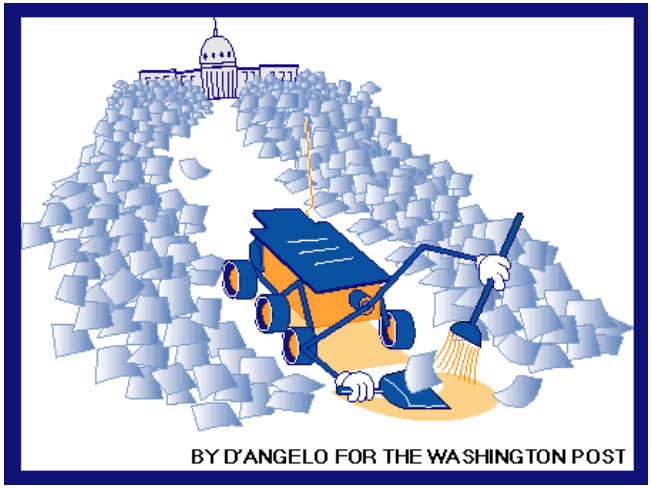
NASA SBIR Technologies Management Using Process Libraries and Electronic Handbooks

(Where Shakespeare Meets Freud)

Quick Summary



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

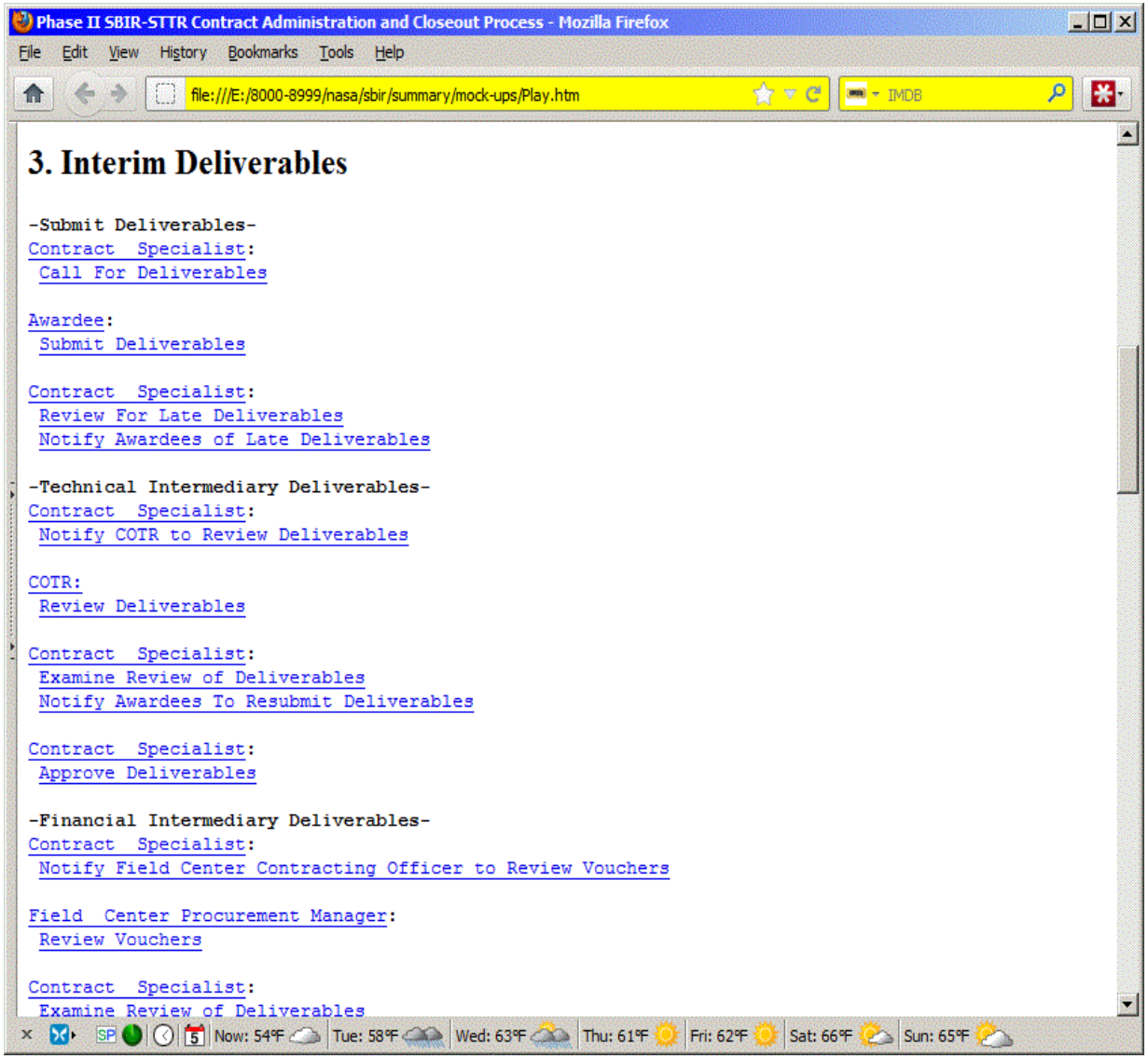
The Bottom Line:

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

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

These “plays” may be added to new or existing systems.

Plays describe subprocess execution.



Benefits:

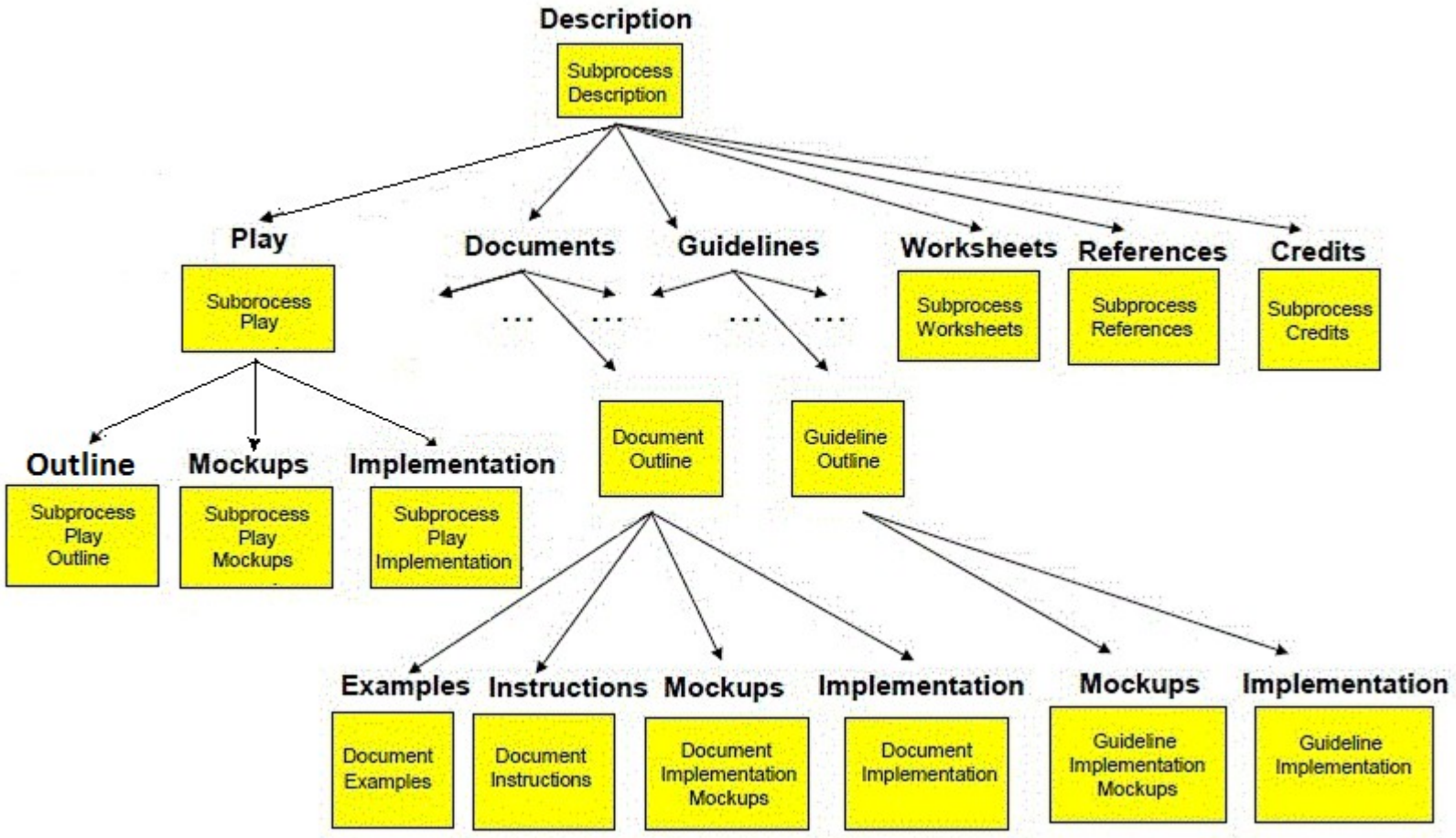
- Facilitates the collection of system and organizational requirements,

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

and

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

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



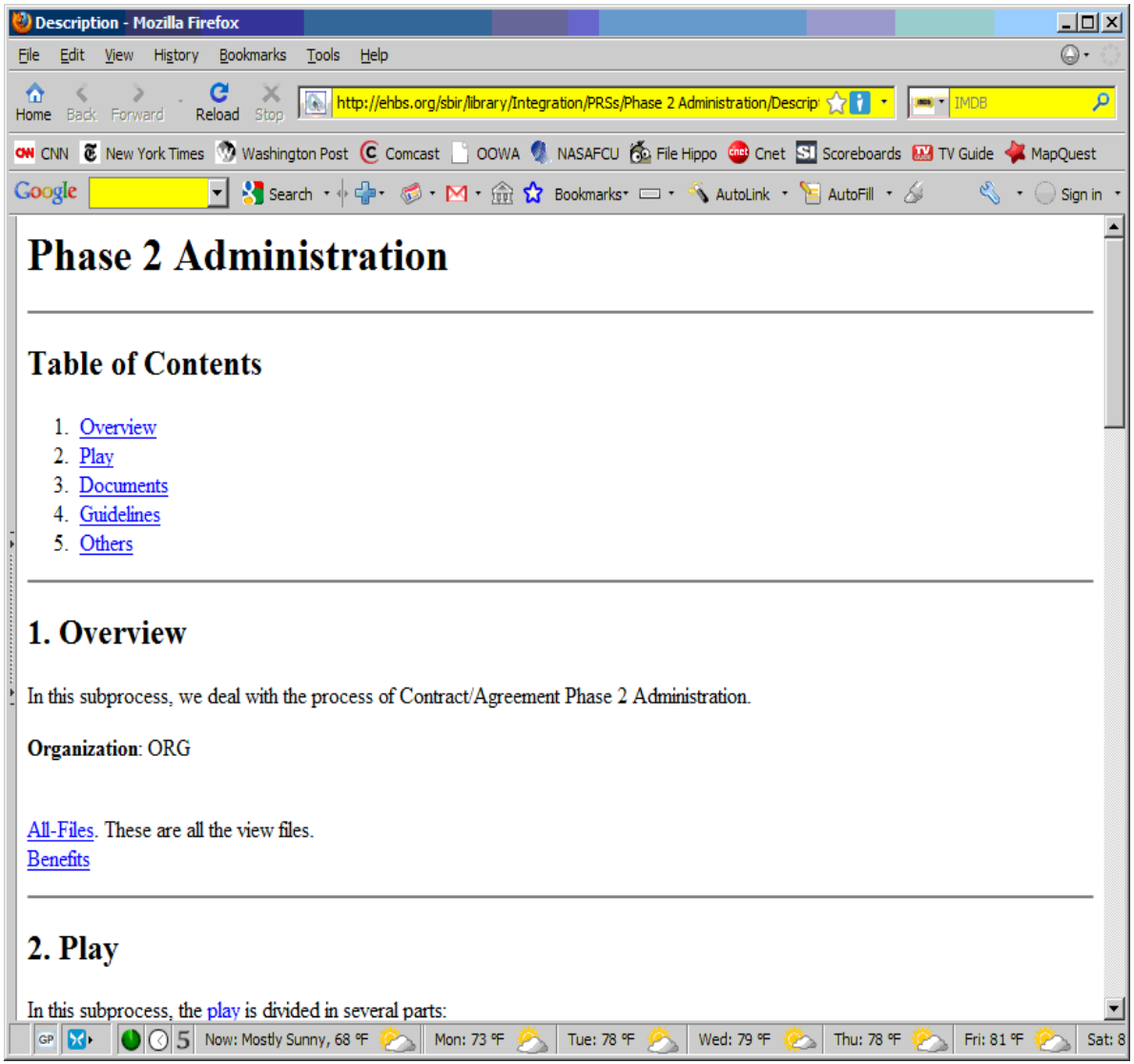
All the world's a stage ...

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.



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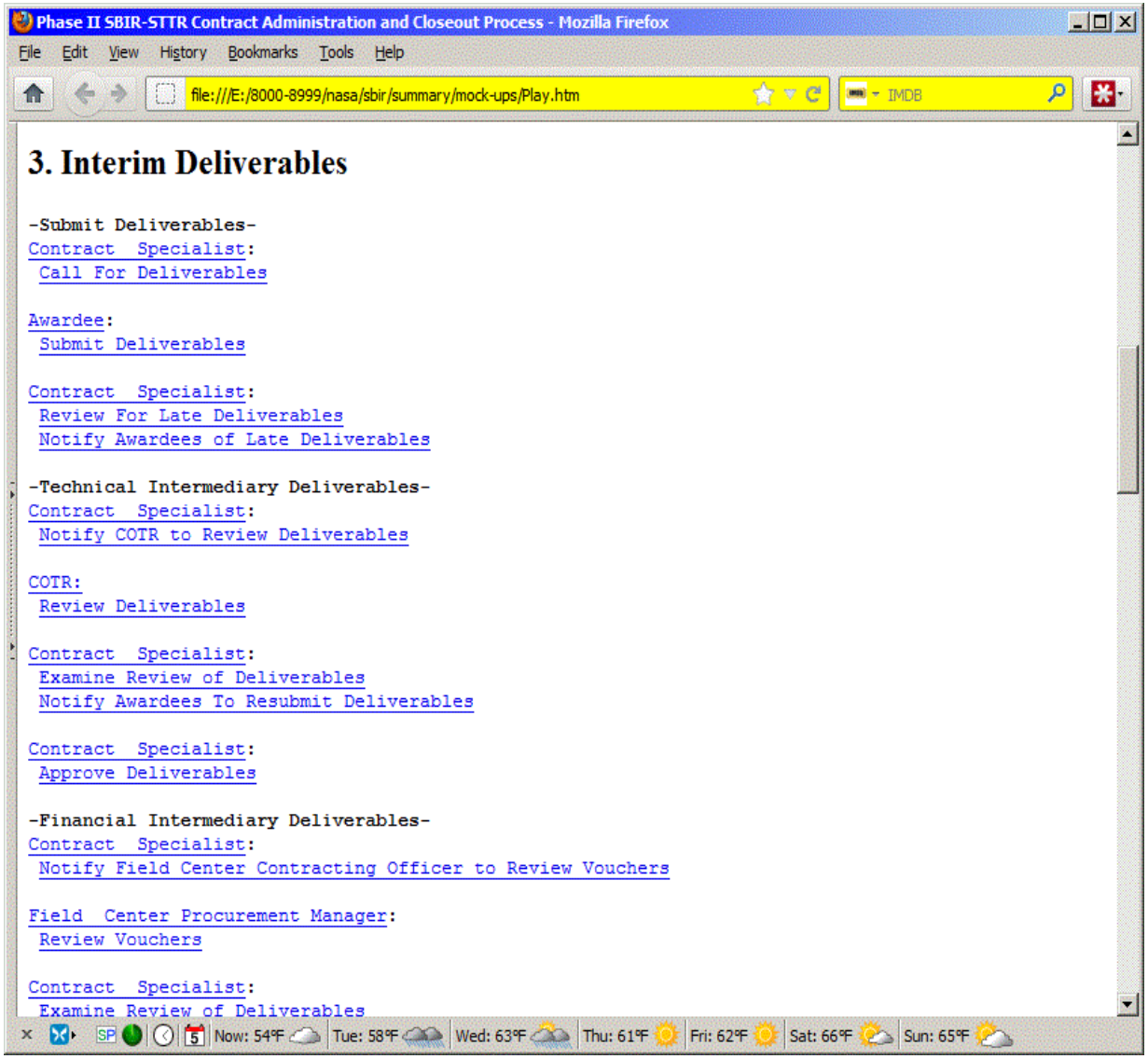
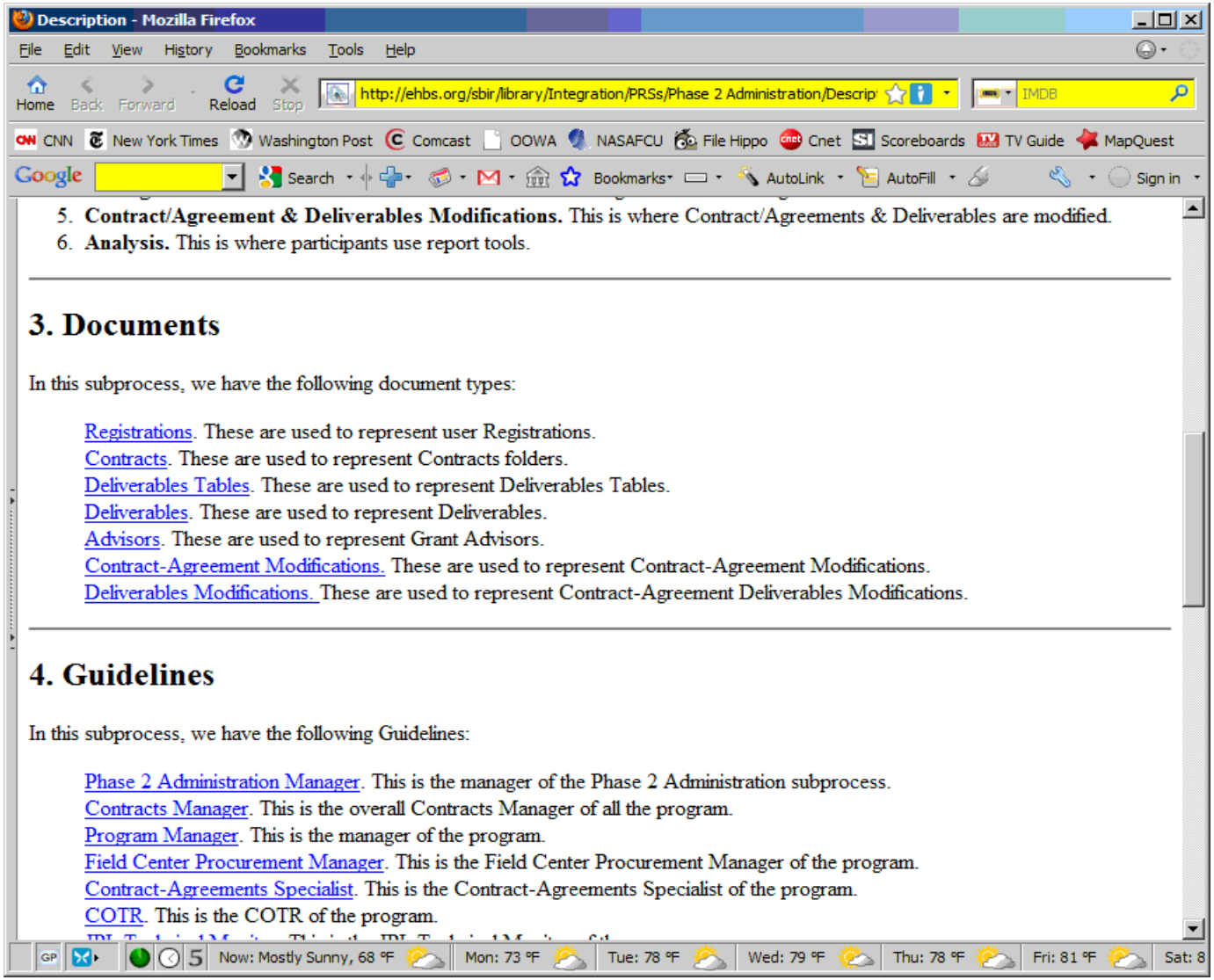
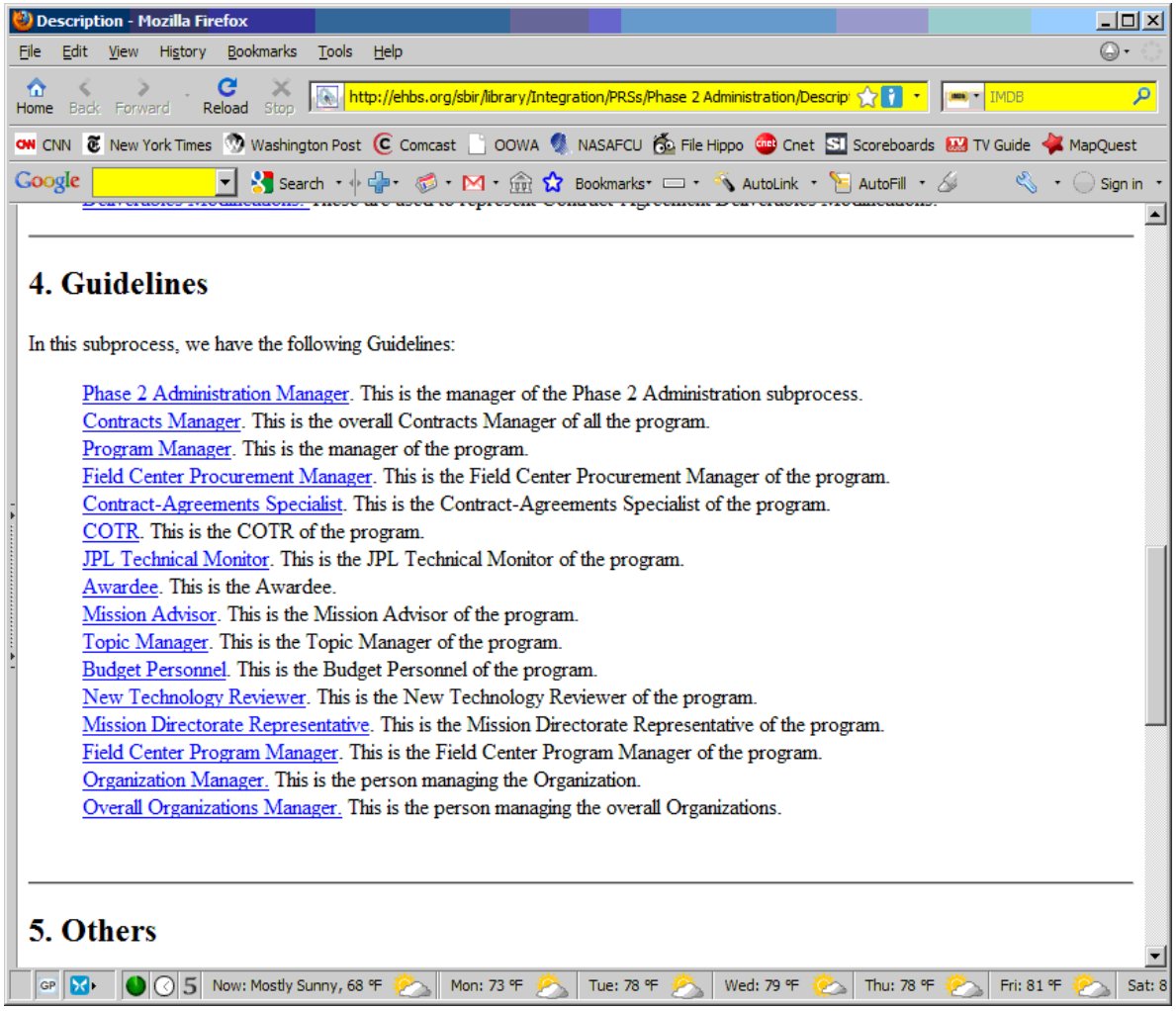


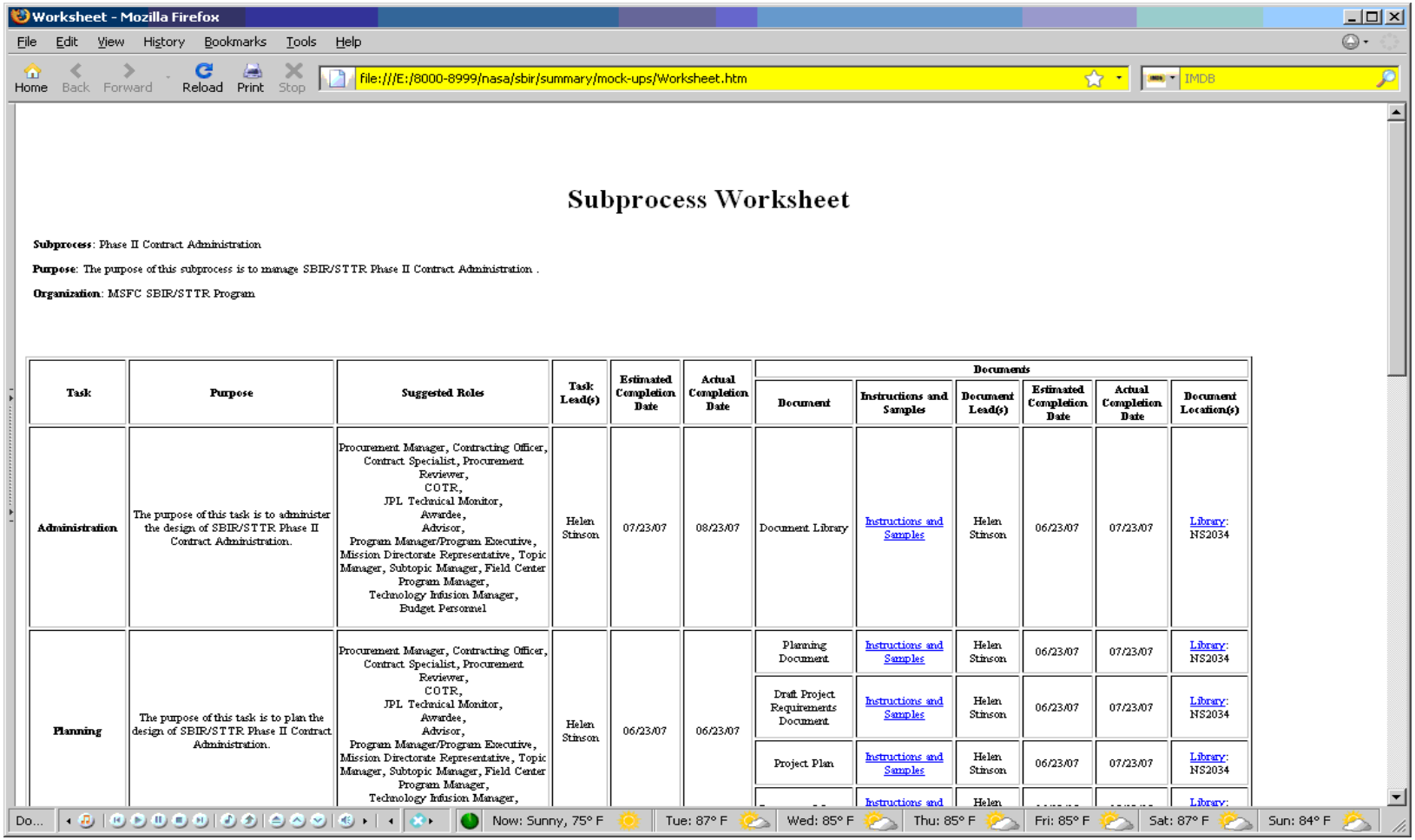
Documents describe subprocess data.



Guidelines describe user subprocesses.



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



Worksheet - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Print Stop file:///E:/8000-8999/nasa/sbir/summary/mock-ups/Worksheet.htm IMDB

Subprocess Worksheet

Subprocess: Phase II Contract Administration

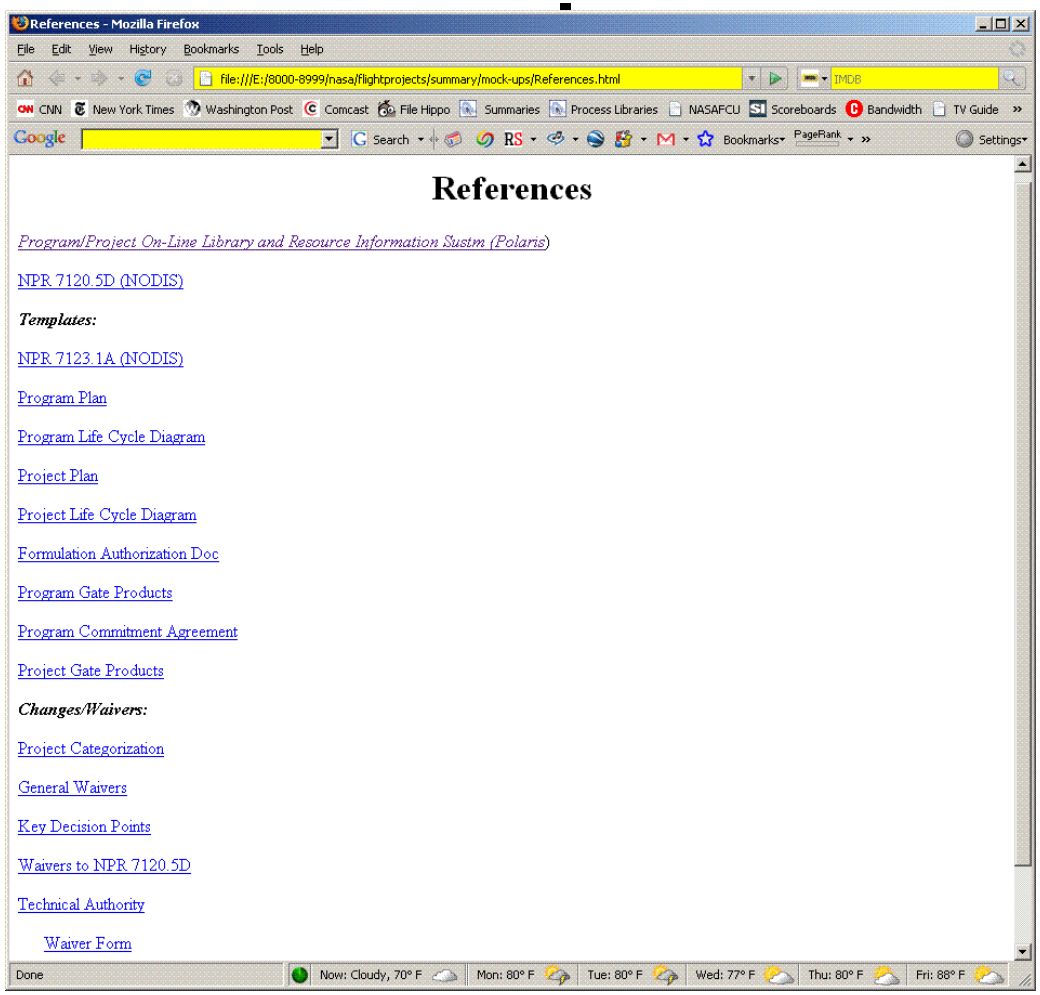
Purpose: The purpose of this subprocess is to manage SBIR/STTR Phase II Contract Administration .

Organization: MSFC SBIR/STTR Program

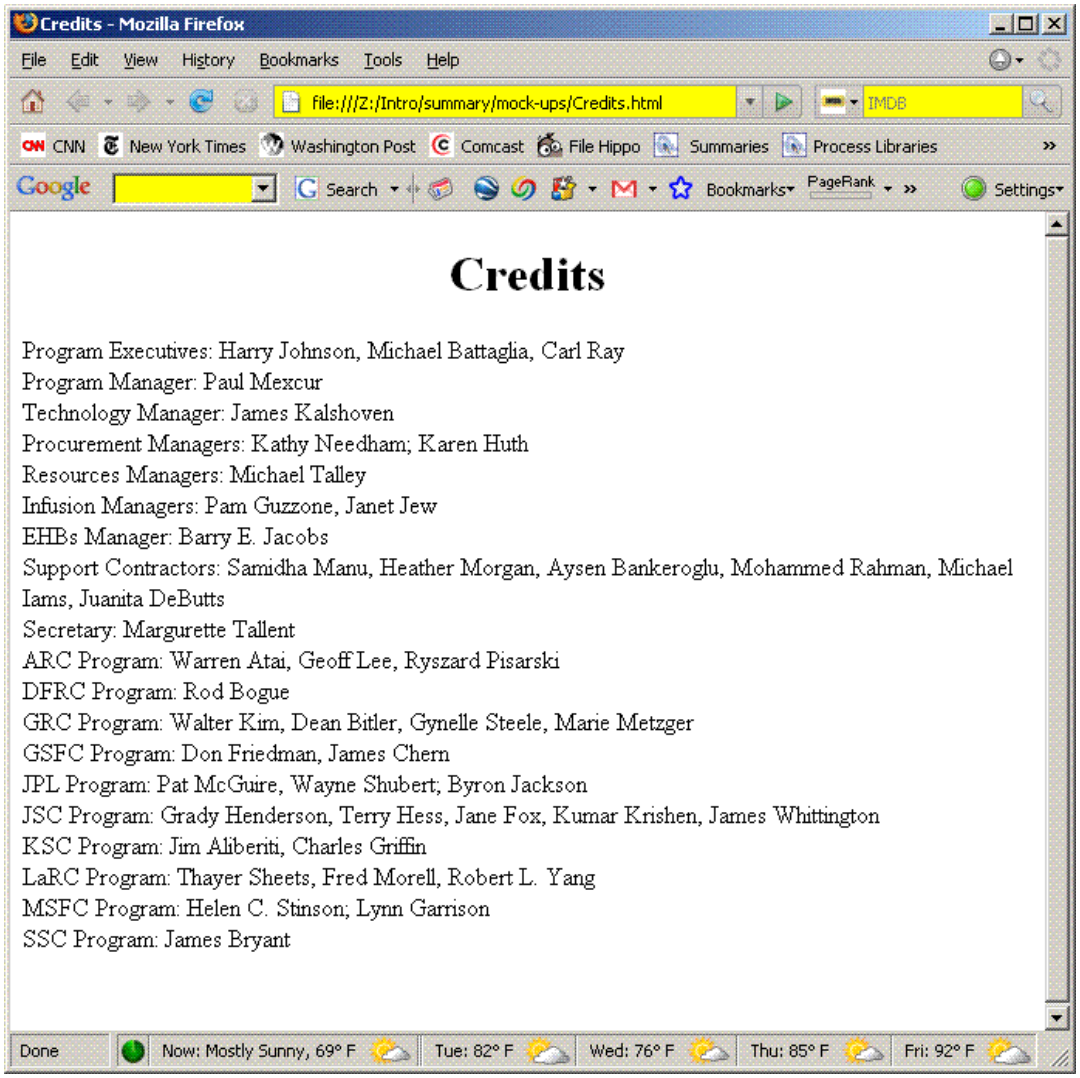
Task	Purpose	Suggested Roles	Task Lead(s)	Estimated Completion Date	Actual Completion Date	Documents					
						Document	Instructions and Samples	Document Lead(s)	Estimated Completion Date	Actual Completion Date	Document Location(s)
Administration	The purpose of this task is to administer the design of SBIR/STTR Phase II Contract Administration.	Procurement Manager, Contracting Officer, Contract Specialist, Procurement Reviewer, COTR, JPL Technical Monitor, Awardee, Advisor, Program Manager/Program Executive, Mission Directorate Representative, Topic Manager, Subtopic Manager, Field Center Program Manager, Technology Infusion Manager, Budget Personnel	Helen Stinson	07/23/07	08/23/07	Document Library	Instructions and Samples	Helen Stinson	06/23/07	07/23/07	Library: NS2034
Planning	The purpose of this task is to plan the design of SBIR/STTR Phase II Contract Administration.	Procurement Manager, Contracting Officer, Contract Specialist, Procurement Reviewer, COTR, JPL Technical Monitor, Awardee, Advisor, Program Manager/Program Executive, Mission Directorate Representative, Topic Manager, Subtopic Manager, Field Center Program Manager, Technology Infusion Manager,	Helen Stinson	06/23/07	06/23/07	Planning Document	Instructions and Samples	Helen Stinson	06/23/07	07/23/07	Library: NS2034
						Draft Project Requirements Document	Instructions and Samples	Helen Stinson	06/23/07	07/23/07	Library: NS2034
						Project Plan	Instructions and Samples	Helen Stinson	06/23/07	07/23/07	Library: NS2034
							Instructions and	Helen			Library:

Do... Now: Sunny, 75° F Tue: 87° F Wed: 85° F Thu: 85° F Fri: 85° F Sat: 87° F Sun: 84° F

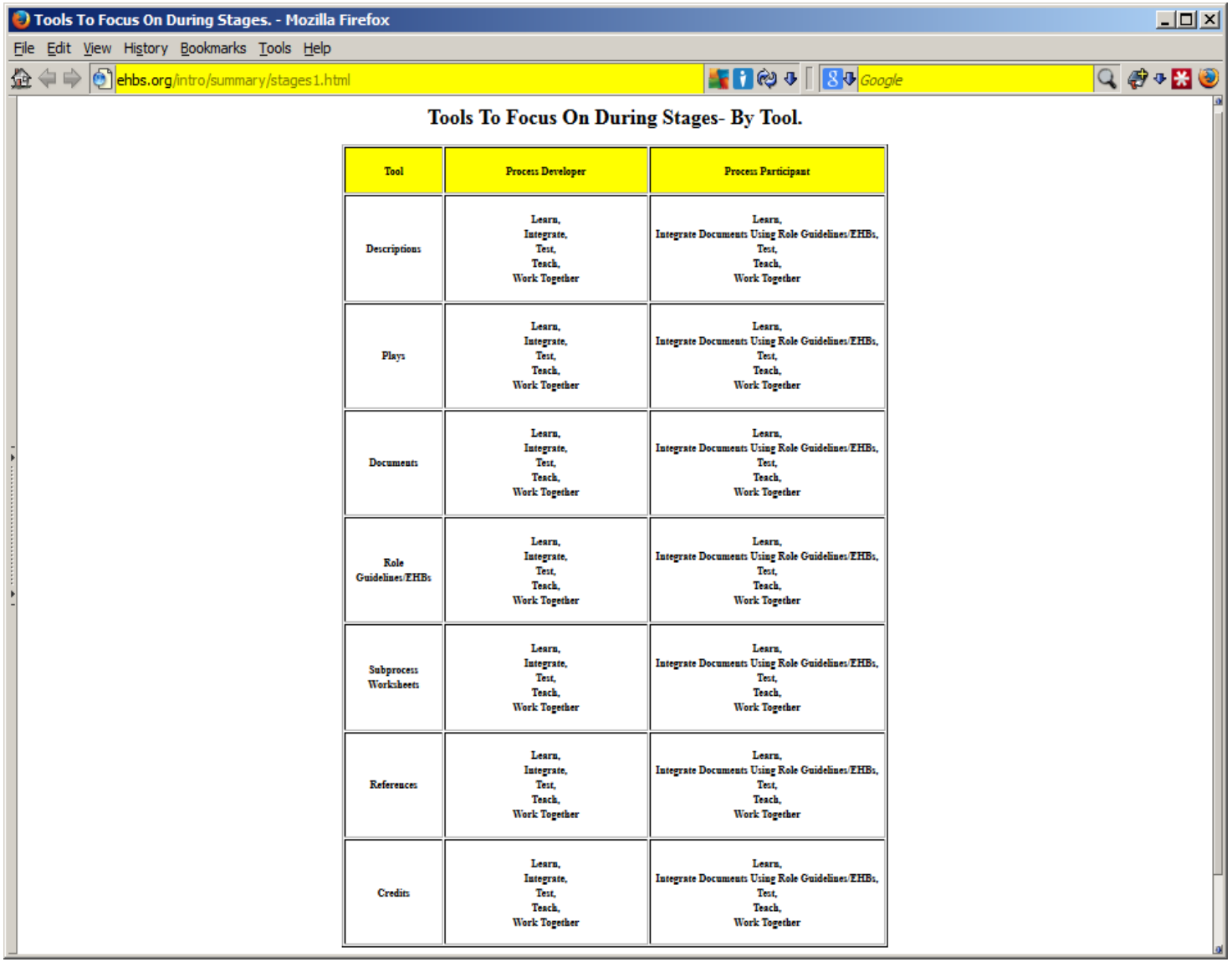
References list other related resources.



Credits acknowledge people's contributions.



Tools that can be focused on during stages- by tool.



Tools To Focus On During Stages- By Tool.

Tool	Process Developer	Process Participant
Descriptions	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Plays	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
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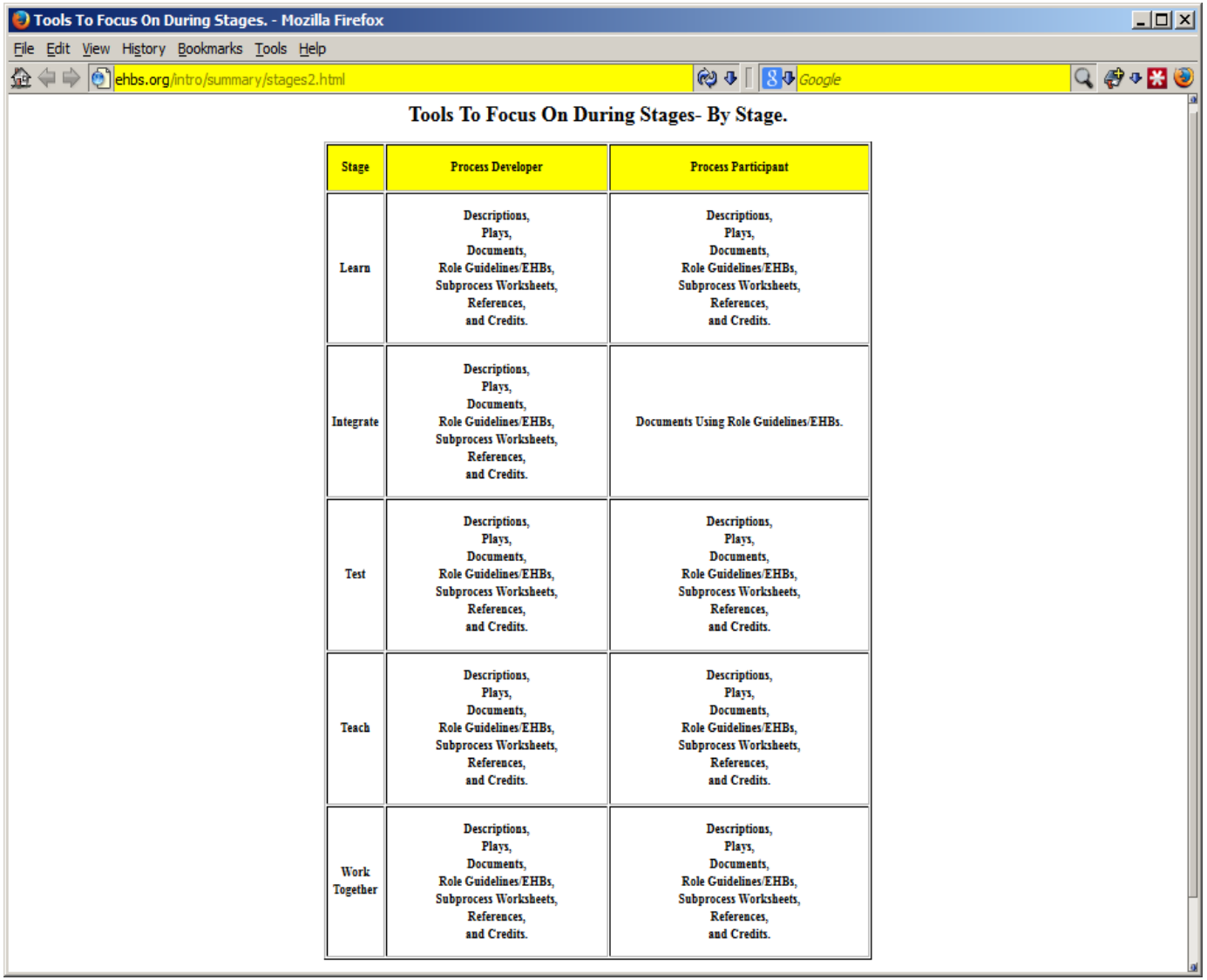

Tools To Focus On During Stages- By Stage.

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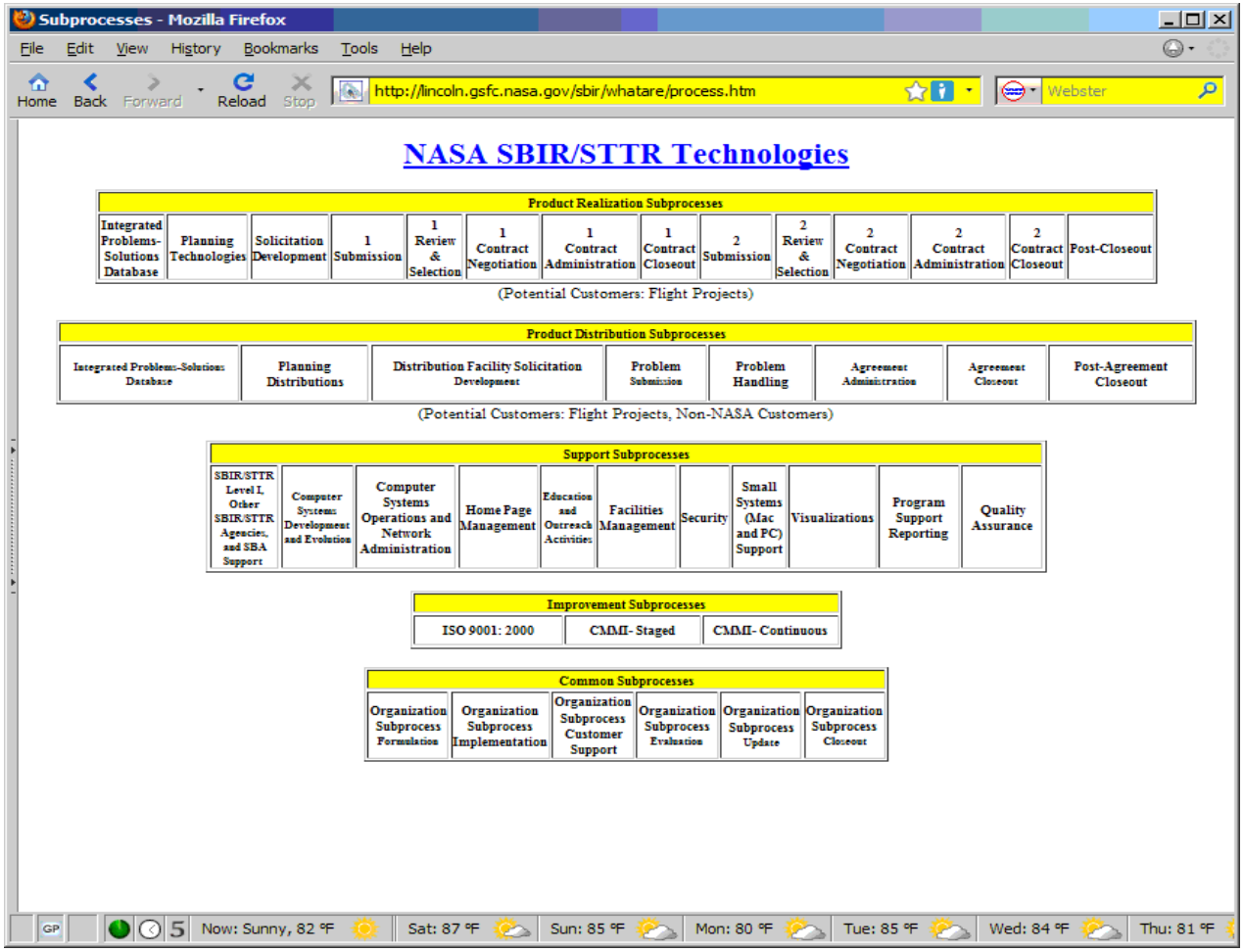
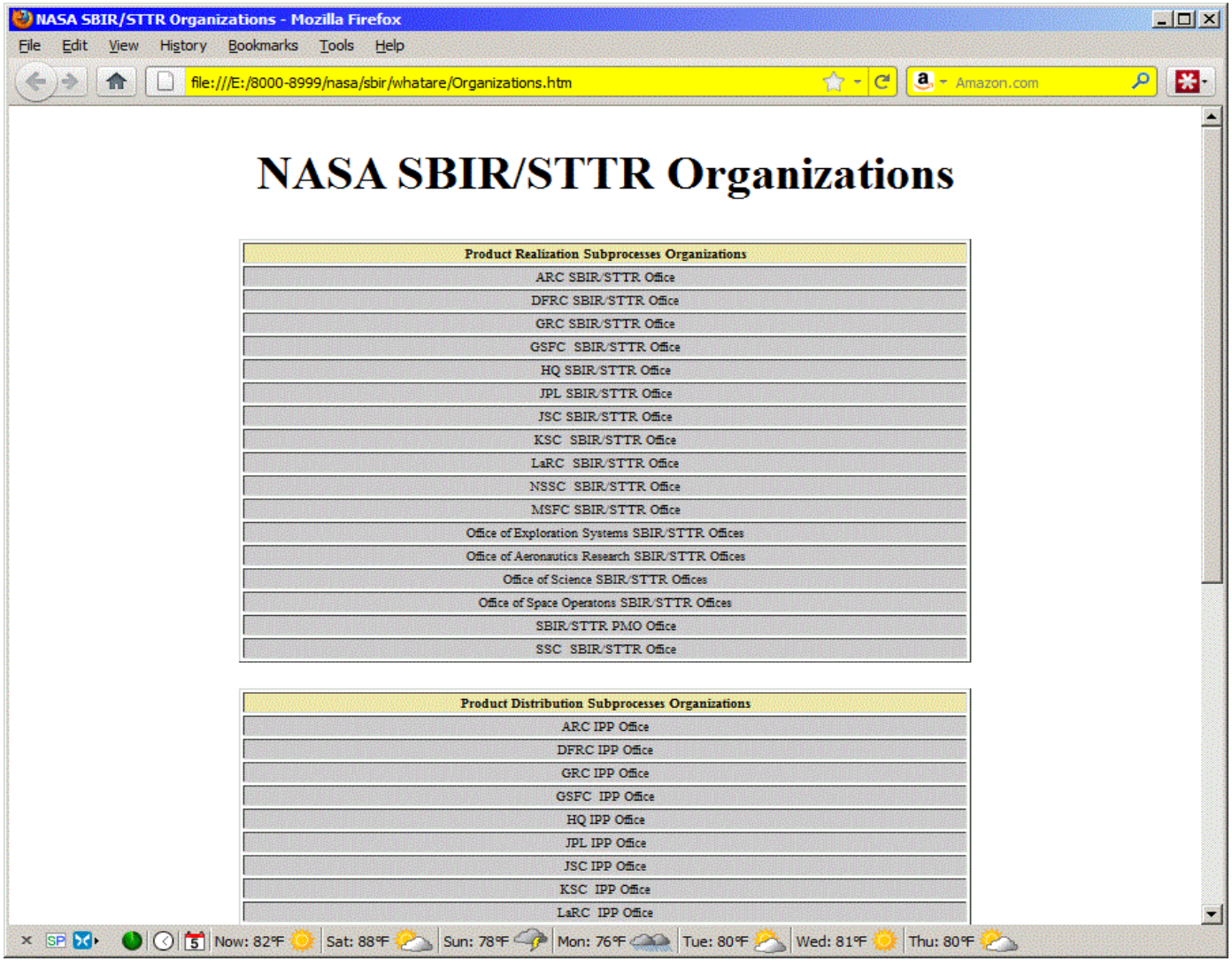
Objective:
Develop Internet-based tools to support the paperless documentation and management of complex distributed processes.



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



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.**

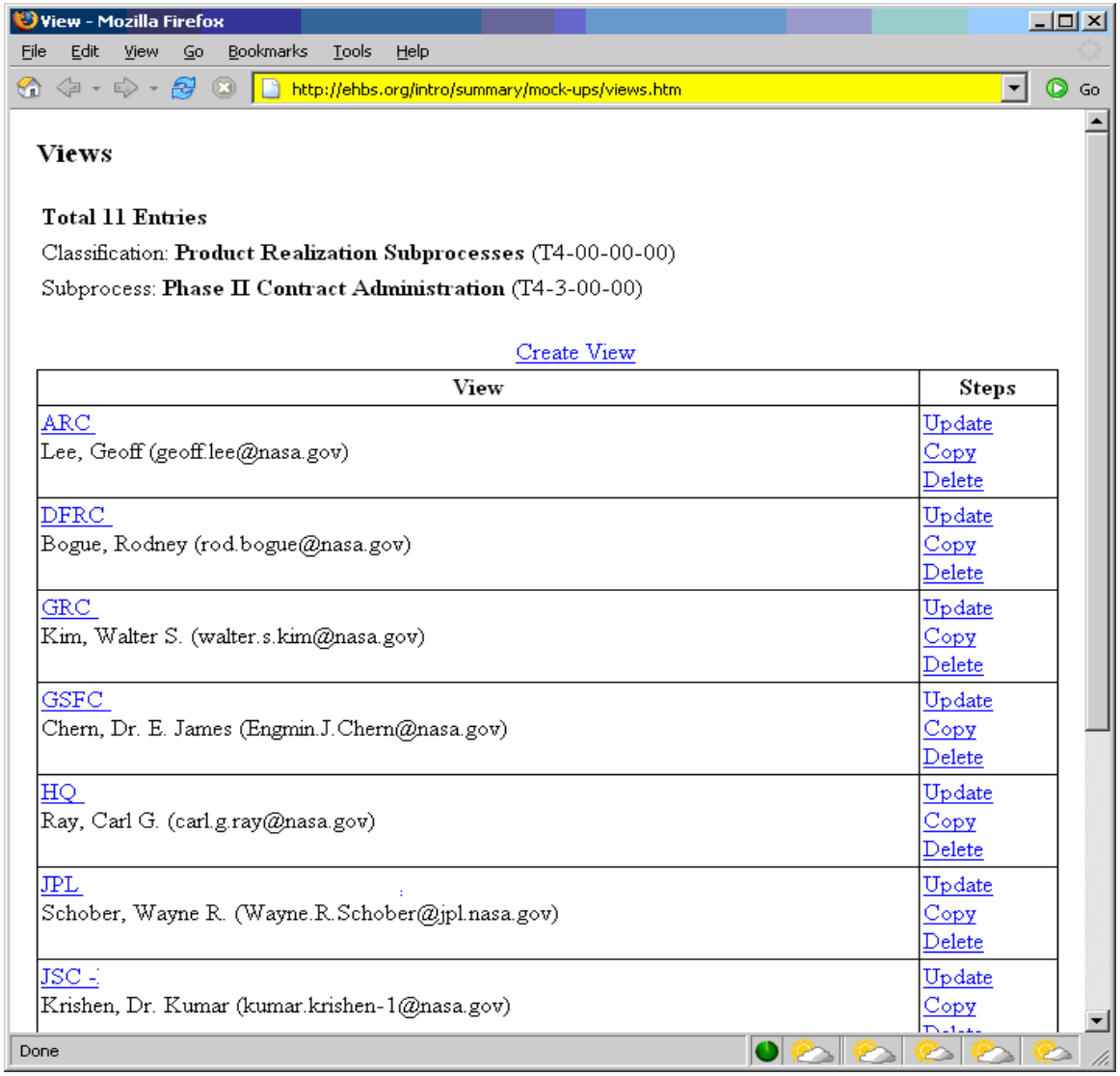
*** Also, called the "Universal Subprocess".**

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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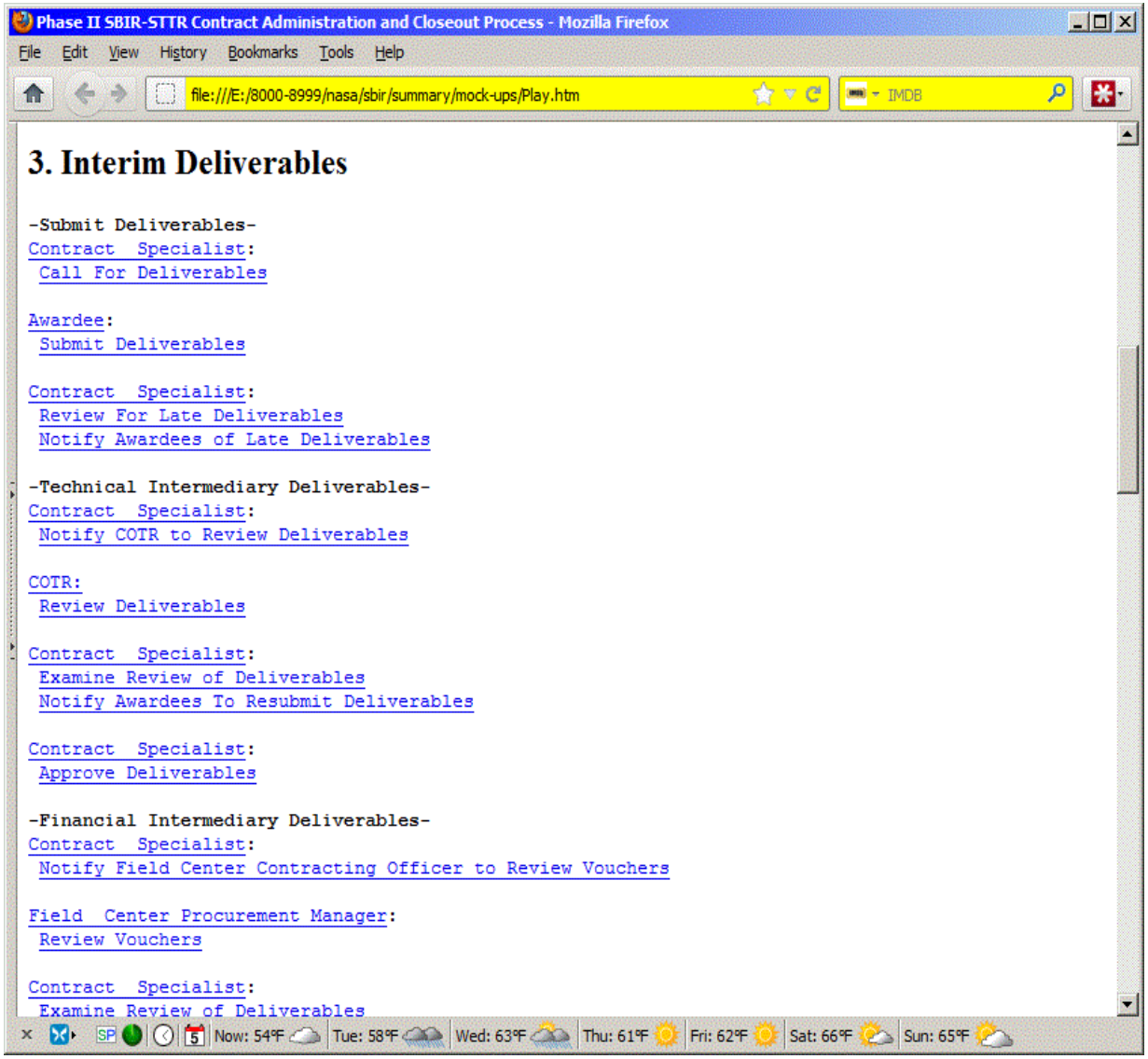
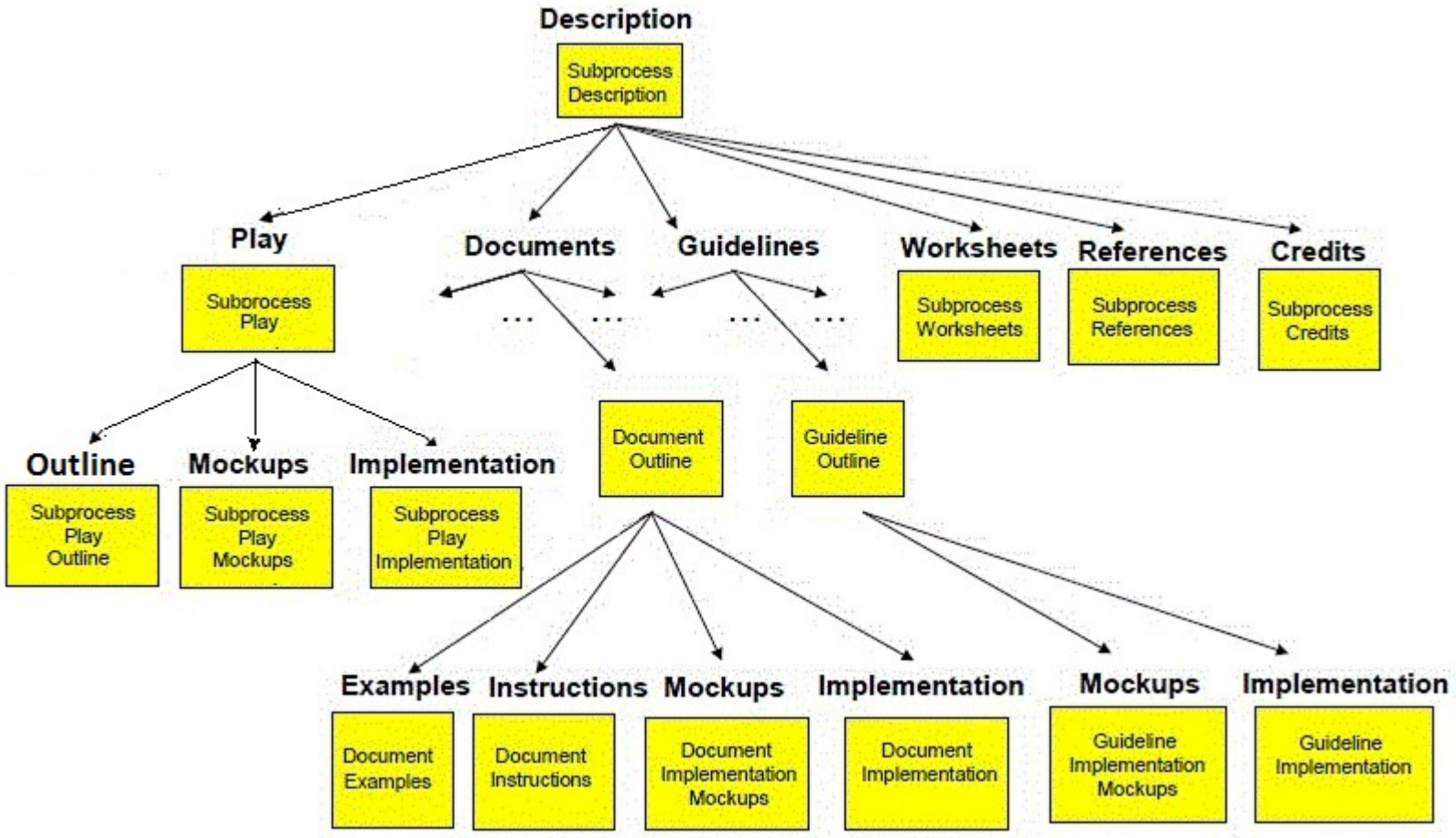


Our basic approach is to wrap organization's subprocesses in a common envelope containing "communication vehicles" that facilitate intra- and inter-organization communication.



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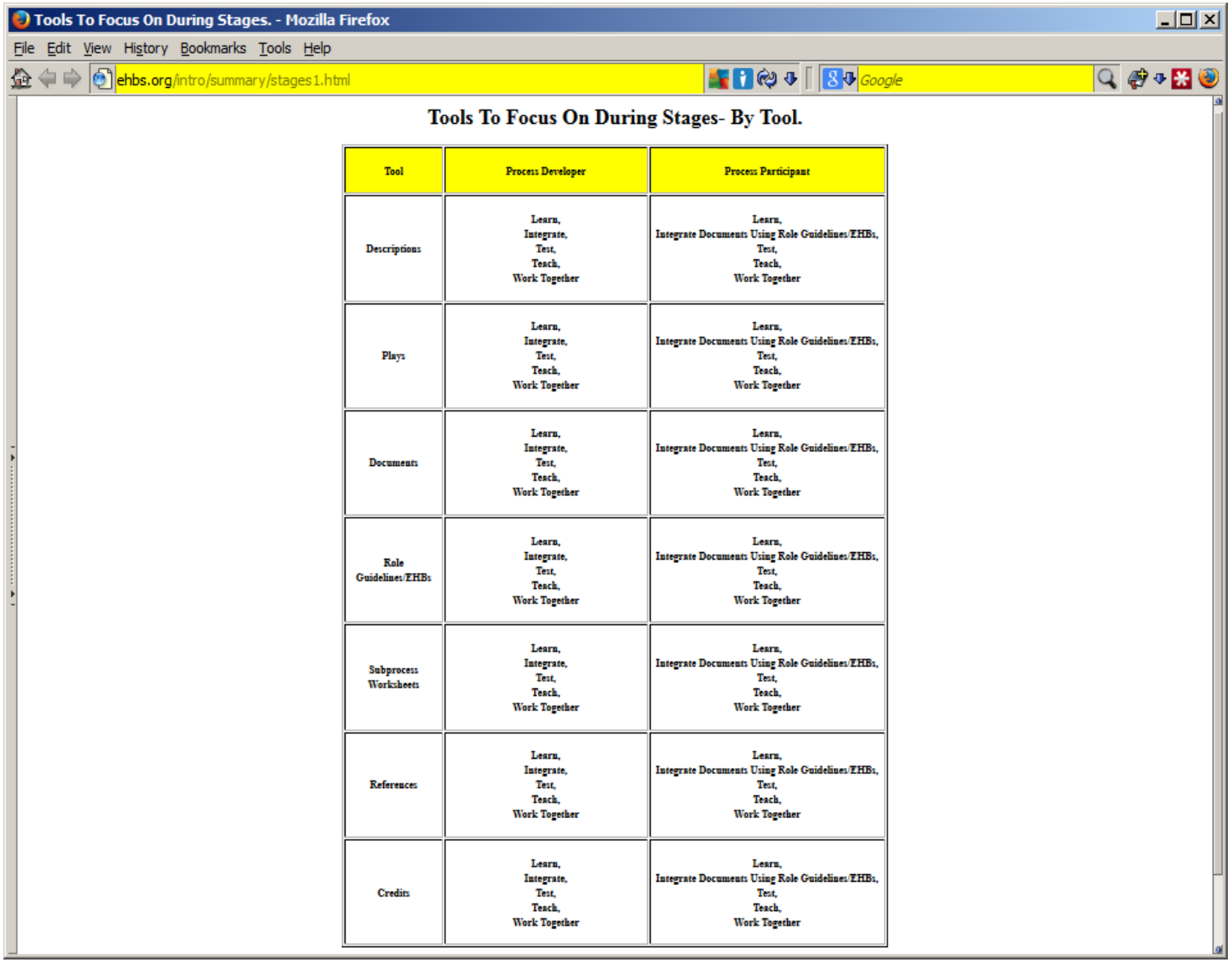

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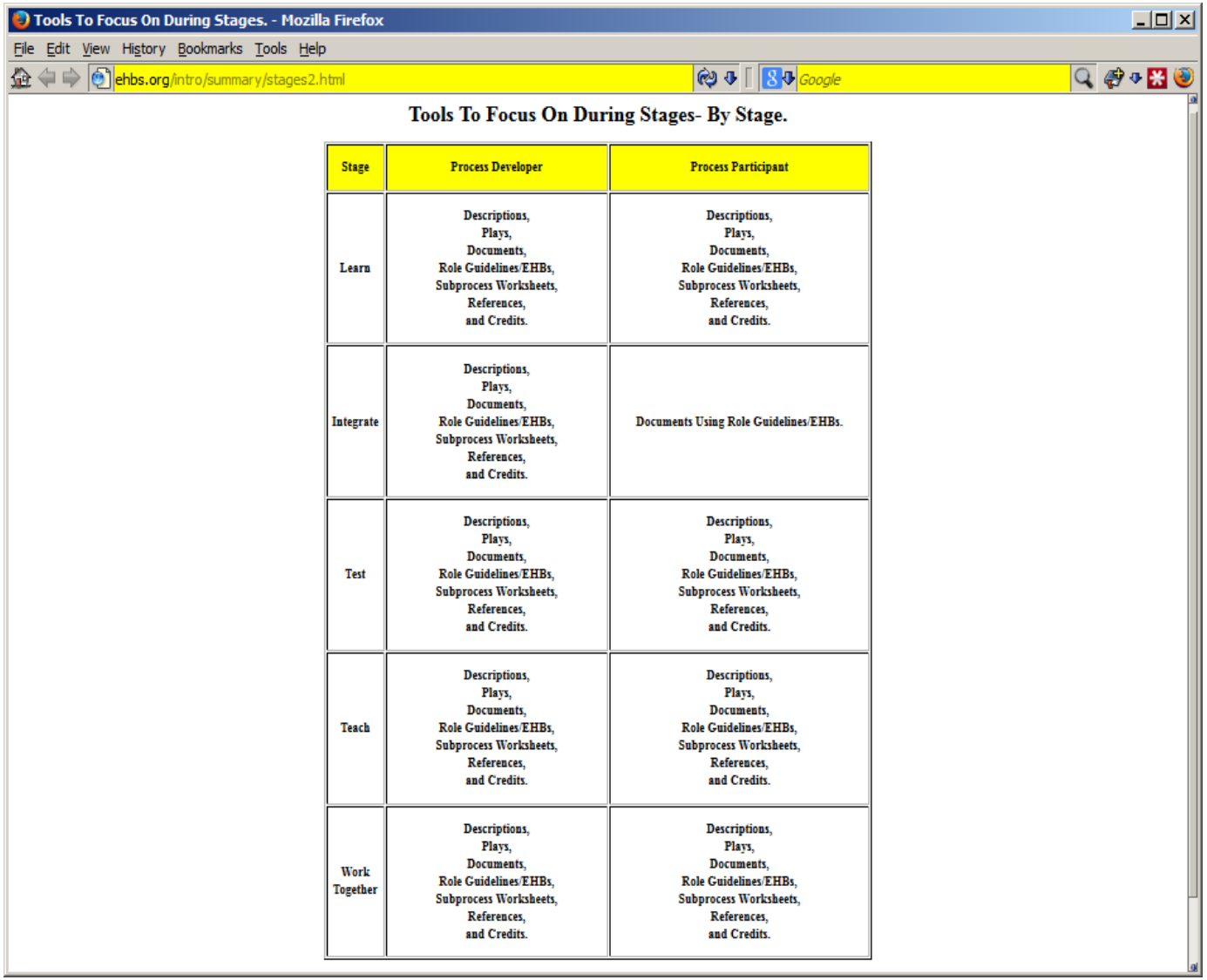

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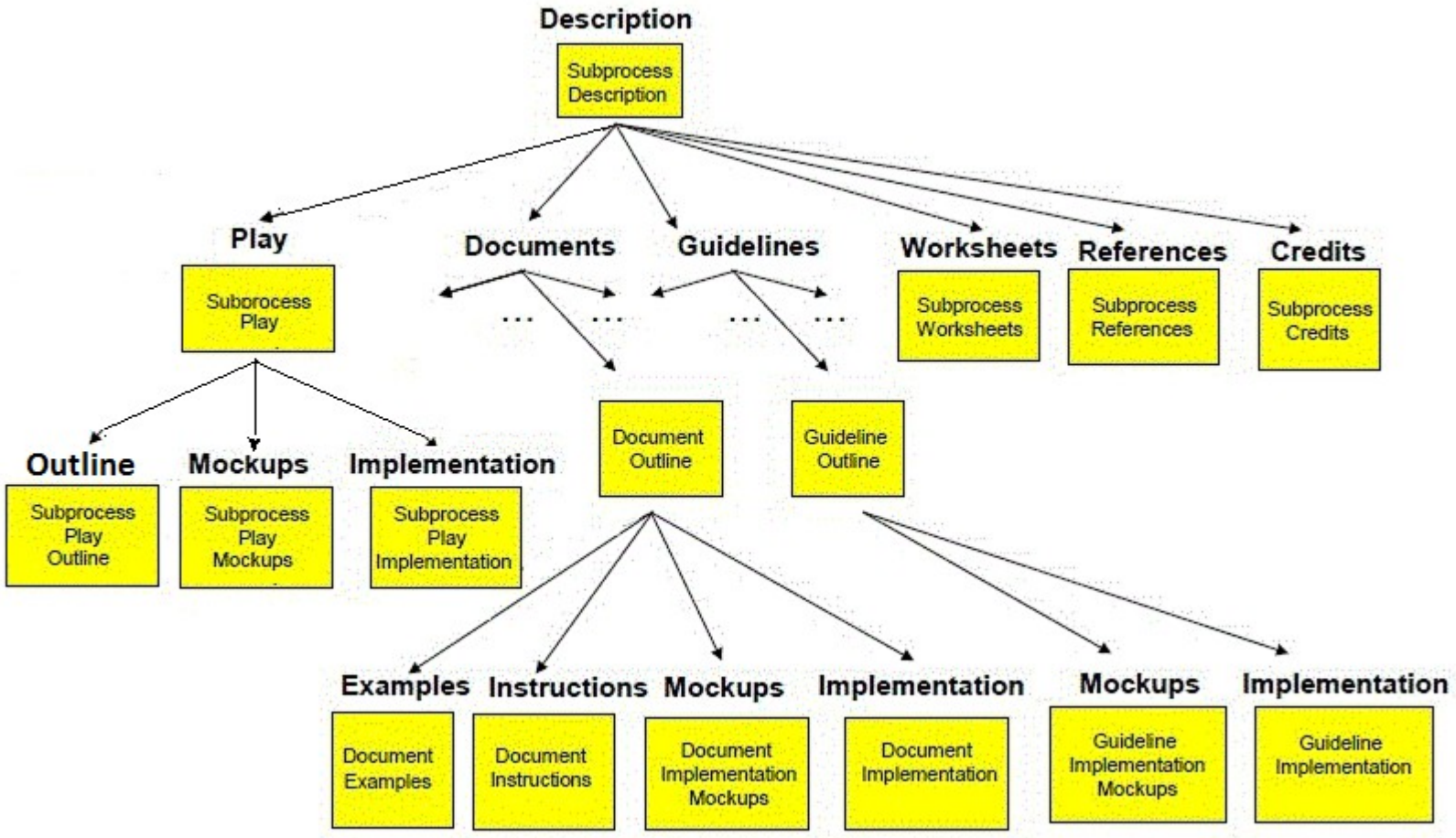
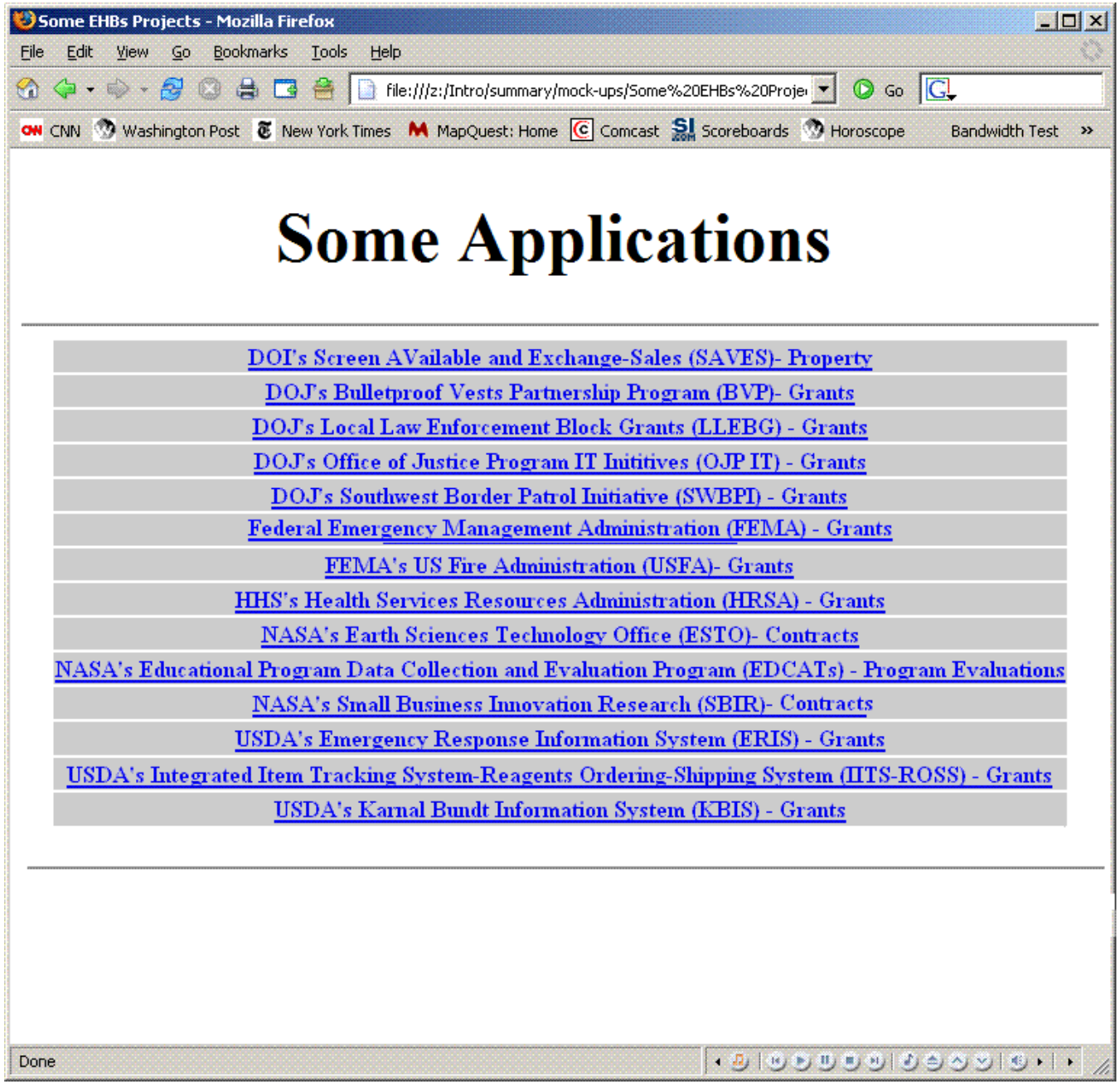
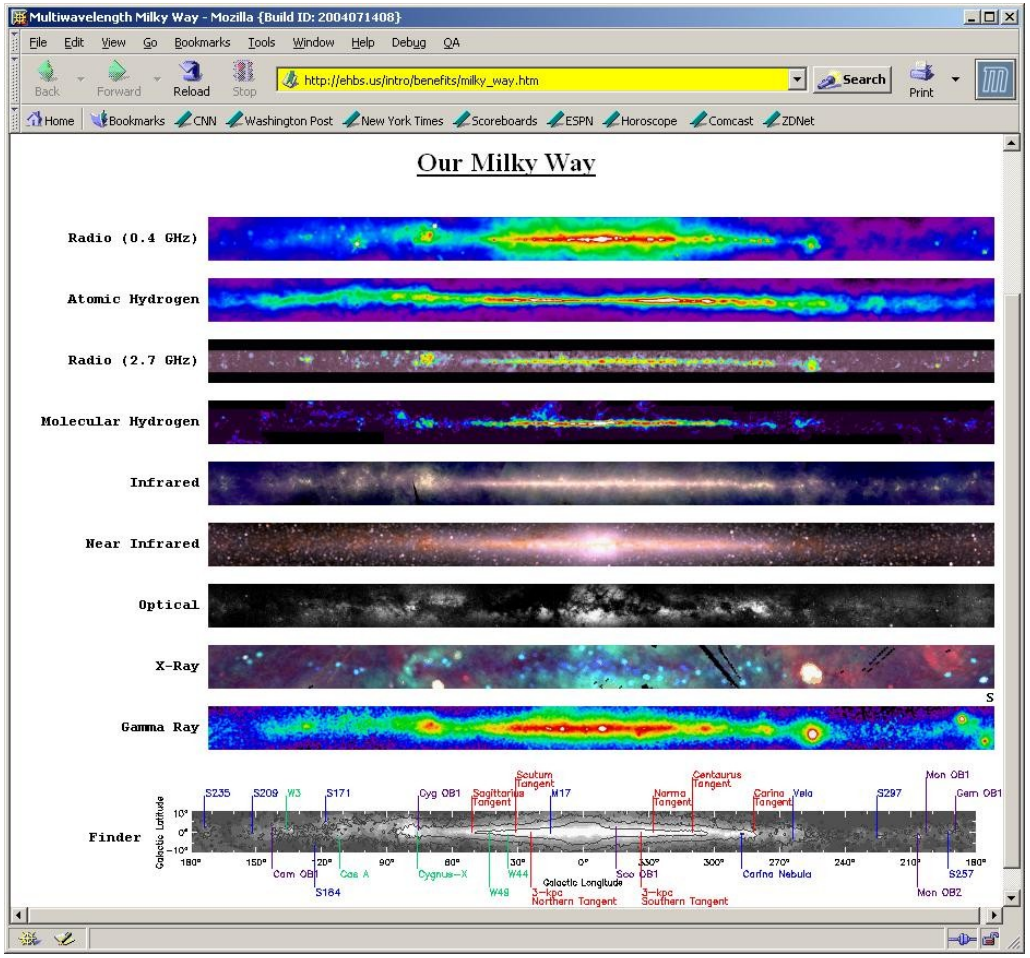



Some EHBs Projects - Mozilla Firefox
File Edit View Go Bookmarks Tools Help
file:///z:/Intro/summary/mock-ups/Some%20EHBs%20Proje
Go
CNN Washington Post New York Times MapQuest: Home Comcast Scoreboards Horoscope Bandwidth Test
Some Applications
DOI's Screen AVailable and Exchange-Sales (SAVES)- Property
DOJ's Bulletproof Vests Partnership Program (BVP)- Grants
DOJ's Local Law Enforcement Block Grants (LLEBG) - Grants
DOJ's Office of Justice Program IT Initiatives (OJP IT) - Grants
DOJ's Southwest Border Patrol Initiative (SWBPI) - 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
USDA's Integrated Item Tracking System-Reagents Ordering-Shipping System (IITS-ROSS) - Grants
USDA's Karnal Bundt Information System (KBIS) - Grants
Done

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



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]

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Jaques:
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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.

Theatre of Dionysus- Athens, Greece

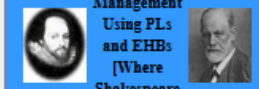
For More Details

File Edit View History Bookmarks Tools Help

EHBs Home Page

ehbs.us

Search



Complex Process Management Using PLs and EHBs [Where Shakespeare Meets Freud]

Complex Process Management Using Process Libraries and Electronic Handbooks

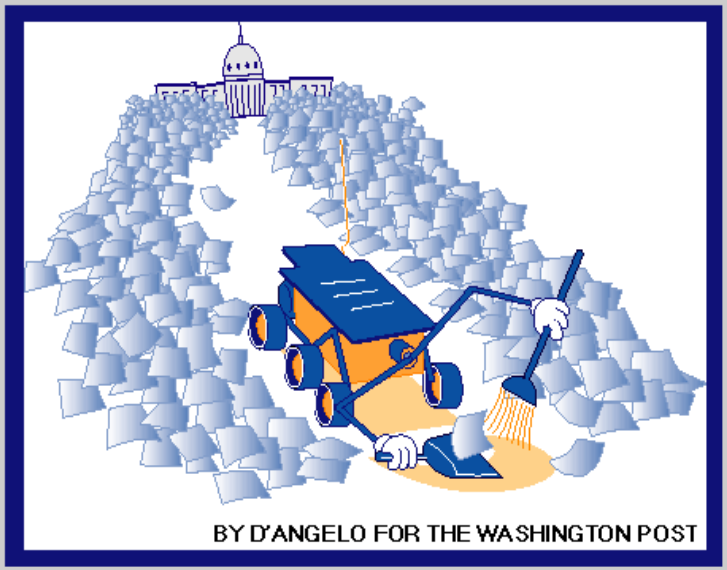
[Where Shakespeare Meets Freud]

Home

1. What are PLs and EHBs?
2. Some Quick Summaries
3. Some Applications
4. In The Press
5. Experiences
6. Some Papers
7. Some Demonstration Tools
8. Some Subprocesses and Their Documentations
9. Assembly Line Processes
10. Benefits

White Paper
Book

How Can I Apply These To My Organization's Processes?



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[Mini-Bio]

Now: 64°F Sun: 83°F Mon: 60°F Tue: 62°F Wed: 76°F Thu: 78°F Fri: 62°F