



# Building a Cost Effective Portfolio Management System...Yes You Can!

**Presented By:**

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**Jet Propulsion Laboratory,  
California Institute of Technology**

**NASA PM Challenge  
February 22, 2012**



# We are JPL's OCIO



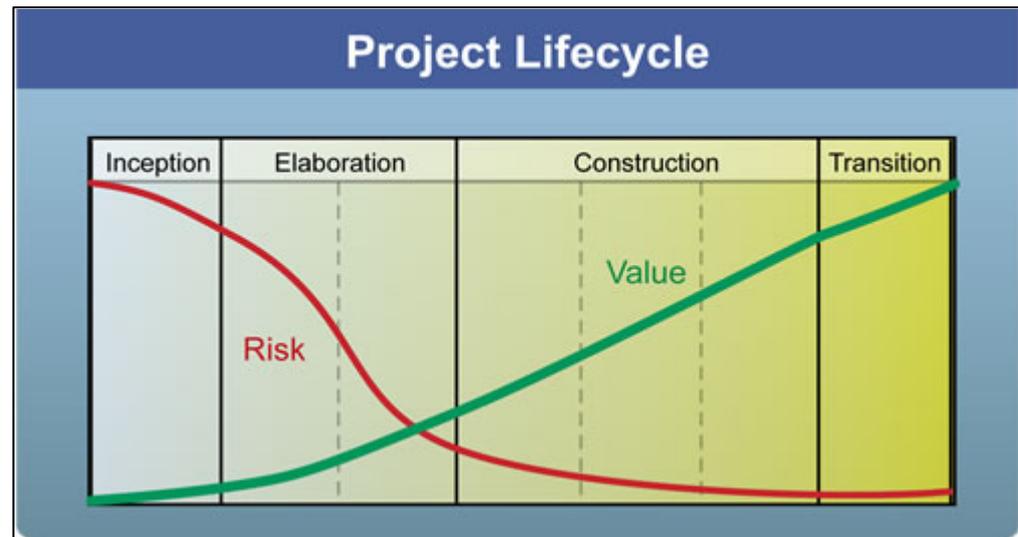


**In today's IT world, tracking multiple projects of varying sizes, complexity, and schedules is a big challenge**





**As Project Managers, you need to track and coordinate multiple project lifecycles from Inception to Rollout**



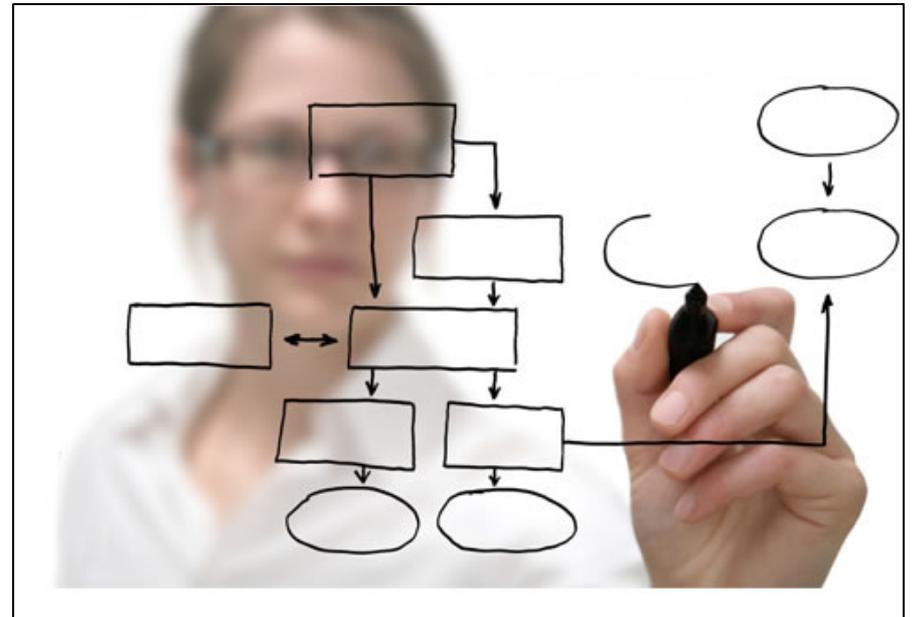


**Managing a Project portfolio using paper-based or manual methods is inefficient**





# Automating a Project Portfolio streamlines lifecycle processes





## Key Points

**OCIO needed  
visibility into all  
IT projects**



**Implementing  
BuildIT has kept  
Projects on  
track**



**We've only just  
begun**





# **OCIO needed visibility into all IT Projects**

**Are projects on  
time?**

**How many IT  
projects are  
going on  
right now?**

**What is the true  
cost for project  
deliveries?**

**How can we  
help?**



**“Before we had BuildIT, it was almost impossible to know the status of all of the projects we were working on. A week after BuildIT went Live, we knew we had 35 active projects and we knew which ones needed help.”**



**-Michael Stefanini, JUMP Process Owner,  
Section Manager of IT Project Management  
and Application Development**



**A Standard Process was Established**



# OCIO Process Derived from RUP and tailored to JPL Needs



## Inception

- Project Vision & Scope
- Major Features
- High Level Budget & Schedule

## Elaboration

- Software Requirements & Business Processes
- Project Plan

## Construction

- Implementation Plan
- Training Development
- Test Plans

## Transition

- Lessons Learned
- Deployment Configuration



# Phase Reviews Provide the Mechanism to Control the Process



**Checklists and Artifacts  
are Completed**



**Commitment from  
responsible team  
members and interfaces**



**Align projects with the  
organization's directive  
and enforce policies**



# Scorecards Provide Objective Approval and Commitment

Scorecards are what count!



## Elaboration Review



Reviewer Name \_\_\_\_\_ Project Title \_\_\_\_\_ Review Date \_\_\_\_\_

*\*An Evaluation of a "1" or "2" requires specific directions in the Notes field*

### 5 – Domain Architect

5 – Domain Architect	Evaluation *	Waived	Notes
<b>Questions to Answer</b>			
5.1. The <b>Project Plan</b> documents Implementation, Support, Operations, High-level Solution Architecture, Solutions, Justifications, Schedules, Budgets, and Risks that I intend to support. <i>Required</i>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/>	
5.2. The <b>System Requirements Document (SRD)</b> describes functional and non-functional testable requirements that are thoroughly and clearly defined. <i>Required</i>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/>	
5.3. The <b>CASB Checklist for Architecture Approval of IT Projects</b> has been completed, including both Inception Phase and Elaboration Phase criteria. <i>Required</i>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/>	
5.4. A <b>High-level Solution Architecture</b> has been provided. <i>Required</i>	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/>	
5.5. Related possible <b>Architecture Concepts Reuse</b> has been presented and the Project is leveraging existing architectures and/or applications to the extent feasible.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A	<input type="checkbox"/>	
5.6. The <b>Architecture</b> is traceable to requirements.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A	<input type="checkbox"/>	
5.7. The solution selected and the <b>Architectures</b> that will be used are good choices and will enable us to meet the sponsor's goals.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A	<input type="checkbox"/>	
5.8. The solution selected and the <b>Technologies</b> that will be used are good choices and will enable us to meet the sponsor's goals.	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> N/A	<input type="checkbox"/>	
5.9. Do you recommend this Project go through a Delta Review	<input type="checkbox"/> Yes <input type="checkbox"/> No		

### Other Observations

5.10. Additional Comments: [Add any Additional Comments here](#)



build IT  
building IT solutions

**A Project Portfolio Management  
System was Born**



## BuildIT was Built on an Internal Platform Enabling Re-Use



Microsoft®  
**SharePoint®**



Microsoft®  
**InfoPath® 2010**



# Key Capabilities were Based on PMI & ITIL Recommendations





## **Project Managers and Team Members Speak the Same Language**

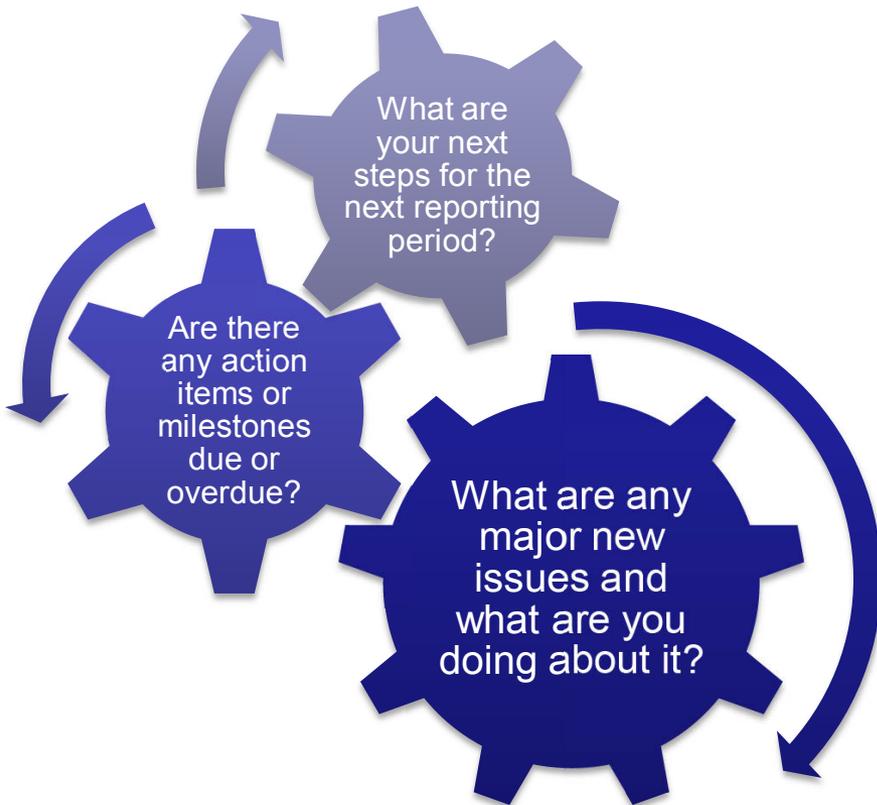
**Need to  
teach the  
vocabulary  
behind the  
process**

**Must  
practice  
effective  
Change  
Management**

**Standard  
terminology  
is used and  
artifacts are  
consistent**



# Project Action Reports: The Basic Data for BuildIT



POWERED BY OCTO **JUMP Projects**

Build-IT Application Development Site **Build-IT Home** Applications Blog Application Architecture Application

View All Site Content

**Metrics Page**

**Projects with Warnings**

Lists

- 172 Service Pipeline

Documents

Project Sites

Recycle Bin

Build-IT Application Development Site > JUMP Projects > JUMP Pages > not

**NEN Mobile App Platform**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-12-21 13:38:28

**PPM System**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-08-24 15:25:22

**Research Interdisciplinary Authorization**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-12-21 07:26:06

**Standard Mechanisms on the Site  
Organize & Track Project Status**



# Tracking Mechanisms Enable Weekly Status Reporting

**Variance**

What goals were not achieved? Has your plan been impacted? Did you achieve early successes? How is the actual project differing from the plan and what impact does that have?

**Get Well Plan**

How do you intend to deal with the variance? What is your plan to recover slippage? How will you deal with the consequences or benefits of the deviation?

**Next Steps?**



# Standard Project Sites Organize Project Artifacts

POWERED BY OCTO

**Research Interdivisional Authorization**

Research Interdivisional Authorization

View All Site Content

**Update Status**

**Documents**

- Project Documents
- JUMP Documentation

**Lists**

- Announcements
- Decision Database
- Issues
- JUMP Checklist
- Project Memberships
- RFAs
- Risks
- To-Do's

**Discussions**

- Email Archive

[Recycle Bin](#)

<b>Status Title</b>	TeamCenter Enterprise 4.0, 2007 Upgrade
<b>Technical Status</b>	Green
<b>Technical Status Text</b>	Transition Review was conducted on July 28. Project artifacts have been posted on JUMP project site.
	Team has transitioned to operational mode. Upgrade to TCE09 is under analysis and scheduled to start in FY12.
<b>Resource Status</b>	Green
<b>Resource Status Text</b>	Transition Review was conducted on July 28. Project artifacts have been posted on JUMP project site.
	Team has transitioned to operational mode. Upgrade to TCE09 is under analysis and scheduled to start in FY12.
<b>Schedule Status</b>	Green
<b>Schedule Status Text</b>	Transition Review was conducted on July 28. Project artifacts have been posted on JUMP project site.
	Team has transitioned to operational mode. Upgrade to TCE09 is under analysis and scheduled to start in FY12.
<b>Start Date</b>	11/3/2008
<b>Inception End Date</b>	1/23/2009
<b>Elaboration End Date</b>	4/2/2009
<b>Construction End Date</b>	3/31/2011
<b>Transition End Date</b>	5/23/2011
<b>Rollout Date</b>	5/6/2011
<b>Overall Project Status</b>	Green
<b>Near Term Goal</b>	Transition team from upgrade to normal operational mode.
<b>Current Delivery Status</b>	
<b>Variance</b>	
<b>Get Well Plan</b>	
<b>Next Steps?</b>	
<b>MMR Date</b>	12/9/2010
<b>Scope Status</b>	Green
<b>Scope Status Text</b>	Transition Review was conducted on July 28. Project artifacts have been posted on JUMP project site.
	Team has transitioned to operational mode. Upgrade to TCE09 is under analysis and scheduled to start in FY12.
<b>Description</b>	Transition Review was conducted on July 28. Project artifacts have been posted on JUMP project site.
	Team has transitioned to operational mode. Upgrade to TCE09 is under analysis and scheduled to start in FY12.

This Site: Research Interdivi

**15 Latest Documents**

Type	Name
Folder	SQA Documents
Folder	1-Inception Documents
Folder	2-Elaboration Documents
Folder	3-Construction Documents
Folder	4-Transition Documents
Folder	Budgets
Folder	MMR - Management Reviews and Presentations
Folder	Post-Review Materials
Folder	Schedules
Folder	Work Area

[Add new document](#)



# The Anatomy of BuildIT has Numerous Features that all Integrate Effectively

Tools are provided to gather ideas, brainstorm, document RFA's and meet checklist items

<b>Topic</b>	TCE ORR
<b>Review ID</b>	
<b>Submitted by</b>	Van Why, Richard W (1731)
<b>Submitter's Affiliation</b>	173
<b>Origination Date</b>	4/26/2011
<b>RFA Type</b>	Suggestion
<b>Slide/Reference</b>	Alert Notification
<b>Statement of Concern</b>	Alerts for Issues need to also go to 173 Bradley folks. Right now it only goes to PDMS. Also Re-evaluate monitoring. Is Net IQ enough?
<b>Recommended Action</b>	Figure out alert escalation process. Discuss with Jonathan Chiang and SA's. Make sure there are no deltas. Need to determine that the app level monitoring.
<b>Assigned To</b>	Tung, Lenny (172J)
<b>Due Date</b>	5/10/2011
<b>Disposition</b>	Submitted
<b>Disposition Rational / Response</b>	<p>PDMS Support Escalation process is as follows: Alerts are going out to both 173 and 172 SA's. On the 172 side, the PDMS411 distribution list will be utilized for the automated mass notification. The 172 SA's, David Tan on the front-end and Huyen Duong on the middle-tier and backend, will be the escalation owners. They will make the initial analysis and determination of the escalation path. If infrastructure assistance is needed, they will be in charge of notifying 173 Operation Lead, Josh Steinwald, who will act as the single point of contact for PDMS requests. If application assistance is needed, they will be in charge of notifying PDMS development - Bakul Lalla is the dev lead.</p> <p>The NetIQ basic monitoring has been turned on for PDMS production servers. More targeted monitoring will be engineered to expand the monitoring capabilities -- still under evaluation.</p>



# BuildIT Tools: Risk List

- Catalog and Track all identified project risks and mitigations.
- All standard risk information are tracked on the BuildIT Project site

JUMP > Risks > New Item

## Risks: New Item

OK Cancel

Attach File Spelling... \* indicates a required field

**What If \***

The Condition component focuses on what is currently causing concern; it must be something that is true or widely perceived to be true.

**Due To**

The Factors that need to be mitigated. This component provides information that is useful when determining how to mitigate a risk.

**Then \***

The Consequence(s) - What could go Wrong that would cause the project to not meet its goals? The consequence component focuses on the intermediate and long-term impact of the risk. There may be more than 1.

**Probability**

5  
 4  
 3  
 2  
 1

What is the chance of this occurring?  
1 - Almost Certain  
2 - Very Likely (> 70%)  
3 - Probable (30% <X< 70%)  
4 - Unlikely (< 30%)



## BuildIT Tools: Document Tracking

- **Track and Control Project Documentation**
- **Directory Structure consistent across all sites**
- **Integrates with Office Applications**
- **Full workflow and reporting capability**

Research Interdivisional Authorization > Project Documents

### Project Documents

JUMP Documents will be stored in this library.

New | Upload | Actions

Type	Name
	1-Inception Documents
	2-Elaboration Documents
	3-Construction Documents
	4-Transition Documents
	Budgets
	MMR - Management Reviews and Presentations
	Post-Review Materials
	Schedules
	SQA Documents
	Work Area



# BuildIT Tools: Technology Positions

## Technology Pos

Preliminary Listing of Technology Positions

ID	Technology
187	.NET Framework
23	Adobe Acrobat Professional
194	Apache AXIS
176	Apache HTTP Server
52	Asynchronous Javascript And XML (AJAX)
43	Cascading Style Sheets 2.X
179	ColdFusion
195	Eclipse
37	Flex
75	Flexnet
140	jQuery
114	Microsoft InfoPath
132	Microsoft Office Suite
127	Microsoft

<b>Technology</b>	.NET Framework
<b>POC</b>	Hahn, Darryl (1723)
<b>SME</b>	David Butler, John Chou, Evan Chan, Johnny Yu, Neal Patel, Alina Shahnazari
<b>Parent Tech.</b>	
<b>Description</b>	<p>The <b>Microsoft .NET Framework</b> is a software framework that can be installed on computers running Microsoft Windows operating systems. It includes a large library of coded solutions to prevent common programming problems and a virtual machine that manages the execution of programs written specifically for the framework. The .NET Framework is a key Microsoft offering and is intended to be used by most new applications created for the Windows platform.</p> <p>The framework's Base Class Library provides a large range of features including user interface, data and data access, database connectivity, cryptography, web application development, numeric algorithms, and network communications. The class library is used by programmers, who combine it with their own code to produce applications.</p> <p>Programs written for the .NET Framework execute in a software environment that manages the program's runtime requirements. Also part of the .NET Framework, this runtime environment is known as the Common Language Runtime (CLR). The CLR provides the appearance of an application virtual machine so that programmers need not consider the capabilities of the specific CPU that will execute the program. The CLR also provides other important services such as security, memory management, and exception handling. The class library and the CLR together constitute the .NET Framework.</p> <p><a href="http://en.wikipedia.org/wiki/.NET_Framework">http://en.wikipedia.org/wiki/.NET_Framework</a></p>
<b>Status</b>	Core
<b>Position Detail</b>	.NET Framework is an industry accepted solution that has been implemented heavily in the OCIO's software application solutions.
<b>Acceptable Use</b>	Use for GUI implementation, middle tier, web based projects, windows desktop applications, business logic, and SOA integration efforts.

View: Technologies S
environment (IDE)
nnels-->Internet; Delivery nectivity; Presentation / cture-->Web; Support forms-->Platform Independe ns-->Platform Dependent (M
pp



# The Inception Plan was the First Automated Online Form

**Inception** **JF**

**Vision**  
Vision Statement  
Concise set of  
Goal, Customer  
  
Problem Statement  
[Click here to s](#)  
The problem of  
Affects  
The result of v  
A successful s

**Solution Estimates**  
Architectural Options  
  
Alternative Solutions  
  
Drivers  
Critical Stakeholder Milestones  
  
Inception Date  
Elaboration Date  
Construction Date  
Rollout Date  
Transition Date

**Business Benefits**  
[Click here to s](#)  
For  
This project w  
Unlike

**Impacts of n**  
[Click here to s](#)

pts of Intent,

File Size	Status↑
10 KB	Complete
8 KB	Complete
9 KB	Complete
6 KB	Complete
31 KB	Complete
5 KB	Complete
12 KB	Complete
8 KB	Complete
14 KB	Complete
8 KB	Complete
11 KB	Complete
1631 KB	Complete



# User Experience Group Reviews all Applications and Web Sites

**UX** USI WO

[Home](#) [Best](#)

**Previous Review**

**JPL Gateway**

JPL Gateway is a complete platform designed to be networking to the unique Gateway is modeled after social networking implications LinkedIn, and E-vite. J otherwise fragmented with each other, in turn Users benefit by interacting their groups as well as developing a productive channel and share work

[View Website »](#)

**Calendar of Events**

[Home](#) [Best Practices](#) [Asset Catalog](#) [Reports](#) [About UX](#) [Contact Us](#)

 **UX TEAM TIP OF THE WEEK**

There are several issues related to text characteristics that can help ensure a Web site communicates effectively with users:

- Use Familiar fonts that are at least 12-points
- Use black text on plain, high-contrast background
- Use background colors to help users understand the grouping of related information

Even though it is important to ensure visual consistency, steps should be taken to emphasize important text. Commonly used headings should be formatted consistently, and attention-attracting features, such as animation, should be used when appropriate.

**Best Practices**

**UX Rules and Recommendations**

These are subject to change. However, there will be a notification if any changes are made.

**Mandatory:**

- Terminology
  - Must use consistent navigational, contextual, and graphical labeling within application (and across OCIO)
- Navigational Elements
  - Navigational items must be constantly placed, exits clearly labeled, current location discernible, and presented in a logical and intuitive order
- Help
  - Help materials must be easily recognizable.
  - Recommended Placement - Top Right, Bottom Center
    - At least, Level I Help Desk also
- Point of Contact Link
  - Point of Contact information link must be easily recognizable
  - Recommended Placement - Top Right, Bottom Center
    - Business Project Lead contact information

[PUBLIC HOME](#) [CALTECH](#) [NASA](#)

reviewing and cycle. Once e. We aim to tically pleasing.

**JPL**



**REQUEST A REVIEW OR CONSULTATION**

**Loadable Resources**

[Name](#)

[UX Rules](#)

[UX\\_Grading\\_Form](#)

[Nielsen's Ten Usability Heuristics](#)

[Morville's Original Honeycomb](#)

[Shneiderman's Eight Rules of Interface Design](#)

[IntranetDesignAnnual\\_2011](#)

[Principles for Usability Review edited 7-22-03](#)

[document](#)

**Links**



# Training Materials are Integrated into BuildIT

**JUMP**  
JPL Unified Methodology Process

Home Status Update Inception Elaboration Construction Transition Trai

Home **Status Update** Inception Elaboration Construction Transition Trai

### Elaboration Documents

Click the Blue Hyperlink Below to Update Status

### Update Status Here

Please click the link above to update your project status. If you run into problems, contact the JUMP CM.

#### Update your Status

View All Site Content  
**Update Status Documents**  
Project Documents  
JUMP Documentation  
Lists  
Announcements

Support Site

Project Status		
Technical	Scope	Resc
●	●	●
●	●	●

To update your status, go to your project's site and find the **Update Status** link on the left hand navigation bar.

#### Fill in your Project Status

Next, update the Status Description and Status Boxes with relevant details about your project's progress. If you are running into issues concerning your schedule or resources indicate whether your status is red, yellow or green.

**Project Status**

No Change

Status Title Support Site

Status Description

Technical Status No current problem - All commitments can be met

#### Fill in Milestone Dates and Complete

Start Date	1/3/2011
Inception End Date	4/17/2011
Elaboration End Date	
Construction End Date	
Rollout Date	
Transition End Date	
MMR Date	
Percent Complete	0 %

Update Status

Remember, the Elaboration phase includes:

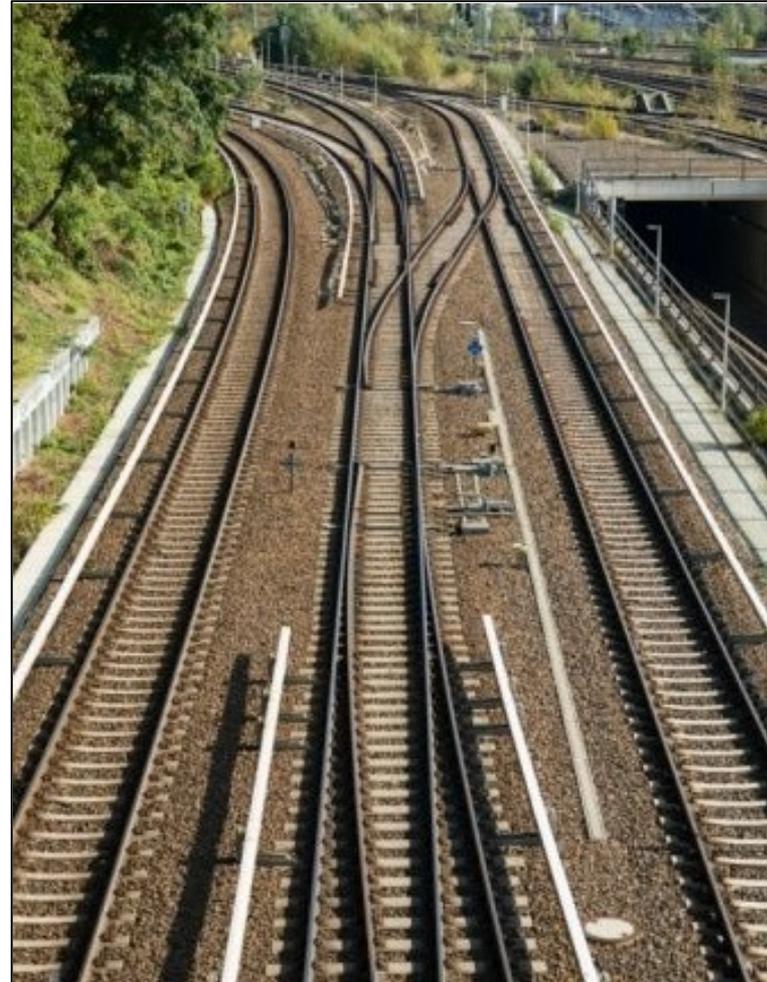
- Create a Project Plan and
- Create Mock-Ups
- Complete all JUMP Checklists
  - UX Evaluation
  - Architecture
  - IT Security
  - Operations
- Release your project's Elaboration Documents
- Hold and pass an Elaboration Review

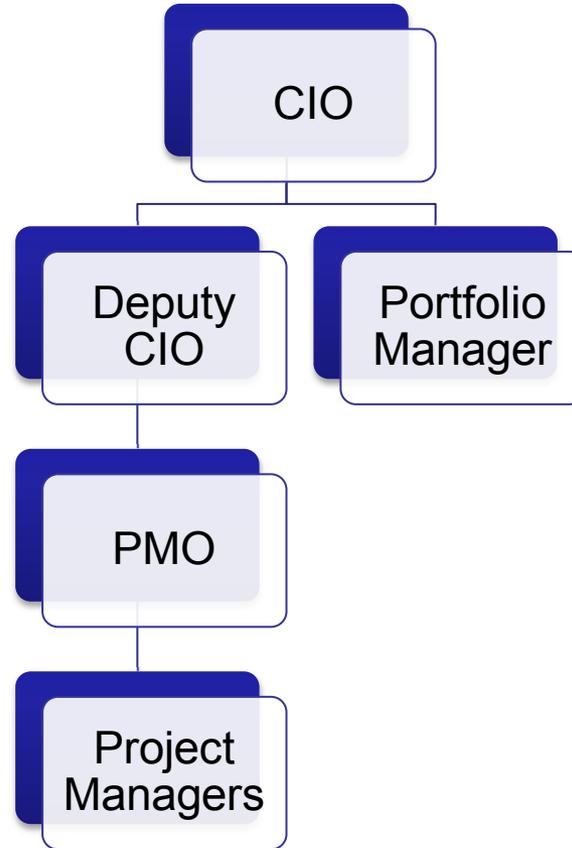
Next, fill in all of your projected dates for your project. Please be sure to submit realistic dates. Contact your JUMP CM if you need help with estimations.

Finally, click the **Update Status** button at the bottom.



# Implementing BuildIT has kept Projects on Track





**Upper Management Support was Crucial to Establishing BuildIT Adoption**



# CIO Required that All Projects be Registered on the Development Pipeline

powered by **OCIO** **JUMP Projects**

Build-IT Application Development Site **Build-IT Home** Applications Blog Application Architecture Application Technologies JUMP Resources Lessons Learned New 172 JUM

View All Site Content  
Metrics Page  
Projects with Warnings  
Lists  
172 Service Pipeline  
Documents  
Project Sites  
Recycle Bin

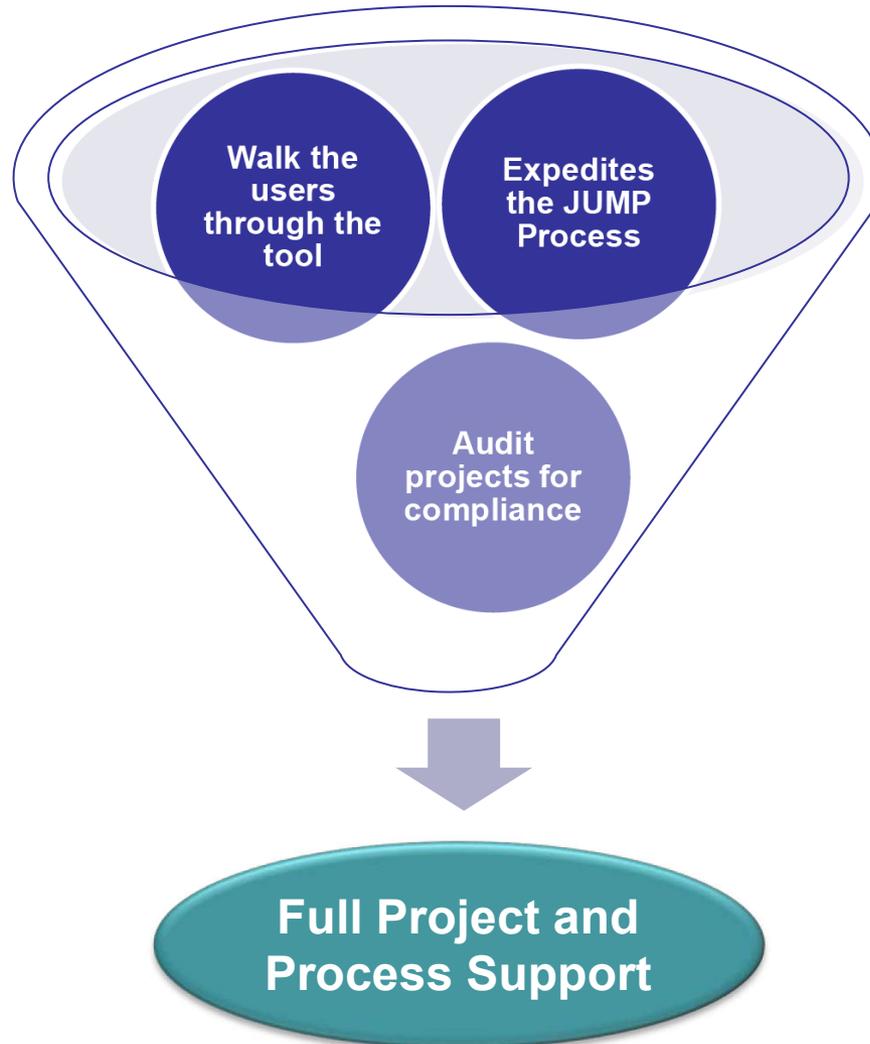
### 172 Service Pipeline

Actions

Alert	Project Title	Project Status	Site Url
<b>Project Phase: 1. Inception</b>			
●	AMMOS Flight Ops Account Request Automation	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/AMMOS">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/AMMOS</a>
●	eFPP	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/eFPP">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/eFPP</a>
●	JPL Mobile App Store V2	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL_Mobile_App_Store_V2">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL_Mobile_App_Store_V2</a>
●	JPL-ID Data Updates	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL-ID_Data_Updates">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL-ID_Data_Updates</a>
●	JPL-ID Release 3 Off Boarding	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL-ID_Rel_3">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL-ID_Rel_3</a>
●	PartnerSpace 2010	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/PartnerSpace">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/PartnerSpace</a>
●	Mobile Application Management System	On-Hold, in Phase	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Mobile_Application_Management_System">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Mobile_Application_Management_System</a>
●	Mobile Application Repository	On-Hold, in Phase	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Mobile_Application_Repository">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Mobile_Application_Repository</a>
<b>Project Phase: 2. Elaboration</b>			
●	BAT Application	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/BAT_Application_">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/BAT_Application_</a>
●	FAST Search 2012	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/FAST_Search_2010">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/FAST_Search_2010</a>
●	JPL Rules iPhone App	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL_Rules_iPhone_App">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/JPL_Rules_iPhone_App</a>
●	Metrology iPhone	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Metrology_iPhone_">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Metrology_iPhone_</a>
●	NEN Mobile App Platform	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/NEN_Mobile_App_Platform">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/NEN_Mobile_App_Platform</a>
●	NEN: NASA Parts Acquisition and Review System (NPARS)	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/NPARS">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/NPARS</a>
●	Project Lifecycle Management Program (PLM)	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Project_Lifecycle_Management_Program__PLM_">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/Project_Lifecycle_Management_Program__PLM_</a>
●	SHERONA Phase 2	In Work	<a href="https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/SHERONA_Phase_2">https://jplspace.jpl.nasa.gov/sites/BuildIT/jumpprojects/SHERONA_Phase_2</a>



# Establish a Process and BuildIT Coordinator





**Resistance is Futile –  
You Will be Assimilated**



## False Assumptions were made that BuildIT takes longer for the Project Lifecycle

- Metrics were captured to find out the duration that it took for each phase to be completed
- A case study was also performed to determine the amount of time and budget spent using BuildIT



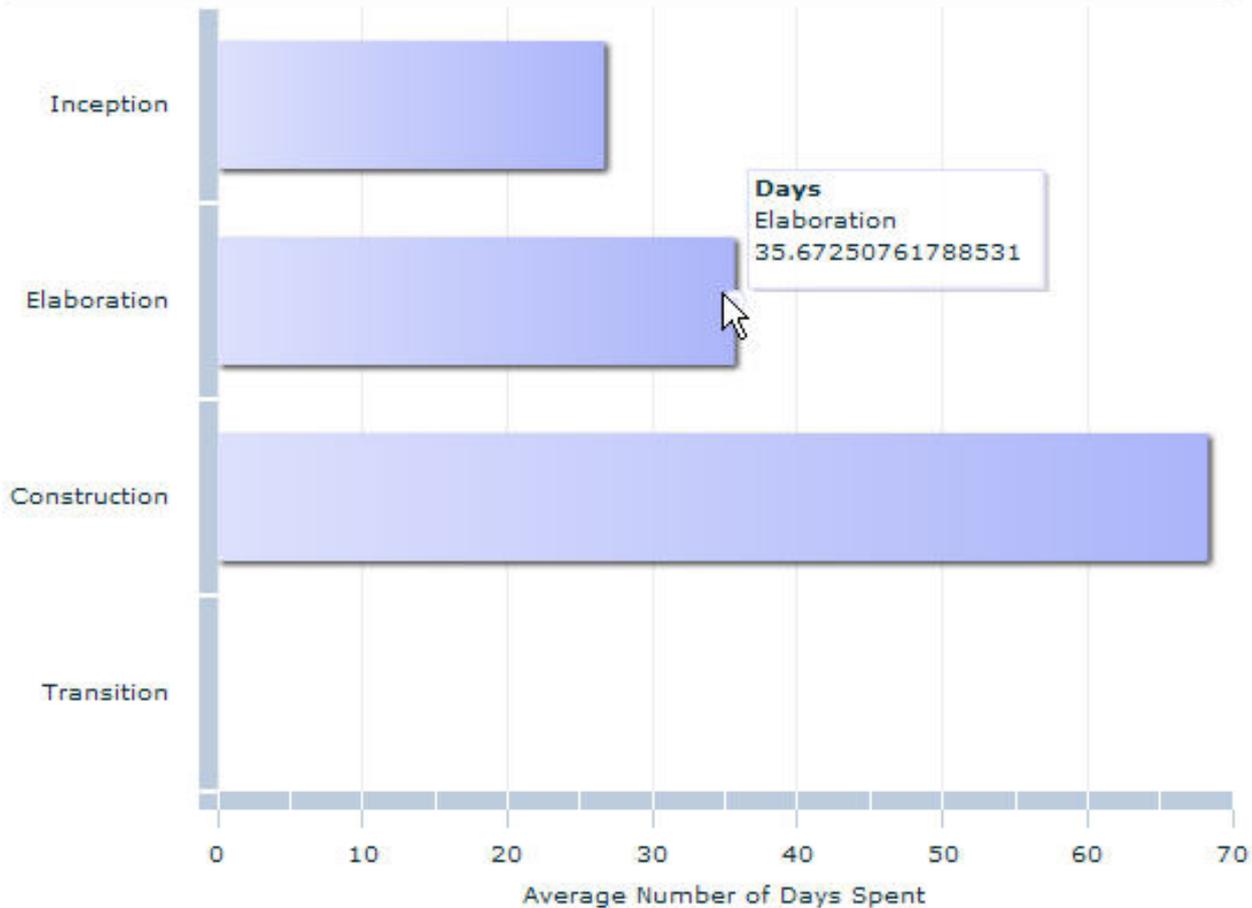


# Visual Metrics Reporting Gives Management the Big Picture

## Project Metrics

Show me metrics for:

Average time spent in each phase of JUMP





## **Upper Management Gains Visibility into the Overall Project Portfolio**



# BuildIT Site is Accessible to Management

Navigation and Action Bar:

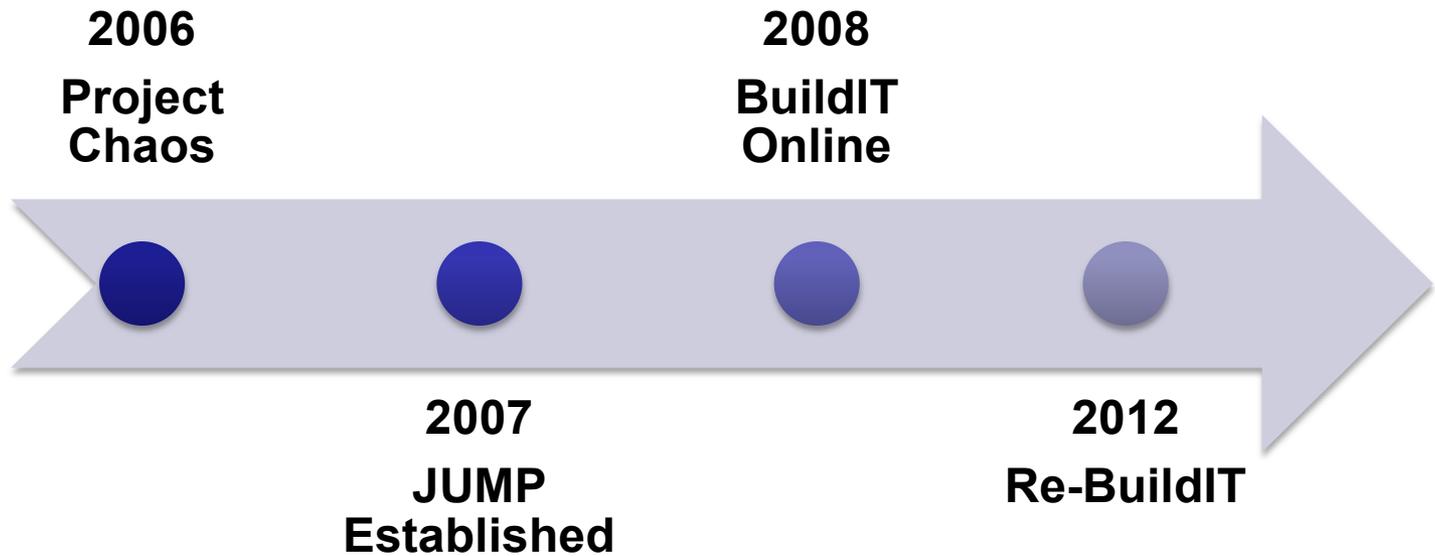
- New Item, New Folder, View Item, Edit Item, Version History, Item Permissions, Delete Item
- Attach File, Alert Me, Workflows Approve/Reject, I Like It, Tags & Notes
- Manage, Actions, Share & Track, Workflows, Tags and Notes

Calendar: May, 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 1:00 am - 1:00 am Project Portfolio Mana	3	4	5 1:00 am Unified Search 1:00 am SHERONA-C	6	7
8 1:00 am - 1:00 am JPL-ID On-Boarding-I	9	10	11	12	13 1:00 am - 1:00 am Green IT Update-Holc	14
15	16 1:00 am - 1:00 am Green IT Update-Corr	17	18	19 1:00 am - 1:00 am Gateway Line Space-f	20 1:00 am JPL-ID On-B	21 1:00 am Green IT Up
22	23	24	25 1:00 am - 1:00 am Work Agreement (WA	26	27	28
29	30	31	1 1:00 am - 1:00 am JPL-ID On-Boarding-C	2	3	4

Left Sidebar:

- 2011 (Jan, Feb, Mar, Apr, **May**, Jun, Jul, Aug, Sep, Oct, Nov, Dec)
- Today is Thursday, January 05, 2012
- Libraries: Site Pages, Quarterly Presentations
- Lists: Agenda, **Projects**
- Discussions: Team Discussion
- Recycle Bin, All Site Content



**We've Accomplished a lot in 5 years**



## Our Main Goals Were Achieved

Pipeline, weekly status updates, and metrics tools were developed

Roles, responsibilities, and technology position statements were defined

Accomplishments

UX Experience working group established

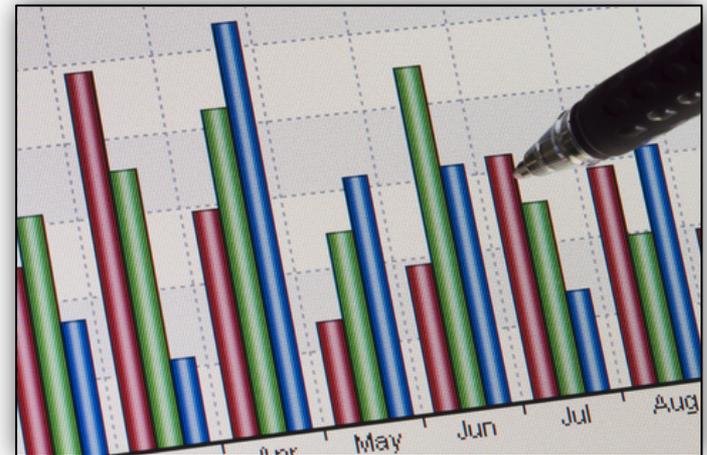
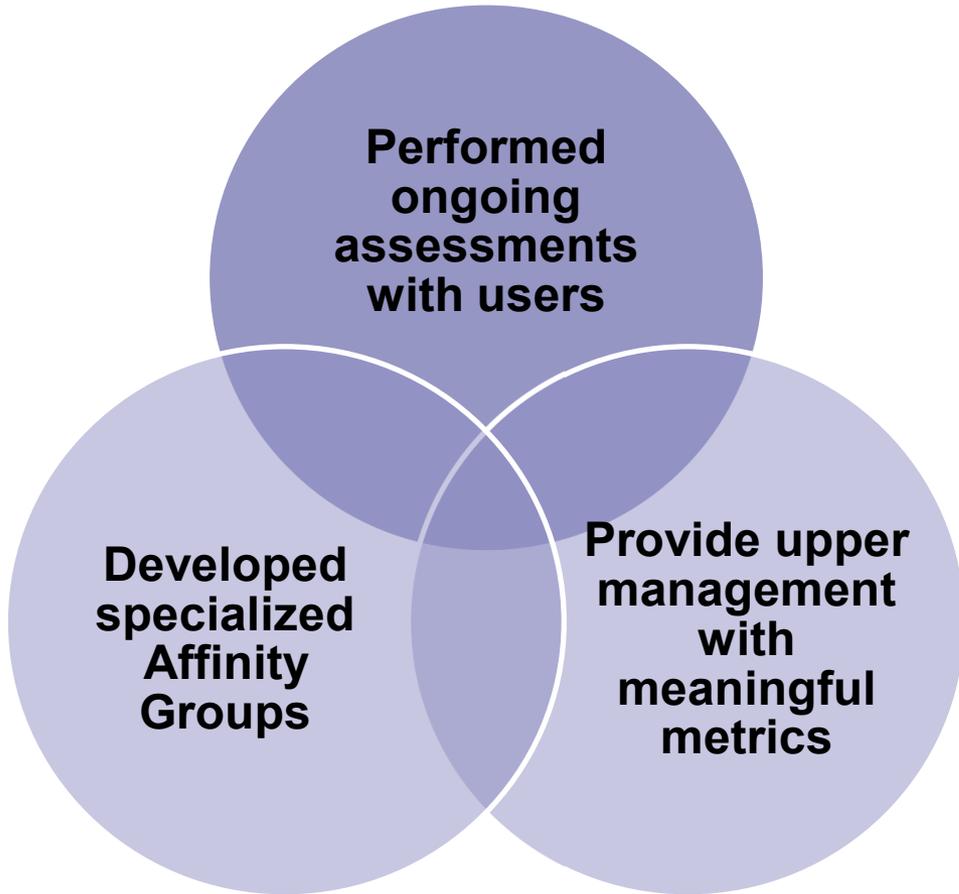
Automated first online form



**How Do We Know We've Been Successful?**

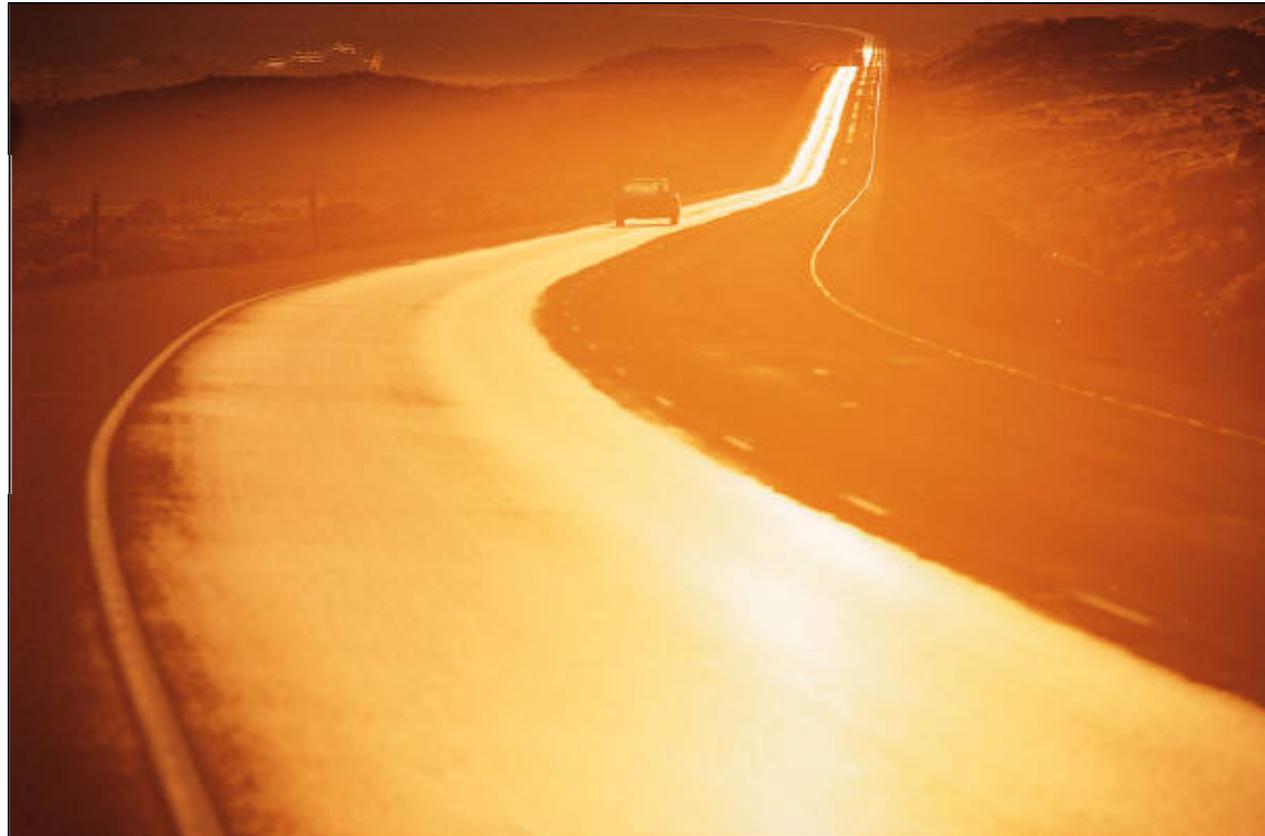


# BuildIT Feedback for Continuous Improvement





**We've Only  
Just Begun**





*Re-*buildIT  
building IT solutions

**A Re-BuildIT Plan is in the Works**



# We Would Like to Convert all Word Templates to Online Forms

## Vision

### Vision Statement

Concise set of sentences that explains what the project will accomplish - Usually consists of Intent, Goal, Customer, and Benefit.

## Success Criteria

### Success Criteria

[Click here to see examples](#)

Research is conducted to evaluate current Commercial Off The Shelf offerings that offer similar capability/functionality.

An evaluation of the capabilities is performed on the 172G VM provisioning system to understand if it can meet the requirements for this project.

A prototype provisioning system is procured or developed and its capabilities are demonstrated to key stakeholders within the OCIO.

### Risks and Mitigations

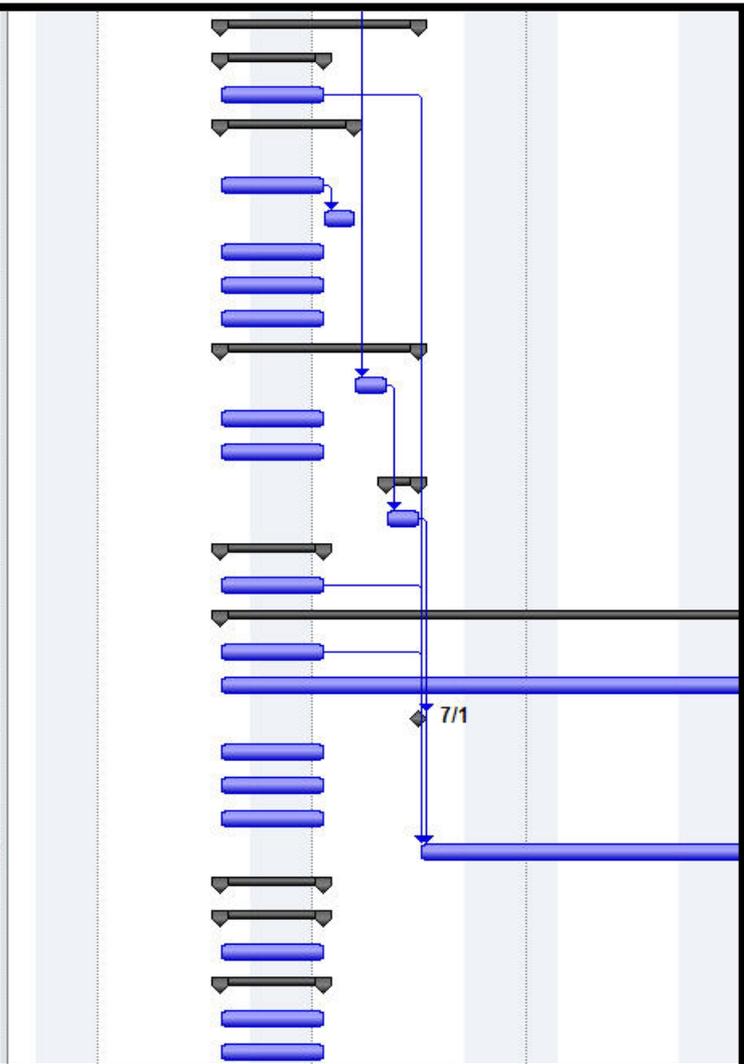
[Click here to see examples](#)

<i>Risk – Rated on scales of 1 (low) to 5 (high)</i>	<i>Probability</i>	<i>Impact</i>
Resources – required expertise from Remedy/SharePoint/UCS currently allocated to other projects	4	5
Time needed to understand AWS/VPC APIs/scripts	3	5
Schedule – End of FY proposed delivery may result in insufficient QA	3	5
Customer Adoption Issues	3	3



# Integration with MS Project will make a Master Rollup of all Projects more Visible

☐ <b>Complete JUMP Project Plan</b>	36 h?	Fri 6/25/10	Thu 7/1/10	
☐ <b>Document Concept of Operations</b>	9 h?	Fri 6/25/10	Mon 6/28/10	
Develop Concept of Operations	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Document High-level Solution Architecture (Hardware &amp; Software)</b>	18 h?	Fri 6/25/10	Tue 6/29/10	
Define High level solution Architecture	9 h?	Fri 6/25/10	Mon 6/28/10	
Show reuse of existing architectures	9 h?	Mon 6/28/10	Tue 6/29/10	44
Fillout CASB Architecture Checklist for Elaboration	9 h?	Fri 6/25/10	Mon 6/28/10	
Document Technology Choices	9 h?	Fri 6/25/10	Mon 6/28/10	
Approve Technologies	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Project Schedule, Budgets, and Risks</b>	36 h?	Fri 6/25/10	Thu 7/1/10	
Develop/Update Project Schedule (Detail plan)	9 h?	Tue 6/29/10	Wed 6/30/10	18
Develop/Update Project Budget (Detail plan)	9 h?	Fri 6/25/10	Mon 6/28/10	
Reconcile budget, schedule, and resources with Project Actua	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Considerations for Project Schedule, Budget and riskProj</b>	9 h?	Wed 6/30/10	Thu 7/1/10	
Identify Risks and Mitigation Plans	9 h?	Wed 6/30/10	Thu 7/1/10	50
☐ <b>Document Solution</b>	9 h?	Fri 6/25/10	Mon 6/28/10	
Develop Options, Description & Justification	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Complete Approved System Interface Mock-up</b>	252 h?	Fri 6/25/10	Tue 8/10/10	
Develop System Interface Mock-up	9 h?	Fri 6/25/10	Mon 6/28/10	
UX Consultation	252 h?	Fri 6/25/10	Tue 8/10/10	
ApproveJUMP Project Plan	0 h	Thu 7/1/10	Thu 7/1/10	54
Complete IT Security Elaboration Checklist	9 h?	Fri 6/25/10	Mon 6/28/10	
Complete ORR Checklist	9 h?	Fri 6/25/10	Mon 6/28/10	
Identify Business Product Lead	9 h?	Fri 6/25/10	Mon 6/28/10	
Elaboration Review	20 d	Thu 7/1/10	Tue 8/3/10	42.5
☐ <b>Construction</b>	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Detailed Design</b>	9 h?	Fri 6/25/10	Mon 6/28/10	
Complete Implementation Plan	9 h?	Fri 6/25/10	Mon 6/28/10	
☐ <b>Detailed Design Considerations</b>	9 h?	Fri 6/25/10	Mon 6/28/10	
Produce Software/System Specification Document	9 h?	Fri 6/25/10	Mon 6/28/10	
Update project plan	9 h?	Fri 6/25/10	Mon 6/28/10	





# Summary

**JUMP Projects**

Build-IT Application Development Site > JUMP Projects > JUMP Pages > not

**Metrics Page**

**Projects with Warnings**

**Lists**

- 172 Service Pipeline

**Documents**

**Project Sites**

**Recycle Bin**

**NEN Mobile App Platform**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-12-21 13:38:28

**PPM System**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-08-24 15:25:22

**Research Interdivisional Authorization**

Technical	Scope	Resource	Schedule	Overall
●	●	●	●	●

Updated on 2011-12-21 07:26:06



OCIO needed visibility into all IT projects

Implementing BuildIT has kept Projects on track

We've only just begun





**Thank You**