Improvement Subprocesses Management Using Process Libraries and Electronic Handbooks

(Where Shakespeare Meets Freud)



Demonstration



Dr. Barry E. Jacobs barry.e.jacobs@comcast.net



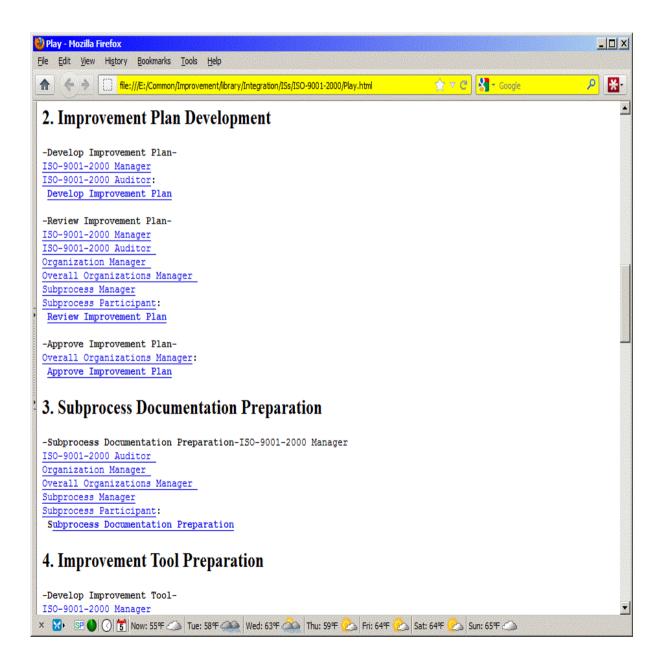
The Bottom Line:

We believe that to truly understand one's universe, one must see it thru multiple "eyes" and also have tools to "communicate" these views.

To do this, we propose editable and cost-saving process documentation "plays" for process developers and participants to help them quickly and effectively learn, integrate, test, teach, and work together.

These "plays" may be added to new or existing systems.

Plays describe subprocess execution.



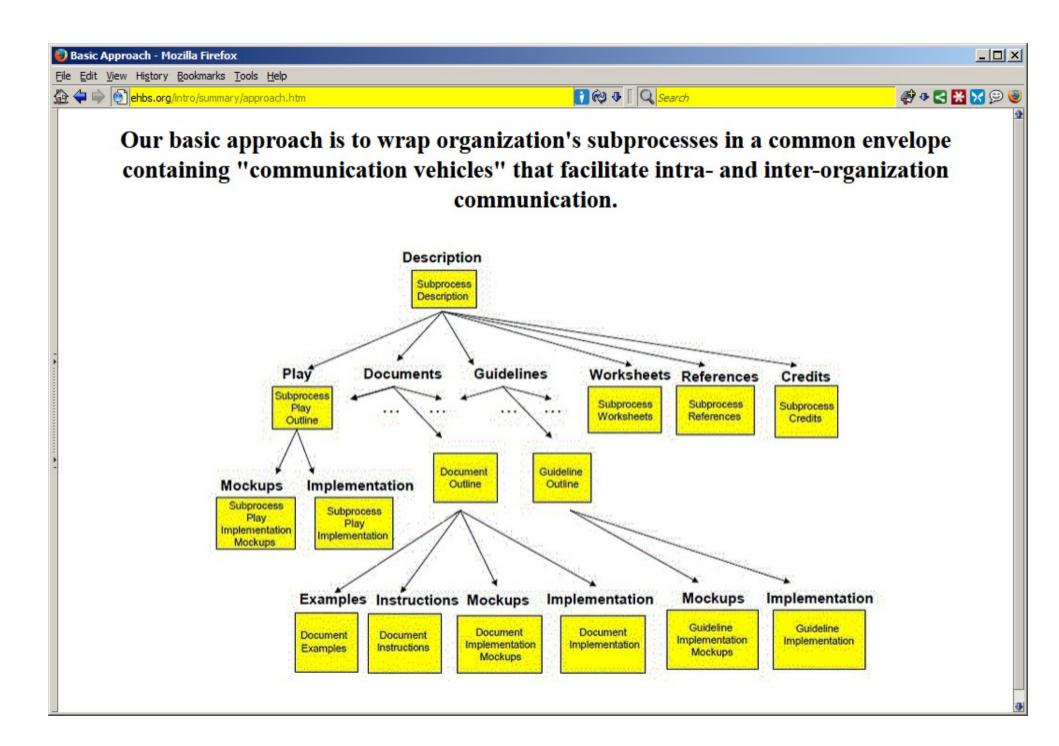
Benefits:

- Facilitates the collection of system and organizational requirements,

- Does not anger/upset people whose opinions are heard,

and

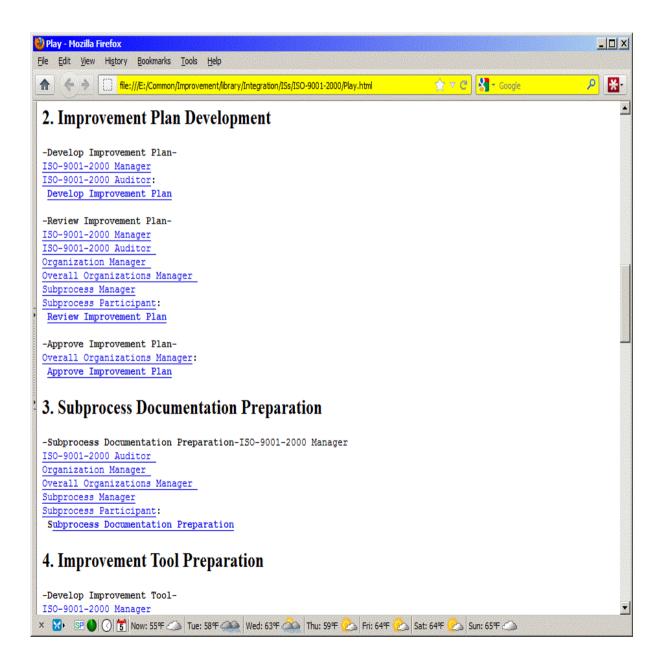
- Increases the interaction between managers, process developers, and participants.



Descriptions summarize subprocesses.

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ISO-9001-2000 Table of Contents	
1. <u>Overview</u> 2. <u>Play</u>	
3. Documents	
4. <u>Guidelines</u> 5. Others	
1. Overview	
In this subprocess, we deal with the process of ISO-9001-2000 improvement This is where Organizations formally improve subprocesses using the ISO-9001-2000 improvement methodology.	their
Organization: ORG	
<u>All-Files</u> . These are all the view files. <u>Benefits</u>	
2. Play	
In this subprocess, the <u>play</u> is divided in several parts:	•
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Plays describe subprocess execution.



Documents describe subprocess data.

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3. Documents In this subprocess, we have the following document types:	_
Improvement Plan. These are used to represent the Improvement Plan. Subprocess Documentation. These are used to represent the documentation for a subprocess. Staff Preparation Report. These are used to represent the Staff Preparation Report. Improvement Tool. These are used to represent the Improvement Tool. Audit Report. These are used to represent the Audit Report. Recommendations Report. These are used to represent the Recommendations Report. Improvements Implementation Report. These are used to represent the Improvement Implementation Report.	
4. Guidelines In this subprocess, we have the following Guidelines:	
ISO-9001-2000 Manager. This is the person responsible for the ISO-9001-2000 subprocess. ISO-9001-2000 Auditor. This is the person responsible for the ISO-9001-2000 Audit. Organization Manager. This is the person managing an organization. Overall Organizations Manager. This is the person managing all the organizations. Subprocess Manager. This is the person managing a subprocess . Subprocess Participant. This is the person involved in a subprocess .	
5. Others	▼ Sat: 83 ℉

Guidelines describe user subprocesses.

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in this subprocess, we have the following Guide	cuics.	
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ISO-9001-2000 Auditor. This is the per	rson responsible for the ISO-9001-2000 Audit.	
Organization Manager. This is the person	n managing an organization.	
Overall Organizations Manager. This is t	the person managing all the organizations.	
Subprocess Manager. This is the person	managing a subprocess .	
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Subprocess Participant. This is the perso	on involved in a subprocess.	
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5. Others In this subprocess, we have the following other Worksheet. This is the guidelines for the Credits. These are the people partaking References. These are other references. All-Files. These are all the view files. Related Links: Other Views; Integrated View;	tools: manager/director.	
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5. Others In this subprocess, we have the following other Worksheet. This is the guidelines for the Credits. These are the people partaking References. These are other references. All-Files. These are all the view files. Related Links: Other Views; Integrated View;	tools: manager/director.	

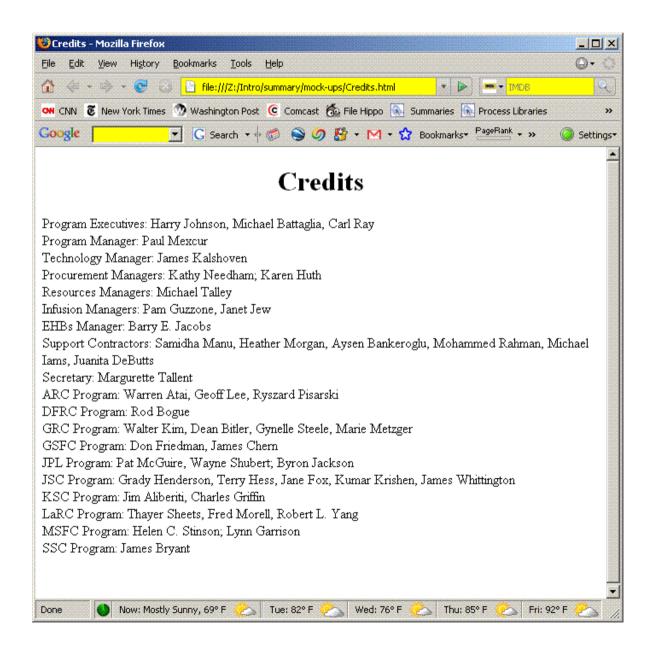
Subprocess Worksheets facilitate subprocess manager communication with process developers and participants.

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Administration	The purpose of this tack is to administer Phase D: Project Development .	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034									
		Phase D Manager, Project				Missile System Pre-Launch Safety Package (Update)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034									
		Manager, Program Manager,													As-built Hardware and Software Documentation (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Project Technical Products	The purpose of this task is to provide Technical	Organization Manager, Overall Projects	James	ames o con na		06/23/07	Verification and Validation Report (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034								
riger feblical fround	products for the Flight Project.	Manager, Task Lead,	Green	Green		00/25/07	Operations Handbook (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034								
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		Phase D Manager, Project Manager, Program				Work Agreement for Next Phase (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034									
Project Planning, Cost, and Schedule Products	The purpose of this task is to provide Planning, Cost, and Schedule products for the Flight Project.	Manager, Organization Manager, Overall Projects Manager, Task Lead,	James Green	07/23/07	078/23/07	Reviews	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034									

References list other related resources.

References - Mozilla Firefox File Edit View History Bookmarks Tools Help		
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Credits acknowledge people's contributions.

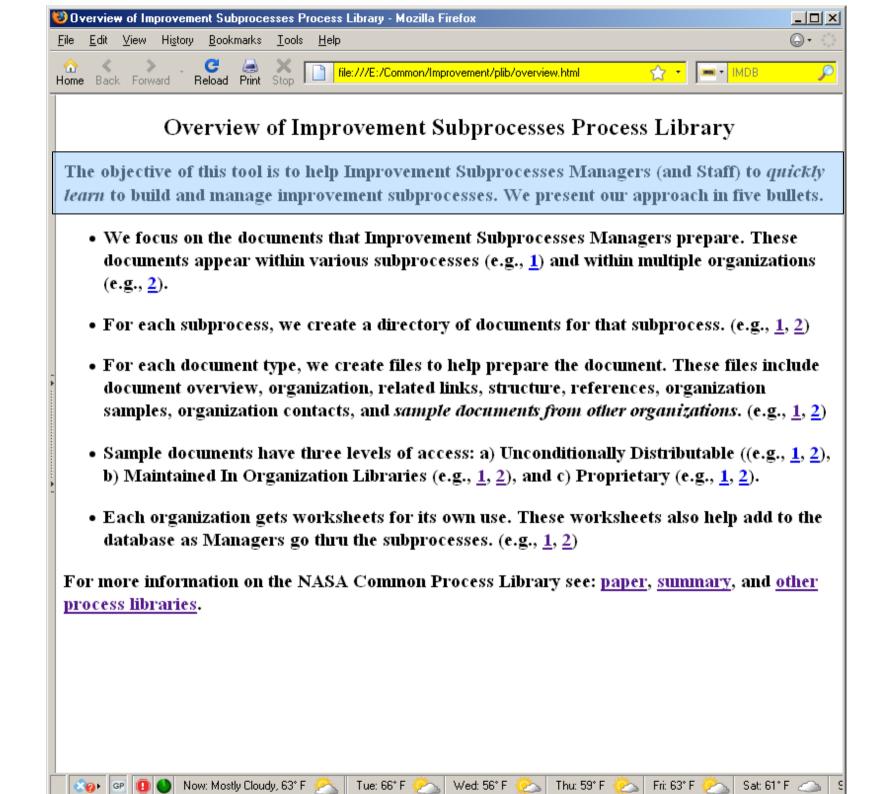


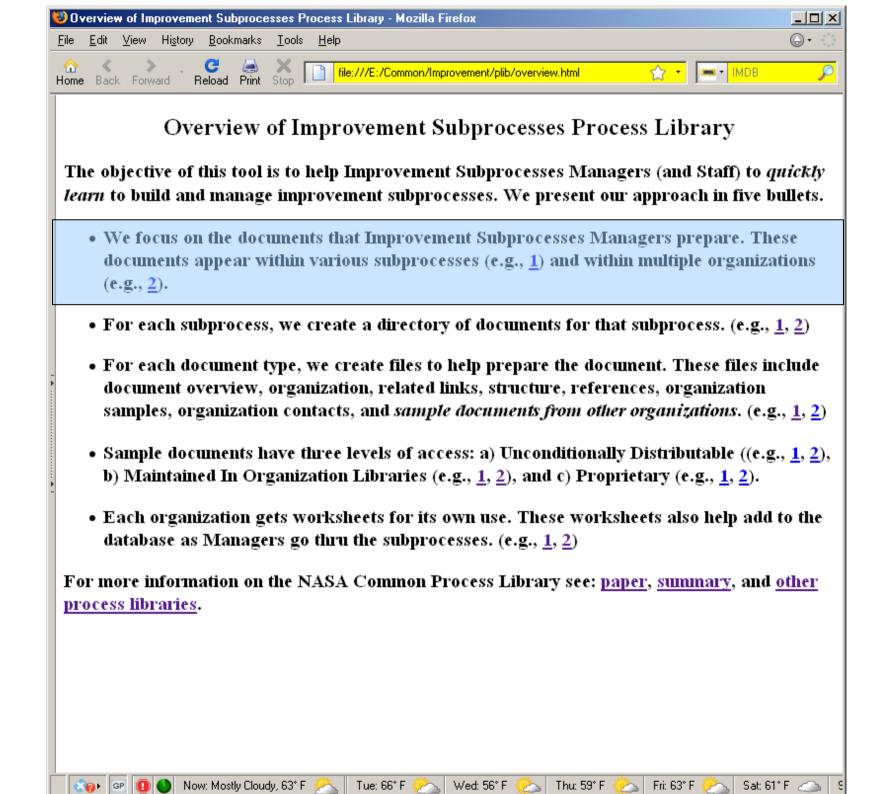
Tools that can be focused on during stagesby tool.

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	Role Guidelines/EHBs	Learn, Integrate, Teat, Teach, Work Together	Learn, Integrate Document: Using Role Guidelines/EHBs, Test, Teach, Work Together						
	Subprocess Worksheets	Learn, Integrate, Teat, Teach, Work Together	Learn, Integrate Document: Using Role Guidelines/EHBs, Test, Tesch, Work Together						
	References	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Document: Using Role Guidelines/EHBs, Test, Tesch, Work Together						
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Tools that can be focused on during stagesby stage.

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1		Tools To Focus On Dur	ing Stages- By Stage.	
	Stage	Process Developer	Process Participant	
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	Integrate	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Documents Using Role Guidelines/EHBs.	
	Test	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksbeets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	
	Teach	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	
	Work Together	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	





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Improvement Subprocesses

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Organizations provide different views of the subprocesses, some of which may be proprietary.

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Geotail Mission	
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Organizations execute the eight "Play Development" stages.

- 1) summarizing (descriptions),
- 2) playwriting (outlines),
- 3) staging (mockups),
- 4) dress rehearsal (implementations),
- 5) performance (implementations),
- 6) evaluations (implementations),
- 7) revisions (outlines, mockups, implementations), and
- 8) closing.

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People in organizations provide different views of the subprocesses.

View

View



Subprocess Documentor's View

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Subprocess Teacher's, Manager's, Implementor's and Participant's Views _ D ×

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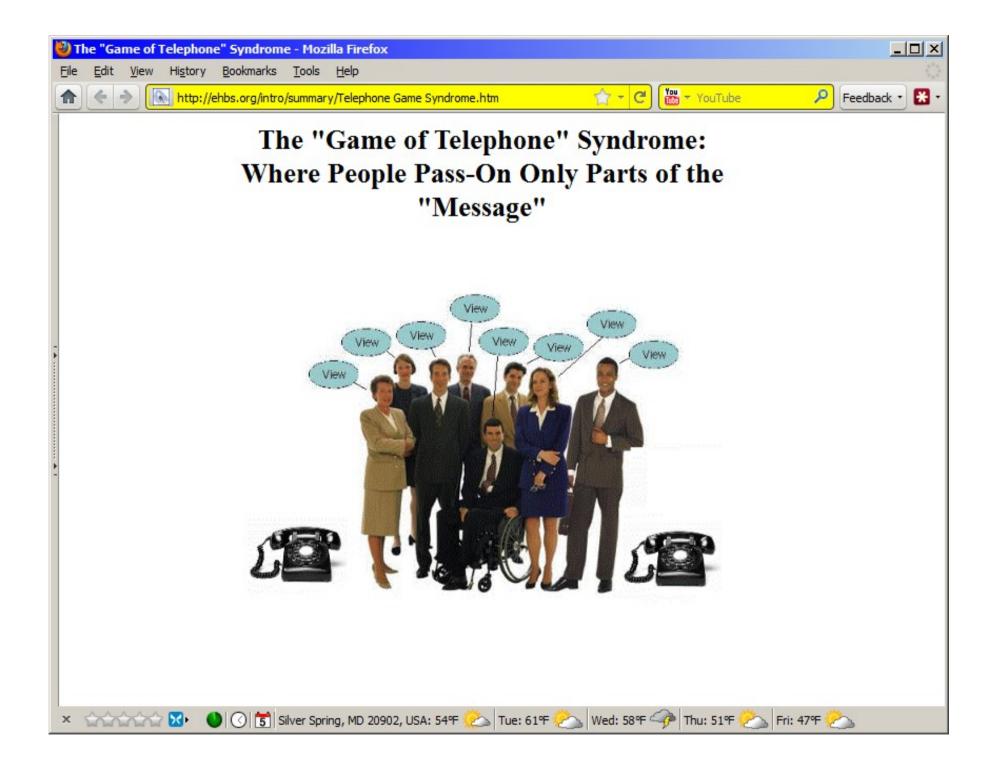
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Organizations generate Subprocess Life-Cycle* Views

- Organization subprocess teachers want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical)
- Organization subprocess documentors want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical)
- Organization subprocess managers want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical)
- Organization subprocess implementors want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical)
- Organization subprocess participants want to quickly learn, integrate, and perform tasks that are part of their views. (Critical)
- Organization subprocess managers want to quickly monitor execution of tasks that are part of their views.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly improve, test, and teach their subprocesses.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly improve, test, and teach using other organization's views.
- Organization subprocess teachers, documentors, managers, implementors, and participants become hurt/angry when their views are not supported.
- Organization subprocess implementors want to quickly update, test, and teach tools that help facilitate execution of their subprocesses.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly leave when their views continue not to be supported.

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^{*} Also, called the "Universal Subprocess".



🥹 Overview of how editable and cost-saving model/documentation tools can solve problems. - Mozilla Firefox

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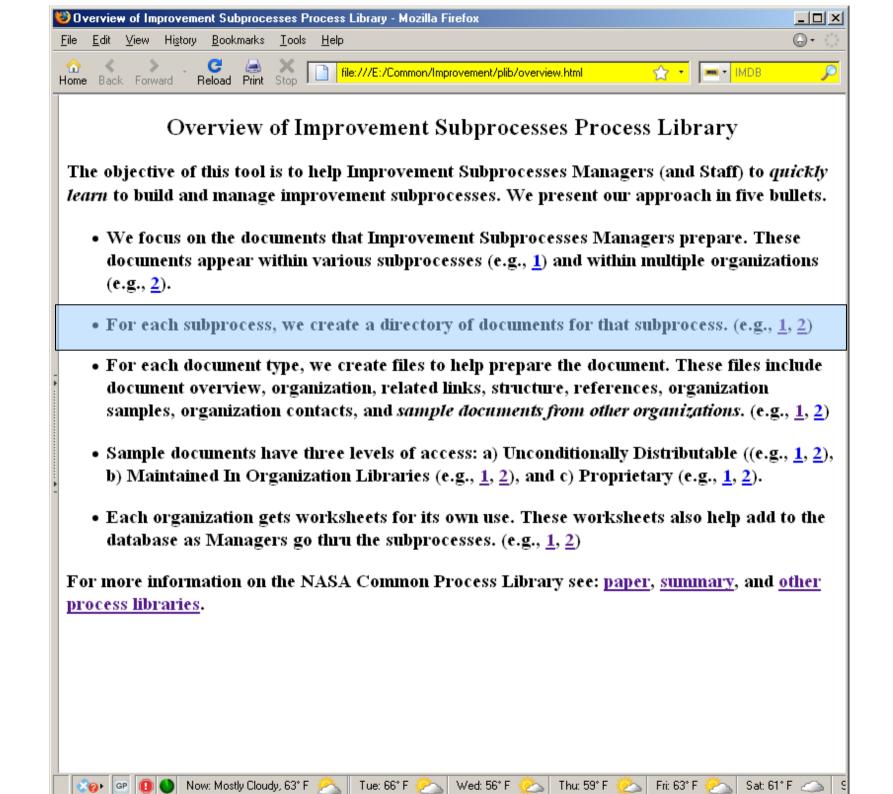
Overview of how editable and

cost-saving process documentation tools can solve problems.

Problem	Solution
Develop Internet-based tools to support the paperless documentation and management of complex distributed processes.	Editable process documentation tools can be tailored to each subprocess.
Organizations provide different views of the subprocesses.	Editable process documentation tools can be tailored to reflect different organization's views of the subprocess.
Organizations execute the eight "play development" stages.	Editable process documentation tools can be tailored to reflect the eight "play development" stages.
People in organizations provide different views of the subprocesses.	Editable process documentation tools can be tailored to communicate different people's views of the subprocess.
Organizations generate Subprocess Life-Cycle Views.	Editable process documentation tools can be tailored to reflect different Life-Cycle views of the subprocess.
The "Game of Telephone" Syndrome: Where People Pass-On Only Parts of the "Message".	Editable process documentation tools can be tailored to layer below different people's views of the subprocess.

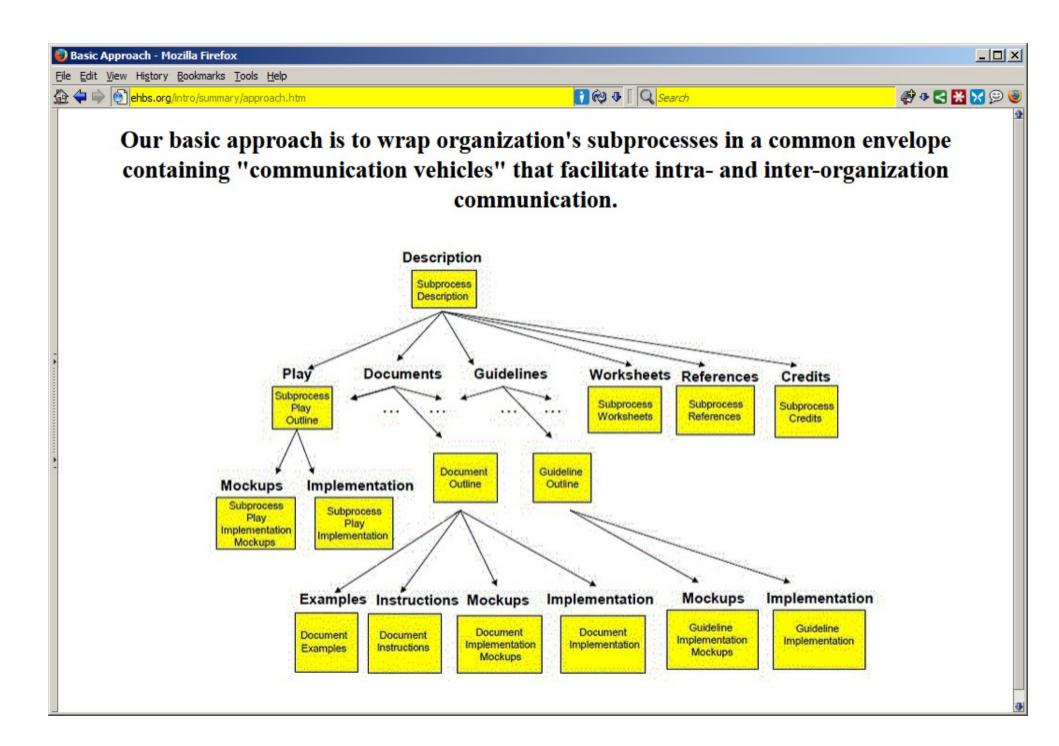
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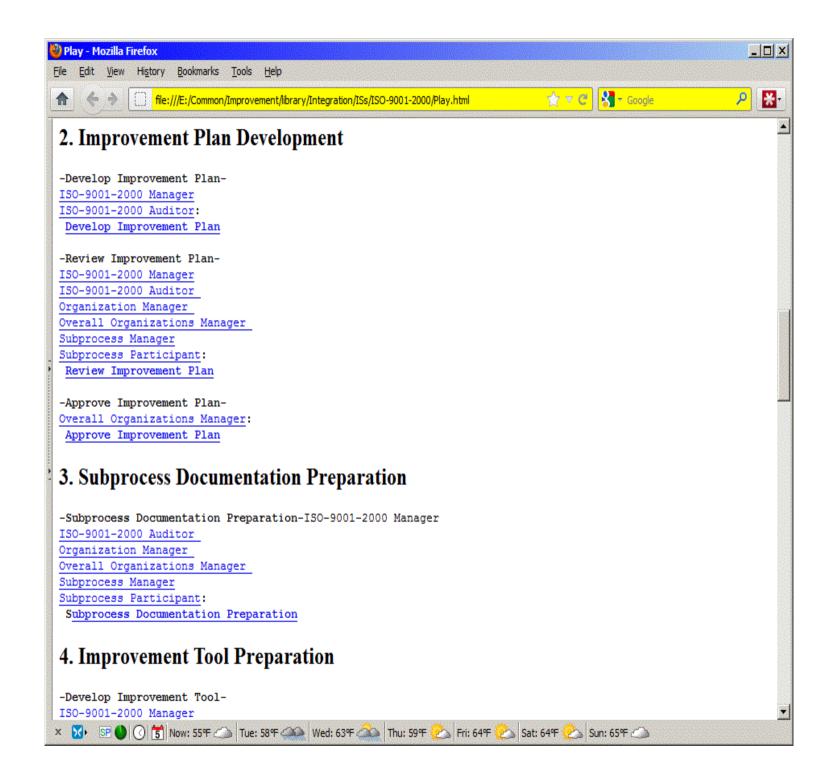


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Create View	
View	Steps
ASTRO-E2	Update
Don Margolies (Don. Margolies@nasa.gov)	Copy
	Delete
CHIPS Dave Pierce (Dave. Pierce@nasa.gov)	Update
	<u>Copy</u> Delete
CINDI/TWINS	Update
Jim Byrd (Jim.Byrd@nasa.gov)	Copy
	Delete
Constellation-X	Update
Liz Citri (Liz. Citrin@nasa.gov)	Copy
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ESDIS_ MaryAnn Esfandiari (MaryAnn.Esfandiari@nasa.gov)	Update
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Table of Contents	
1. <u>Overview</u> 2. <u>Play</u> 3. <u>Documents</u> 4. <u>Guidelines</u> 5. <u>Others</u>	
1. Overview	
In this subprocess, we deal with the process of ISO-9001-2000 improvement This is where Organizations formally improve their subprocesses using the ISO-9001-2000 improvement methodology.	
Organization: ORG	
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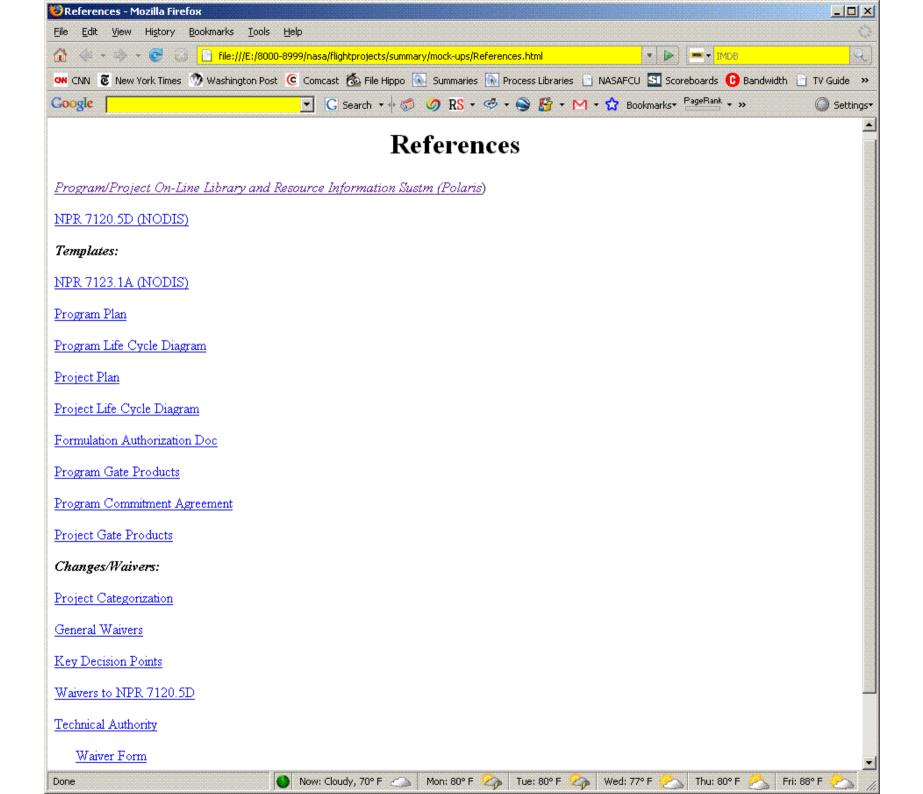


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3. Documents In this subprocess, we have the following document types:	
In this subprocess, we have the following document types.	
Improvement Plan. These are used to represent the Improvement Plan.	
Subprocess Documentation. These are used to represent the documentation for a subprocess.	
Staff Preparation Report. These are used to represent the Staff Preparation Report.	
<u>Improvement Tool.</u> These are used to represent the Improvement Tool.	
Audit Report. These are used to represent the Audit Report.	
Recommendations Report. These are used to represent the Recommendations Report.	
Improvements Implementation Report. These are used to represent the Improvement Implementation Report.	
4. Guidelines	
4. Outdennes	
In this subprocess, we have the following Guidelines:	
ISO-9001-2000 Manager. This is the person responsible for the ISO-9001-2000 subprocess.	
ISO-9001-2000 Auditor. This is the person responsible for the ISO-9001-2000 Audit.	
Organization Manager. This is the person managing an organization.	
Overall Organizations Manager. This is the person managing all the organizations.	
Subprocess Manager. This is the person managing a subprocess.	
Subprocess Participant. This is the person involved in a subprocess.	
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4. Guidelines	
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<u>ISO-9001-2000 Auditor.</u> This is the person responsible for the ISO-9001-2000 Audit. Organization Manager. This is the person managing an organization.	
- Overall Organizations Manager. This is the person managing all the organizations.	
Subprocess Manager. This is the person managing a subprocess.	
Subprocess Participant. This is the person involved in a subprocess.	
	,
5. Others	
In this subprocess, we have the following other tools:	
Worksheet. This is the guidelines for the manager/director.	
Credits. These are the people partaking in this organization's production.	
References. These are other references.	
All-Files. These are all the view files.	
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Subprocess Worksheets facilitate subprocess manager communication with process developers and participants.

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Administration	The purpose of this tack is to administer Phase D: Project Development .	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
	The purpose of this task is to provide Technical products for the Flight Project.	Phase D Manager, Project Manager, Program Manager, Overall Projects Manager, Overall Projects Manager, Subtack Lead, Subtack Lead, Reviewer, Approval	s James Green	06/23/07	06/23/07	Missile System Pre-Launch Safety Package (Update)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						As-built Hardware and Software Documentation (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Project Technical Products						Verification and Validation Report (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Operations Handbook (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Reviews	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Official, Documents Manager				Approvals	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Phase D Manager, Project Manager, Program				Work Agreement for Next Phase (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
Project Planning, Cost, and Schedule Products	The purpose of this task is to provide Planning, Cost, and Schedule products for the Flight Project.	Manager, Organization Manager, Overall Projects Manager, Task Lead,	James Green	07/23/07	078/23/07	Reviews	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034



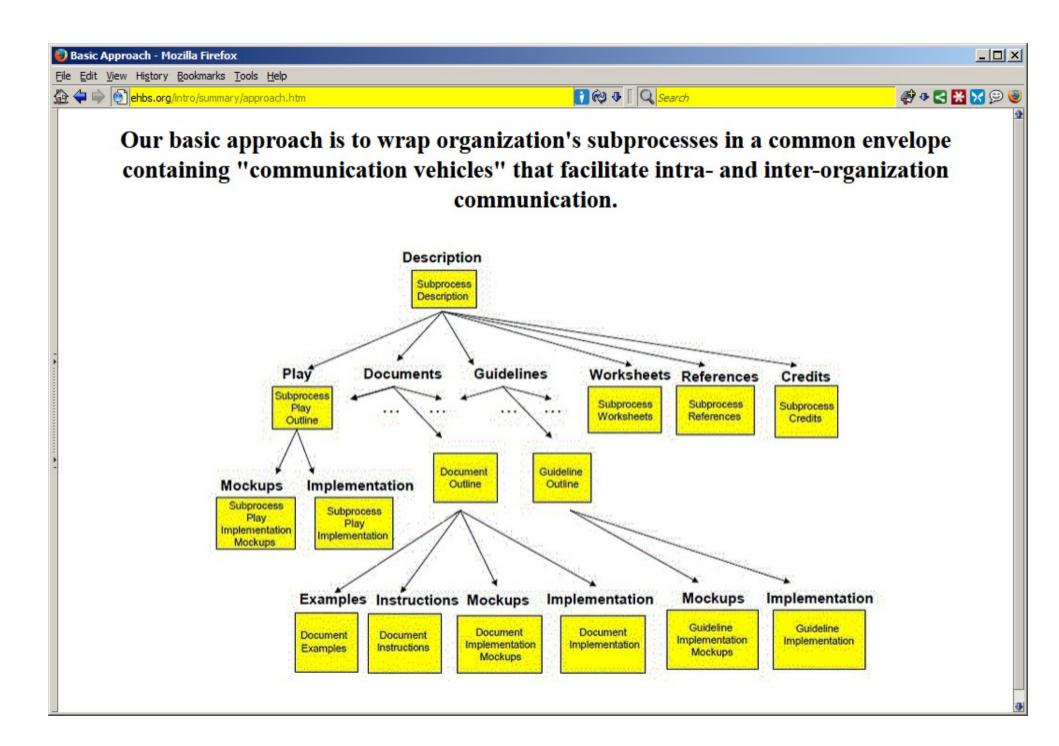
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ARC Program Manager: Ryszard Pisarski	
DFRC Program Manager: Rod Bogue	
GRC Program Manager: Dean Bitler	
GSFC Program Manager: James Chern	
PL Program Manager: Wayne Shubert; Byron Jackson	
SC Program Manager: Kumar Krishen	
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SC Program Manager: James Bryant	
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Tools that can be focused on during stagesby tool.

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	Subprocess Worksheets	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document: Using Role Guidelines/EHBs, Test, Teach, Work Together	
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Tools that can be focused on during stagesby stage.

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,		Tools To Focus On Dur	ing Stages- By Stage.	
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	Integrate	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Documents Using Role Guidelines/EHBs.	
	Test	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksbeets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	
	Teach	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	
	Work Together	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	



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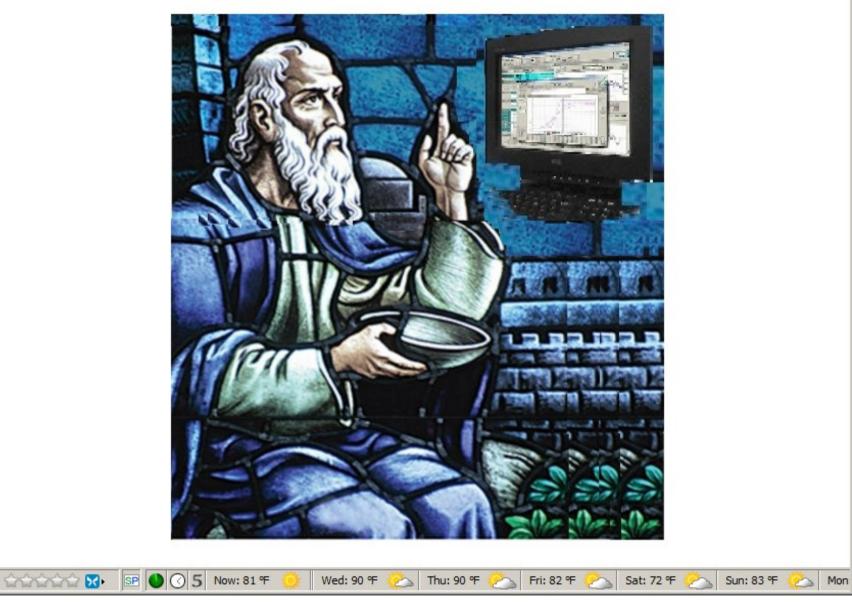
Process Libraries (PLs) and Electronic Handbooks (EHBs) are where Shakespeare meets Freud

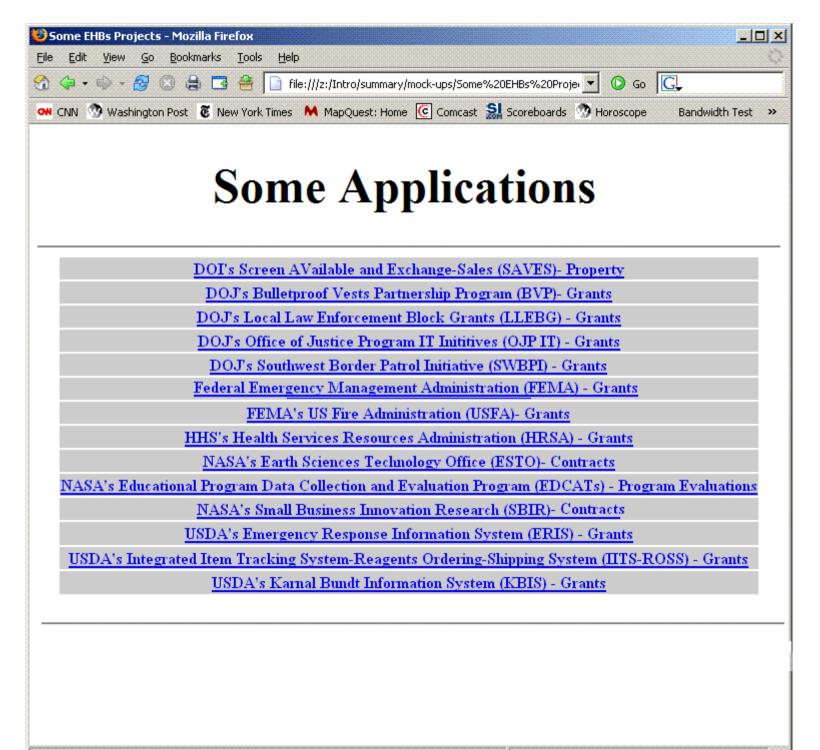


- In Process Libraries (PLs), subprocesses are represented as "plays" where "actors" communicate thru the Internet. Each organization puts on its own "productions". For each role, Electronic Handbooks (EHBs) (also called Guidelines) guide "actors" thru their parts. Managers are "directors" using Worksheets as learning/management tools. Documentors serve as "playwrights". [Shakespearean]
- Organizations are represented as "families" having "multiple personalities". Subprocess "plays" and its "components" provide communication vehicles between members of the same family, different families, and families from different subprocesses. Documentors also serve as "family therapists". [Freudian]

🕹 Socratic Method or Dialogue - Mozilla Firefox							
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The approach uses a modernization of the Socratic Method or Dialogue to gain consensus between Teachers, Documentors, Managers, Implementors, and Participants





😓 Subprocess Life-Cycle Views that are supported. * - Mozilla Firefox

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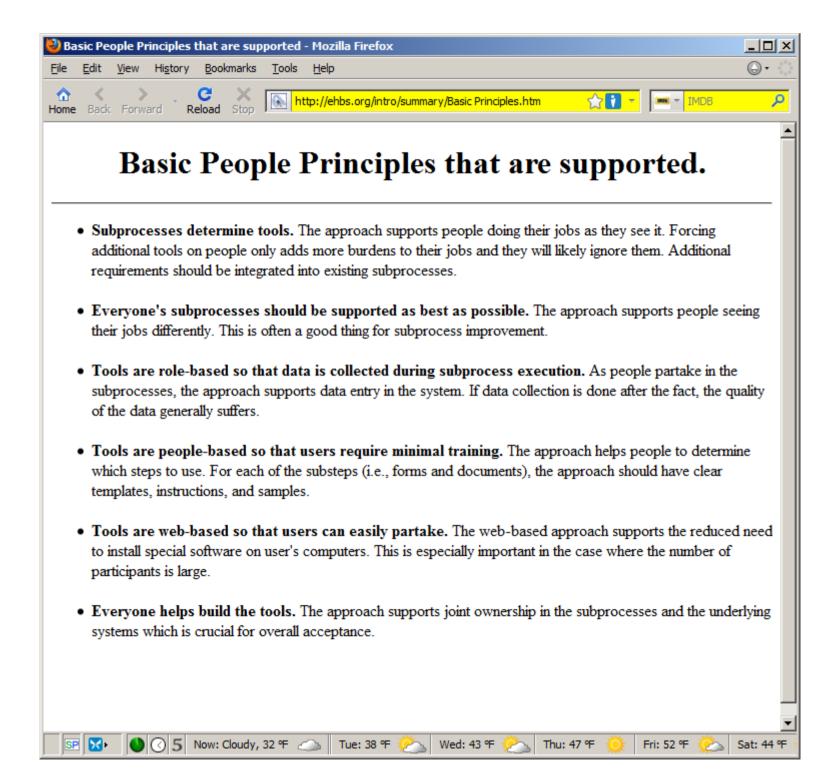
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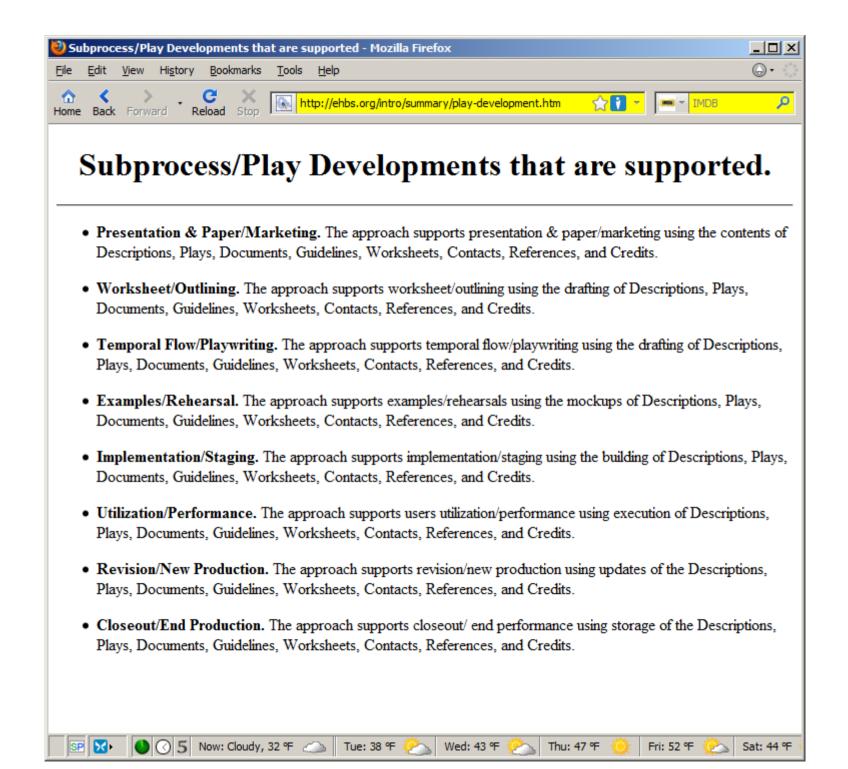
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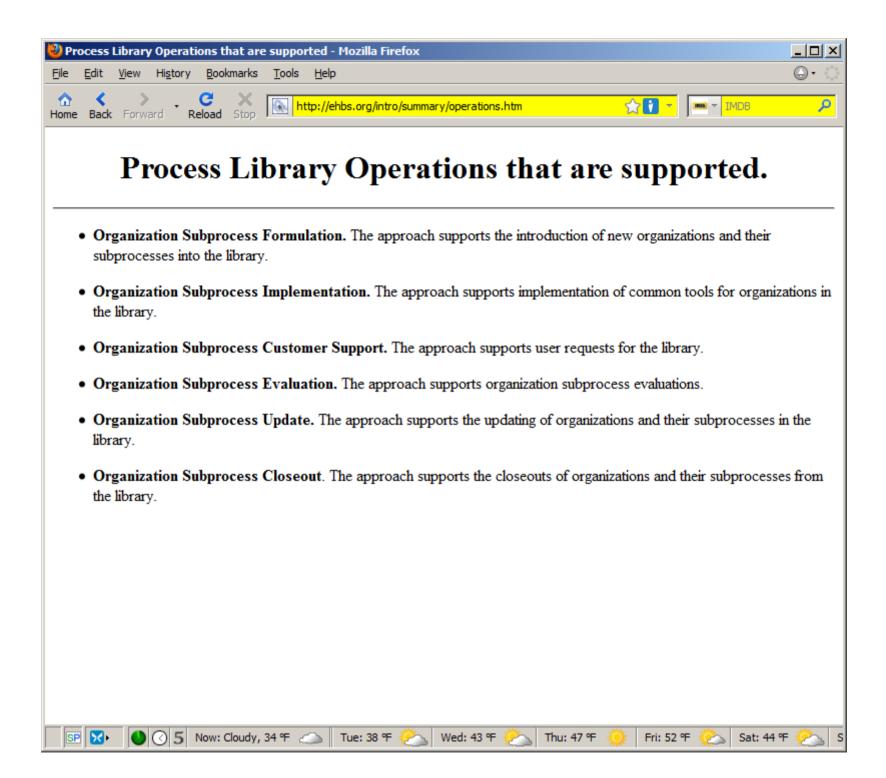
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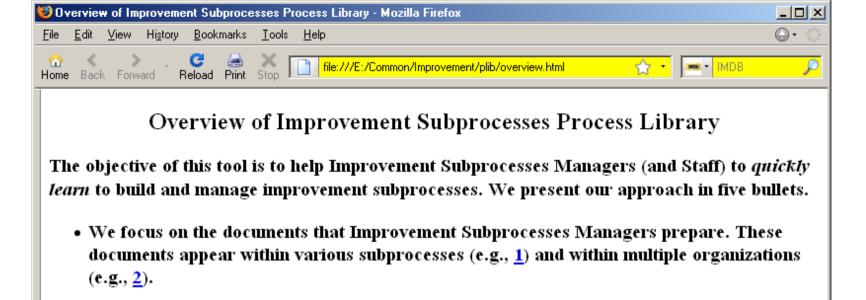
Subprocess Life-Cycle Views that are supported.

- Organization subprocess teachers want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical) Organization subprocess teachers copy relevant organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then learn, integrate, test, and teach their new organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess documentors want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical) Organization subprocess documentors copy relevant organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then learn, integrate, test, and teach their new organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess managers want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical) Organization subprocess managers copy relevant
 organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then learn, integrate, test, and teach their new organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess implementors want to quickly learn, integrate, test, and teach their own views of their subprocesses. (Critical) Organization subprocess implementors copy relevant organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then learn, integrate, test, and teach their new organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess participants want to quickly learn, integrate, and perform tasks that are part of their views. (Critical) Organization subprocess participants study the steps of their organization subprocess view Guidelines.
- Organization subprocess managers want to quickly monitor execution of tasks that are part of their views. Organization subprocess managers monitor the execution of tasks using their organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly update, test and teach their subprocesses. Organization subprocess teachers, documentors, managers, implementors, and participants update, test, and teach their organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly update, test, and teach using other organization's views. Organization subprocess teachers, documentors, managers, implementors, and participants update, test, and teach using other relevant organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library.
- Organization subprocess teachers, documentors, managers, implementors, and participants become hurt/angry when their views are not supported. Organization subprocess teachers, documentors, managers, implementors, and participants update, test, and teach their organization subprocess Plays/Documents/Guidelines/Worksheets.
- Organization subprocess implementors want to quickly update, test and teach tools that help facilitate execution of their subprocesses. Organization subprocess implementors update, test, and teach tools using requirements from Plays/Documents/Guidelines/Worksheets in the Process Library.
- Organization subprocess teachers, documentors, managers, implementors, and participants want to quickly leave when their views continue not to be supported. Organization subprocess
 teachers, documentors, managers, implementors, and participants archive their organization subprocess Plays/Documents/Guidelines/Worksheets.
- The Key Human Factor Issue: Communication Within and Across Organizations. Organization subprocess Plays/Documents/Guidelines/Worksheets in Process Libraries facilitate intra- and inter- organization communication.









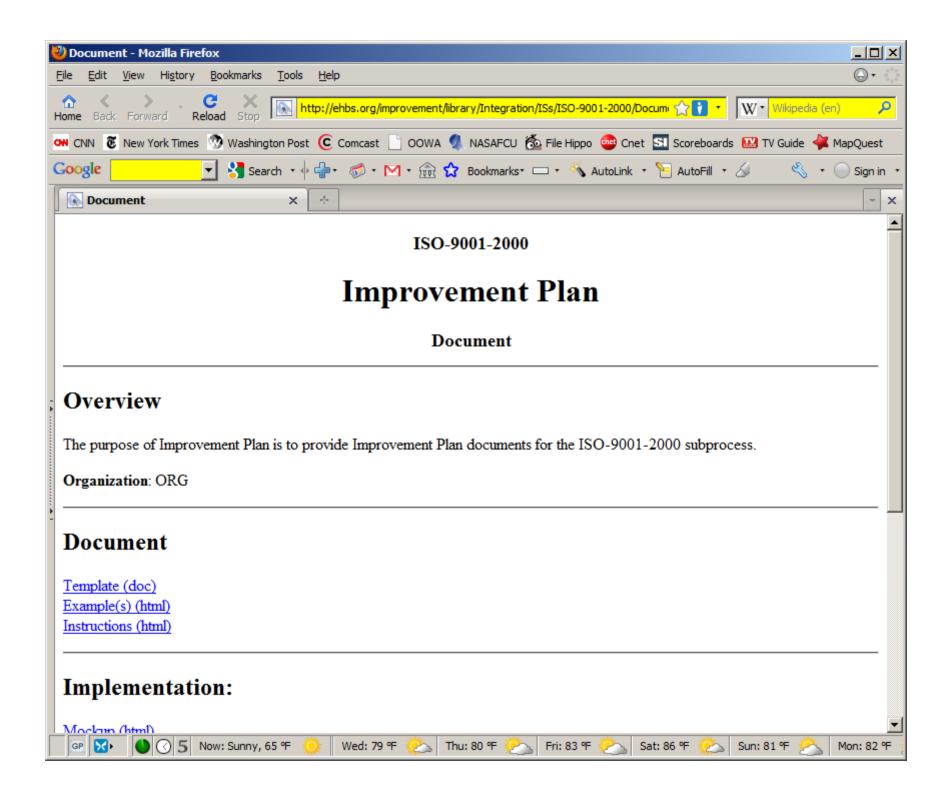
- For each subprocess, we create a directory of documents for that subprocess. (e.g., $\underline{1}, \underline{2}$)
- For each document type, we create files to help prepare the document. These files include document overview, organization, related links, structure, references, organization samples, organization contacts, and *sample documents from other organizations*. (e.g., <u>1</u>, <u>2</u>)
- Sample documents have three levels of access: a) Unconditionally Distributable ((e.g., <u>1</u>, <u>2</u>),
 b) Maintained In Organization Libraries (e.g., <u>1</u>, <u>2</u>), and c) Proprietary (e.g., <u>1</u>, <u>2</u>).
- Each organization gets worksheets for its own use. These worksheets also help add to the database as Managers go thru the subprocesses. (e.g., <u>1</u>, <u>2</u>)

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For more information on the NASA Common Process Library see: <u>paper</u>, <u>summary</u>, and <u>other</u> <u>process libraries</u>.

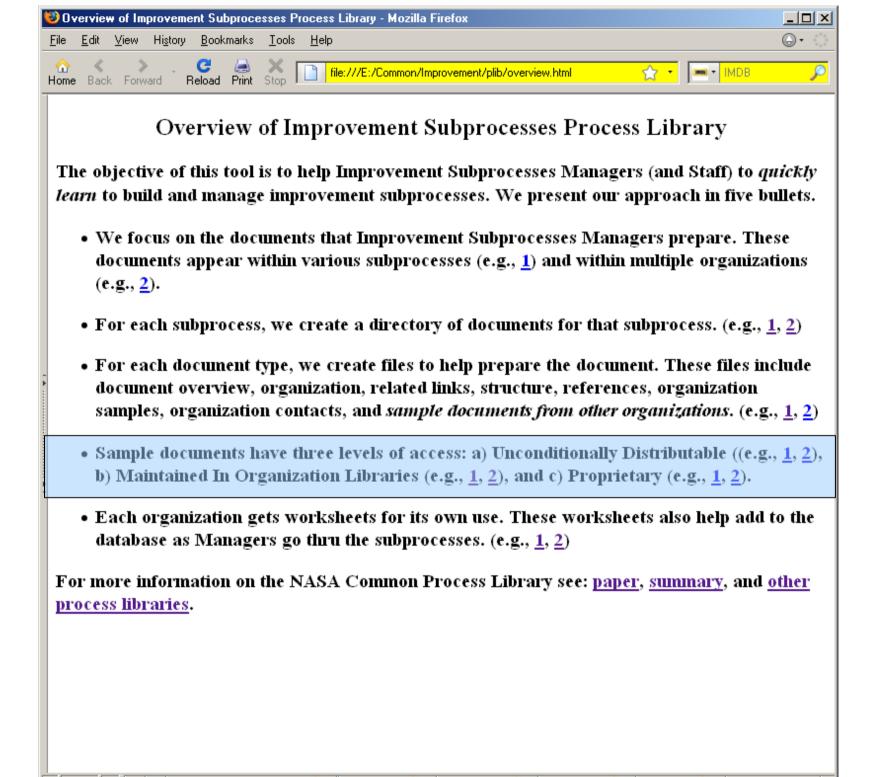
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Documents in Process Libraries have three levels of access.

- Unconditionally Distributable Documents. Here the document's hyperlink will point directly to the organization's document.
- Documents (On-Line/Off-Line) Maintained In Organization Libraries. Here the document's hyperlink will point into the organization's library maintaining the document.
- **Proprietary Documents.** Here the document's hyperlink will point to the organization's person/persons responsible for the document from whom permission must be obtained.

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Improvement Subprocesses Mana gement Using Process Libraries and Electronic Handbooks (Where Shakespeare Meets Freud)

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Dr. Barry E. Jacobs Code 690.1 NASA Goddard Space Flight Center Greenbelt, MD 20771, USA barry.e.jacobs@nasa.gov

0. Introduction

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In this paper, we deal with the important problem of managing complex distributed processes involving potentially thousands of participants. An example of such a process is the management of National Aeronautics and Space Administration (NASA) Datasets. Improvement Subprocesses is a key ingredient of NASA Flight Projects which are the heart of NASA. Managing complex distributed processes is difficult due to the complexity of the subprocesses, the diversity of views of different organizations, and the diversity of views of managers and participants taking part in the subprocesses.

An outline of the paper is as follows:

In Section 1, we examine common problems that arise in the management of complex distributed processes. In Section 2, we provide an overview of tools that are solutions to these problems. In Section 3, we provide examples of these tools. In Section 4, we outline some complex distributed processes in the Federal Government that are applications of the methodology.

1. Problems

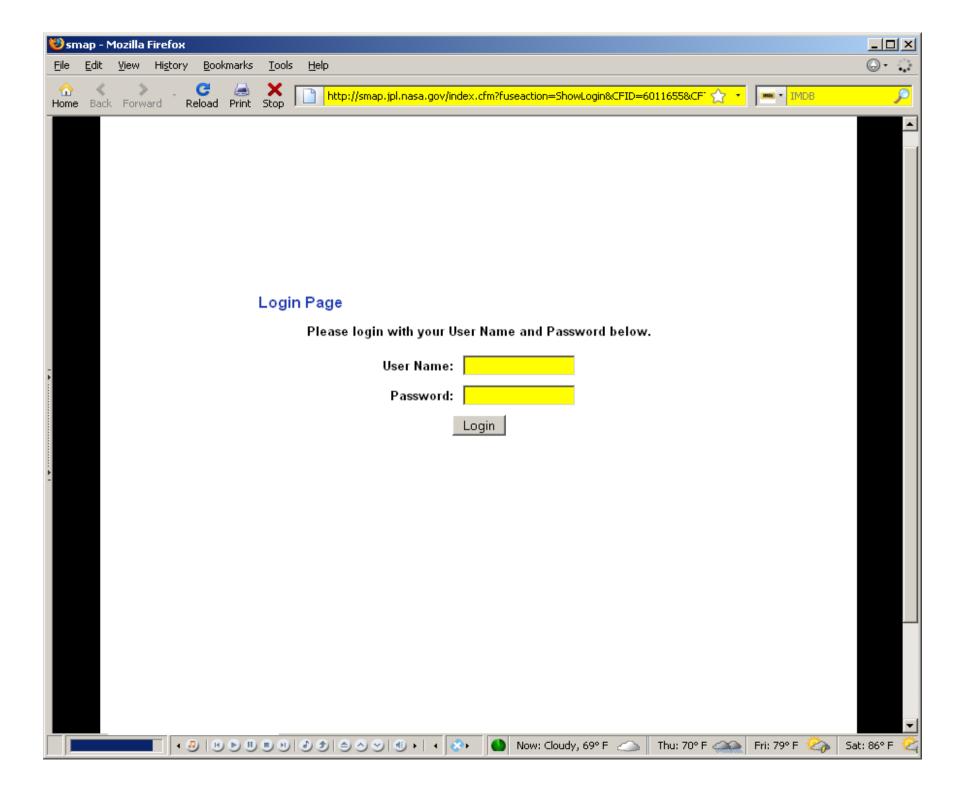
We discuss here some of the problems that are intrinsic to the management of complex distributed processes.

First, complex distributed processes tend to have lots of related subprocesses. For example, Figure 1(a) shows some of the subprocesses of Improvement Subprocesses. Notice that we organize the subprocesses into five categories: Product Realization, Product Distribution, Support, Improvement, and Common.

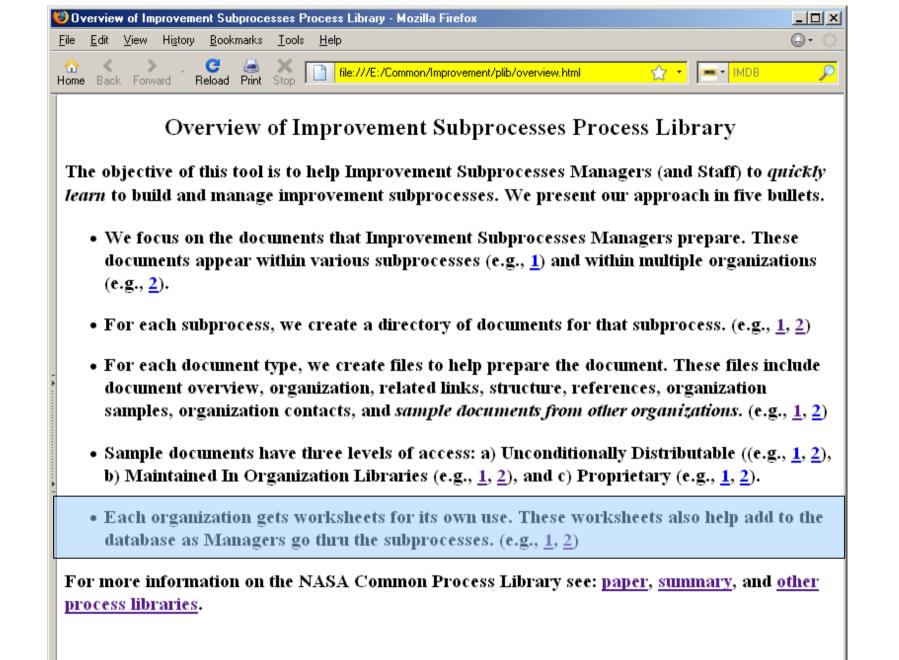
Second, for each subprocess, we tend to have multiple organizations, each having their own view of the subprocesses. For example, Figure 1(b) shows some of the organizations participating in the Improvement Subprocesses. In addition, there are also organizations that distribute the products that come out of the subprocesses as well as organizations that support and improve the subprocesses.

Third, within each subprocess organization, we have numerous managers and participants, each person having their own view of the subprocess. See Figure 1(c). It is very important that both managers and participants quickly learn and then establish integrated views for their roles in the subprocess.

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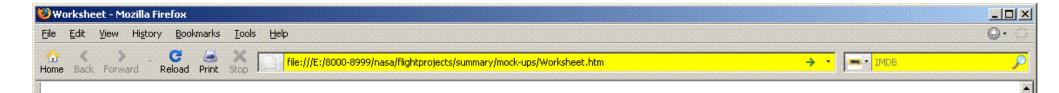


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Barry	
 Dr. Barry E. Jacobs	
Code 690.1	
NASA Goddard Space Flight Center Greenbelt, MD 20771	
barry.e.jacobs@nasa.qov	-



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Subprocess Worksheet

Classification: Improvement Subprocesses (T6-00-00-00) Subprocess Type:ISO-9001-2000 (T6-1-00-00)

Organization: IMAGE

				Estimated	Actual	Documents					
Task	Ршрозе	Suggested Roles	Task Lead(s)	Completion Date	Completion Date	Document	Instructions and Samples	Document Lead(s)	Estimated Completion Date	Actual Completion Date	Document Location(s)
Administration.	The purpose of this task is to administer Phase D: Project Development .	Task Lead, Subtask Lead, Subtask Lead, Mamber, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
		Phase D Manager, Project	James Green	06/23/07	06/23/07	Missile System Pre-Launch Safety Package (Update)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
		Manager, Program Manager, Organization Manager, Overall Projects Manager, Task Lead, Subtask Lead, Subtask Lead, Reviewer, Approval Official, Documents Manager				As-built Hardware and Software Documentation (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
Project Technical Produ	The purpose of this task is to provide Technical					Verification and Validation Report (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
inger febliga from	products for the Flight Project.					Operations Handbook (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Reviews	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Approvals	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Phase D Manager, Project Manager, Program				Work Agreement for Next Phase (Baseline)	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
Project Planning, Cost, Schedule Products	and The purpose of this task is to provide Planning, Cost, and Schedule products for the Flight Project.	Manager,	Tunner	07/23/07	078/23/07	Reviews	Instructions and Samples	James Green	06/23/07	07/23/07	<u>Library</u> : NS2034
		Task Lead, Subtask Lead, Reviewer,									

😻 Overview of Improvement Subprocesses Process Library - Mozilla Firefox									
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Overview of Improvement Subprocesses Process Library

The objective of this tool is to help Improvement Subprocesses Managers (and Staff) to *quickly learn* to build and manage improvement subprocesses. We present our approach in five bullets.

- We focus on the documents that Improvement Subprocesses Managers prepare. These documents appear within various subprocesses (e.g., <u>1</u>) and within multiple organizations (e.g., <u>2</u>).
- For each subprocess, we create a directory of documents for that subprocess. (e.g., $\underline{1}, \underline{2}$)
- For each document type, we create files to help prepare the document. These files include document overview, organization, related links, structure, references, organization samples, organization contacts, and *sample documents from other organizations*. (e.g., <u>1</u>, <u>2</u>)
- Sample documents have three levels of access: a) Unconditionally Distributable ((e.g., <u>1</u>, <u>2</u>),
 b) Maintained In Organization Libraries (e.g., <u>1</u>, <u>2</u>), and c) Proprietary (e.g., <u>1</u>, <u>2</u>).
- Each organization gets worksheets for its own use. These worksheets also help add to the database as Managers go thru the subprocesses. (e.g., <u>1</u>, <u>2</u>)

For more information on the NASA Common Process Library see: <u>paper</u>, <u>summary</u>, and <u>other</u> <u>process libraries</u>.

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Improvement Subprocesses Mana gement Using Process Libraries and Electronic Handbooks (Where Shakespeare Meets Freud)

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Dr. Barry E. Jacobs Code 690.1 NASA Goddard Space Flight Center Greenbelt, MD 20771, USA barry.e.jacobs@nasa.gov

0. Introduction

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In this paper, we deal with the important problem of managing complex distributed processes involving potentially thousands of participants. An example of such a process is the management of National Aeronautics and Space Administration (NASA) Datasets. Improvement Subprocesses is a key ingredient of NASA Flight Projects which are the heart of NASA. Managing complex distributed processes is difficult due to the complexity of the subprocesses, the diversity of views of different organizations, and the diversity of views of managers and participants taking part in the subprocesses.

An outline of the paper is as follows:

In Section 1, we examine common problems that arise in the management of complex distributed processes. In Section 2, we provide an overview of tools that are solutions to these problems. In Section 3, we provide examples of these tools. In Section 4, we outline some complex distributed processes in the Federal Government that are applications of the methodology.

1. Problems

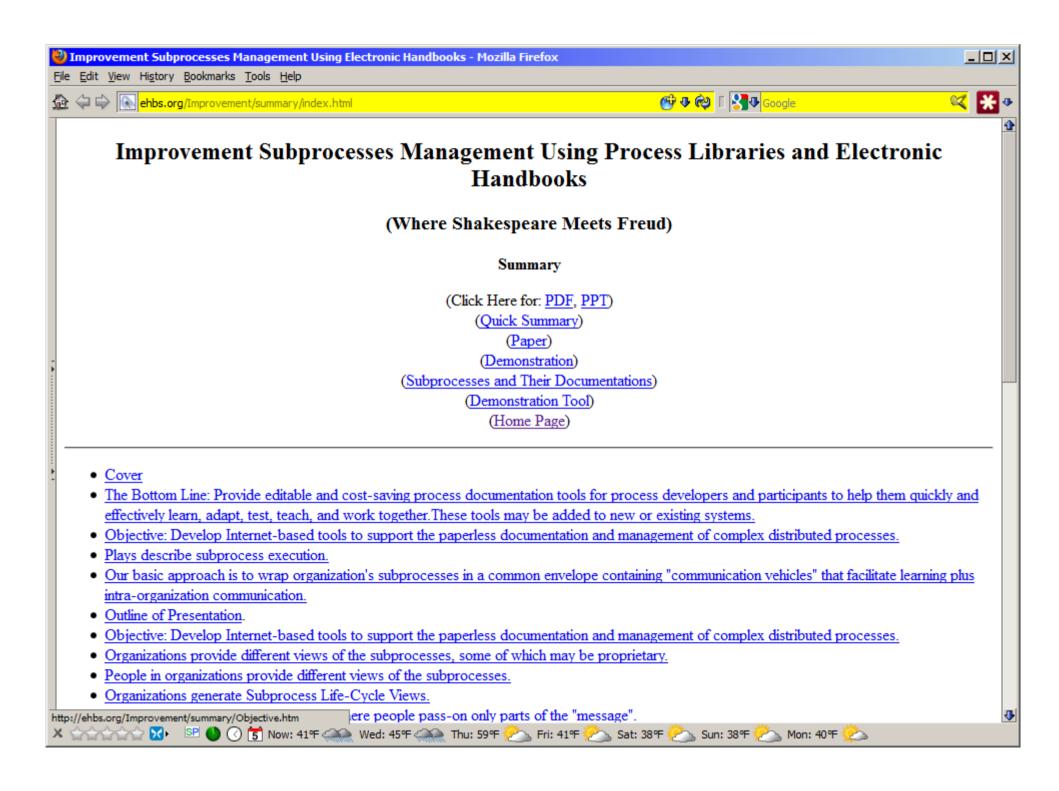
We discuss here some of the problems that are intrinsic to the management of complex distributed processes.

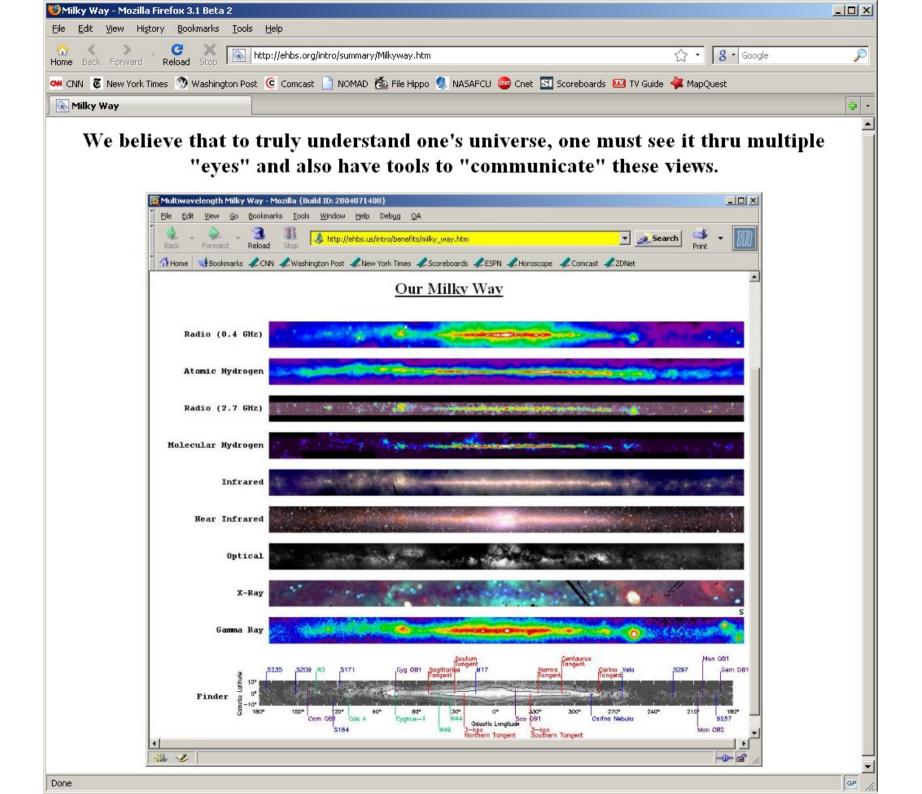
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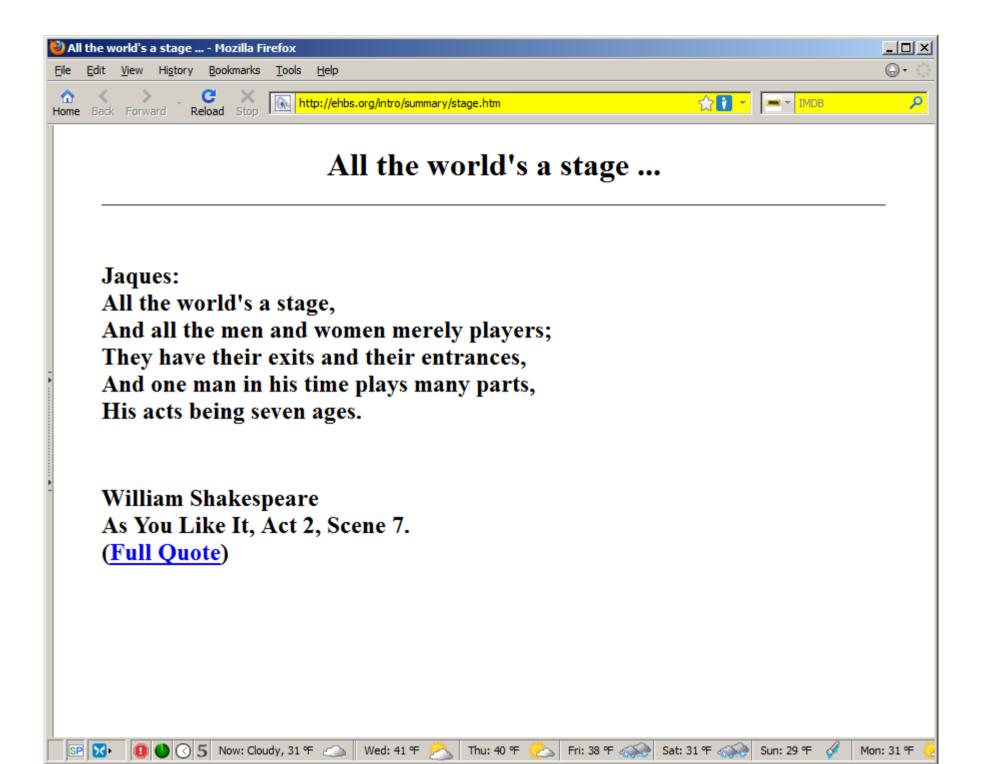
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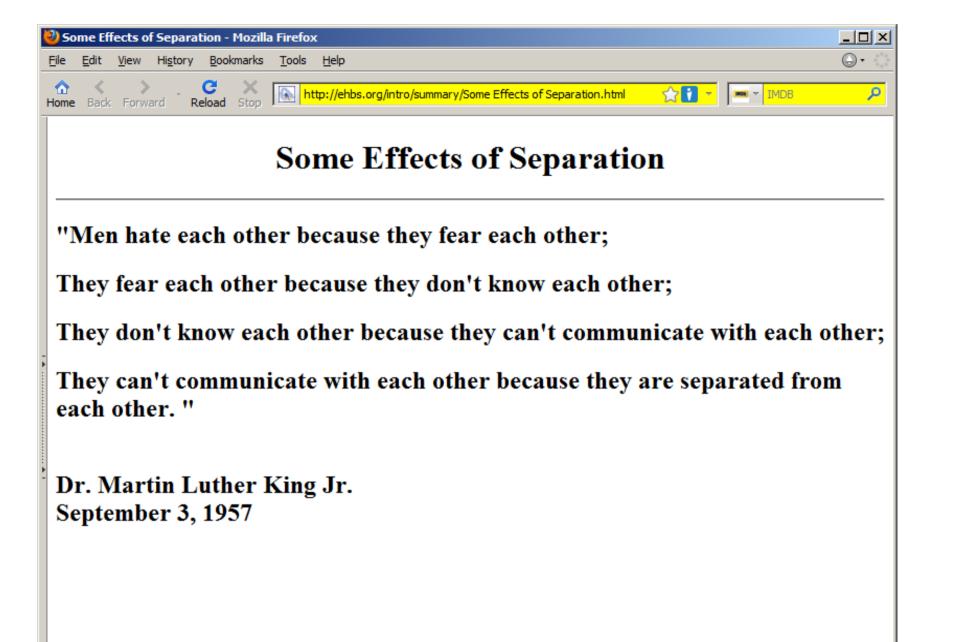
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For More Details

