NIH's National Cancer Institute (NCI) Grants Management Using Process Libraries and Electronic Handbooks



(Where Shakespeare Meets Freud)

Summary





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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.



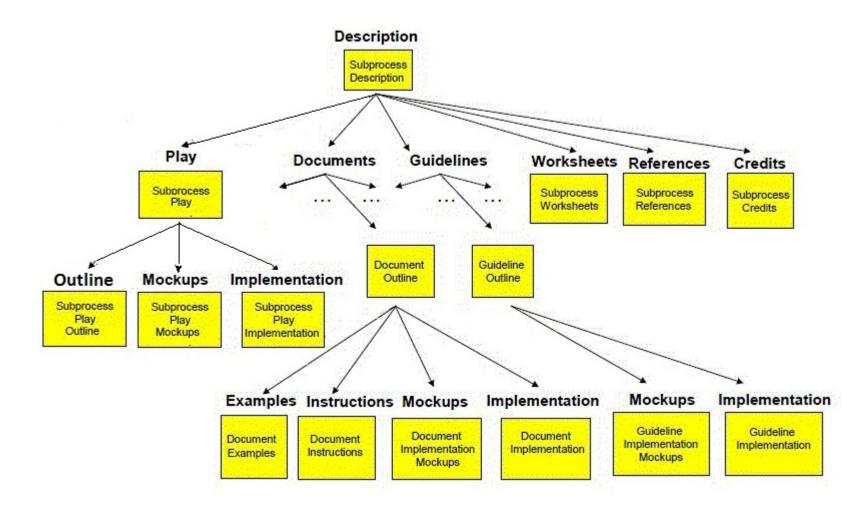
Benefits:

- 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.

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



All the world's a stage ...

Jaques:

All the world's a stage,

And all the men and women merely players;

They have their exits and their entrances,

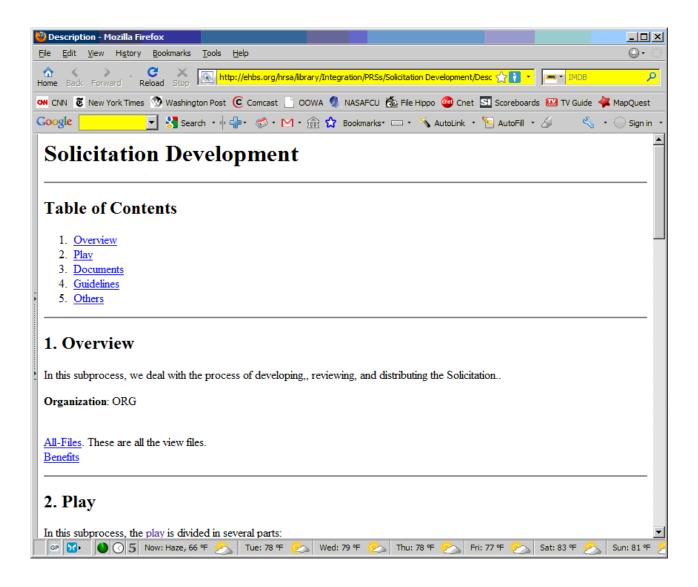
And one man in his time plays many parts,

His acts being seven ages.

William Shakespeare As You Like It, Act 2, Scene 7. The approach uses a modernization of the Socratic Method or Dialogue to gain consensus between Teachers, Documentors, Managers, Implementors, and Participants.



Descriptions summarize subprocesses.



Plays describe subprocess execution.



Documents describe subprocess data.

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 7. Solicitation Distribution and Outreach. This is where the Solicitation is distributed and public outreach is performed. 8. Analysis. This is where participants use report tools. 	<u> </u>
3. Documents	
In this subprocess, we have the following document types:	
Registrations. These are used to represent Solicitation Development Guidelines. Guidelines. Topics. Topics. These are used to represent Solicitation Topics. Front-End. These are used to represent Solicitation Front-Ends. Pre-Solicitation These are used to represent Pre-Solicitations. Pre-Solicitation Reviews and Approvals. These are used to represent Pre-Solicitation Public Comments. Solicitation. These are used to represent Solicitations. Pre-Solicitation Reviews and Approvals. These are used to represent Pre-Solicitation Public Comments. Solicitation. These are used to represent Solicitations. Solicitation. These are used to represent Solicitations. Solicitation. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitation Reviews and Approvals. Outreach Records. These are used to represent Outreach Records.	
4. Guidelines	
In this subprocess, we have the following Guidelines:	
Solicitation Development Manager. This is the manager of the Solicitation Development subprocess.	
Program Manager. This is the manager of the Program.	
Mission Directorate Representative. This is the Mission Directorate Representative of the Program. Field Center Program Manager. This is the Field Center Program Manager of the Program	-
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Guidelines describe user subprocesses.

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4. Guidelines	
In this subprocess, we have the following Guidelines:	
Solicitation Development Manager. This is the manager of the Solicitation Development subprocess.	
Program Manager. This is the manager of the Program.	
Mission Directorate Representative. This is the Mission Directorate Representative of the Program.	
Field Center Program Manager. This is the Field Center Program Manager of the Program.	
Field Center Advisor-Technology Manager. This is the Field Center Advisor-Technology Manager of the Program.	
Lead Topic Manager. This is the Lead Topic Manager of the Program.	
Participating Topic Manager. This is the man Participating Topic Manager of the Program.	
Mission Advisor. This is the Mission Advisor of the Program.	
Potential Customer Representative. This is the Potential Customer Representative of the Program.	
Procurement Manager. This is the Procurement Manager of the Program.	
EHBs Developer. This is the Developer of the EHBs.	
Organization Manager. This is the person managing the Organization.	
Overall Organizations Manager. This is the person managing the overall Organizations.	
5. Others	
5. Others	
To this subprocess, we have the following other tools:	
In this subprocess, we have the following other tools:	
Worksheet. This is the guidelines for the manager/director	-
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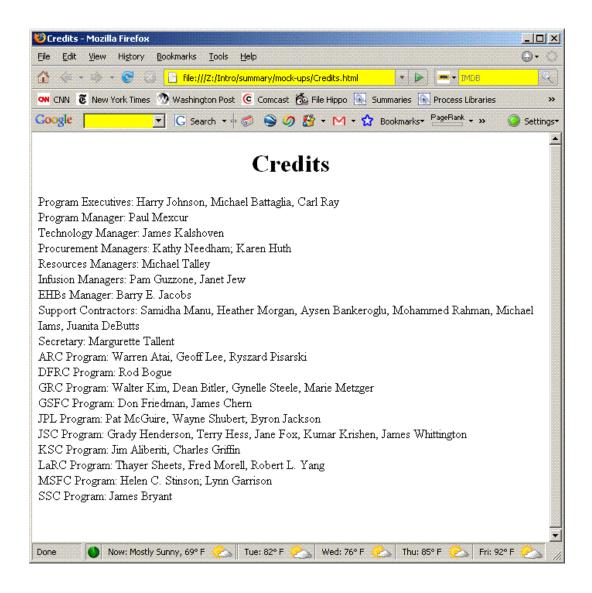
Subprocess Worksheets facilitate subprocess manager communication with process developers and participants.

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Administration	The purpose of this task is to administer Project Development .	Task Lead, Subtask Lead, Subtask Lead, 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	Library: NS2034
		Manager Task Lead, Subtask Lead, Subtask				Critical Design Review (CDR)Documents	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
ilical Design Review (CDR)	The purpose of this task is to administer Critical Design Review (CDR)	Member, Reviewer, Approval Official,	James Green	06/23/07	06/23/07	Draft Project Requirements Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Project Manager, Documents Manager				Project. Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Task Lead, Subtask Lead, Subtask				Resource Analysis Office (RAO) Data Dump Documents	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
		Member, Reviewer,				Project. Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
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References list other related resources.

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Templates:			
NPR 7123.1A (NODIS)			
Program Plan			
Program Life Cycle Diagram			
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Project Life Cycle Diagram			
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Changes/Waivers:			
Project Categorization			
<u>General Waivers</u>			
Key Decision Points			
Waivers to NPR 7120.5D			
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Waiver Form			

Credits acknowledge people's contributions.



Tools that can be focused on during stagesby tool.

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Outline of Presentation:

-The Bottom Line--Objectives--Solution--Where Shakespeare Meets Freud--Some Applications--Things Supported--Examples--Final Thoughts-

Objective: Develop Internet-based tools to support the paperless documentation and management of complex distributed processes.

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

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Divi	sion of Cancer Prevention (DCP)	
Division of C	Cancer Treatment and Diagnosis (DCTD)	
Divisi	on of Extramural Activities (DEA)	
Office	of China Cancer Programs (OCCP)	
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Organizations execute the eight "Play Development" stages.

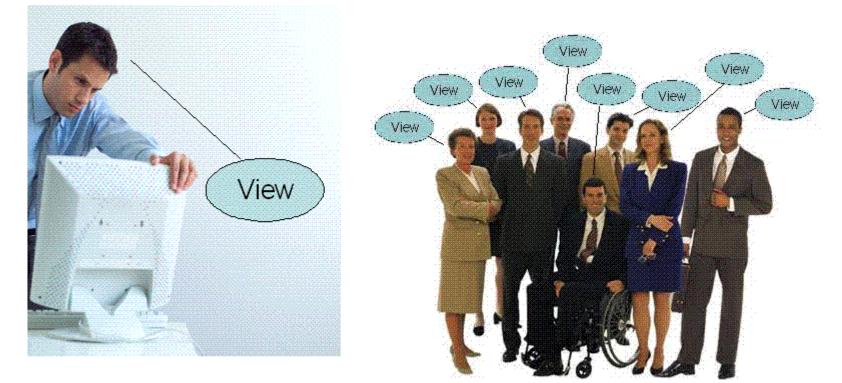
1) summarizing (descriptions),

- 2) playwriting (outlines),
- 3) staging (mockups),
- 4) dress rehearsal (implementations),
- 5) performance (implementations),
- 6) evaluations (implementations),
- 7) revisions (outlines, mockups, implementations),

and

8) closing.

People in organizations provide different views of the subprocesses



Subprocess Documentor's View

Subprocess Teacher's, Manager's, Implementor's and Participant's Views

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.

* Also, called the "Universal Subprocess".

The "Game of Telephone" Syndrome: Where People Pass-On Only Parts of the "Message"





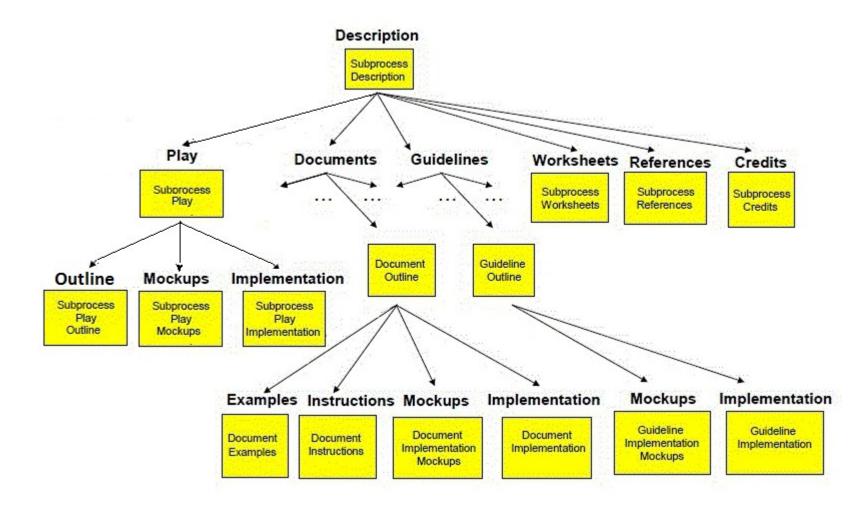
Overview of how editable and cost-saving process documentation tools can solve problems.

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.

Solution: Process Libraries maintain organization's views of the subprocesses.

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Classification: Product Realization Subprocesses (T4-00-00-00)		
Subprocess: Solicitation Development (T4-3-00-00)		
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Division of Cancer Control and Population Sciences (DCCPS)		Update
Bogue, Rodney (rod.bogue@nih.gov)		Copy
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Division of Cancer Prevention (DCP)		Update
Kim, Walter S. (walter.s.kim@nih.gov)		Copy
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Our basic approach is to wrap organization's subprocesses in a common envelope containing "communication vehicles" that facilitate intra- and inter-organization communication.



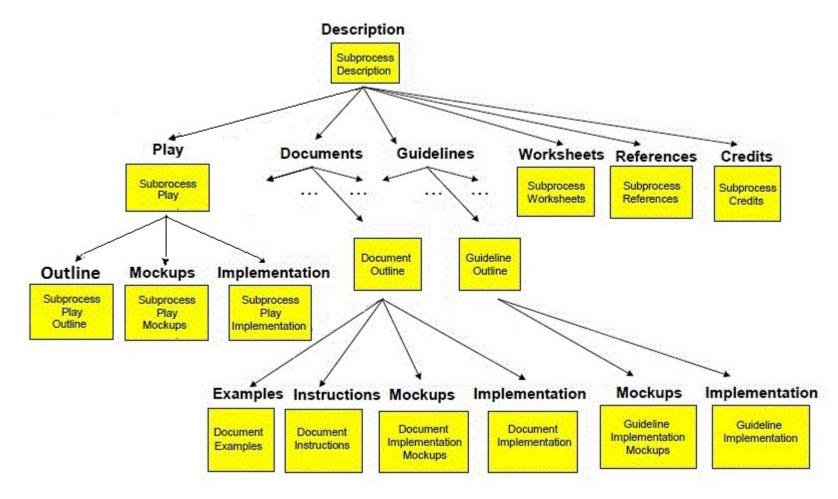
Tools that can be focused on during stagesby tool.

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	Plays	Learn, Integrate, Test, Tesch, Work Together	Learn, Integrate Documents Using Role Guidelines/ZHBs, Test, Tesch, 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.	
	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 Worksheets, 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.	

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





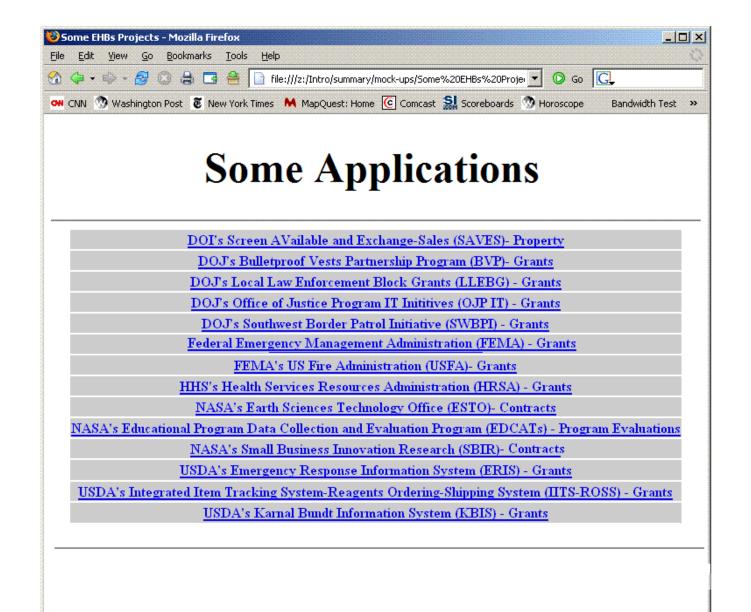
Process Libraries (PLs) and Electronic Handbooks (EHBs) are where Shakespeare meets Freud.



- 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]

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.

- 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.
- 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 interorganization communication.

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 seeing their jobs differently. This is often a good thing for subprocess improvement.
- •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 quality of the data generally suffers.
- •Tools are people-based so that users require minimal training. The approach helps people to determine which steps to use. For each of the substeps (i.e., forms and documents), the approach should have clear templates, instructions, and samples.
- •Tools are web-based so that all users can easily partake. The web-based approach supports the reduced need to install special software on user's computers. This is especially important in the case where the number of participants is large.
- •Everyone helps build the tools. The approach supports joint ownership in the subprocesses and the underlying systems which is crucial for overall acceptance.

Subprocess/Play Developments that are supported.

- •Presentation & Paper/Marketing. The approach supports presentation & paper/marketing using the contents of Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •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 Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •Examples/Rehearsal. The approach supports examples/rehearsals using the mockups of Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •Implementation/Staging. The approach supports implementation/staging using the building of Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •Utilization/Performance. The approach supports users utilization/performance using execution of Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •**Revision/New Production.** The approach supports revision/new production using updates of the Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.
- •Closeout/End Production. The approach supports closeout/ end performance using storage of the Descriptions, Plays, Documents, Guidelines, Worksheets, Contacts, References, and Credits.

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 organizations in the library.
- **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 in the library.
- **Organization Subprocess Closeout.** The approach supports the closeouts of organizations and their subprocesses from the library.

Examples

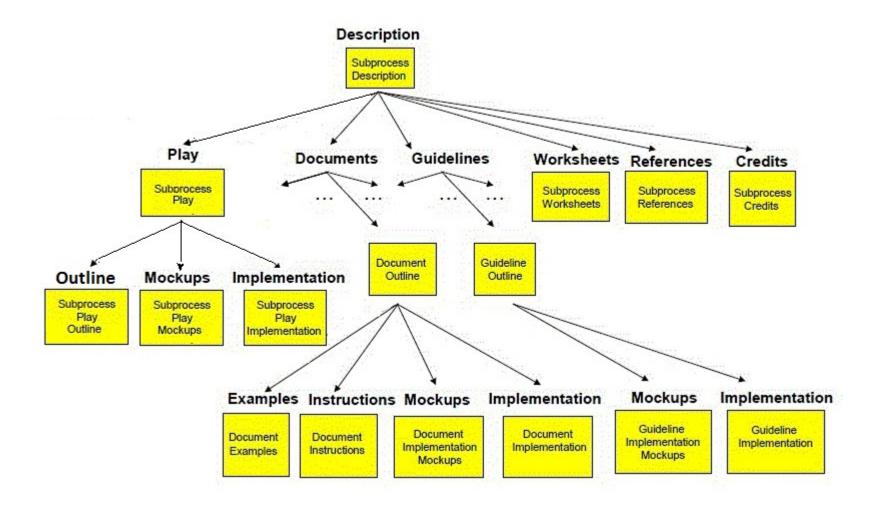
Process Libraries are organized by subprocesses.

🕴 Department of Health and Human Services Health Resources Services Administration	Grants Process Library - Mozilla Firefox	
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NIH's National Cancer Instit	tute (NCI) Grants Process Library	
Overview (Demo)		
Integrated Problems-Solutions Database		
Planning Grants		
Solicitation Development		
Submission		
Review and Selection		
Negotiation and Award		
Administration		
Closeout		
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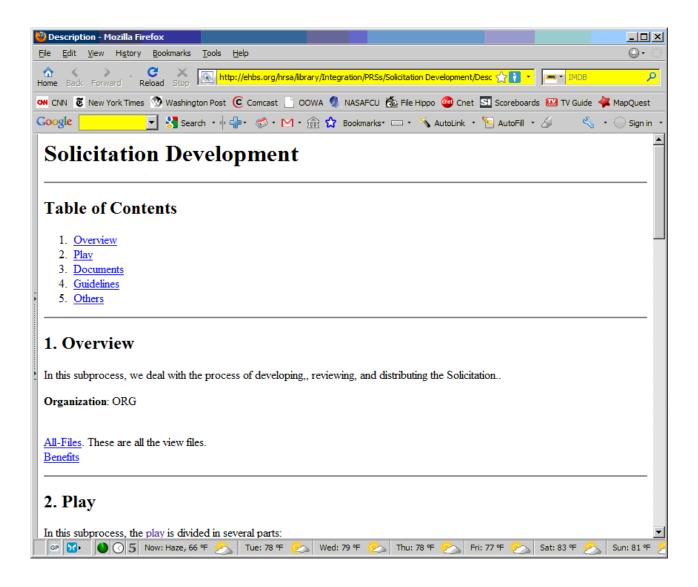
View Tools show how organizations view their subprocesses.

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Fotal 11 Entries		
Classification: Product Realization Subprocesses (T4-00-00-00)		
Subprocess: Solicitation Development (T4-3-00-00)		
	Create View	
View		Steps
Division of Cancer Biology (DCB)		Update
Lee, Geoff (geoff.lee@nih.gov)		Copy
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Division of Cancer Control and Population Sciences (DCCPS)		Update
Bogue, Rodney (rod.bogue@nih.gov)		Copy
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Kim, Walter S. (walter.s.kim@nih.gov)		Copy
Fetch		Delete
Division of Cancer Treatment and Diagnosis (DCTD)		Update
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Subprocess View Tools contain the envelope of related files.



Descriptions summarize subprocesses.



Plays describe subprocess execution.



Documents describe subprocess data.

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 7. Solicitation Distribution and Outreach. This is where the Solicitation is distributed and public outreach is performed. 8. Analysis. This is where participants use report tools. 	<u> </u>
3. Documents	
In this subprocess, we have the following document types:	
Registrations. These are used to represent Solicitation Development Guidelines. Guidelines. Topics. Topics. These are used to represent Solicitation Topics. Front-End. These are used to represent Solicitation Front-Ends. Pre-Solicitation These are used to represent Pre-Solicitations. Pre-Solicitation Reviews and Approvals. These are used to represent Pre-Solicitation Public Comments. Solicitation. These are used to represent Solicitations. Pre-Solicitation Reviews and Approvals. These are used to represent Pre-Solicitation Public Comments. Solicitation. These are used to represent Solicitations. Solicitation. These are used to represent Solicitations. Solicitation. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitations. Solicitation Reviews and Approvals. These are used to represent Solicitation Reviews and Approvals. Outreach Records. These are used to represent Outreach Records.	
4. Guidelines	
In this subprocess, we have the following Guidelines:	
Solicitation Development Manager. This is the manager of the Solicitation Development subprocess.	
Program Manager. This is the manager of the Program.	
Mission Directorate Representative. This is the Mission Directorate Representative of the Program. Field Center Program Manager. This is the Field Center Program Manager of the Program	-
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Guidelines describe user subprocesses.

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4. Guidelines	
In this subprocess, we have the following Guidelines:	
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Solicitation Development Manager. This is the manager of the Solicitation Development subprocess.	
Program Manager. This is the manager of the Program.	
Mission Directorate Representative. This is the Mission Directorate Representative of the Program.	
Field Center Program Manager. This is the Field Center Program Manager of the Program.	
Field Center Advisor-Technology Manager. This is the Field Center Advisor-Technology Manager of the Program.	
Lead Topic Manager. This is the Lead Topic Manager of the Program.	
Participating Topic Manager. This is the man Participating Topic Manager of the Program.	
Mission Advisor. This is the Mission Advisor of the Program.	
Potential Customer Representative. This is the Potential Customer Representative of the Program.	_
Procurement Manager. This is the Procurement Manager of the Program.	
EHBs Developer. This is the Developer of the EHBs.	
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	<u> </u>
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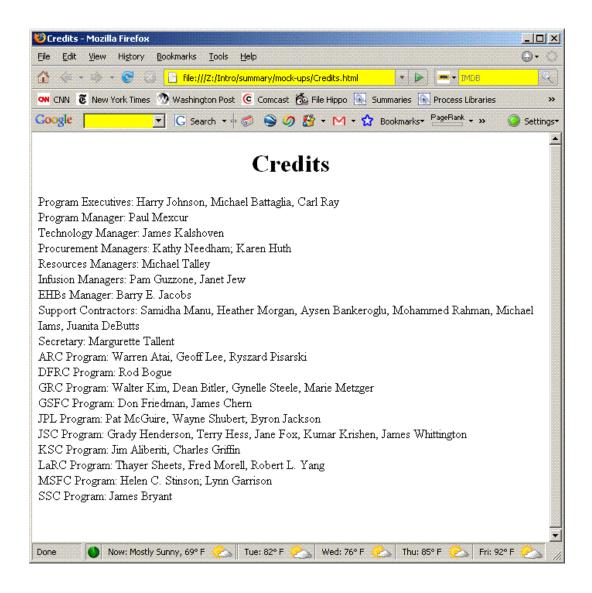
Subprocess Worksheets facilitate subprocess manager communication with process developers and participants.

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Administration	The purpose of this task is to administer Project Development .	Task Lead, Subtask Lead, Subtask Lead, 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	1	
		Task Lead, Subtask Lead, Subtask				Critical Design Review (CDR)Documents	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034		
iitical Design Review (CDR)	The purpose of this task is to administer Critical Design Review (CDR)	Member, Reviewer, Approval Official,	James Green		06/23/07	06/23/07	Draft Project Requirements Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034	
		Project Manager, Documents Manager				Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034		
		Task Lead, Subtask Lead, Subtask				Resource Analysis Office (RAO) Data Dump Documents	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034		
Recourse Analysis Office	The rannoce of this task is to administer Recourse	Member, Reviewer,	Tamas			Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034		
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References list other related resources.

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Templates:			
NPR 7123.1A (NODIS)			
Program Plan			
Program Life Cycle Diagram			
Project Plan			
Project Life Cycle Diagram			
Formulation Authorization Doc			
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Program Commitment Agreemen	<u>L</u>		
Project Gate Products			
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Project Categorization			
<u>General Waivers</u>			
Key Decision Points			
Waivers to NPR 7120.5D			
Fechnical Authority			
Waiver Form			

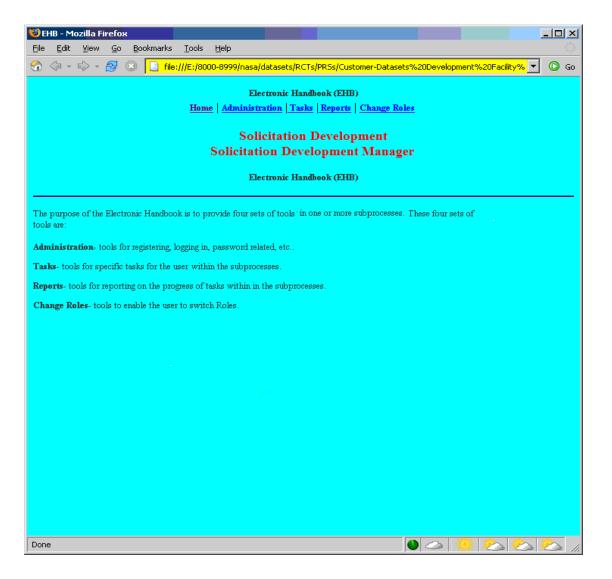
Credits acknowledge people's contributions.



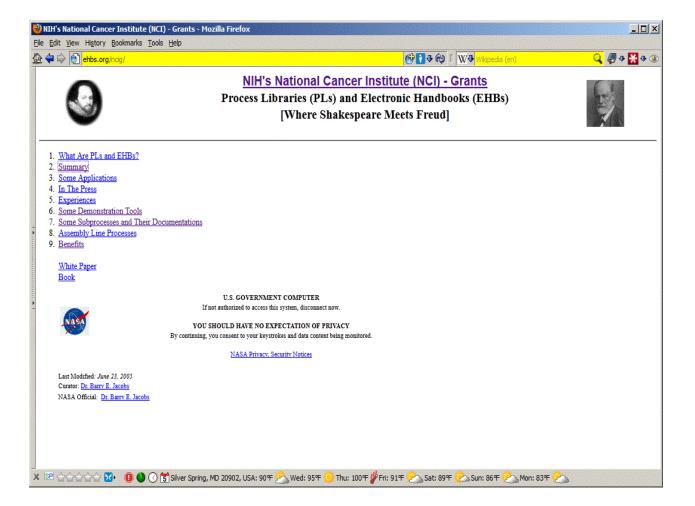
Integration Tools facilitate subprocess integration.

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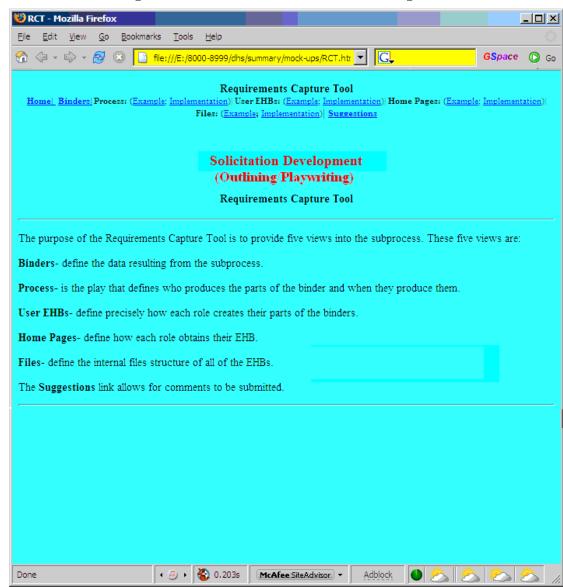
Electronic Handbooks (EHBs) facilitate the execution of subprocesses.



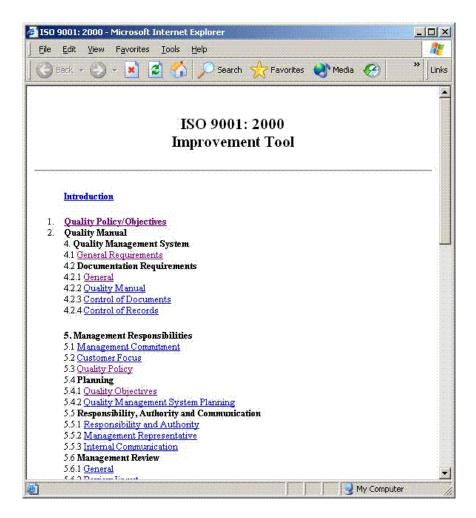
Demonstration Tools introduce the concepts to a community in their terms.



Requirements Capture Tools (RCTs) facilitate subprocess development.

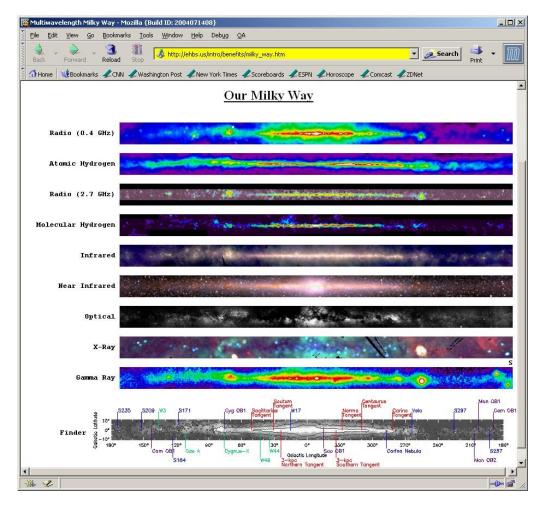


Improvement Tools facilitate subprocess improvement.



Final Thoughts

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



All the world's a stage ...

Jaques:

All the world's a stage,

And all the men and women merely players;

They have their exits and their entrances,

And one man in his time plays many parts,

His acts being seven ages.

William Shakespeare As You Like It, Act 2, Scene 7.

Some Effects of Separation

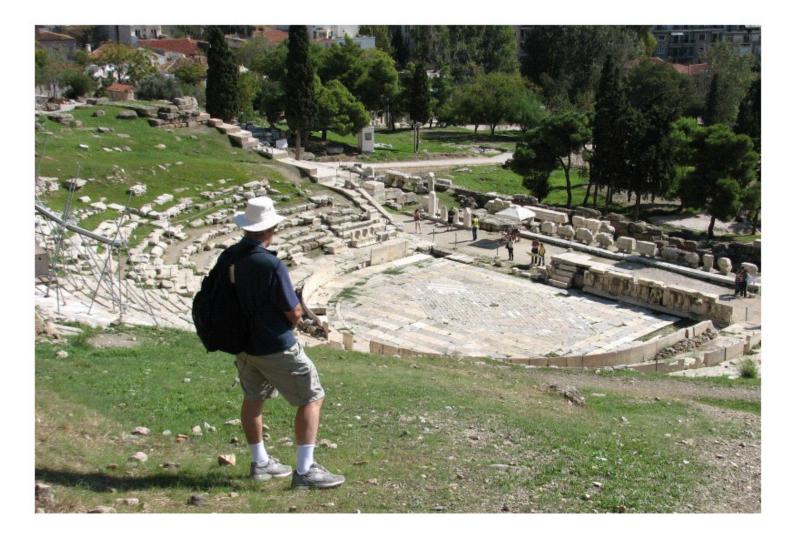
"Men hate each other because they fear each other;

They fear each other because they don't know each other;

- They don't know each other because they can't communicate with each other;
- They can't communicate with each other because they are separated from each other. "

Dr. Martin Luther King Jr. September 3, 1957

Theatre of Dionysus- Athens, Greece



For More Details

