NASA Documents Management Using Process Libraries and Electronic Handbooks (Where Shakespeare Meets Freud)

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

Abstract

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. Benefits are that it facilitates the collection of system and organizational requirements, does not anger/upset people whose opinions are heard, and it increases the interaction between managers, process developers, and participants. For each subprocess, an "Integration View" is the integration or combination of other subprocess views. An "Integration View" facilitates intra- and inter-organization communication. We illustrate using NASA Documents Management. 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. Simply speaking, we regard subprocesses as "plays" and let organizations put on productions of the "play". 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. In Section 5, we conclude with some final thoughts.

0. Introduction

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) Documents. NASA Documents is a key ingredient of NASA Flight Projects which are the heart of NASA. Managing complex distributed processes is difficult due to 1) the complexity of the subprocesses, 2) the diversity of views of different organizations, 3) the diversity of views of teachers, documentors, managers, implementors, and participants taking part in the subprocesses, 4) subprocess Live-Cycle views, and 5) the "Game of Telephone" syndrome.

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. See Figure 0 (a). Benefits are that it facilitates the collection of system and organizational requirements, does not anger/upset people whose opinions are heard, and it increases the interaction between managers, process developers, and participants. For each subprocess, an "Integration View" is the integration or combination of other subprocess views. See Figure 0 (b). An "Integration View" facilitates intra- and inter-organization communication.

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. Simply speaking, we regard subprocesses as "plays" and let organizations put on productions of the "play". 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. In Section 5, we conclude with some final thoughts.

Before going through the paper, the reader may want to first quickly look at some examples in Figures 3(a)-(p).

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 NASA Documents. 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. Some of these views may be proprietary. For example, Figure 1(b) shows some of the organizations participating in the NASA Documents. 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 eight "Play Development" stages. See Figure 1(c). These are 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.

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

Fifth, there are a number of subprocess Life-Cycle views that have to be dealt with in the management of subprocesses. See Figure 1(e). These factors reflect the Life-Cycle of organizations that participate in the subprocesses.

Sixth, as each person tries to pass-on their view of the subprocess, they omit details to the person(s) they are teaching. See Figure 1(f). This is called the The "Game of Telephone" Syndrome: Where People Pass-On Only Parts of the "Message".

Solutions to these problems are discussed in the next section. See Figure 1(g) for an overview of how editable and cost-saving process documentation tools can solve problems.

2. Solutions

We discuss here an overview of tools that are solutions to these problems.

Process Libraries (PLs) maintain organization's views of the subprocesses. See Figure 2(a). Here we have a section of the Process Library for a particular subprocess. Notice that there is a place for different organization's views of the subprocess. These will be described below.

Our basic approach is to wrap organization's subprocesses in a common envelope containing communication vehicles that facilitate intra- and inter-organization communication. See Figure 2(b). Notice that the envelope contains a number of items. Descriptions facilitate quick learning of the subprocess. Plays document the temporal flow of the subprocess and also have Implementation Mockups and Implementation versions. Documents define the documents used in the subprocess and also have Templates, Examples, Instructions, Implementation Mockups, and Implementation versions. Guidelines or Electronic Handbooks give user roles on how to participate in the subprocess and also have Implementation Mockups and Implementation versions. Worksheets facilitate the manager's monitoring of the subprocess and also have Implementation Mockups and Implementation versions. Contacts contain the names of the people who are able to answer questions about the subprocess. References provide alternative views of the subprocess. Credits provide the names of people who are part of the development of the organization's subprocess.

Some tools may be focused on during stages. See Figure 2(c).

Documents in Process Libraries have three levels of access. See Figure 2(d). Some documents are unconditionally accessible to all over the Internet via a hyperlink. Some documents need to be accessed only through an organization's library. Finally, some documents are proprietary and one needs individual permission to obtain them.

For each subprocess, an "Integration View" is the integration or combination of other subprocess views. An "Integration View" facilitates intra- and inter-organization communication.. See Figure 2(e).

Process Libraries are where Shakespeare meets Freud. See Figure 2(f). In Process Libraries, 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]. The approach uses a modernization of the Socratic Method or Dialogue to gain consensus between teachers, documentors, managers, implementors, and participants. See Figure 2(g).

Process Libraries and Electronic Handbooks (EHBs) methodologies have been used in a number of operational applications. See Figure 2(h). Here we see a number of different projects throughout the US Federal Government.

The subprocess Life-Cycle views in Figure 1(d) are supported. See Figure 2(i).

Basic people principles are supported. See Figure 2(j). The failure of a management system to follow these basic principles will generally result in people not utilizing the system.

Subprocess/Play Developments are supported. Subprocesses are built and revised using the play development paradigm over multiple productions. See Figure 2(k). This enables one to develop the subprocesses in stages and at each stage learn and modify the subprocesses.

Process Libraries operations are supported. See Figure 2(1). This outlines the ongoing operational maintenance and responsibilities for running the Process Library. Specifically, here we deal with the steps of organization formulation, implementation, customer support, evaluation, update and closeout.

3. Some Examples

We provide some examples of tools outlined above.

Process Libraries are organized by subprocesses. See Figure 3(a). Here we show one level of the Process Library which list the subprocesses. For each subprocess, the library shows how organizations view their subprocess. See Figure 3(b). Here we have a section of the Process Library for a particular subprocess. Notice that there is a place for different organization's views of the subprocess.

For each organization, an organization's view for a subprocess is comprised of several components. See Figure 3(c). Descriptions summarize subprocesses. See Figure 3(d). Plays describe subprocess execution or temporal flow. See Figure 3(e). Documents describe subprocess data. See Figure 3(f). Guidelines/Electronic Handbooks describe user subprocesses. See Figure 3(g). Subprocess Worksheets facilitate subprocess manager communication with process developers and participants. See Figure 3(h). References list other related resources. See Figure 3(i). Credits acknowledge people's contributions. See Figure 3(j). Some tools may be focused on during stages. See Figure 3(k).

In addition, several other tools are relevant. Integration Tools allow item types to be seen across different organizations. See Figure 3(l). Electronic Handbooks (EHBs) help participants learn and execute their roles. See Figure 3(m). Demonstration Tools introduce the concepts to a community in their terms. See Figure 3(n). Requirements Capture Tools (RCTs) facilitate subprocess development. See Figure 3(o). Improvement Tools facilitate subprocess improvement. See Figure 3(p).

4. Other Applications

We discuss here several applications where the above methodology has been applied. See Figure 2(h).

NASA Small Business Innovation Research (SBIR) Programs (<u>http://sbir.nasa.gov</u>). This program funds hundreds of small businesses all around the United States to develop and later market technology-based products. The NASA SBIR program constitutes roughly 50% of all of NASA's new annual contracts.

Department of Justice (DOJ) Bulletproof Vests Program (<u>http://www.ojp.usdoj.gov/bvpbasi/</u>). This program co-funds purchases of Bulletproof Vests for all eligible law enforcement agencies and

jurisdictions across the United States and its territories. The Bulletproof Vests system was the 1999 Gold Award Winner of the Federation of Government Information Processing Councils (FGIPC) Intergovernmental Open Systems Solutions (IOSS) Awards program.

Department of Justice (DOJ) Block Grants Program (<u>http://www.ojp.usdoj.gov/bvpbasi/</u>). This program funds all eligible law enforcement agencies and jurisdictions across the United States and its territories and is one of the largest programs in the Department of Justice's Bureau of Justice Assistance.

Department of Health and Human Services (HHS) Health Resources Services Administration (HRSA) Grants (<u>http://www.hrsa.gov/</u>). This process represents hundreds of Health Resources Services Administration's grant programs. These programs fund doctors, nurses, hospitals all across the United States and its territories.

Federal Emergency Management Administration (FEMA) Grants (<u>http://www.fema.gov/</u>). This process represents hundreds of Federal Emergency Management Administration's grant programs. These programs fund disaster assistance all across the United States and its territories.

5. Summary

In this paper, we dealt with the important problem of managing complex distributed processes involving potentially thousands of participants. In Section 1, we examined common problems that arise in the management of complex distributed processes. In Section 2, we provided an overview of tools that are solutions to these problems. In Section 3, we provided some examples of these tools. In Section 4, we outlined some complex distributed processes in the Federal Government that are applications of the methodology.

We conclude with some final remarks. As is seen throughout this discussion, we believe that to truly understand one's universe, one must see it thru multiple "eyes" and also have tools to "communicate" these views. See Figure 4(a). As William Shakespeare said "All the world's a stage ...". See Figure 4(b). Finally, Dr. Martin Luther King Jr. described some effects of separation. See Figure 4(c).

For more information about Process Libraries and Electronic Handbooks, see <u>http://ehbs.us.</u> For more papers on other applications, see <u>http://ehbs.us/papers</u>.

References

FGIPC. Bulletproof Vests System Wins FGIPC's 1999 GOLD IOSS AWARD" Federation of Government Information Processing Councils (FGIPC), June 22, 1999.

Friel, Brian. Contract Cybernauts. Government Executive Magazine, August 17, 1997.

Gugliotta, Guy, NASA Sets Sights on a 'Paperless' Planet. Washington Post (A11), August 19, 1997. (Federal Page)

Hendrix , Susan M.. Department of Justice Invests In Goddard Technology. Goddard News, Goddard Space Flight Center, National Aeronautics and Space Administration, December 17, 1999.

Harreld, Heather. NASA's Electronic Handbooks Offer Paper-Free Management. Federal Computer Week, August 18, 1997.

Johnson, Doug. Justice Department to Use Internet to Help Protect Officers. United States Department of Justice Press Release, April 19, 1999. (Photograph)

Makulowich, John. NASA E-Commerce Solution Gains Attention. Washington Technology, October 8, 1998.

NASA. NASA Tames a Paper Beast. NASA Tech Briefs. January 1998

Steigerwald, William. Time and Cost Savings Result From Internet Software Tool Developed For Electronic Process Management. National Aeronautics and Space Administration/ Goddard Space Flight Center Press Release. August 1, 1997.

USFA Press Release "Over 19,500 Applications Received For Firefighters Grant Program", April 15, 2002.

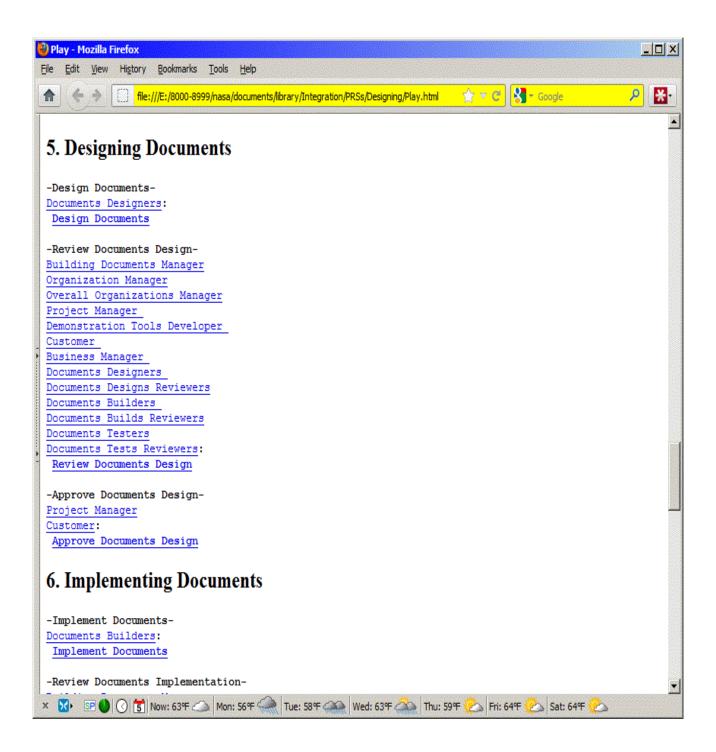


Figure 0 (a). Plays describe subprocess execution.

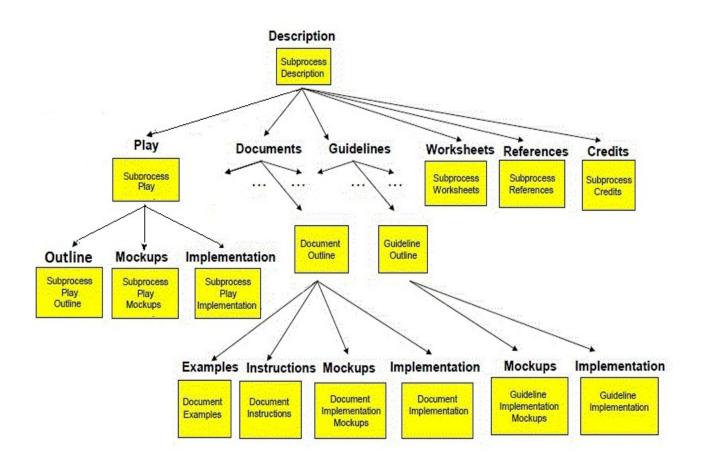


Figure 0 (b). For each subprocess, an "Integration View" is the integration or combination of other subprocess views.

Subproce <u>Fi</u> le <u>E</u> dit			x marks <u>T</u> ools	: <u>H</u> elp							
fome Back	> Forward	- C Reload	X Stop	http://lincoln.gsfc.na	sa.gov/documen	ts/whatare/proc	ess.htm	†	•	Webster	٩
					Docum	<u>ents</u>					<u>•</u>
				P	roduct Realizat	ion Subprocess	es*				
Integrated Problems- Solutions Database	Planning Docments		ent Submissi m	ion Handling Requi	irements Docu		nts Document	Improving s Documents	Revising Documents	Closing Documents	Post-Clo
				(Potent	tial Customers:	Flight Projects)				
				Deede	et Distribution	C					_
				Frod		Subprocesses					_
	rated Proble tions Datab		Planning stributions	Distribution Faci Solicitation Develop				-	ement Po eout	st-Agreemen Closeout	t
				(Poten	tial Customers:	Flight Projects)				
					Support Subp						
	ſ		Computer	Computer				Small			
	נ	Survey Managemer	Systems Development	Systems H	ome Page a anagement Ou	cation nd Faciliti ivities Managen		Systems	alizations		
						-					
				ISO 9001: 200	nprovement Su 10 CMMI- St	aged CM	MI- nuous				
		[C						
			Organization	Organization	Common Subp Organization	orocesses Organization O	rganization	rganization			
			Subprocess Formulation	Subprocess Implementation				Subprocess Closeout			
.1											
GP (03	Now: Sunr	w 82 0⊑ 🆄	Sat: 87 %	Sun: 85 ºF	🧭 Mon: 80	0E 🐥 T.	e: 85 % 🥐	Wed: 84		▶ Thu: 81 약 🕴
		NOW: SUM	iy, oz + 👾	3au 07 + 🔨	Sun op -		· *	e. os r 🦢	5 Weu. 04		nu: 01 -F

Figure 1(a). Subprocesses.

😻 NASA Docun	nents Organizations - Mozilla Firefox	
<u>File E</u> dit <u>V</u> ie	w <u>G</u> o <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	0
😚 👍 • 🖒	👻 🔗 📧 http://lincoln.gsfc.nasa.gov/nasadocuments/whatare/Organizations.htm 🔽 💷	🔘 🔘
	NASA Documents Organizations	
	NASA Documents Organizations	
	Product Realization Subprocesses Organizations	
	ARC Documents Office	
	DFRC Documents Office	
	GRC Documents Office	
	GSFC Documents Office	
	HQ Documents Office	
	JPL Documents Office	
	JSC Documents Office	
	KSC Documents Office	
	LaRC Documents Office	
	MSFC Documents Office	
	Office of Exploration Systems Documents Offices	
	Office of Aeronautics Research Documents Offices	
	Office of Science Documents Offices	
	Office of Space Operatons Documents Offices	
	Documents PMO Office	
	SSC Documents Office	
	Product Distribution Subprocesses Organizations	
	ARC Documents Office	
	DFRC Documents Office	
	GRC Documents Office	
	GSFC Documents Office	
	HQ Documents Office	
	JPL Documents Office	
	JSC Documents Office	
	KSC Documents Office	
	LaRC Documents Office	
izations - Paint	🕹 EHBs Home Page 🔞 NASA Document 🕲 🕲 🚷 🔼 🏈 😒 🕗 🧐 🔌 🧐 🦑 🥵 🤣 🤌 🥐	
1		

Figure 1(b). Subprocess organizations.

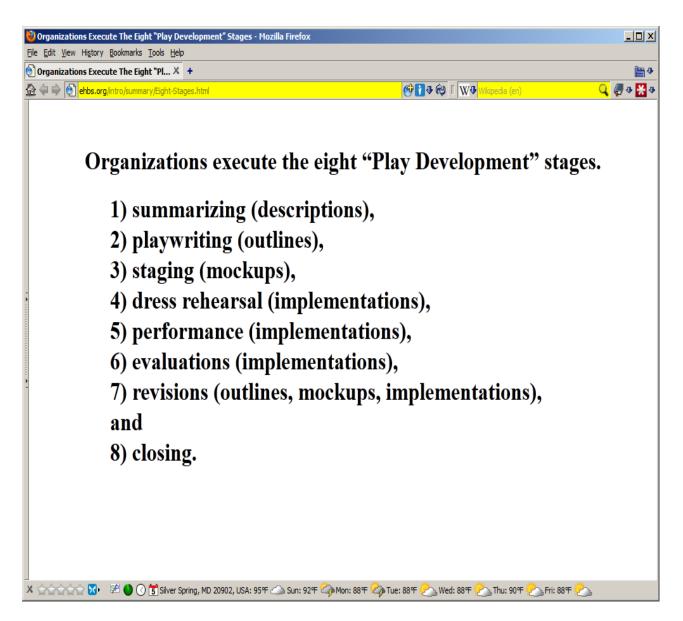


Figure 1(c). The eight "Play Development" stages.



Figure 1(d). People in organizations provide different views of the subprocesses.

😔 Organizations Generate Subprocess Life-Cycle Views - Mozilla Firefox
<u>File Edit Vi</u> ew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp
🏠 🗇 🖗 ehbs.org/intro/summary/Important Human Factor Issues/
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 ar 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.
* Also, called the "Universal Subprocess".

Figure 1(e). Subprocess Life-Cycle Views.

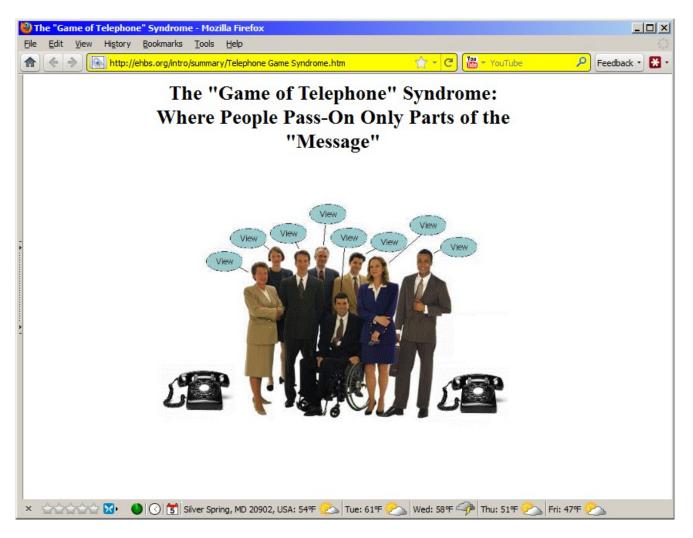


Figure 1(f). The "Game of Telephone" Syndrome: Where People Pass-On Only Parts of the "Message".

) <mark>eh</mark>	solutions/	🞯 🚺 🌣 🟟 ք 🚼 🥵 Google	<mark>) 🤤</mark> 🖉
	Overview of how	editable and	
	cost-saving process documentati	on 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.	

Figure 1(g). Overview of How Editable and Cost-Saving Process Documentation Tools Can Solve Problems.

e Edit View Go Bookmarks Tools Help	
: 🗇 👻 🔗 🖉 🔘 📔 file:///E:/8000-8999/nasa/documents/summary/mock-ups/Views.htt 🗾 💽	GSpace 🕥
I CNN 🖤 Wash Post 👅 NY Times 🖤 Horoscope 🔜 Scoreboards 🔟 NASAFCU 💽 Comcast 👘 Bandwidth 🐔	File Hippo 📄 ZDNet
Dogle + 🔄 🕂 🕼 Search + 🔍 💼 M 🥝 🌍 🧭 PageRank 💞 Check + 🔍 Autol	Link 🔝 Subscribe 🔹 🗙
Views	
Total 11 Entries	
Classification: Product Realization Subprocesses (T4-00-00-00)	
Subprocess: Designing Documents (T4-3-00-00)	
Create View	
View	Steps
	11-1-1-
ARC Documents Office	Update
Lee, Geoff (geoff.lee@nasa.gov)	Сору
Lee, Geoff (geoff.lee@nasa.gov) Fetch	Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office	Copy Delete Update
Lee, Geoff (geoff.lee@nasa.gov) Fetch	Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office	Copy Delete Update Copy Delete Update
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov)	Copy Delete Update Copy Delete Update Copy
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch	Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office GSFC Documents Office	Copy Delete Update Copy Delete Update Copy Delete Update
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch	Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov)	Copy Delete Update Copy Delete Update Copy Delete Update Copy
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office Ray, Carl G. (carl.g.ray@nasa.gov)	Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office	Copy Delete Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office Ray, Carl G. (carl.g.ray@nasa.gov) Fetch JPL Documents Office	Copy Delete Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office Ray, Carl G. (carl.g.ray@nasa.gov) Fetch JPL Documents Office Schober, Wayne R. (Wayne.R.Schober@jpl.nasa.gov)	Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office Ray, Carl G. (carl.g.ray@nasa.gov) Fetch JPL Documents Office Schober, Wayne R. (Wayne.R.Schober@jpl.nasa.gov) Fetch	Copy Delete Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete
Lee, Geoff (geoff.lee@nasa.gov) Fetch DFRC Documents Office Bogue, Rodney (rod.bogue@nasa.gov) Fetch GRC Documents Office Kim, Walter S. (walter.s.kim@nasa.gov) Fetch GSFC Documents Office Chern, Dr. E. James (Engmin.J.Chern@nasa.gov) Fetch HQ Documents Office Ray, Carl G. (carl.g.ray@nasa.gov) Fetch JPL Documents Office Schober, Wayne R. (Wayne.R.Schober@jpl.nasa.gov)	Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete Update Copy Delete

Figure 2(a). Process Library.

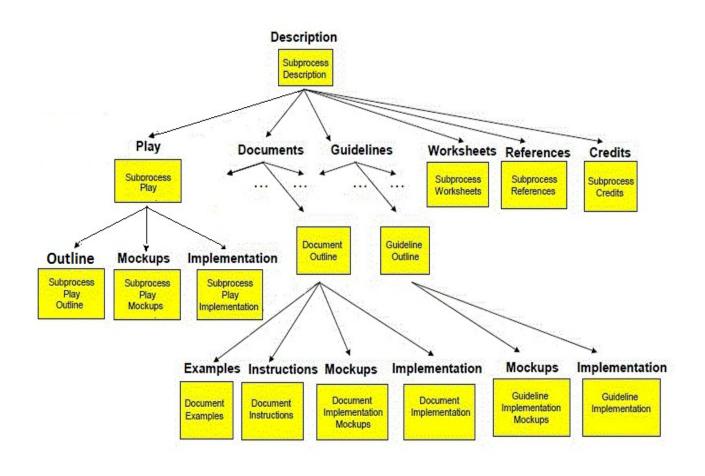


Figure 2(b). Subprocesses in a common envelope.

🕘 Tools To Focus On During Stages Mozilla F	irefox			
Eile Edit View History Bookmarks Tools Help				
🟠 🗇 🔿 💽 ehbs.org/intro/summary/stages1.htm	l		🏭 👔 🖗 🕂 🛛 🔀 🖓 Goog	ile 🔍 🤣 🕫 🔀 🥹
	То	ols To Focus On Durin	g Stages- By Tool.	او
	Tool	Process Developer	Process Participant	
	Descriptions	Learn, Integrate, Test, Teach, Work Together	Lesru, Integrate Document: Uing Role Guidelines/ZHBs, Test, Tesch, Work Together	
	Plays	Learn, Integrate, Test, Teach, Work: Together	Lesrn, Integrate Document: Uing Role Guidelines/EHBs, Test, Tesch, Work Together	
	Documents	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document: Using Role Guidelines/EHBs, Test, Tesch, Work Together	
b	Role Guidelines/EHB:	Learn, Integrate, Test, Tesch, Work: Together	Learn, Integrate Document: Uing Role Guidelines/ZHBs, Test, Tesch, Work Together	
	Subprocess Workzheets	Lesrn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document: Uing Role Guidelines/EHBs, Test, Tesch, Work Together	
	References	Learn, Integrate, Test, Tesch, Work Together	Lesru, Integrate Document: Using Role Guidelines: ZHBs, Test, Tesch, Work Together	
	Credits	Learn, Integrate, Test, Tesch, Work Together	Learm, Integrate Document: Using Role Guidelines: THBs, Test, Teach, Work Together	

Figure 2(c)(1). Some tools may be focused on during stages- by tool.

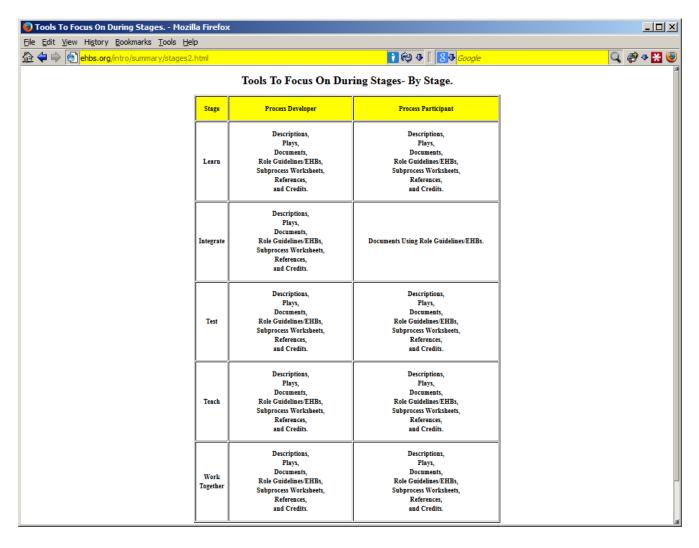


Figure 2(c)(2). Some tools may be focused on during stages- by stage.

🕲 Document Access in Process Libraries Mozilla Firefox	
<u>File Edit Vi</u> ew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
🟠 🔄 🔹 🖗 🗸 🚱 1/2 • 💽 http://ehbs.org/intro/summary/documents.htm 🔹 🕨 👿 • Wikipedia (English)	Q
🗪 CNN 💈 New York Times 🥂 Washington Post 🤄 Comcast 🧲 NOMAD 🐔 File Hippo 🕟 Summaries 🕟 Process Libraries 📄 NASAFCU 🕑 Che	et »
Google) Settings+
🕒 💽 EHBs Home Page 💿 💽 Document Access in Process Libr 🔯	- 🖬
Documents in Process Libraries have three levels of access.	
• Unconditionally Distributable Documents. Here the document's hyperlink will po directly to the organization's document.	int
• Documents (On-Line/Off-Line) Maintained In Organization Libraries. Here the document's hyperlink will point into the organization's library maintaining the docum	
• Proprietary Documents. Here the document's hyperlink will point to the organization person/persons responsible for the document from whom permission must be obtained.	
Done 🚺 💽 Now: Snow, 32° F 🚓 Thu: 38° F 🖄 Fri: 37° F 🕋 Sat: 44° F 🖄 Sun: 44° F 🦄 Mon: 49° F	🍋 <i>1</i> .

Figure 2(d). Documents in Process Libraries have three levels of access.

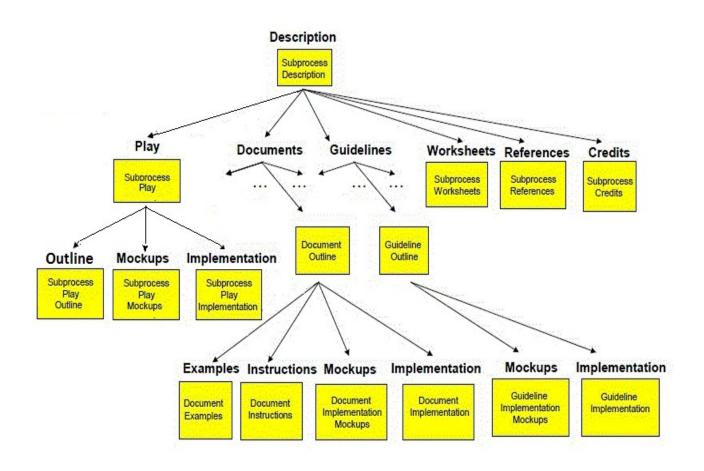


Figure 2(e). For each subprocess, an "Integration View" is the integration or combination of other subprocess views. An "Integration View" facilitates intra- and inter-organization communication.

Image: Interpretent and the same families of the same families of the same family, different families from different subprocesses. Documentors also serve as "family therapists". [Freudian]	🕙 Shakespeare Meets Freud - Mozilla Firefox 4.0 Beta 3	_ 🗆 🗙
 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] 		
 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] 	Shakespeare Meets Freud	
 "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] 	Handbooks (EHBs) are where Shakespeare	
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]	"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 "playwrigh	ts".
Done	Subprocess "plays" and its "components" provide communication vehicles between members of the same family, different families, and families from	
Done		
	Done	

Figure 2(f). Process Libraries (PLs) and Electronic Handbooks (EHBs) are where Shakespeare meets Freud.

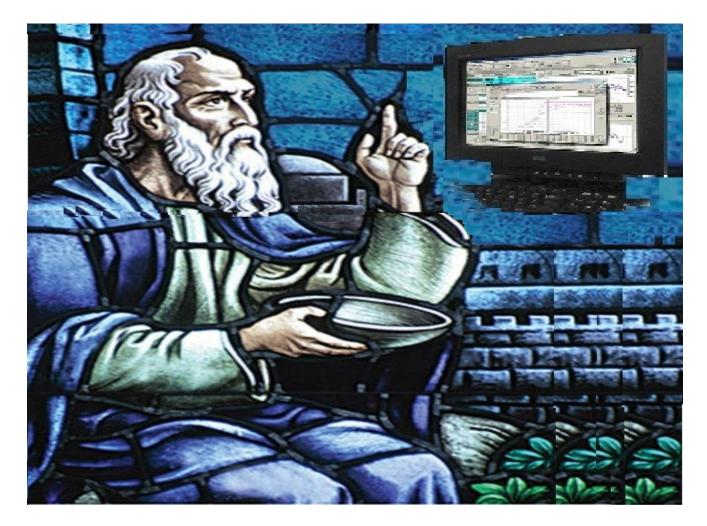


Figure 2(g). The approach uses a modernization of the Socratic Method or Dialogue to gain consensus between teachers, documentors, managers, implementors, and participants.

Elle Edit Yiew Go Bookmarks Loois Help Image: Second Seco	1
DOI's Screen AVailable and Exchange-Sales (SAVES)- Property Bandwidth Test DOI's Screen AVailable and Exchange-Sales (SAVES)- Property DOJ's Bulletproof Vests Partnership Program (BVP)- Grants DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants	
Some Applications DOI's Screen AVailable and Exchange-Sales (SAVES)- Property DOJ's Bulletproof Vests Partnership Program (BVP)- Grants DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	
DOI's Screen AVailable and Exchange-Sales (SAVES)- Property DOJ's Bulletproof Vests Partnership Program (BVP)- Grants DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	>
DOJ's Bulletproof Vests Partnership Program (BVP)- Grants DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	
DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	
DOJ's Office of Justice Program IT Inititives (OJP IT) - Grants DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	
DOJ's Southwest Border Patrol Initiative (SWBPI) - Grants Federal Emergency Management Administration (FEMA) - Grants	
Federal Emergency Management Administration (FEMA) - Grants	
FEMA's US Fire Administration (USFA)- Grants	
HHS's Health Services Resources Administration (HRSA) - Grants	
NASA's Earth Sciences Technology Office (ESTO)- Contracts	
NASA's Educational Program Data Collection and Evaluation Program (EDCATs) - Program Evaluations	
NASA's Small Business Innovation Research (SBIR)- Contracts	
USDA's Emergency Response Information System (ERIS) - Grants	İ.
USDA's Integrated Item Tracking System-Reagents Ordering-Shipping System (IITS-ROSS) - Grants	
USDA's Karnal Bundt Information System (KBIS) - Grants	
one · · · · · · · · · · · · · · · · · · ·	

Figure 2(h). Some Process Libraries (PLs) and Electronic Handbooks (EHBs) projects.

🕹 Subprocess Life-Cycle Views that are supported. * - Mozilla Firefox		
<u>File Edit View History Bookmarks Tools H</u> elp		
🏠 <table-cell-rows> 🗇 💽 <mark>ehbs.org</mark>/intro/summary/benefits.htm</table-cell-rows>	👔 🟟 🗣 🛛 🔀 🗣 Google	Q 🤣 🕂 🔡
Subprocess Life-Cyc	cle Views that are supported.	
 Organization subprocess teachers want to quickly learn, integrate, test, and teach the subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then lear 		
 Organization subprocess documentors want to quickly learn, integrate, test, and test subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then lear 		
 Organization subprocess managers want to quickly learn, integrate, test, and teach subprocess Plays/Documents/Guidelines/Worksheets in the Process Library and then lear 		
Organization subprocess implementors want to quickly learn, integrate, test, and te organization subprocess Plays/Documents/Guidelines/Worksheets in the Process Library	• • • • •	
 Organization subprocess participants want to quickly learn, integrate, and perform subprocess view Guidelines. 	n tasks that are part of their views. (Critical) Organization subprocess particip	pants study the steps of their organization
 Organization subprocess managers want to quickly monitor execution of tasks that subprocess Plays/Documents/Guidelines/Worksheets. 	t are part of their views. Organization subprocess managers monitor the execut	tion of tasks using their organization
 Organization subprocess teachers, documentors, managers, implementors, and par managers, implementors, and participants update, test, and teach their organization subpro- subprocess. 		ration subprocess teachers, documentors,
 Organization subprocess teachers, documentors, managers, implementors, and par documentors, managers, implementors, and participants update, test, and teach using oth 		
 Organization subprocess teachers, documentors, managers, implementors, and par managers, implementors, and participants update, test, and teach their organization subpro- subprocess of the subprocess of the subproce		ion subprocess teachers, documentors,
 Organization subprocess implementors want to quickly update, test and teach tools tools using requirements from Plays/Documents/Guidelines/Worksheets in the Process L 		s implementors update, test, and teach
Organization subprocess teachers, documentors, managers, implementors, and par documentors, managers, implementors, and participants archive their organization subpr		ted. Organization subprocess teachers,
The Key Human Factor Issue: Communication Within and Across Organizations. organization communication.	Organization subprocess Plays/Documents/Guidelines/Worksheets in Process Li	ibraries facilitate intra- and inter-

Figure 2(i). The Subprocess Life-Cycle Views are supported.

🐸 Basic People Principles that are supported - Mozilla Firefox	
<u>File Edit View History Bookmarks Tools H</u> elp	.
Image: Constraint of the second stop Constraint of the second stop Image: Constraint of the second stop Image: Constraint of the second stop Mome Back Forward Constraint of the second stop Image: Constraint of the second stop	٩
Basic People Principles that are supported.	
• Subprocesses determine tools. The approach supports people doing their jobs as they see it. Forcing additional tools on people only adds more burdens to their jobs and they will likely ignore them. Additional requirements should be integrated into existing subprocesses.	
• Everyone's subprocesses should be supported as best as possible. The approach supports people see their jobs differently. This is often a good thing for subprocess improvement.	eing
• Tools are role-based so that data is collected during subprocess execution. As people partake in the subprocesses, the approach supports data entry in the system. If data collection is done after the fact, the q of the data generally suffers.	
• Tools are people-based so that users require minimal training. The approach helps people to determ which steps to use. For each of the substeps (i.e., forms and documents), the approach should have clear templates, instructions, and samples.	ine
• Tools are web-based so that users can easily partake. The web-based approach supports the reduced to install special software on user's computers. This is especially important in the case where the number of participants is large.	1 need
• Everyone helps build the tools. The approach supports joint ownership in the subprocesses and the under systems which is crucial for overall acceptance.	erlying
🔄 😒 🚺 🕐 🕜 5 Now: Cloudy, 32 ९ 🥧 🛛 Tue: 38 ९ 🐑 Wed: 43 ९ 🖄 Thu: 47 ९ 🔅 Fri: 52 ९ 🔅	Sat: 44 ºF

Figure 2(j). Basic People Principles that are supported.

🕙 Subprocess/Play Developments that are supported - Mozilla Firefox	
<u>File Edit View History Bookmarks Tools H</u> elp	<u>.</u>
	٩
Subprocess/Play Developments that are supported	1.
 Presentation & Paper/Marketing. The approach supports presentation & paper/marketing using the conte Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits. 	nts of
 Worksheet/Outlining. The approach supports worksheet/outlining using the drafting of Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits. 	
 Temporal Flow/Playwriting. The approach supports temporal flow/playwriting using the drafting of Descript Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits. 	tions,
• Examples/Rehearsal. The approach supports examples/rehearsals using the mockups of Descriptions, Play. Documents, Guidelines, Worksheets, Contacts, References, and Credits.	S.,
• Implementation/Staging. The approach supports implementation/staging using the building of Descriptions, Documents, Guidelines, Worksheets, Contacts, References, and Credits.	Plays,
• Utilization/Performance. The approach supports users utilization/performance using execution of Description Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.	ns,
 Revision/New Production. The approach supports revision/new production using updates of the Description Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits. 	ns,
 Closeout/End Production. The approach supports closeout/ end performance using storage of the Description Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits. 	ons,
🔄 🔄 🚺 🕑 🕢 5 Now: Cloudy, 32 °F 🥧 🛛 Tue: 38 °F 🖄 Wed: 43 °F 🖄 Thu: 47 °F 🌼 Fri: 52 °F 🔅 Sa	at: 44 ºF 🕴

Figure 2(k). Subprocess/Play Developments that are supported.

🕙 Process Library Operations that are supported - Mozilla Firefox	
<u>File E</u> dit <u>Vi</u> ew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	•
	٩
Process Library Operations that are supported.	
 Organization Subprocess Formulation. The approach supports the introduction of new organizations and their subprocesses into the library. 	
 Organization Subprocess Implementation. The approach supports implementation of common tools for organi the library. 	zations in
Organization Subprocess Customer Support. The approach supports user requests for the library.	
Organization Subprocess Evaluation. The approach supports organization subprocess evaluations.	
 Organization Subprocess Update. The approach supports the updating of organizations and their subprocesses library. 	in the
 Organization Subprocess Closeout. The approach supports the closeouts of organizations and their subprocess the library. 	es from
🔄 😒 🚺 🌒 🕐 5 Now: Cloudy, 34 ९ 🥧 Tue: 38 ९ 🐑 Wed: 43 ९ 🐑 Thu: 47 ९ 🔅 Fri: 52 ९ 🐑 Sat: 44	ণ্F 🏊 s

Figure 2(1). Process Libraries Operations that are supported.

Č	NASA Documents Process Library - Mozilla Firefox	
F	Eile Edit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	⊖∙ି
F	tome Back Forward Reload Stop I I Intp://lincoln.gsfc.nasa.gov/documents/plib/ ☆ 🚺 🔹 Webster	٩
	NASA Documents Process Library	<u> </u>
	Overview (Demo)	
	Integrated Problems-Solutions Database	
	Documents Development Facility Guidelines Development	
	Planning Documents	
- 4 -	Solicitation Development	
	Submission	
	Handling	
	Gathering Requirements	
-	Designing Documents	
	Building Documents	
	Using Documents	
	Improving Documents	
	Revising Documents	
	Closing Documents	
	Post-Closeout	•
Ĺ	🕼 🚺 🕐 🚺 5 Now: Sunny, 79 4 🔅 Sat: 87 4 🏡 Sun: 85 4 🗞 Mon: 80 4 6 6 7 8 7 4 7 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Thu: 81 %F 🕴

Figure 3(a). Process Libraries are organized by subprocesses.

Views - Mozilla Firefox	
e Edit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp	
ì 🖙 ▾ 🖏 ▾ 🥰 🛞 📔 file:///E:/8000-8999/nasa/documents/summary/mock-ups/Views.hti 🔽 🔤	GSpace 🕥 (
🎙 CNN 💿 Wash Post 🔞 NY Times 💿 Horoscope 🤜 Scoreboards 🔃 NASAFCU ⓒ Comcast 💿 Bandwidth 🚳 i	
pogle 🗸 🔽 🚽 💽 Search 🛛 🍭 💼 🗹 🥝 🥯 PageBank 🎸 Check 🕶 📉 Autoli	ink 🔝 Subscribe 🔹 🎽
Views	
Views	
Total 11 Entries	
Classification: Product Realization Subprocesses (T4-00-00-00) Subprocess: Designing Documents (T4-3-00-00)	
Subprocess. Designing Documents (14-3-00-00)	
Create View	
View	Steps
ARC Documents Office	Update
Lee, Geoff (geoff.lee@nasa.gov) Fetch	Copy Delete
DFRC Documents Office	Update
Bogue, Rodney (rod.bogue@nasa.gov)	Сору
Fetch GRC Documents Office	Delete Update
Kim, Walter S. (walter.s.kim@nasa.gov)	Copy
Fetch	Delete
<u>GSFC Documents Office</u> Chern, Dr. E. James (Engmin.J.Chern@nasa.gov)	Update Copy
Fetch	Delete
HQ Documents Office	Update
Ray, Carl G. (carl.g.ray@nasa.gov) Fetch	Copy Delete
JPL Documents Office	Update
Schober, Wayne R. (Wayne.R.Schober@jpl.nasa.gov)	Copy
Fetch JSC Documents Office	Delete Update
Krishen, Dr. Kumar (kumar.krishen-1@nasa.gov)	Copy
Krishen, Dr. Kumar (kumar.krishen-1@nasa.gov) Fetch ne	Delete

Figure 3(b). For each subprocess, the library shows how organizations view the subprocess.

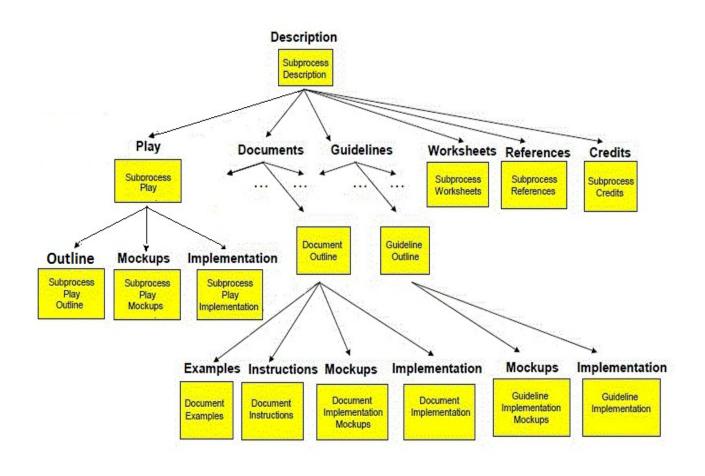


Figure 3(c). Components of an Organization's view .

🕗 Description - Mozilla Firefox
Eile Edit View Higtory Bookmarks Tools Help
to Back Forward Reload Stop Mttp://ehbs.org/nasaDocuments/library/Integration/PRSs/Designing Documer 🏠 🚺 📩 IMDB 🔑
애 CNN 👸 New York Times 🕅 Washington Post 🧲 Comcast 📋 OOWA 🍕 NASAFCU 🚳 File Hippo 🍩 Cnet S Scoreboards 🔛 TV Guide 梯 MapQuest
Google 🔄 🛃 Search 🔹 🖗 👘 🍘 🛪 🏫 🏠 Bookmarks* 📼 * 🔦 AutoLink * 📔 AutoFill * 🌽 👘 🖏 * 🔘 Sign in
Designing Documents 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 Designing Documents. This is where Projects design, build, and test their Documents.
Organization: ORG
<u>All-Files</u> . These are all the view files. Benefits
2. Play
In this subprocess, the play is divided in several parts:
🖙 🐼 🕚 🔇 5 Now: Mostly Sunny, 67 °F 🗞 Mon: 73 °F 🦟 Tue: 78 °F 🧞 Wed: 79 °F 🏡 Thu: 78 °F 🧞 Fri: 81 °F 🧞 Sat

Figure 3(d). Descriptions summarize subprocesses.

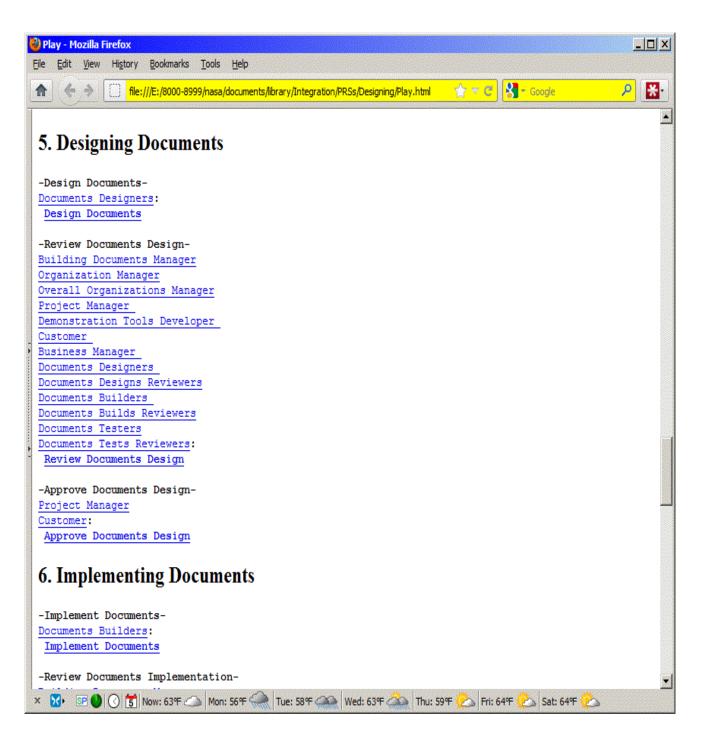


Figure 3(e). Plays describe subprocess execution.

🕗 Description - Mozilla Firefox	
Eile Edit View Higtory Bookmarks Tools Help	⊖∙े
the Back Forward Reload Stop Imp http://ehbs.org/nasaDocuments/library/Integration/PRSs/Designing Documer 100 Imp IMDB	٩
애 CNN 👸 New York Times 🕐 Washington Post 🧲 Comcast 📋 OOWA 🤹 NASAFCU 🚳 File Hippo 🥶 Cnet 🔄 Scoreboards 🔛 TV Guide 梯 N	lapQuest
Google 🔄 🛃 Search 🔹 🖗 📲 🕫 🛪 🗹 🕫 🏠 Bookmarks 🖘 🖘 🔨 AutoLink 🔹 🔚 AutoFill 🔹 🔏 🔹 🖏 🔹	🔵 Sign in 🔹
1. Thury stor The is where reports are generated.	_
3. Documents	
In this subprocess, we have the following document types:	
Demonstration Tools. These are used to represent the Demonstration Tools.	
Documents Contract. These are used to represent the Documents Contract.	
Process Library. These are used to represent the Process Library.	
Implementation Plans. These are used to represent the Implementation Plans.	
Documents Designs. These are used to represent the Documents Designs.	
Documents Designs Reviews. These are used to represent the Documents Designs Review.	
Documents Builds. These are used to represent the Documents Builds.	
Documents Builds Reviews. These are used to represent the Documents Builds Reviews.	
Documents Tests. These are used to represent the Documents Tests.	
Documents Tests Reviews. These are used to represent the Documents Tests Reviews.	
	_
4. Guidelines	
In this subprocess, we have the following roles:	
Designing Documents Manager. This is the person managing the Designing Documents subprocess.	
Project Manager. This is the person managing the Project.	
Demonstration Tools Developer. This is the person managing the Demonstration Tools Development.	
Customer. This is the customer for the Documents.	
Business Manager. This is the person managing the procurements for the .Development Facility	-
🖙 🔽 🔮 🕜 5 Now: Mostly Sunny, 67 약 🖗 Mon: 73 약 🥋 Tue: 78 약 🍂 Wed: 79 약 🏷 Thu: 78 약 🦗 Fri: 81 약 á	🚬 Sat: 8

Figure 3(f). Documents describe subprocess data.

🔮 Description - Mozilla Firefox
Eile Edit View History Bookmarks Tools Help
Image: Angle of the state o
애 CNN 💈 New York Times 🖤 Washington Post 🧿 Comcast 📋 OOWA 🤹 NASAFCU 🚳 File Hippo 🚭 Cnet 🔄 Scoreboards 腿 TV Guide 梯 MapQuest
Google 🔄 🛃 Search 🛛 🖗 🥼 🛪 🧭 🕈 🕅 ។ 🏦 🏠 Bookmarks។ 📼 ។ 🔌 AutoLink 🤉 🔚 AutoFill 🔹 🖉 🔌 🔩 🔹 Gign in 🔹
Documents Tests Reviews. These are used to represent the Documents Tests Reviews.
4. Guidelines
In this subprocess, we have the following roles:
Designing Documents Manager. This is the person managing the Designing Documents subprocess.
Project Manager. This is the person managing the Project.
Demonstration Tools Developer. This is the person managing the Demonstration Tools Development.
- Customer. This is the customer for the Documents.
Business Manager. This is the person managing the procurements for the .Development Facility
Documents Designers. This is the person managing the Documents designs
Documents Designs Reviewers. This is the person reviewing the Documents designs
Documents Builders. This is the person building the Documents
Documents Builds Reviewers. This is the person reviewing the Documents.
Documents Testers. This is the person testing the Documents.
Documents Tests Reviewers. This is the person reviewing the testing of the Documents
Organization Manager. This is the person managing the Organization.
Overall Organizations Manager. This is the person managing the overall Organizations.
5. Others
In this subprocess, we have the following other tools:
Worksheet. This is the guidelines for the manager/director.
🕼 🕼 🚺 🕐 🚺 🚱 🕜 5 Now: Mostly Sunny, 67 °F 🖄 Mon: 73 °F 🧼 Tue: 78 °F 🖄 Wed: 79 °F 🖄 Thu: 78 °F 🧞 Fri: 81 °F 🧞 Sat: 8

Figure 3(g). Guidelines/Electronic Handbooks describe user subprocesses.

Edit View History	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp										
Back Forward Rel	ead Print Stop	nary/mock-ups,	<mark>/Workshee</mark>	<mark>t.htm</mark>				<mark>→ ·</mark>		8	
process: Designing Do pose: The purpose of this subgroo orting data into the Integrated Fro amization: Division C	ess is to enter Problems and Solutions and to find matches		-		S Work	sheet					
		Suggested	Task	Estimated	Actual		Doc	uments			
Task	Purpose	Roles	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 Project Development .	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents	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
		Manager									Library:
		Task Lead, Subtask Lead, Subtask				Critical Design Review (CDR)Documents	Instructions and Samples	James Green	06/23/07	07/23/07	NS2034
ifical Design Review (CDR)	The purpose of this task is to administer Critical Design Review (CDR)	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official,	James Green	06/23/07	06/23/07				06/23/07	07/23/07	
ifical Design Review (UDR)		Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval		06/23/07	06/23/07	(CDR)Documents Draft Project Requirements	Samples Instructions and	Green James			NS2034
iffed Design Review (CDR)		Task Lead, Subtask Lead, Subtask Lead, Member, Reviewer, Approval Official, Project Manager, Documents		06/23/07	06/23/07	(CDR)Documents Draft Project Requirements Document	Samples Instructions and Samples	Green James Green James	06/23/07	07/23/07	NS2034 Library: NS2034 Library:

Figure 3(h). Subprocess Worksheets facilitate subprocess manager communication with process developers and participants.

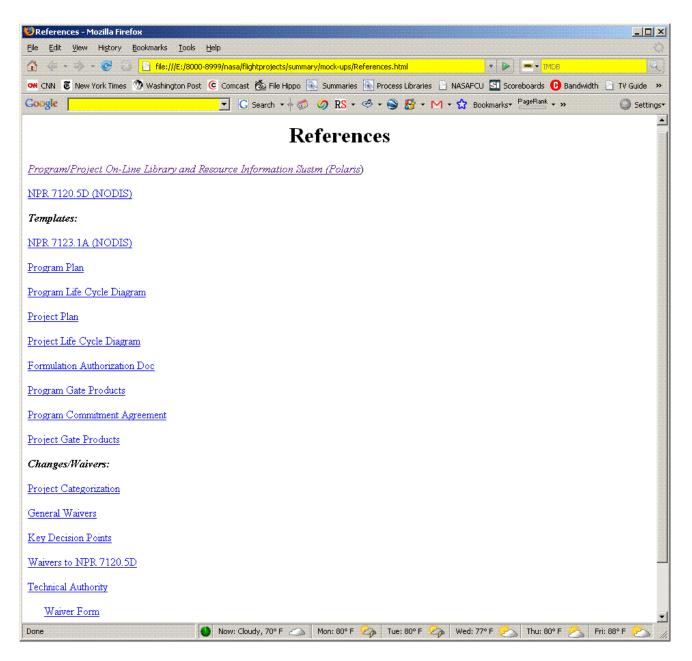


Figure 3(i). References list other related resources.

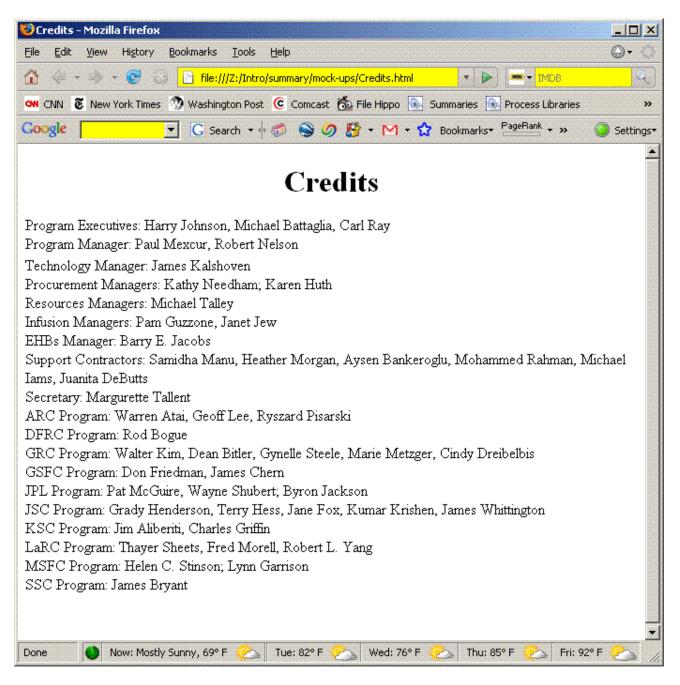


Figure 3(j). Credits acknowledge people's contributions.

🌒 Tools To Focus On During Stages Mozilla F	irefox			
<u>File Edit View History Bookmarks Tools Help</u>				
🟠 🔃 🗟 🏟 👘 ehbs.org/intro/summary/stages1.htm	h		🏭 🚺 🏟 🖓 🗍 🔀 🔂 Goog	ile 🔍 🥏 🕫 🔀 🥘
	To	ols To Focus On Durin		
	Tool	Process Developer	Process Participant	
	Descriptions	Learn, Integrate, Teat, Teach, Work Together	Learn, Integrate Document: Using Role Guidelines: ZHBs, Test, Tesch, Work Together	
	Plays	Learn, Integrate, Teat, Teach, Work Together	Learn, Integrate Document: Using Role Guidelines: ZHBs, Test, Tesch, Work Together	
- b	Documents	Learn, Integrate, Test, Test, Work Together	Learn, Integrate Documents Uting Role Guidelines IIIBs, Test, Tesch, Work Together	
	Role Guideline:/EHB:	Learn, Integrate, Teat, Teach, Work Together	Learn, Integrate Document: Uting Role Guidelines: ZHBs, Test, Tesch, Work Together	
	Subprocess Worksheets	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document: Using Role Guidelines/ZHBt, Test, Tesch, Work: Together	
	References	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document: Using Role Guidelines ZHBs, Test, Tesch, Work Together	
	Credits	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Document Uning Role Guidelines IIIBs, Test, Tesch, Work Together	

Figure 3(k)(1). Some tools may be focused on during stages- by tool.

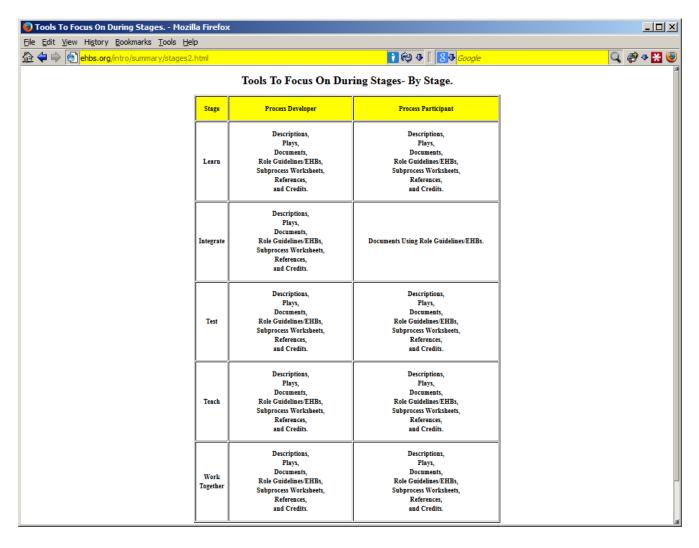


Figure 3(k)(2). Some tools may be focused on during stages- by stage.

\$\langle \nu	file:///E:/8000-8999/nasa/do	cuments/summary/mock-ups/Integrati 🔽	G.	GS pace	
			, <u> </u>		_
Fetch Integration					
-					
					_
		Read Integration			
Classification		Product Realization Subprocesses			
Subprocess		Designing Documents			
Туре		Guidelines			
Title	Subprocess Manager	Subprocess Manager			
ld	T4-4-3-00	T4-4-3-00			
Integration Url	Fetch				
Ordinal	33				
orama		03-MAY-2005			
Date Created	03-MAY-2005				
	03-MAY-2005 18-MAY-2005				-
Date Created					
Date Created					
Date Created	18-MAY-2005	Samples From Views			
Date Created	18-MAY-2005	Date Created: 23-Jun-2005			
Date Created Date Updated ARC Documents Office	18-MAY-2005	•			
Date Created Date Updated ARC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated ARC Documents Office	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005			
Date Created Date Updated ARC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated ARC Documents Office Fetch DFRC Documents Office	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office Fetch GSFC Documents Office Fetch GSFC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office Fetch GSFC Documents Office	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005			
Date Created Date Updated Date Updated ARC Documents Office Fetch DFRC Documents Office Fetch GRC Documents Office Fetch GSFC Documents Office Fetch GSFC Documents Office Fetch	18-MAY-2005	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005 Date Updated: 23-Jun-2005			

Figure 3(1). Integration Tools allow item types to be seen across different organizations.

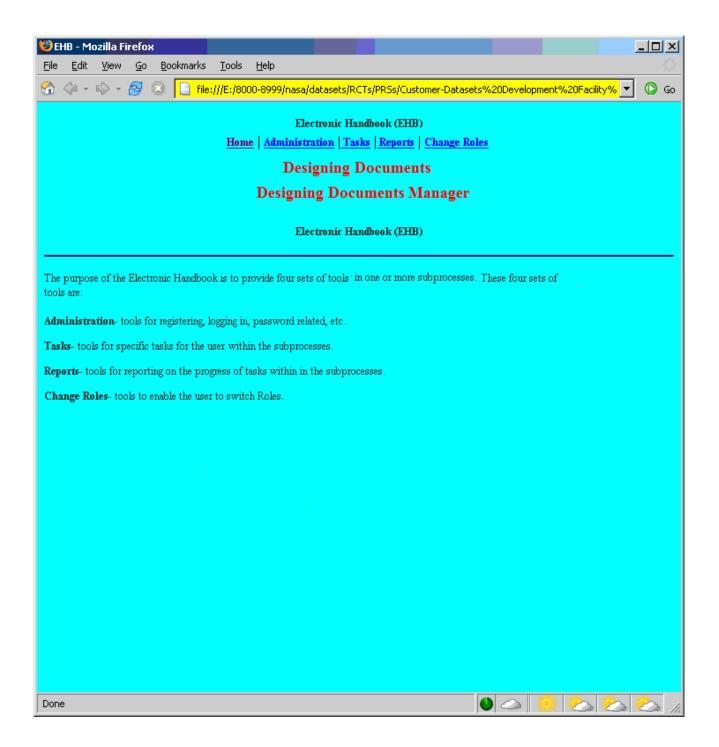


Figure 3(m). Electronic Handbooks (EHBs) help participants learn and execute their roles.

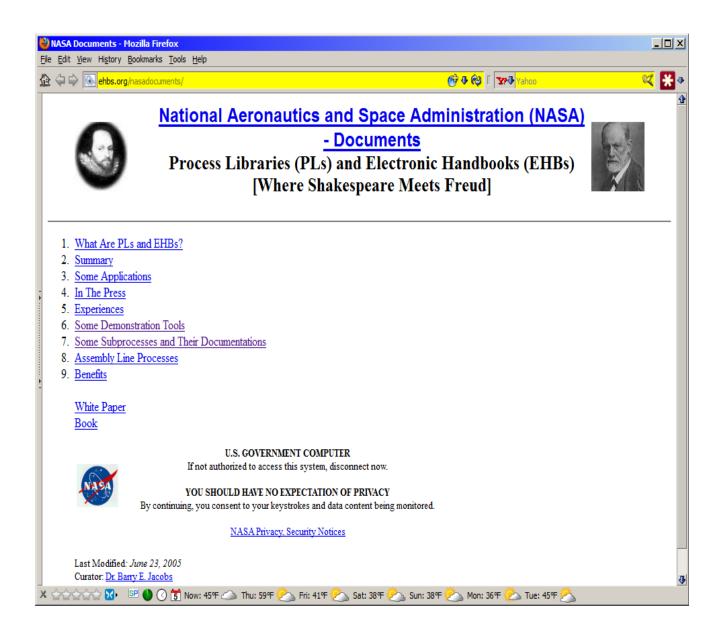


Figure 3(n). Demonstration Tools introduce the concepts to a community in their terms.

🕲 RCT - Mozilla Firefox									
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp	<u>ن</u>							
😚 🗇 = 🖒 = 🍠 🗵 📘 file	::///E:/8000-8999/dhs/summary/mock-ups/RCT.htr 🔽 🔀	GSpace 🕥 Go							
Requirements Capture Tool <u>Home Binders Process: (Example; Implementation)</u> User EHBs: (Example; Implementation) Home Pages: (Example; Implementation) Files: (Example; Implementation) Suggestions									
Designing Documents (Outlining/Playwriting)									
	Requirements Capture Tool								
The purpose of the Requirements Capture Tool is to provide five views into the subprocess. These five views are: Binders- define the data resulting from the subprocess. Process- is the play that defines who produces the parts of the binder and when they produce them. User EHBs- define precisely how each role creates their parts of the binders. Home Pages- define how each role obtains their EHB. Files- define the internal files structure of all of the EHBs. The Suggestions link allows for comments to be submitted.									
Done	O.203s McAfee SiteAdvisor. Adblock O.203s O.2	222/							

Figure 3(o). Requirements Capture Tools (RCTs) facilitate subprocess development.

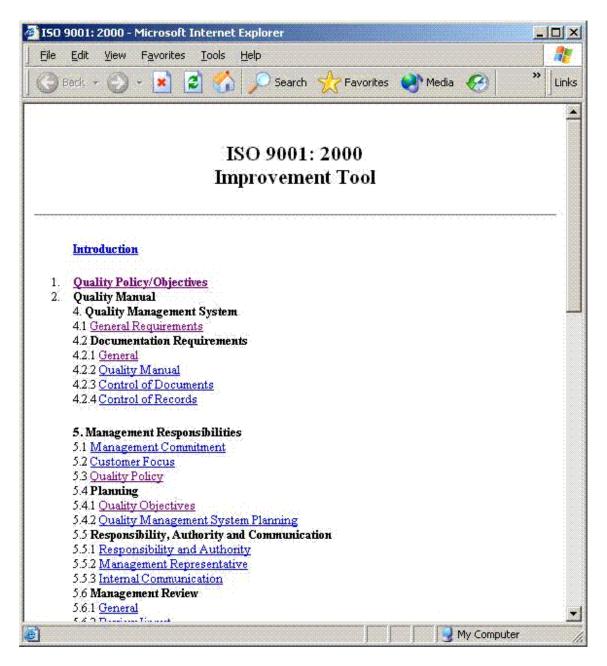


Figure 3(p). Improvement Tools facilitate subprocess improvement.

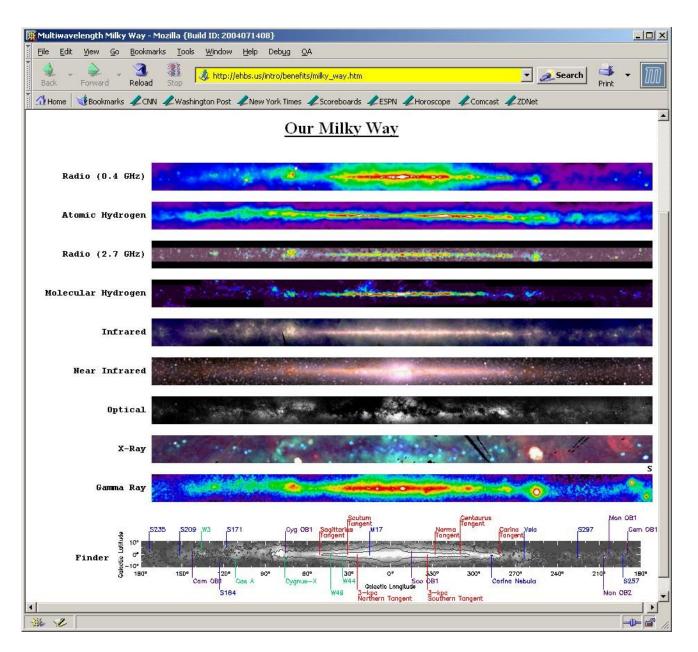


Figure 4(a). We believe that to truly understand one's universe, one must see it thru multiple "eyes" and also have tools to "communicate" these views.

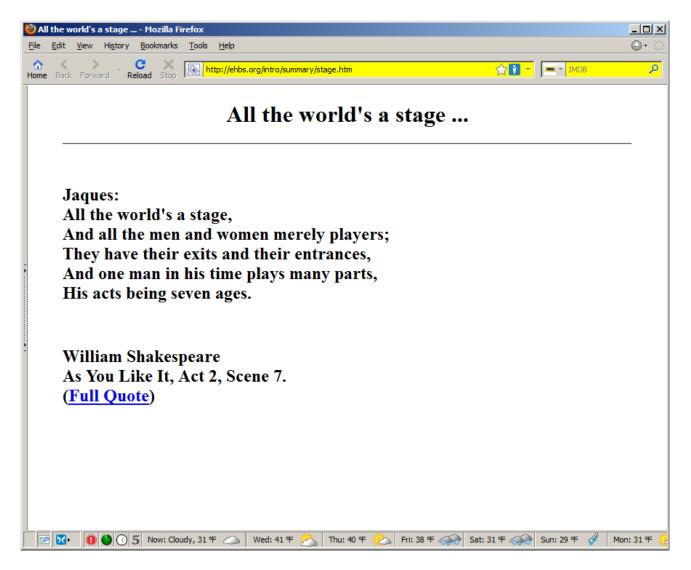


Figure 4(b). All the world's a stage ...

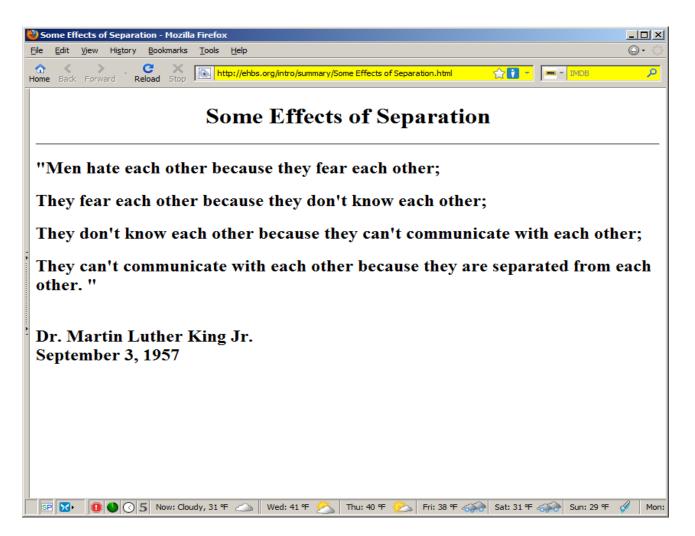


Figure 4(c). Some effects of separation.

Theatre of Dionysus- Athens, Greece



For More Details

