATES

People want information, there is no such thing as over-communicating





Contact Us

IF YOU'RE LOOKING FOR A COST-EFFECTIVE, EASY-TO-USE EHS SOFTWARE SOLUTION THAT GETS YOU THE ROI YOU WANT, WE CAN HELP

MAILING ADDRESS

101 Blossom Hill Rd Los Gatos, CA 95032

EMAIL ADDRESS

Sales@MobileFrame.com

PHONE NUMBER

(408) 885-1200