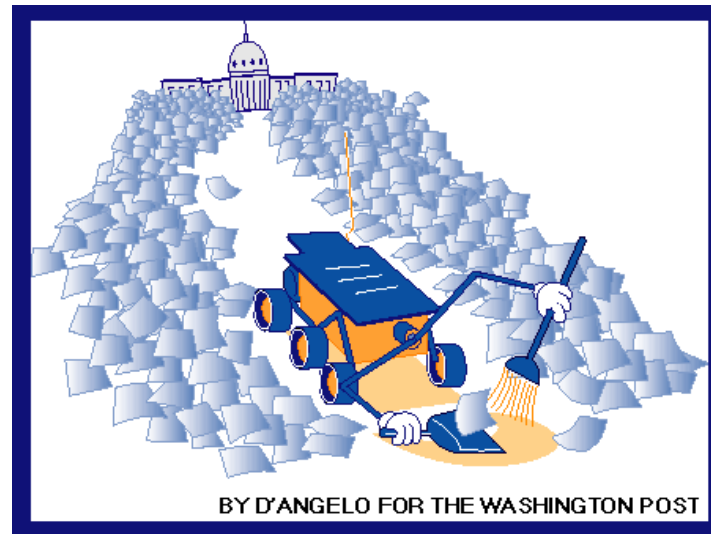
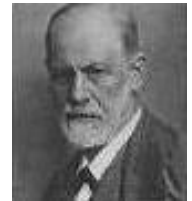


NASA Operations Scenarios Resources Management Using Process Libraries and Electronic Handbooks

(Where Shakespeare Meets Freud)



Demonstration



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

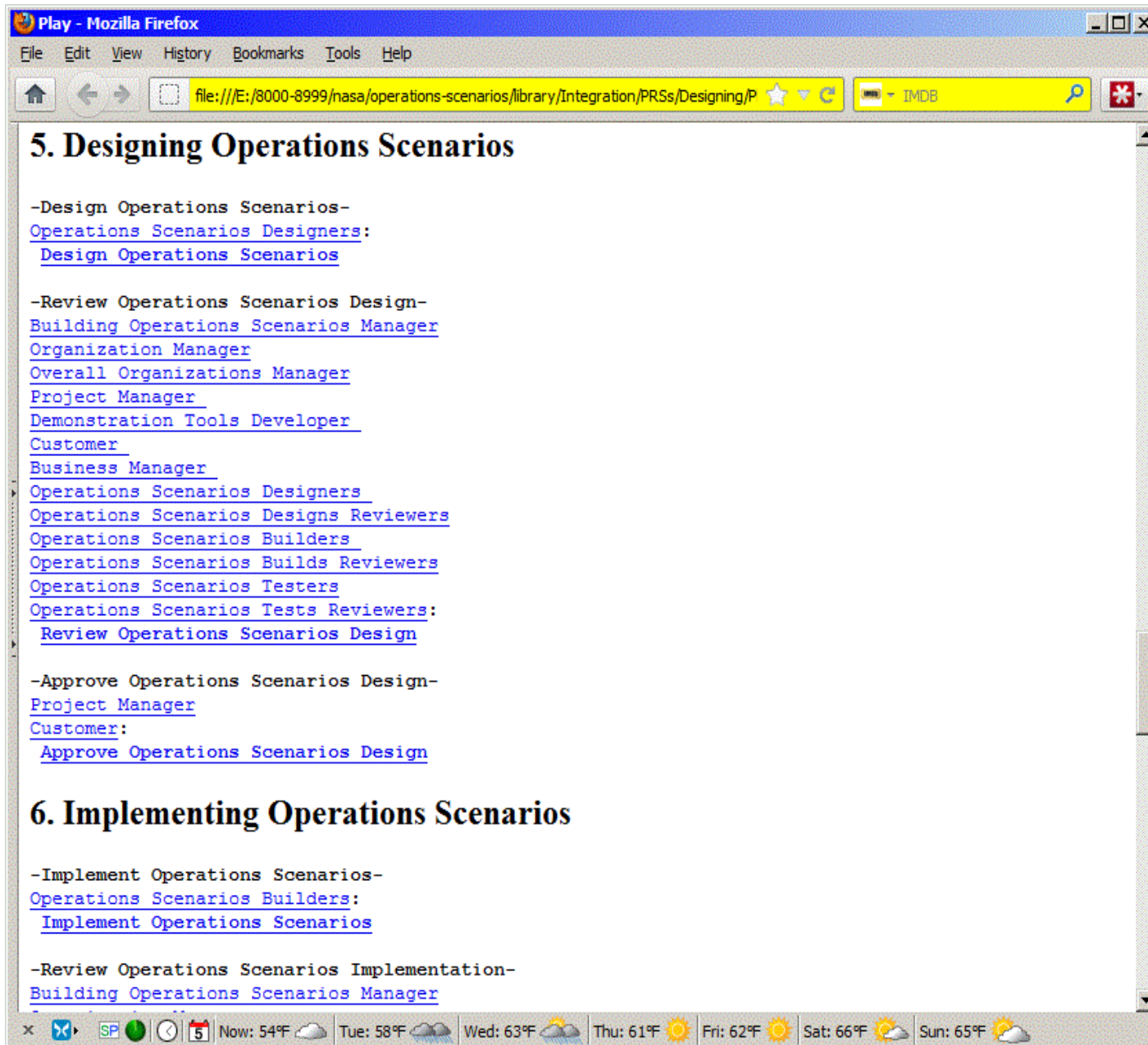
The Bottom Line:

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

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

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

Plays describe subprocess execution.



The screenshot shows a Mozilla Firefox browser window with the following content:

5. Designing Operations Scenarios

-Design Operations Scenarios-
[Operations Scenarios Designers:](#)
[Design Operations Scenarios](#)

-Review Operations Scenarios Design-
[Building Operations Scenarios Manager](#)
[Organization Manager](#)
[Overall Organizations Manager](#)
[Project Manager](#)
[Demonstration Tools Developer](#)
[Customer](#)
[Business Manager](#)
[Operations Scenarios Designers](#)
[Operations Scenarios Designs Reviewers](#)
[Operations Scenarios Builders](#)
[Operations Scenarios Builds Reviewers](#)
[Operations Scenarios Testers](#)
[Operations Scenarios Tests Reviewers:](#)
[Review Operations Scenarios Design](#)

-Approve Operations Scenarios Design-
[Project Manager](#)
[Customer:](#)
[Approve Operations Scenarios Design](#)

6. Implementing Operations Scenarios

-Implement Operations Scenarios-
[Operations Scenarios Builders:](#)
[Implement Operations Scenarios](#)

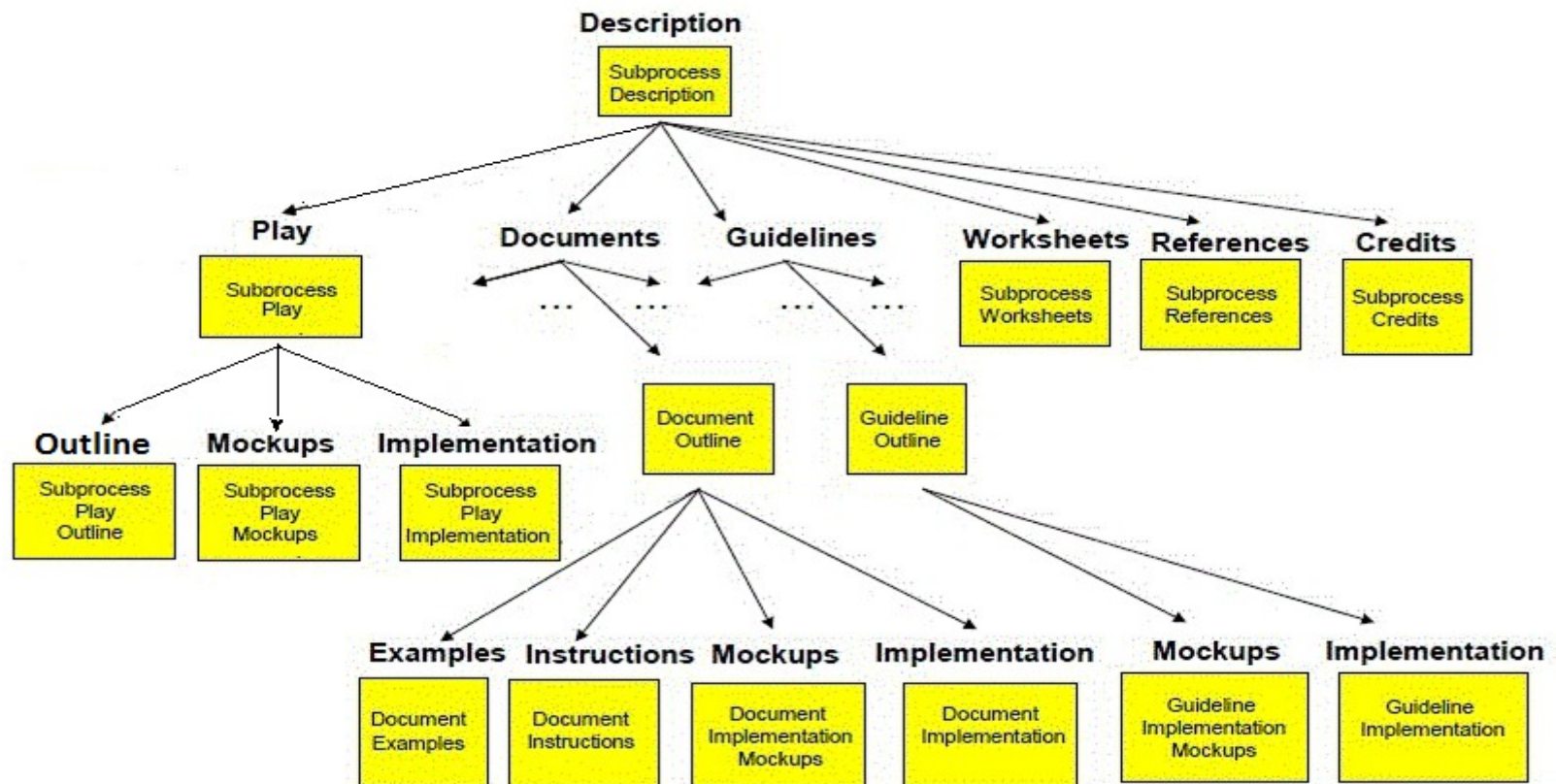
-Review Operations Scenarios Implementation-
[Building Operations Scenarios Manager](#)

The browser window also shows a taskbar at the bottom with the date '5' and weather forecasts for the week: Now: 54°F, Tue: 58°F, Wed: 63°F, Thu: 61°F, Fri: 62°F, Sat: 66°F, Sun: 65°F.

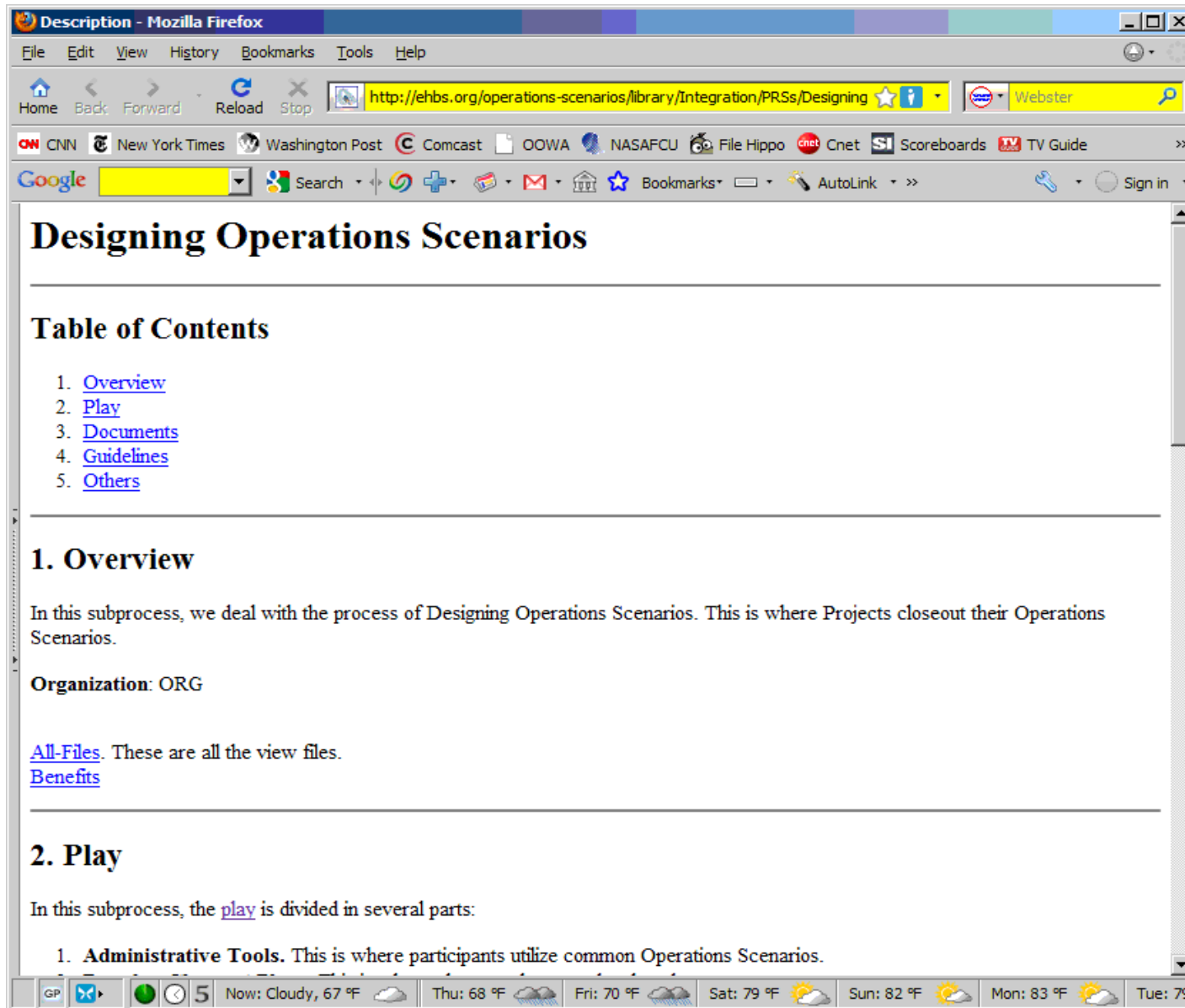
Benefits:

- 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.**

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



Descriptions summarize subprocesses.



The screenshot shows a Mozilla Firefox browser window with the address bar displaying <http://ehbs.org/operations-scenarios/library/Integration/PRSs/Designing>. The page content includes a title, a table of contents, and the beginning of the '1. Overview' section.

Designing Operations Scenarios

Table of Contents

- [1. Overview](#)
- [2. Play](#)
- [3. Documents](#)
- [4. Guidelines](#)
- [5. Others](#)

1. Overview

In this subprocess, we deal with the process of Designing Operations Scenarios. This is where Projects closeout their Operations Scenarios.

Organization: ORG

[All-Files](#). These are all the view files.
[Benefits](#)

2. Play

In this subprocess, the [play](#) is divided in several parts:

- 1. Administrative Tools.** This is where participants utilize common Operations Scenarios.

The browser's taskbar at the bottom shows the system tray with a clock at 5:00, weather for 'Now: Cloudy, 67 °F', and a forecast for the next few days: Thu: 68 °F, Fri: 70 °F, Sat: 79 °F, Sun: 82 °F, Mon: 83 °F, Tue: 79.

Plays describe subprocess execution.

The screenshot shows a Mozilla Firefox browser window with the following content:

5. Designing Operations Scenarios

-Design Operations Scenarios-
[Operations Scenarios Designers:](#)
[Design Operations Scenarios](#)

-Review Operations Scenarios Design-
[Building Operations Scenarios Manager](#)
[Organization Manager](#)
[Overall Organizations Manager](#)
[Project Manager](#)
[Demonstration Tools Developer](#)
[Customer](#)
[Business Manager](#)
[Operations Scenarios Designers](#)
[Operations Scenarios Designs Reviewers](#)
[Operations Scenarios Builders](#)
[Operations Scenarios Builds Reviewers](#)
[Operations Scenarios Testers](#)
[Operations Scenarios Tests Reviewers:](#)
[Review Operations Scenarios Design](#)

-Approve Operations Scenarios Design-
[Project Manager](#)
[Customer:](#)
[Approve Operations Scenarios Design](#)

6. Implementing Operations Scenarios

-Implement Operations Scenarios-
[Operations Scenarios Builders:](#)
[Implement Operations Scenarios](#)

-Review Operations Scenarios Implementation-
[Building Operations Scenarios Manager](#)

The browser window also shows a taskbar at the bottom with the date '5' and a weather forecast for the week: Now: 54°F, Tue: 58°F, Wed: 63°F, Thu: 61°F, Fri: 62°F, Sat: 66°F, Sun: 65°F.

Documents describe subprocess data.

8. **Analysis.** This 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.
- [Operation Scenarios Contract](#). These are used to represent the Operation Scenarios Contract.
- [Process Library](#). These are used to represent the Process Library.
- [Implementation Plans](#). These are used to represent the Implementation Plans.
- [Operation Scenarios Designs](#). These are used to represent the Operation Scenarios Designs.
- [Operation Scenarios Designs Reviews](#). These are used to represent the Operation Scenarios Designs Review.
- [Operation Scenarios Builds](#). These are used to represent the Operation Scenarios Builds.
- [Operation Scenarios Builds Reviews](#). These are used to represent the Operation Scenarios Builds Reviews.
- [Operation Scenarios Tests](#). These are used to represent the Operation Scenarios Tests.
- [Operation Scenarios Tests Reviews](#). These are used to represent the Operation Scenarios Tests Reviews.

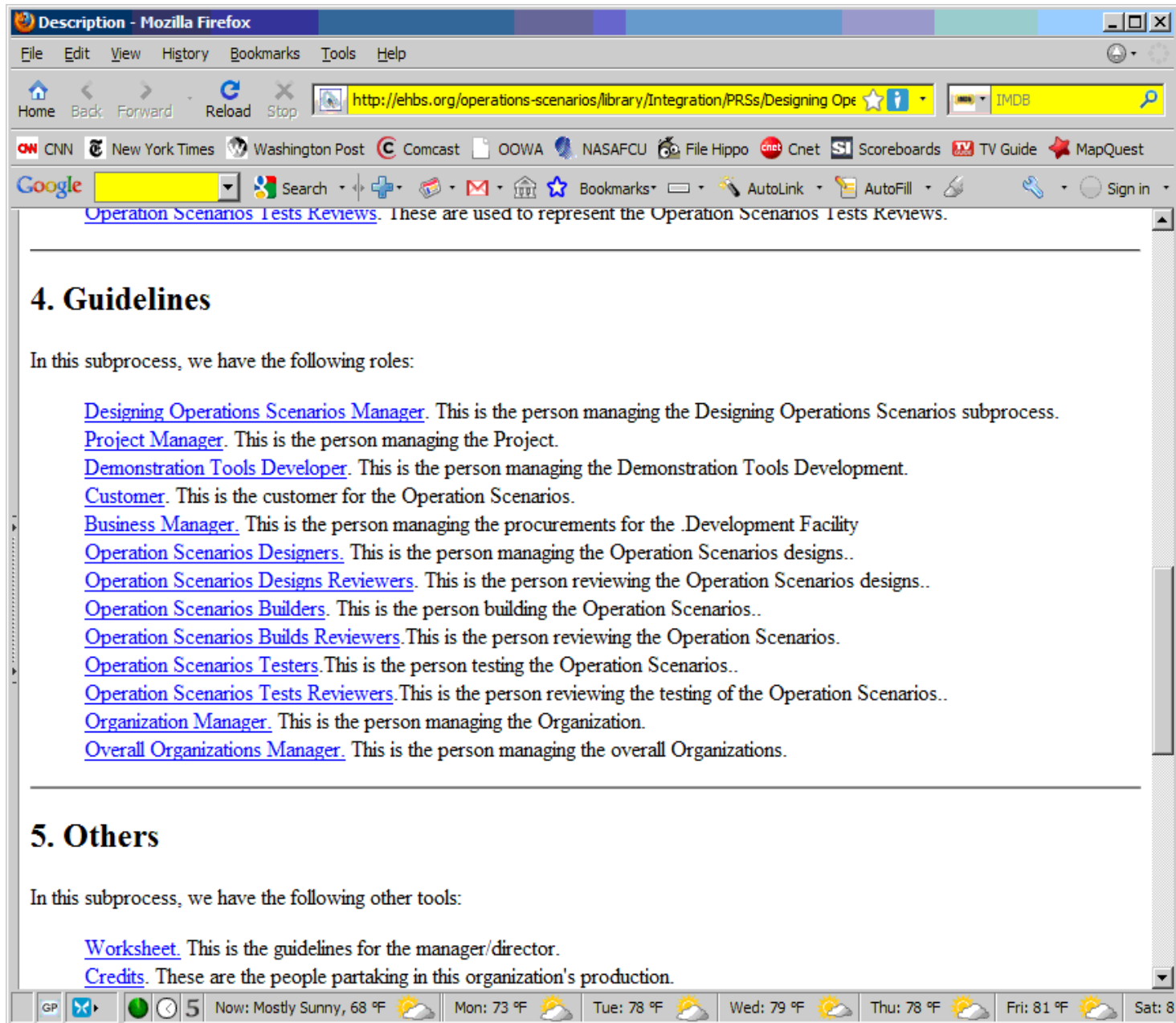
4. Guidelines

In this subprocess, we have the following roles:

- [Designing Operations Scenarios Manager](#). This is the person managing the Designing Operations Scenarios 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 Operation Scenarios.
- [Business Manager](#). This is the person managing the requirements for the Development Facility.

The browser window shows the URL: <http://ehbs.org/operations-scenarios/library/Integration/PRs/Designing Ope>. The taskbar at the bottom shows the system tray with a clock at 5:00 and weather information for the week.

Guidelines describe user subprocesses.



The screenshot shows a Mozilla Firefox browser window. The address bar contains the URL <http://ehbs.org/operations-scenarios/library/Integration/PRs/Designing Operations Scenarios Manager>. The page content includes a link to [Operation Scenarios Tests Reviews](#) and a section titled **4. Guidelines**. Below this section, it states: "In this subprocess, we have the following roles:" followed by a list of roles and their descriptions. The roles listed are: [Designing Operations Scenarios Manager](#), [Project Manager](#), [Demonstration Tools Developer](#), [Customer](#), [Business Manager](#), [Operation Scenarios Designers](#), [Operation Scenarios Designs Reviewers](#), [Operation Scenarios Builders](#), [Operation Scenarios Builds Reviewers](#), [Operation Scenarios Testers](#), [Operation Scenarios Tests Reviewers](#), [Organization Manager](#), and [Overall Organizations Manager](#). Below the guidelines section is another section titled **5. Others**, which states: "In this subprocess, we have the following other tools:" followed by [Worksheet](#) and [Credits](#). The browser's status bar at the bottom shows the current time as 5:00 and the weather as "Now: Mostly Sunny, 68 °F".

[Operation Scenarios Tests Reviews](#). These are used to represent the Operation Scenarios Tests Reviews.

4. Guidelines

In this subprocess, we have the following roles:

- [Designing Operations Scenarios Manager](#). This is the person managing the Designing Operations Scenarios 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 Operation Scenarios.
- [Business Manager](#). This is the person managing the procurements for the .Development Facility
- [Operation Scenarios Designers](#). This is the person managing the Operation Scenarios designs..
- [Operation Scenarios Designs Reviewers](#). This is the person reviewing the Operation Scenarios designs..
- [Operation Scenarios Builders](#). This is the person building the Operation Scenarios..
- [Operation Scenarios Builds Reviewers](#). This is the person reviewing the Operation Scenarios.
- [Operation Scenarios Testers](#). This is the person testing the Operation Scenarios..
- [Operation Scenarios Tests Reviewers](#). This is the person reviewing the testing of the Operation Scenarios..
- [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.
- [Credits](#). These are the people partaking in this organization's production.

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/operations-scenarios/summary/mockups/Worksheet.htm

IMDB

Subprocess Worksheet

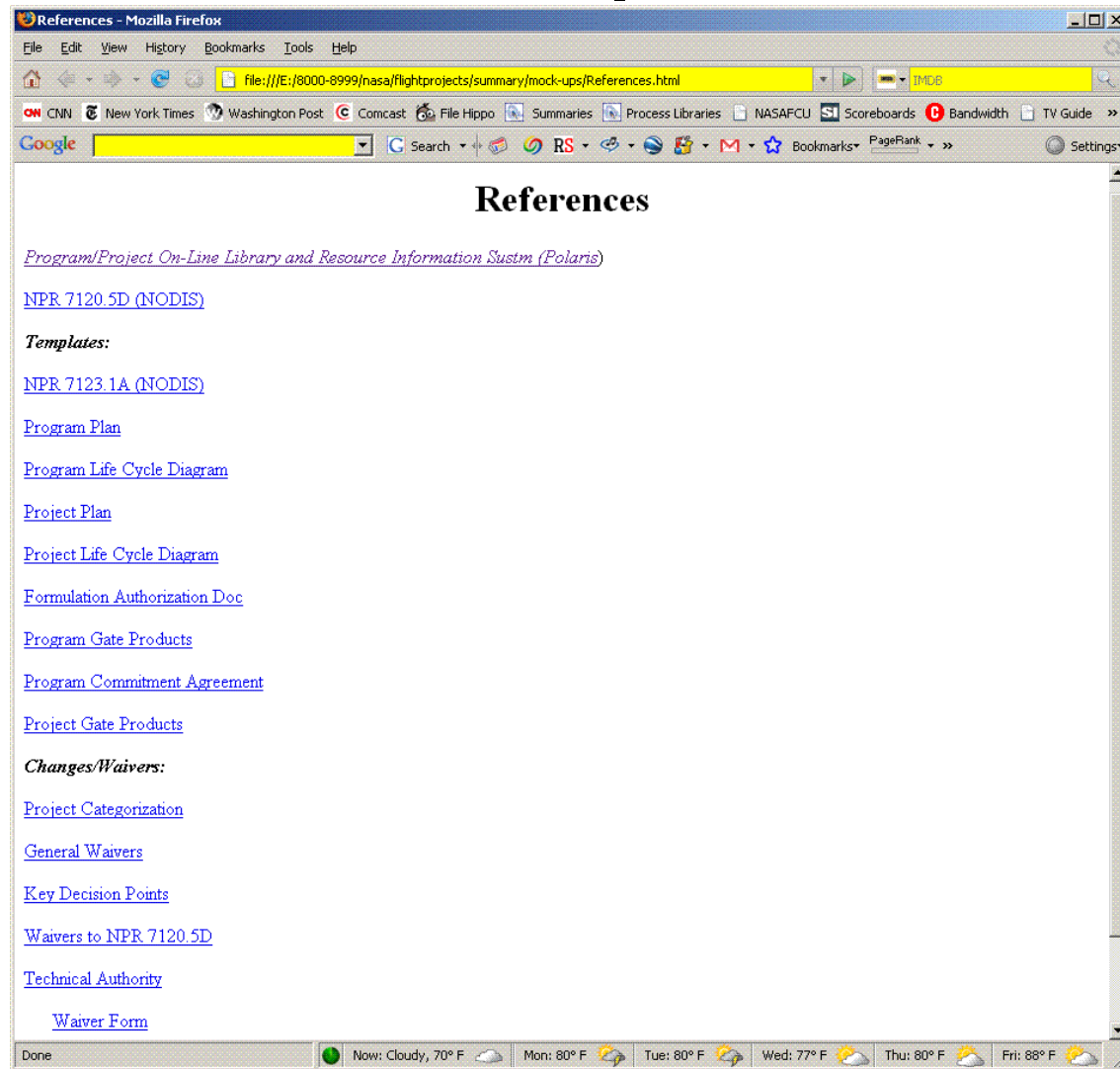
Subprocess: Designing Operations Scenarios

In this subprocess, we deal with the process of Designing Operations Scenarios. This is where Projects design, build, and test their Operations Scenarios.

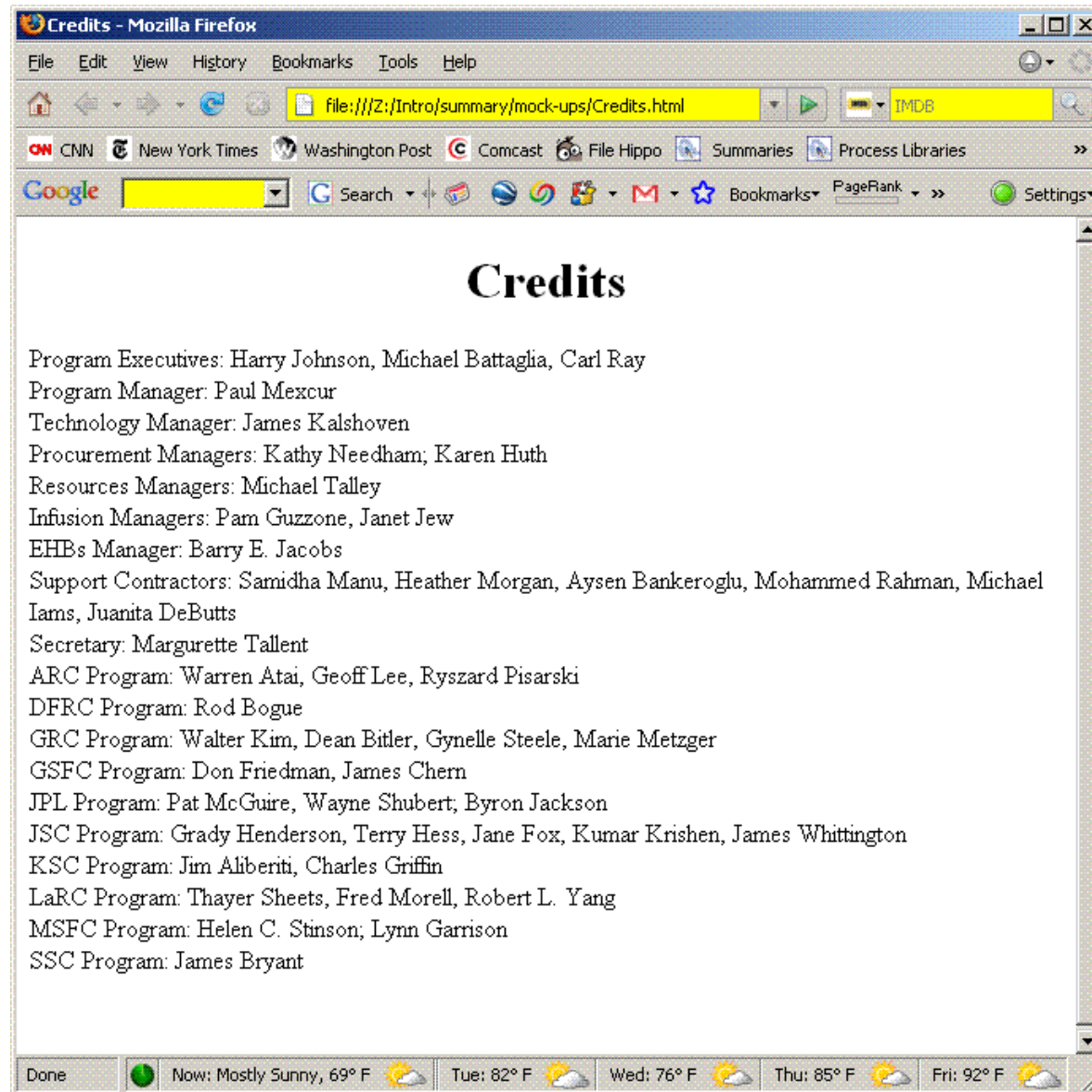
Task	Purpose	Suggested Roles	Task Lead(s)	Estimated Completion Date	Actual Completion Date	Documents					
						Document	Instructions and Samples	Document Lead(s)	Estimated Completion Date	Actual Completion Date	Document Location(s)
Administration	The purpose of this task is to administer the design of Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Planning	The purpose of this task is to plan the design of Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	06/23/07	06/23/07	Planning Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Draft Project Requirements Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Designing Operations Scenarios	The purpose of this task is to design the Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official,	James Green	07/23/07	078/23/07	Design Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Review Forms	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034

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. - Mozilla Firefox

File Edit View History Bookmarks Tools Help

ehbs.org/intro/summary/stages1.html

Google

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
Documents	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Role Guidelines/EHBs	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Subprocess Worksheets	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
References	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Credits	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together

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

Tools To Focus On During Stages. - Mozilla Firefox

File Edit View History Bookmarks Tools Help

ehbs.org/intro/summary/stages2.html

Google

Tools To Focus On During Stages- By Stage.

Stage	Process Developer	Process Participant
Learn	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.
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.

Overview of NASA Operation Scenarios Process Library

The objective of this tool is to help NASA Operation Scenarios Managers (and Staff) to *quickly learn* to build and manage flight project operation scenarios. We present our approach in five bullets.

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

For more information on the NASA Operation Scenarios Process Library see: [paper](#), [summary](#), and [other process libraries](#).

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Operations Scenarios

Product Realization Subprocesses												
Integrated Problems-Solutions Database	Planning Operation Scenarios	Operations Scenarios Development Facility Solicitation Development	Submission	Handling	Gathering Requirements	Designing Operations Scenarios	Building Operations Scenarios	Using Operations Scenarios	Improving Operations Scenarios	Revising Operations Scenarios	Closing Operations Scenarios	Post-Closeout

(Potential Customers: Flight Projects)

Product Distribution Subprocesses							
Integrated Problems-Solutions Database	Planning Distributions	Distribution Facility Solicitation Development	Problem Submission	Problem Handling	Agreement Administration	Agreement Closeout	Post-Agreement Closeout

(Potential Customers: Flight Projects, Non-NASA Customers)

Support Subprocesses								
Survey Management	Computer Systems Development and Evolution	Computer Systems Operations and Network Administration	Home Page Management	Operations and Outreach Activities	Facilities Management	Security	Small Systems (Mac and PC) Support	Visualizations

Improvement Subprocesses		
ISO 9001: 2000	CMMI- Staged	CMMI- Continuous

Common Subprocesses					
Organization Subprocess Formulation	Organization Subprocess Implementation	Organization Subprocess Customer Support	Organization Subprocess Evaluation	Organization Subprocess Update	Organization Subprocess Closeout

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

NASA Operations Scenarios Management Organizations

Product Realization Subprocesses Organizations

- Advanced Composition Explorer (ACE)
- ACRIMSAT Mission
- Aura Mission
- Cassini-Huygens Mission
- Chandra X-ray Observatory
- Cosmic Hot Interstellar Plasma Spectrometer (CHIPS)
- Cluster ESA/NASA Mission
- Deep Impact
- ISS Expedition 10
- Fast Auroral Snapshot Explorer (FAST)
- Far Ultraviolet Spectroscopic Explorer (FUSE) Mission
- Galaxy Evolution Explorer (GALEX) Mission
- Genesis Mission
- Geotail Mission
- Gravity Probe B (GPB) Mission
- Gravity Recovery and Climate Experiment
- High Energy Transient Explorer-2 (HETE-2) Mission
- Hubble Space Telescope
- Ice Cloud and Land Elevation Satellite (ICESat) Mission
- Imager for Magnetopause-to-Aurora Global Exploration (IMAGE)
- INTERNATIONAL Gamma-Ray Astrophysics Laboratory (INTEGRAL)
- Mars Express
- Mars Exploration Rover - Opportunity
- Mars Exploration Rover - Spirit
- Mars Global Surveyor
- Mars Odyssey
- MERCURY, Surface, Space Experiment, Geochemistry and Ranging (MESSENGER) Mission
- Muses-C
- NOAA-M Environmental Satellite
- Polar Mission
- Reuven Ramaty High Energy Solar Spectroscopic Imager (RHES SI)
- Rosetta Mission
- Rossi X-ray Timing Explorer (RXTE) Mission
- Solar Anomalous and Magnetospheric Particle Explorer (SAMPEX) Mission
- SeaWinds

Now: Cloudy, 60° F Thu: 66° F Fri: 68° F Sat: 76° F Sun: 79° F Mon: 79° F Tue: 76° F

Organizations Execute The Eight "Play Development" Stages - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Organizations Execute The Eight "Pl... X +

ehbs.org/intro/summary/Eight-Stages.html Wikipedia (en)

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.**

Silver Spring, MD 20902, USA: 95°F Sun: 92°F Mon: 88°F Tue: 88°F Wed: 88°F Thu: 90°F Fri: 88°F

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.

Overview of NASA Operation Scenarios Process Library

The objective of this tool is to help NASA Operation Scenarios Managers (and Staff) to *quickly learn* to build and manage flight project operation scenarios. We present our approach in five bullets.

- We focus on the documents that NASA Operation Scenarios Managers prepare. These documents appear within various subprocesses (e.g., [1](#)) and within multiple organizations (e.g., [2](#)).
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- Sample documents have three levels of access: a) Unconditionally Distributable (e.g., [1](#), [2](#)), b) Maintained In Organization Libraries (e.g., [1](#), [2](#)), and c) Proprietary (e.g., [1](#), [2](#)).
- Each organization gets worksheets for its own use. These worksheets also help add to the database as Managers go thru the subprocesses. (e.g., [1](#), [2](#))

For more information on the NASA Operation Scenarios Process Library see: [paper](#), [summary](#), and [other process libraries](#).

NASA Operation Scenarios Process Library - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Stop <http://lincoln.gsfc.nasa.gov/operations-scenarios/plib/> Webster

NASA Operation Scenarios Process Library

- [Overview \(Demo\)](#)
- [Integrated Problems-Solutions Database](#)
- [Operation Scenarios Development Facility Guidelines Development](#)
- [Planning Operation Scenarios](#)
- [Solicitation Development](#)
- [Submission](#)
- [Handling](#)
- [Gathering Requirements](#)
- [Designing Operation Scenarios](#)
- [Building Operation Scenarios](#)
- [Using Operation Scenarios](#)
- [Improving Operation Scenarios](#)
- [Revising Operation Scenarios](#)
- [Closing Operation Scenarios](#)
- [Post-Closeout](#)

GP Now: Sunny, 79 °F Sat: 87 °F Sun: 85 °F Mon: 80 °F Tue: 85 °F Wed: 84 °F Thu: 81 °F

Views

Total 30 Entries

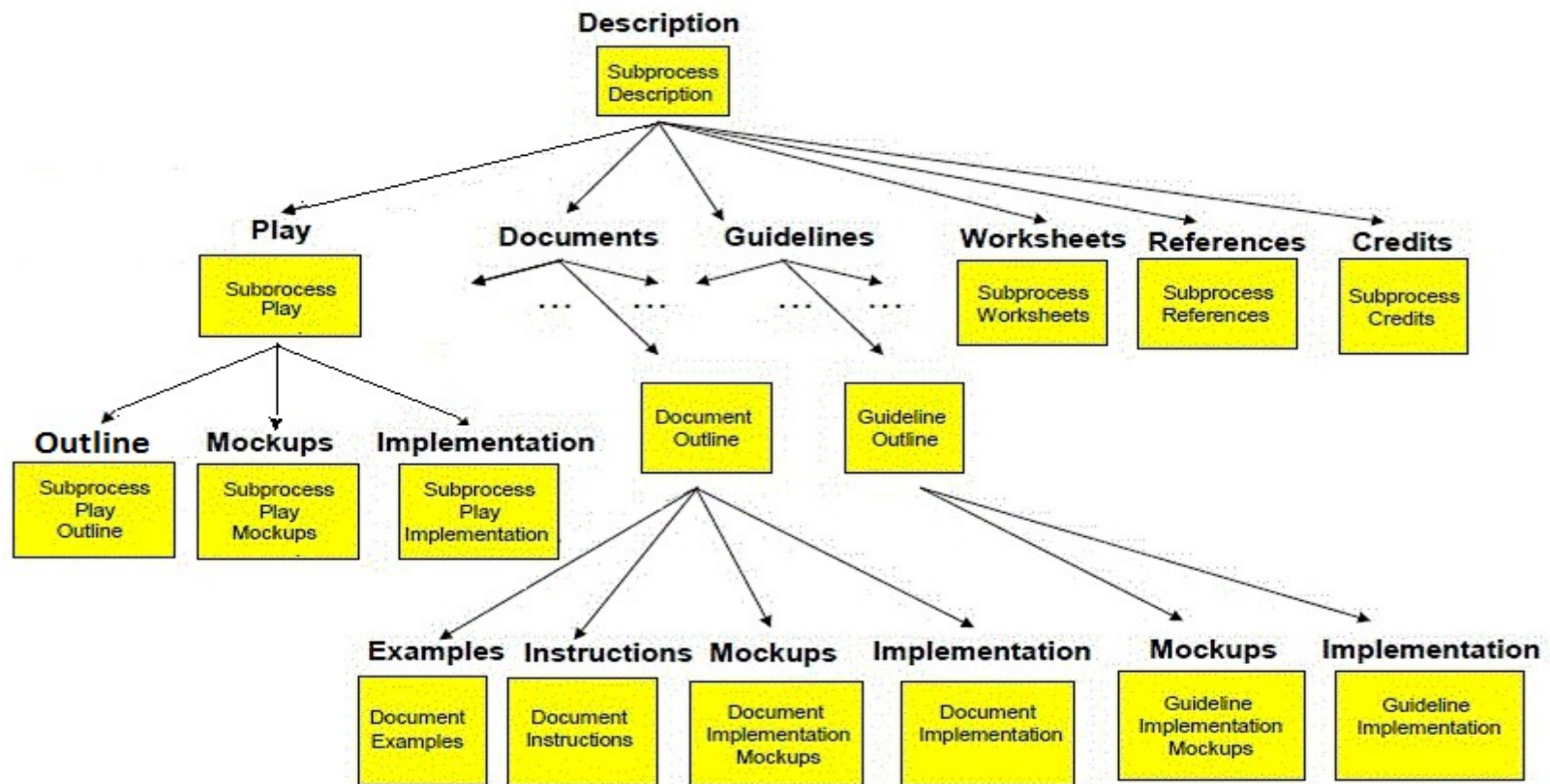
Classification: **Product Realization Subprocesses** (T4-00-00-00)

Subprocess: **Designing Operations Scenarios** (T4-08-00-00)

[Create View](#)

View	Steps
ASTRO-E2 Don Margolies (Don.Margolies@nasa.gov)	Update Copy Delete
CHIPS Dave Pierce (Dave.Pierce@nasa.gov)	Update Copy Delete
CINDI/TWINS Jim Byrd (Jim.Byrd@nasa.gov)	Update Copy Delete
Constellation-X Liz Citri (Liz.Citri@nasa.gov)	Update Copy Delete
ESDIS MaryAnn Esfandiari (MaryAnn.Esfandiari@nasa.gov)	Update Copy Delete
EO-1 Bryant Cramer (Bryant.Cramer@nasa.gov)	Update Copy Delete
EOS AURA	Update

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



Description - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Stop <http://ehbs.org/operations-scenarios/library/Integration/PRs/Designing> Webster

CNN New York Times Washington Post Comcast OOWA NASAFCU File Hippo Cnet SI Scoreboards TV Guide

Google Search Bookmarks AutoLink Sign in

Designing Operations Scenarios

Table of Contents

- [1. Overview](#)
- [2. Play](#)
- [3. Documents](#)
- [4. Guidelines](#)
- [5. Others](#)

1. Overview

In this subprocess, we deal with the process of Designing Operations Scenarios. This is where Projects closeout their Operations Scenarios.

Organization: ORG

[All-Files](#). These are all the view files.
[Benefits](#)

2. Play

In this subprocess, the [play](#) is divided in several parts:

- 1. Administrative Tools.** This is where participants utilize common Operations Scenarios.

GP 5 Now: Cloudy, 67 °F Thu: 68 °F Fri: 70 °F Sat: 79 °F Sun: 82 °F Mon: 83 °F Tue: 79

Play - Mozilla Firefox

File Edit View History Bookmarks Tools Help

file:///E:/8000-8999/nasa/operations-scenarios/library/Integration/PRs/Designing/P

IMDB

5. Designing Operations Scenarios

-Design Operations Scenarios-
[Operations Scenarios Designers:](#)
[Design Operations Scenarios](#)

-Review Operations Scenarios Design-
[Building Operations Scenarios Manager](#)
[Organization Manager](#)
[Overall Organizations Manager](#)
[Project Manager](#)
[Demonstration Tools Developer](#)
[Customer](#)
[Business Manager](#)
[Operations Scenarios Designers](#)
[Operations Scenarios Designs Reviewers](#)
[Operations Scenarios Builders](#)
[Operations Scenarios Builds Reviewers](#)
[Operations Scenarios Testers](#)
[Operations Scenarios Tests Reviewers:](#)
[Review Operations Scenarios Design](#)

-Approve Operations Scenarios Design-
[Project Manager](#)
[Customer:](#)
[Approve Operations Scenarios Design](#)

6. Implementing Operations Scenarios

-Implement Operations Scenarios-
[Operations Scenarios Builders:](#)
[Implement Operations Scenarios](#)

-Review Operations Scenarios Implementation-
[Building Operations Scenarios Manager](#)

Now: 54°F Tue: 58°F Wed: 63°F Thu: 61°F Fri: 62°F Sat: 66°F Sun: 65°F

8. **Analysis.** This 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.
- [Operation Scenarios Contract](#). These are used to represent the Operation Scenarios Contract.
- [Process Library](#). These are used to represent the Process Library.
- [Implementation Plans](#). These are used to represent the Implementation Plans.
- [Operation Scenarios Designs](#). These are used to represent the Operation Scenarios Designs.
- [Operation Scenarios Designs Reviews](#). These are used to represent the Operation Scenarios Designs Review.
- [Operation Scenarios Builds](#). These are used to represent the Operation Scenarios Builds.
- [Operation Scenarios Builds Reviews](#). These are used to represent the Operation Scenarios Builds Reviews.
- [Operation Scenarios Tests](#). These are used to represent the Operation Scenarios Tests.
- [Operation Scenarios Tests Reviews](#). These are used to represent the Operation Scenarios Tests Reviews.

4. Guidelines

In this subprocess, we have the following roles:

- [Designing Operations Scenarios Manager](#). This is the person managing the Designing Operations Scenarios 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 Operation Scenarios.
- [Business Manager](#). This is the person managing the requirements for the Development Facility.

GP [Navigation icons] 5 Now: Mostly Sunny, 68 °F [Weather icons] Mon: 73 °F Tue: 78 °F Wed: 79 °F Thu: 78 °F Fri: 81 °F Sat: 8

Operation Scenarios Tests Reviews. These are used to represent the Operation Scenarios Tests Reviews.

4. Guidelines

In this subprocess, we have the following roles:

- [Designing Operations Scenarios Manager](#). This is the person managing the Designing Operations Scenarios 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 Operation Scenarios.
- [Business Manager](#). This is the person managing the procurements for the .Development Facility
- [Operation Scenarios Designers](#). This is the person managing the Operation Scenarios designs..
- [Operation Scenarios Designs Reviewers](#). This is the person reviewing the Operation Scenarios designs..
- [Operation Scenarios Builders](#). This is the person building the Operation Scenarios..
- [Operation Scenarios Builds Reviewers](#). This is the person reviewing the Operation Scenarios.
- [Operation Scenarios Testers](#). This is the person testing the Operation Scenarios..
- [Operation Scenarios Tests Reviewers](#). This is the person reviewing the testing of the Operation Scenarios..
- [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.
- [Credits](#). These are the people partaking in this organization's production.

GP [Navigation icons] 5 Now: Mostly Sunny, 68 °F [Weather icons] Mon: 73 °F Tue: 78 °F Wed: 79 °F Thu: 78 °F Fri: 81 °F Sat: 8

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/operations-scenarios/summary/mockups/Worksheet.htm

IMDB

Subprocess Worksheet

Subprocess: Designing Operations Scenarios

In this subprocess, we deal with the process of Designing Operations Scenarios. This is where Projects design, build, and test their Operations Scenarios.

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 Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Planning	The purpose of this task is to plan the design of Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	06/23/07	06/23/07	Planning Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Draft Project Requirements Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
Designing Operations Scenarios	The purpose of this task is to design the Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official,	James Green	07/23/07	07/23/07	Design Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034
						Review Forms	Instructions and Samples	James Green	06/23/07	07/23/07	Library: NS2034

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

References

[Program/Project On-Line Library and Resource Information Sustrm \(Polaris\)](#)

[NPR 7120.5D \(NODIS\)](#)

Templates:

[NPR 7123.1A \(NODIS\)](#)

[Program Plan](#)

[Program Life Cycle Diagram](#)

[Project Plan](#)

[Project Life Cycle Diagram](#)

[Formulation Authorization Doc](#)

[Program Gate Products](#)

[Program Commitment Agreement](#)

[Project Gate Products](#)

Changes/Waivers:

[Project Categorization](#)

[General Waivers](#)

[Key Decision Points](#)

[Waivers to NPR 7120.5D](#)

[Technical Authority](#)

[Waiver Form](#)

Credits - Mozilla Firefox

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file:///Z:/Intro/summary/mock-ups/Credits.html

CNN New York Times Washington Post Comcast File Hippo Summaries Process Libraries

Google Search

Credits

Program Executives: Harry Johnson, Michael Battaglia, Carl Ray
Program Manager: Paul Mexcur, Robert Nelson
Technology Manager: James Kalshoven
Procurement Managers: Kathy Needham, Karen Huth
Resources Managers: Michael Talley
Infusion Managers: Pam Guzzone, Janet Jew
EHBs Manager: Barry E. Jacobs
Support Contractors: Samidha Manu, Heather Morgan, Aysen Bankeroglu, Mohammed Rahman, Michael Iams, Juanita DeButts
Secretary: Margurette Tallent
ARC Program: Warren Atai, Geoff Lee, Ryszard Pisarski
DFRC Program: Rod Bogue
GRC Program: Walter Kim, Dean Bitler, Gynelle Steele, Marie Metzger, Cindy Dreibelbis
GSFC Program: Don Friedman, James Chern
JPL Program: Pat McGuire, Wayne Shubert, Byron Jackson
JSC Program: Grady Henderson, Terry Hess, Jane Fox, Kumar Krishen, James Whittington
KSC Program: Jim Aliberiti, Charles Griffin
LaRC Program: Thayer Sheets, Fred Morell, Robert L. Yang
MSFC Program: Helen C. Stinson, Lynn Garrison
SSC Program: James Bryant

Done Now: Mostly Sunny, 69° F Tue: 82° F Wed: 76° F Thu: 85° F Fri: 92° F

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

Tools To Focus On During Stages. - Mozilla Firefox

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ehbs.org/intro/summary/stages1.html

Google

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
Documents	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Role Guidelines/EHBs	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Subprocess Worksheets	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
References	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together
Credits	Learn, Integrate, Test, Teach, Work Together	Learn, Integrate Documents Using Role Guidelines/EHBs, Test, Teach, Work Together

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

Tools To Focus On During Stages. - Mozilla Firefox

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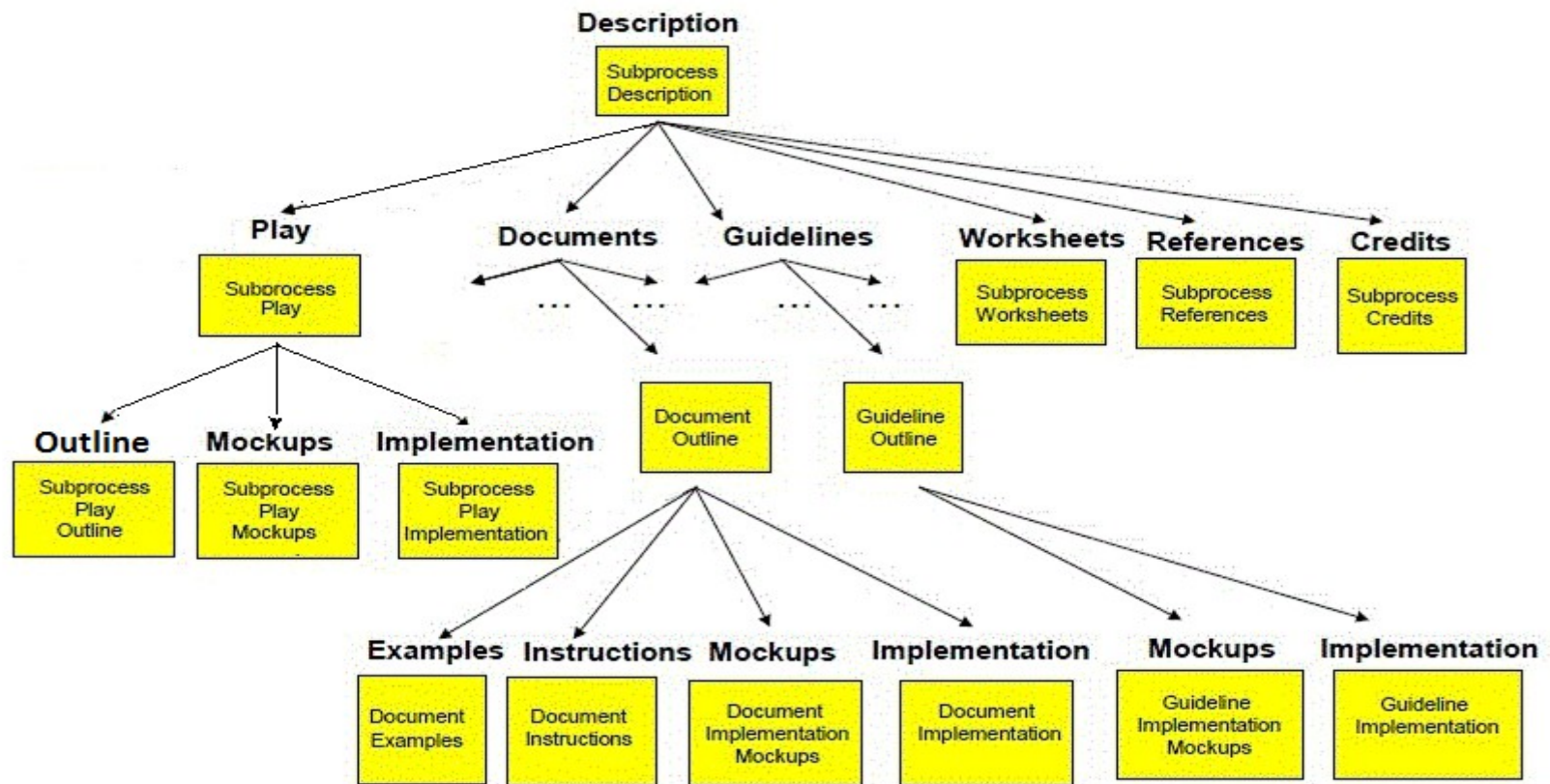
ehbs.org/intro/summary/stages2.html

Google

Tools To Focus On During Stages- By Stage.

Stage	Process Developer	Process Participant
Learn	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.	Descriptions, Plays, Documents, Role Guidelines/EHBs, Subprocess Worksheets, References, and Credits.
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.

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



Some EHBs Projects - Mozilla Firefox

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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

Navigation icons: back, forward, home, stop, refresh, print, search, zoom in, zoom out, full screen, close

Subprocess Life-Cycle Views that are supported.

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

Basic People Principles that are supported - Mozilla Firefox

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Home Back Forward Reload Stop <http://ehbs.org/intro/summary/Basic Principles.htm> IMDB

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 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.

SF 5 Now: Cloudy, 32 °F Tue: 38 °F Wed: 43 °F Thu: 47 °F Fri: 52 °F Sat: 44 °F

Subprocess/Play Developments that are supported - Mozilla Firefox

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Home Back Forward Reload Stop <http://ehbs.org/intro/summary/play-development.htm> IMDB

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.

SF 5 Now: Cloudy, 32 °F Tue: 38 °F Wed: 43 °F Thu: 47 °F Fri: 52 °F Sat: 44 °F

Process Library Operations that are supported - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Stop <http://ehbs.org/intro/summary/operations.htm> IMDB

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.

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Overview of NASA Operation Scenarios Process Library

The objective of this tool is to help NASA Operation Scenarios Managers (and Staff) to *quickly learn* to build and manage flight project operation scenarios. We present our approach in five bullets.

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

For more information on the NASA Operation Scenarios Process Library see: [paper](#), [summary](#), and [other process libraries](#).

Document - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Stop <http://ehbs.org/operations-scenarios/library/Integration/PRs/Building C> Webster

CNN CNN New York Times Washington Post Comcast OOWA NASAFCU File Hippo Cnet Cnet SI Scoreboards TV Guide

Google Search Bookmarks AutoLink Sign in

Building Operations Scenarios

Operations Scenarios Designs

Document

Overview

The purpose of Operations Scenarios Designs is to provide Operations Scenarios Designs documents for the Building Operations Scenarios subprocess.

Organization: ORG

Document

[Template \(doc\)](#)
[Example\(s\) \(html\)](#)
[Instructions \(html\)](#)

Implementation:

[Mockup \(html\)](#)
[Implementation \(html\)](#)

GP [Icons] 5 Now: Cloudy, 67 °F Sat: 76 °F Sun: 83 °F Mon: 84 °F Tue: 83 °F Wed: 76 °F Thu: 7

Document - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Home Back Forward Reload Stop <http://ehbs.org/operations-scenarios/library/Integration/PRs/Building C> Webster

CNN CNN New York Times Washington Post Comcast OOWA NASAFCU File Hippo Cnet Cnet SI Scoreboards TV Guide

Google Search Bookmarks AutoLink Sign in

Scenarios subprocess.

Organization: ORG

Document

[Template \(doc\)](#)
[Example\(s\) \(html\)](#)
[Instructions \(html\)](#)

Implementation:

[Mockup \(html\)](#)
[Implementation \(html\)](#)

Contacts:

[Name- Phone-Email \(mailto-hyperlink\)](mailto:hyperlink)

References:

[Title- Author- Library \(html\)](#)

GP 5 Now: Cloudy, 67 °F Sat: 76 °F Sun: 83 °F Mon: 84 °F Tue: 83 °F Wed: 76 °F Thu: 7

Fetch Integration

Read Integration

Classification	Product Realization Subprocesses
Subprocess	Designing Operation Scenarios
Type	Guidelines
Title	Designing Operation Scenarios Manager
Id	T4-4-3-00
Integration Url	Fetch
Ordinal	33
Date Created	03-MAY-2005
Date Updated	18-MAY-2005

Samples From Views

ASTRO-E2 Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
CHIPS Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
CINDI/TWINS Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
Constellation-X Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
ESDIS Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
EO-1 Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
EOS AURA Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
ESMO Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
EXIST Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005
CALEY Fetch - (Size: 10 KB)	Date Created: 23-Jun-2005 Date Updated: 23-Jun-2005

Overview of NASA Operation Scenarios Process Library

The objective of this tool is to help NASA Operation Scenarios Managers (and Staff) to *quickly learn* to build and manage flight project operation scenarios. We present our approach in five bullets.

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

For more information on the NASA Operation Scenarios Process Library see: [paper](#), [summary](#), and [other process libraries](#).

Document Access in Process Libraries. - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://ehbs.org/intro/summary/documents.htm Wikipedia (English)

CNN New York Times Washington Post Comcast NOMAD File Hippo Summaries Process Libraries NASAFCU Cnet

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

Done

Now: Snow, 32° F Thu: 38° F Fri: 37° F Sat: 44° F Sun: 44° F Mon: 49° F

paper-2.pdf - Adobe Reader

File Edit View Document Tools Window Help

1 / 38 61.2% Find

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

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

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) Operations Scenarios. NASA Operations Scenarios is a key ingredient of NASA Flight Projects which are the heart of NASA. Managing complex distributed processes is difficult due to the complexity of the subprocesses, the diversity of views of different organizations, and the diversity of views of managers and participants taking part in the subprocesses.

An outline of the paper is as follows:

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

1. Problems

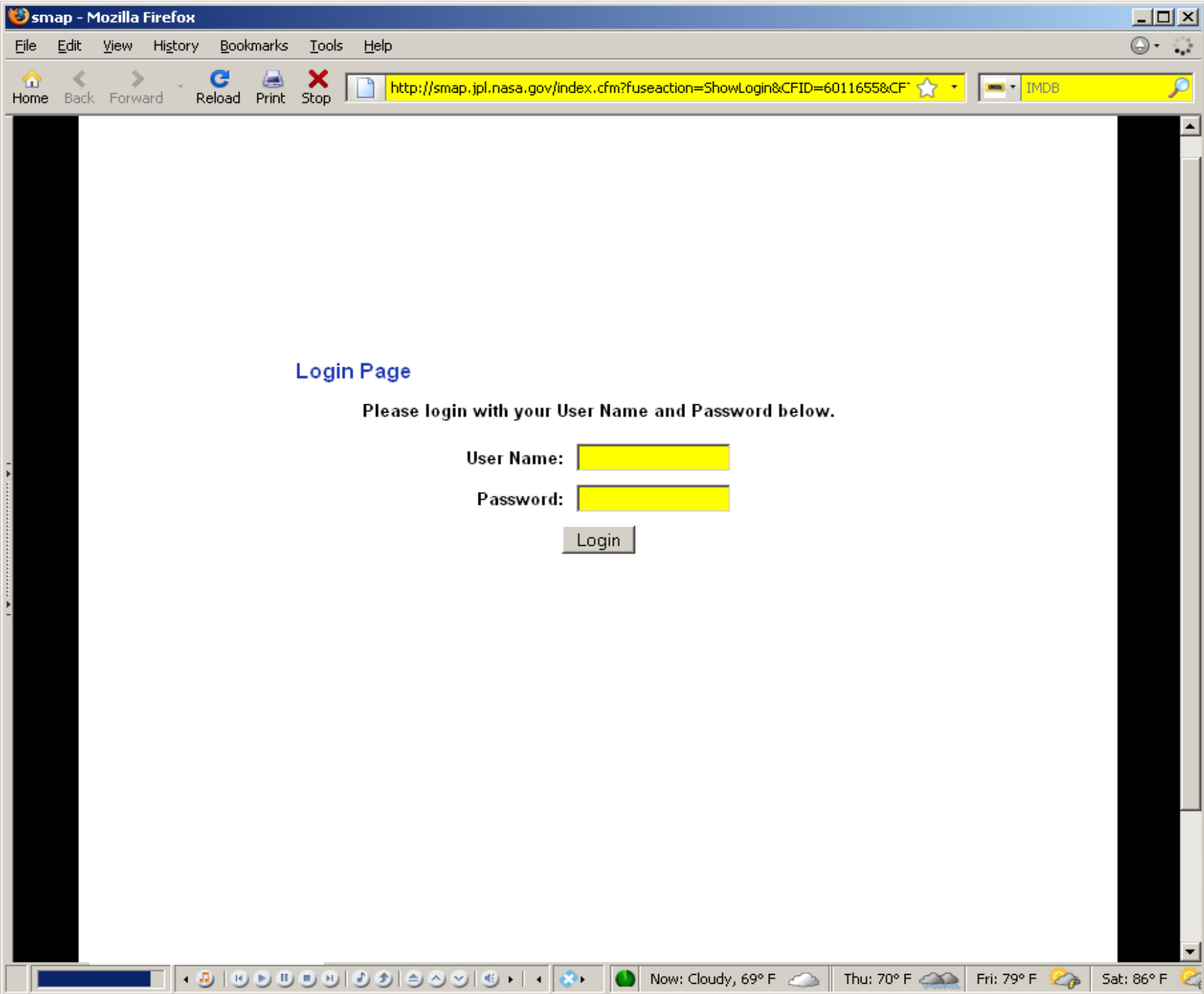
We discuss here some of the problems that are intrinsic to the management of complex distributed processes.

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

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

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

Fourth, there are a number of important human factor issues that have to be dealt with in the management of subprocesses. See Figure 1(d). These factors reflect the life cycle of organizations that



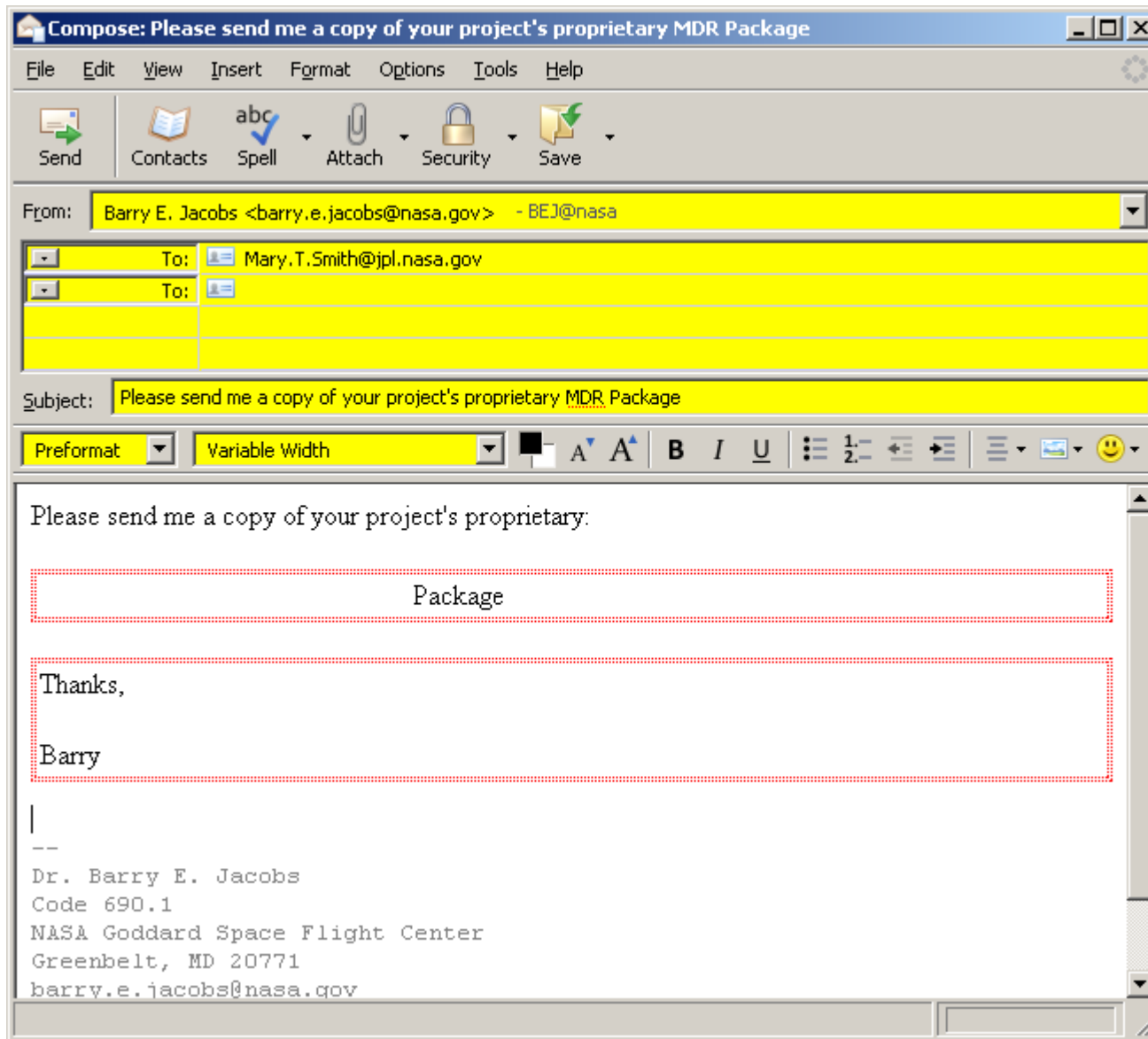
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Overview of NASA Operation Scenarios Process Library

The objective of this tool is to help NASA Operation Scenarios Managers (and Staff) to *quickly learn* to build and manage flight project operation scenarios. We present our approach in five bullets.

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

For more information on the NASA Operation Scenarios Process Library see: [paper](#), [summary](#), and [other process libraries](#).

Subprocess Worksheet

Subprocess: Designing Operations Scenarios

In this subprocess, we deal with the process of Designing Operations Scenarios. This is where Projects design, build, and test their Operations Scenarios.

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 Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	07/23/07	08/23/07	Document Library	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
Planning	The purpose of this task is to plan the design of Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official, Project Manager, Documents Manager	James Green	06/23/07	06/23/07	Planning Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
						Draft Project Requirements Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
Designing Operations Scenarios	The purpose of this task is to design the Operations Scenarios.	Task Lead, Subtask Lead, Subtask Member, Reviewer, Approval Official,	James Green	07/23/07	07/23/07	Design Document	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
						Project Plan	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034
						Review Forms	Instructions and Samples	James Green	06/23/07	07/23/07	Library : NS2034

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

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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) Operations Scenarios. NASA Operations Scenarios is a key ingredient of NASA Flight Projects which are the heart of NASA. Managing complex distributed processes is difficult due to the complexity of the subprocesses, the diversity of views of different organizations, and the diversity of views of managers and participants taking part in the subprocesses.

An outline of the paper is as follows:

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

1. Problems

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

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

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

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

Fourth, there are a number of important human factor issues that have to be dealt with in the management of subprocesses. See Figure 1(d). These factors reflect the life cycle of organizations that

NASA Operations Scenarios Management Using Process Libraries and Electronic Handbooks

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Summary

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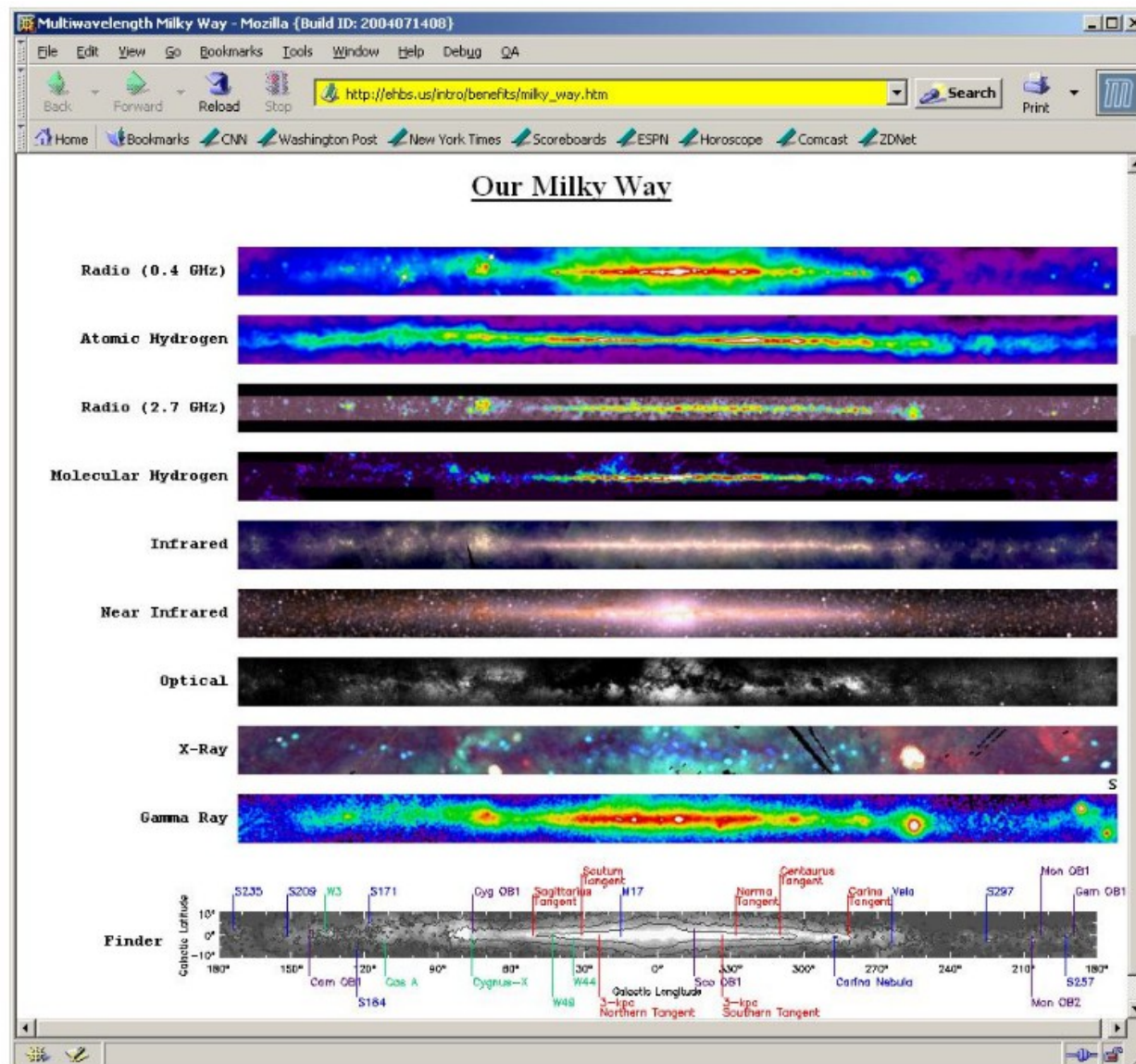
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- [Cover](#)
- [The Bottom Line: Provide editable and cost-saving process documentation tools for process developers and participants to help them quickly and effectively learn, adapt, test, teach, and work together. These tools may be added to new or existing systems.](#)
- [Objective: Develop Internet-based tools to support the paperless documentation and management of complex distributed processes.](#)
- [Plays describe subprocess execution.](#)
- [Our basic approach is to wrap organization's subprocesses in a common envelope containing "communication vehicles" that facilitate learning plus intra-organization communication.](#)
- [Outline of Presentation.](#)
- [Objective: Develop Internet-based tools to support the paperless documentation and management of complex distributed processes.](#)
- [Plays describe subprocess execution.](#)
- [Organizations provide different views of the subprocesses, some of which may be proprietary.](#)
- [People in organizations provide different views of the subprocesses.](#)
- [Organizations generate Subprocess Life-Cycle Views.](#)

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



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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.
[\(Full Quote\)](#)

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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**

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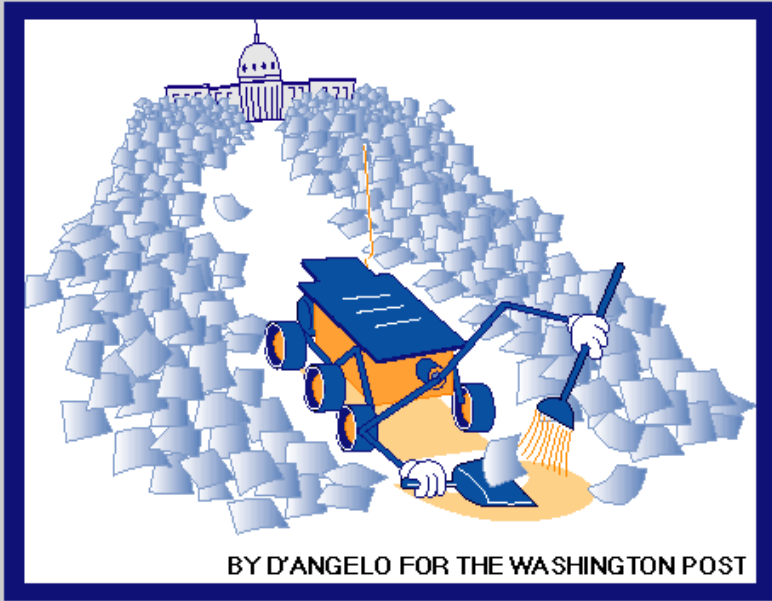
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BY D'ANGELO FOR THE WASHINGTON POST

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