EMWFS

A File Folder and Attachment System for MediaWiki

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To use MediaWiki
or not to use MediaWiki
…That is the question!

Whether 'tis nobler in the mind to suffer the norms of folder-based document file systems, or to take up arms against the sea of troubles that come with a system that uses a "flat" file system

… and, by doing so, achieve what?

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In other words, given that there are lots of file management applications out there, why would anyone select MediaWiki for managing organizational project files and records?

The goal of this talk is to

1. Explain why an organization might want to use MediaWiki for managing internal project files and process records.

   MW + Extensions + Special Content = UI for electronic business processes

2. Explain why a File Folder and Attachment System for MediaWiki matters

   It is the key to voluntary adoption and a "transformation over time"

3. Present the EMWFS File Folder and Attachment System developed at NASA GRC-ATF

   Overview, Prerequisites, Live Demonstration and where to get it

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☆ 1. Why an organization might want to use MediaWiki for managing internal project files and process records.

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Questions

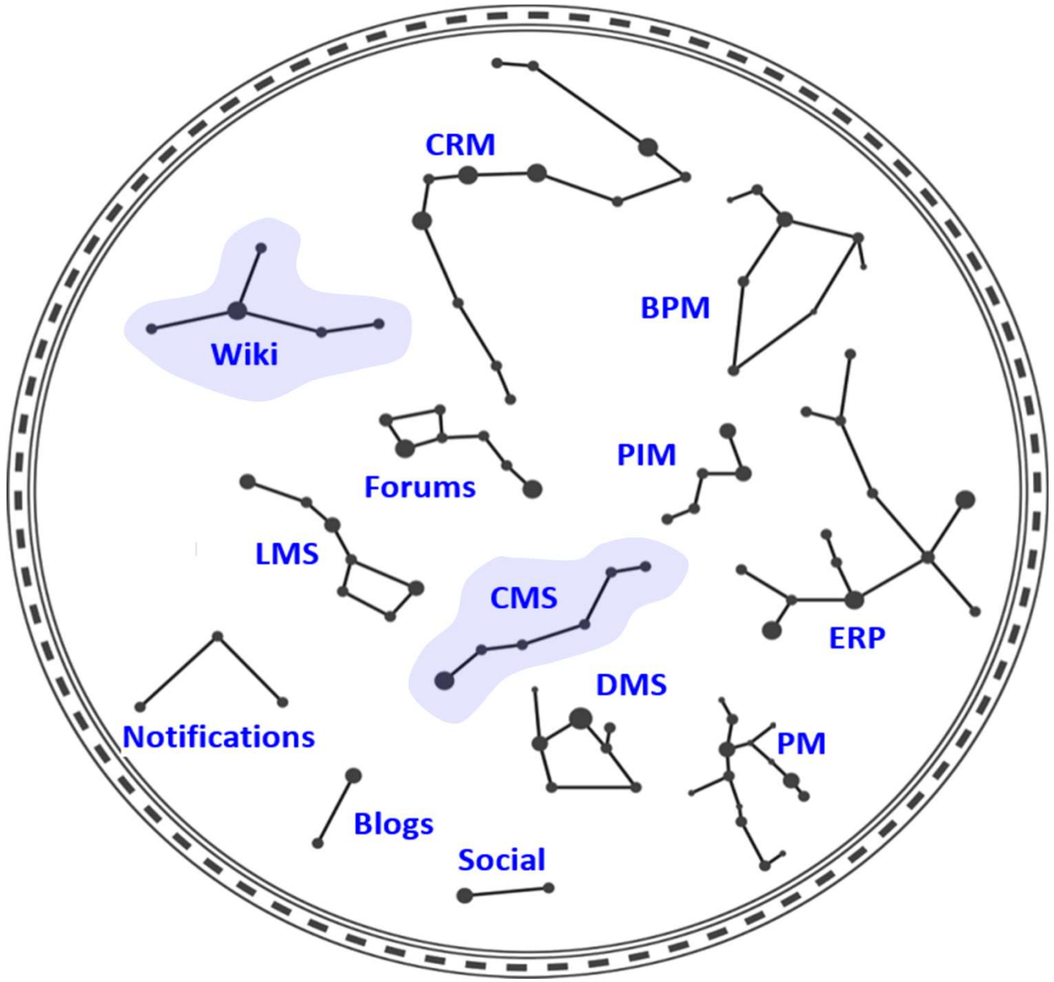
- What do each of them do?
- How much do they cost?
- Which ones are secure?
- How hard are they to maintain?
- What features does each have?
- What about things that are specific to my organization?
- Who will tailor all this to my organization?
- Which of these do I need?

Where does MediaWiki fit in in the constellation of software types?

Management Systems
- CMS Content Management
- DMS Document Management
- LMS Learning Management
- PM Project Management
- DAM Digital Asset Management

Process & Data
- BPM Business Processes
- CRM Customer Relationship
- ERP Enterprise Resource
- PIM Product Information
- Notification System

Social Platforms
- Wiki
- Blog
- Forum
- Social



Which one(s) should I use?

By itself, MediaWiki is wiki software that is also often used as a CMS

.. but how far can additional extensions extend MediaWiki's usefulness?

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*** Special Content**

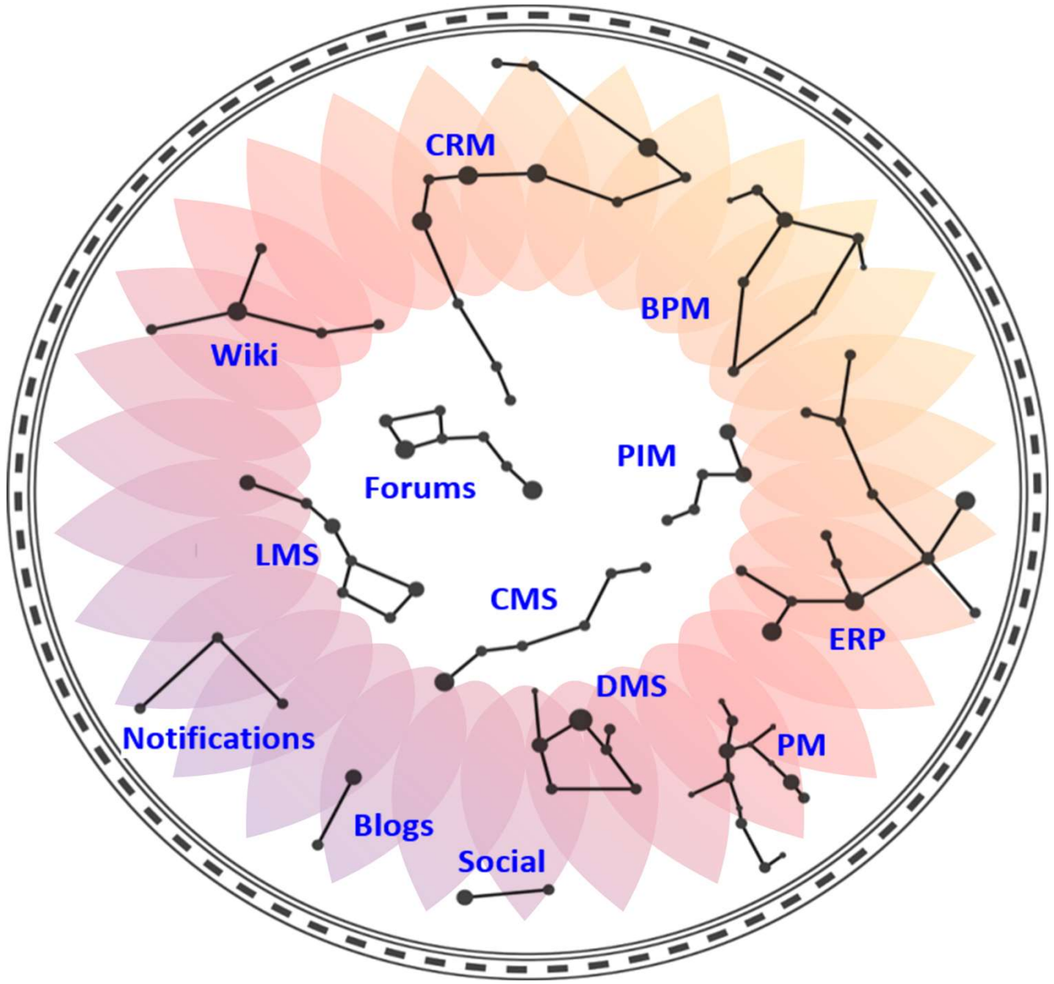
- Categories
- Templates
- Forms
- Properties

MW + Extensions + Special Content is … an "all-in-one" data processing platform

Fun Fact #1 (Store data in pages)
With some specific extensions, MediaWiki can be easily extended to allow users to store data in pages and display queries in other pages, this means organizations can develop complex data-driven applications "as content"

Fun Fact #2 (DB app platform)
Organizations can install, configure, and develop many of the basic features of most, if not all, of the other software categories

Fun Fact #3 (Electronic Processes)
Organizations can use MediaWiki plus various extensions to digitally transform many, if not all, of its internal processes into 100% data-driven all-electronic processes using MW as a common UI for each process



"Is there anything I can't use Mediawiki for?"

As the basic functionality of all the major software categories can be achieved with Mediawiki + Extensions, the decision to use Mediawiki is less and less about "a wiki" and more about having an "all-in-one" platform

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AP-NASA-HDBK-001 V2.5, NASA's Applications Program (AP) Policy Handbook

MW + Extensions + Special Content is …

Fun Fact #4 (Ideal Architecture)

Open-Source

Open Standards-Based

Vendor Independent

Secure(able)

Scalable

Modular

Loosely Coupled

Headless

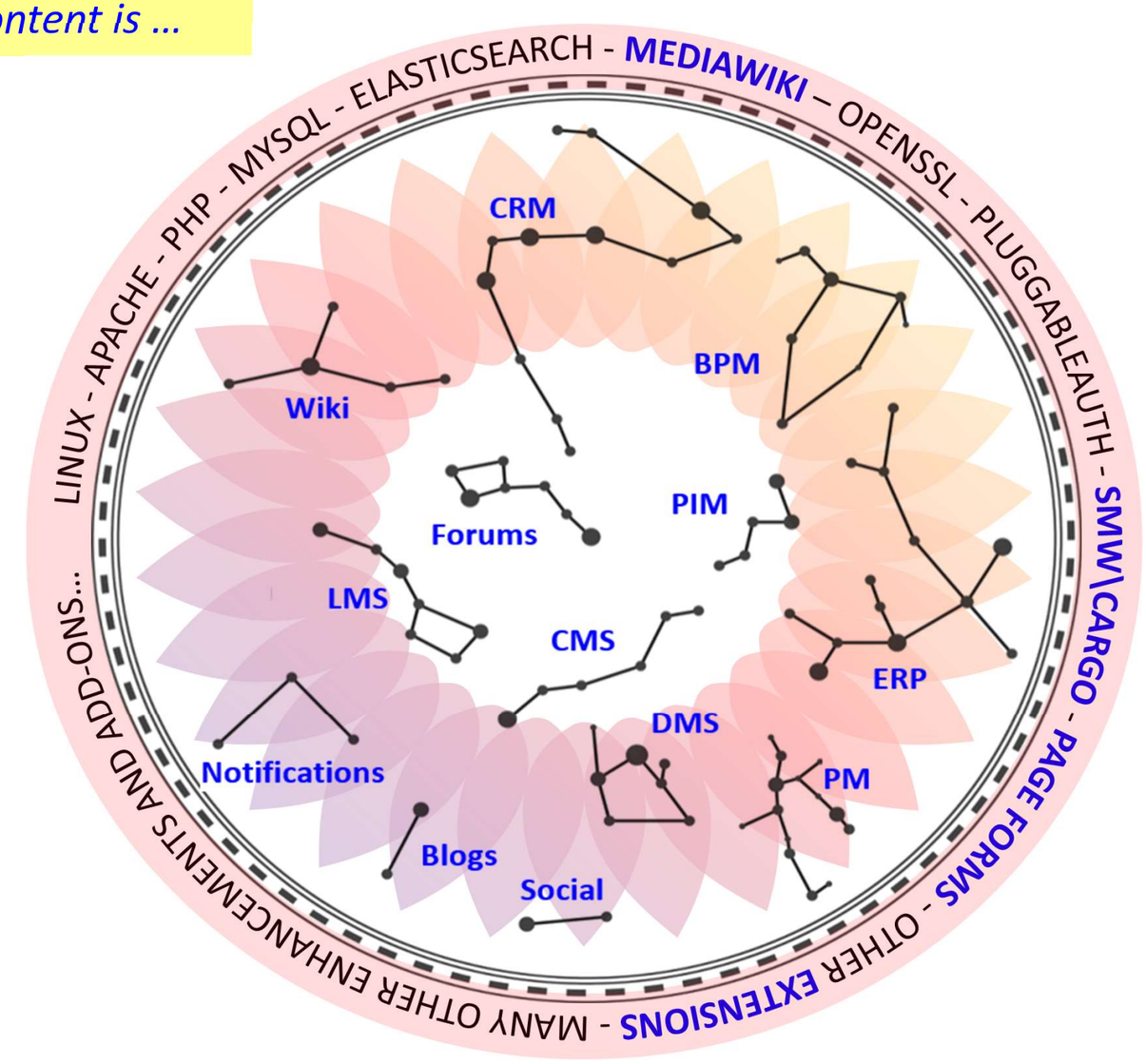
RESTFUL

Sustainable

Agile Developed

DevOps Supportable

Low-Total Cost of Ownership



Central part of an application software stack that can meet the **Confidentiality**, **Integrity**, **Accessibility for NIST MODERATE**

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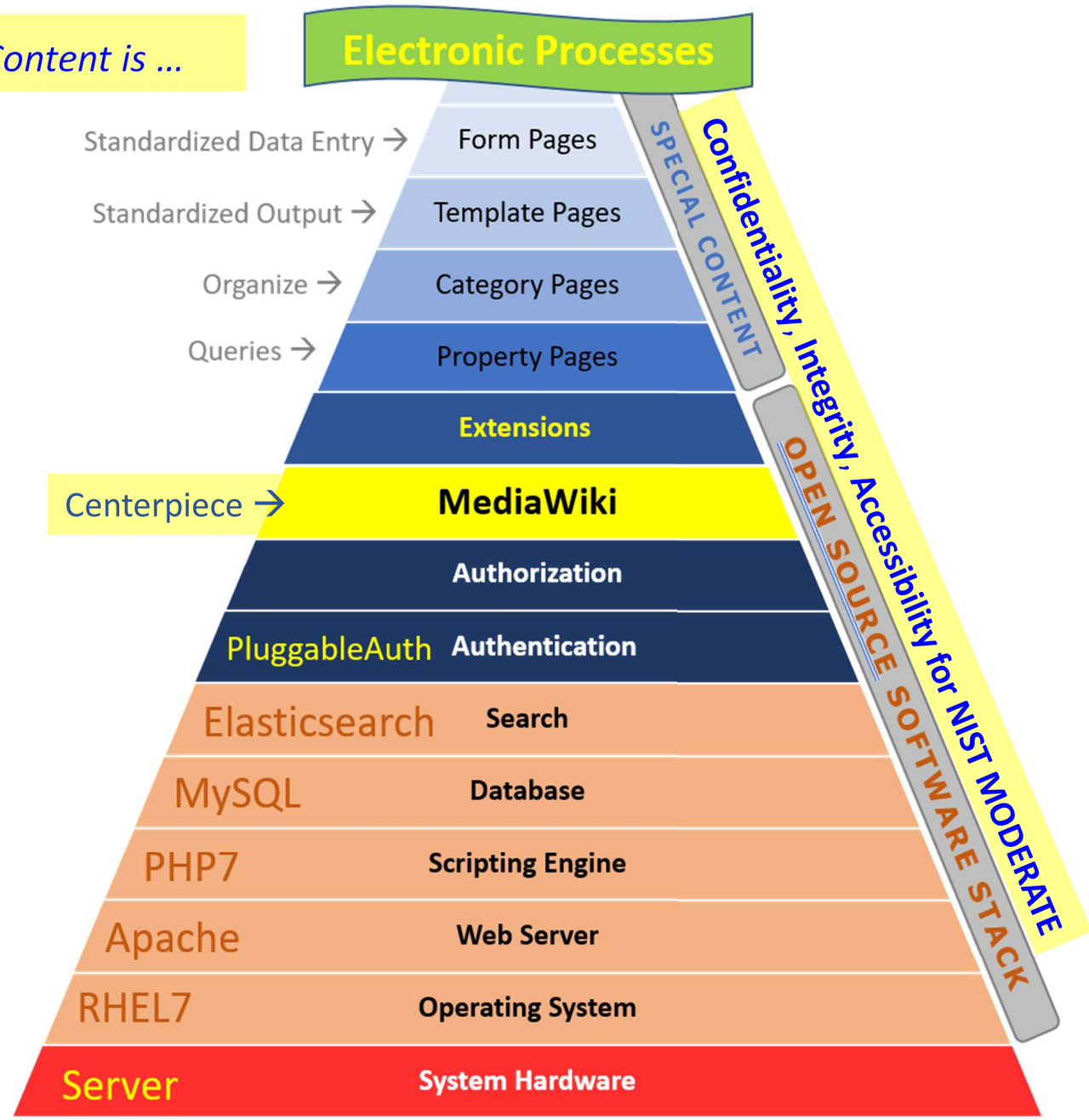
Secure(able)

Via a well-designed application security plan



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NIST 800-53, Security and Privacy Controls for Information Systems and Organizations

DoD Open Source Software FAQ, https://dodcio.defense.gov/open-source-software-faq/

OMB Memorandum M-19-21, Transition to Electronic Records

OMB Memorandum M-16-21, Federal Source Code Policy: Achieving Efficiency, Transparency, and Innovation through Reusable and Open Source Software

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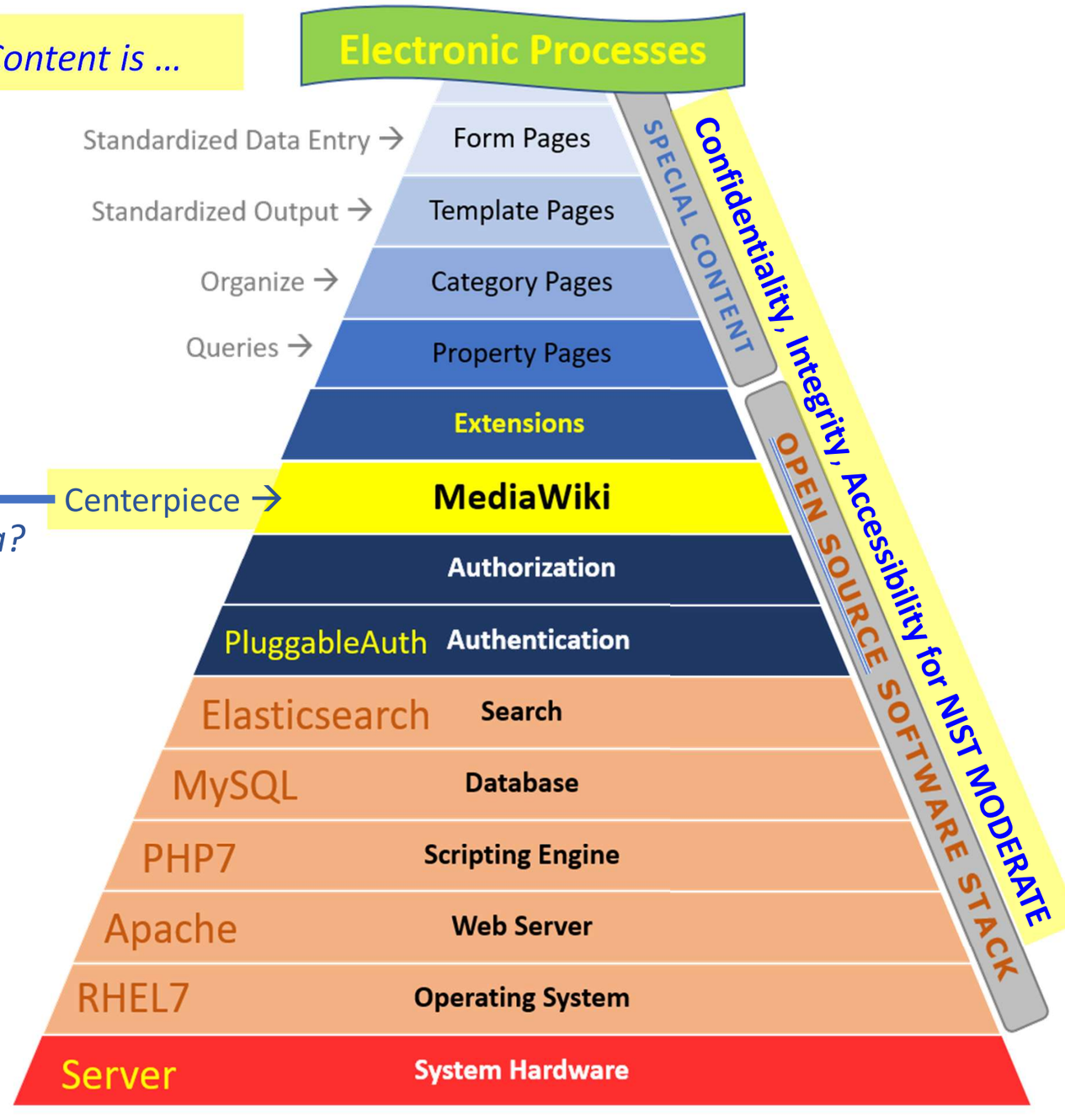
Manageable

Open CSP?

Centerpiece →

Canasta? Meza?



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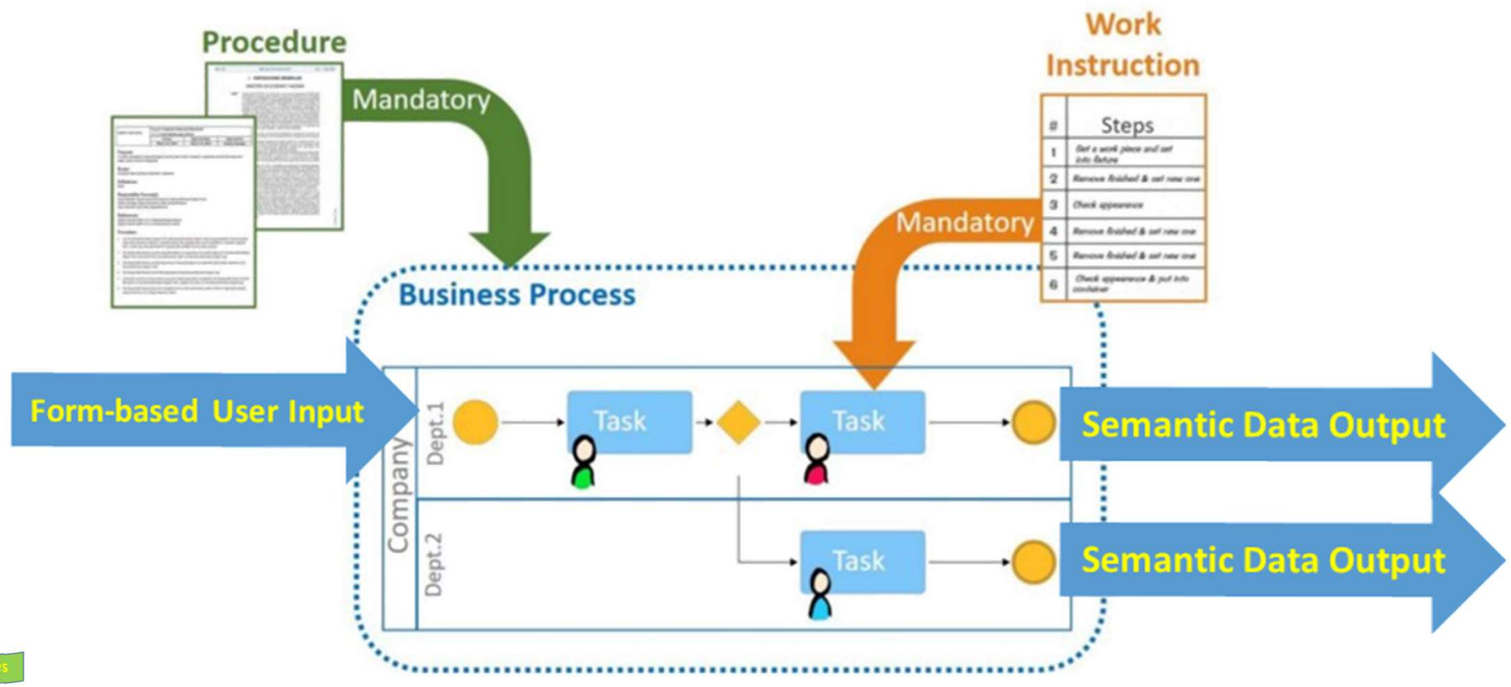
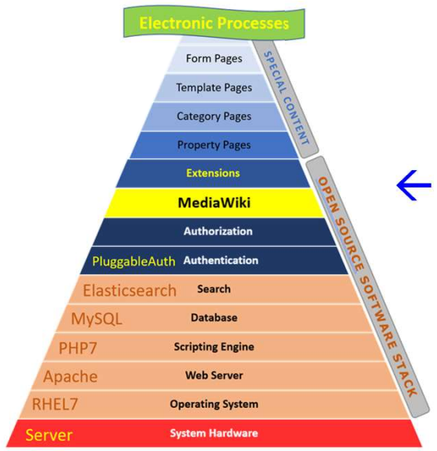
MW + Extensions + Special Content is … ***a unified platform for process workflows***

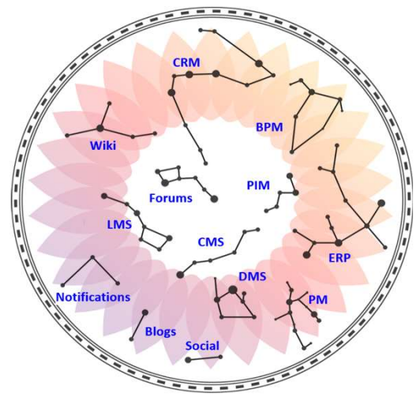




← **100% Open-Source MediaWiki-centered software stack**

provides a unified platform for a **100% data-driven →**

organizational process workflows



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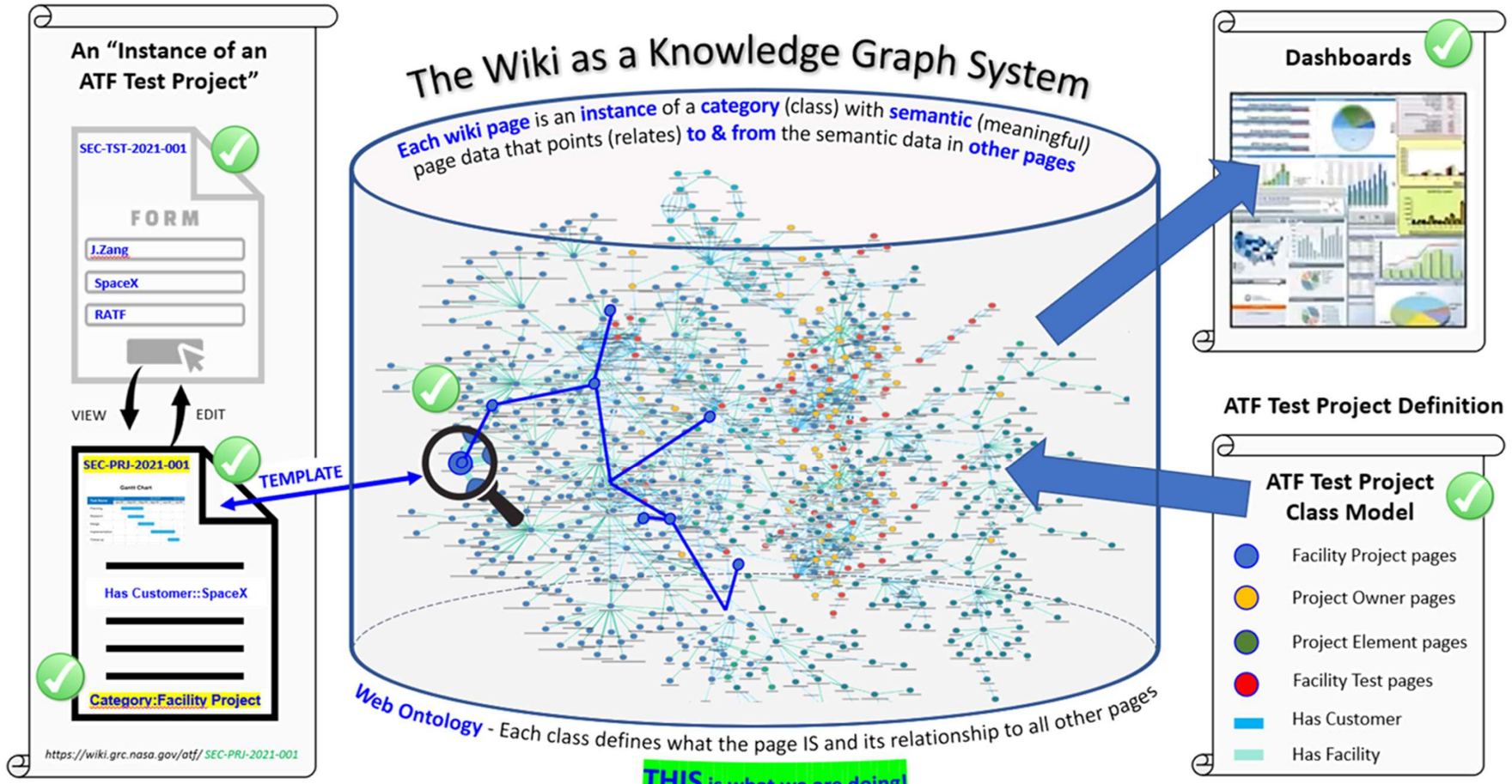
*MW + Extensions + Special Content is … **A UI for a Knowledge Graph System***

This allows us to transform what would be just a regular old wiki with regular old links into…



THIS is what we are doing!

A *true* Web 3.0 (Semantic) platform for operational knowledge management

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DT = Digital Transformation
AI = Artificial Intelligence

The goal of this talk is to

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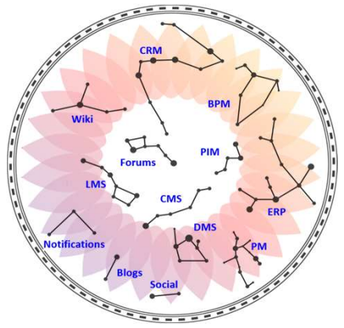
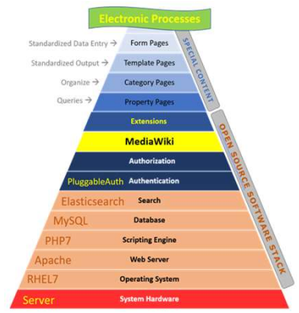
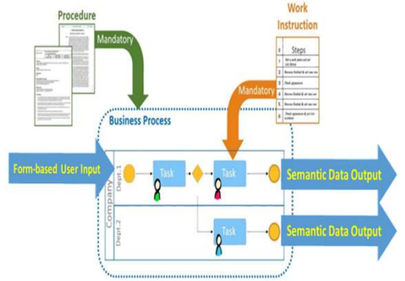
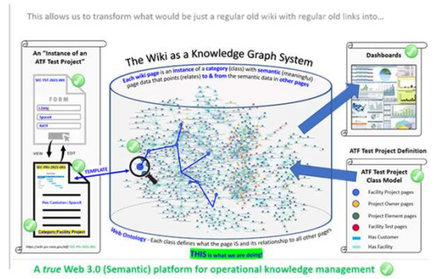
MW + Extensions + Special Content =









All-in-One **secure(able) sustainable** **site for** **Electronic Processes → DT Knowledge Graph → AI/NLP**

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The **Current state** of many existing organization's **skills** and **culture**:

- ❑ Oriented heavily around the management of "**Files**"
- ❑ Rely heavily on file **folders** for organizational structures
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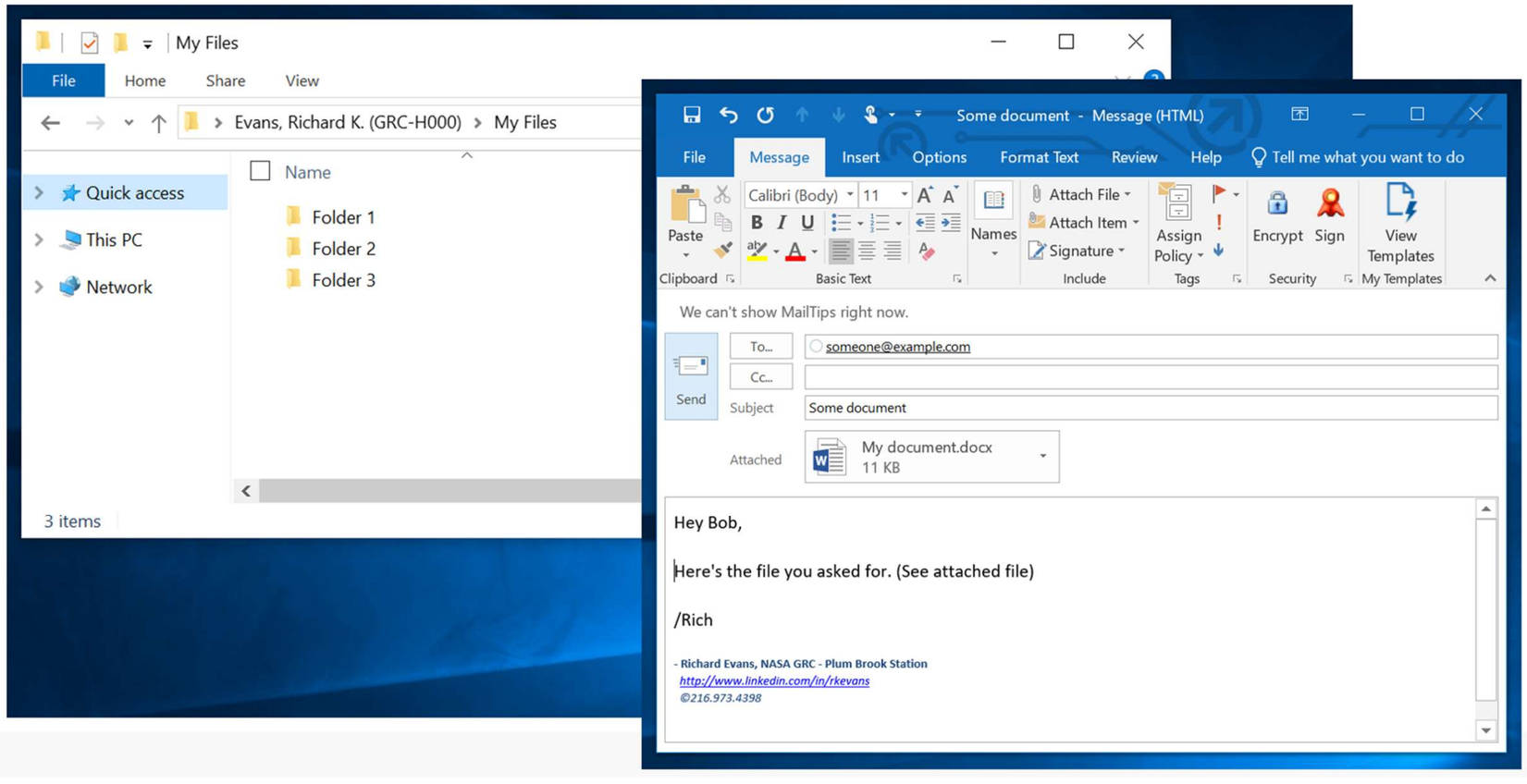
Web of Documents (Web 1.0)



A File Folder and Attachment System for MW

SPRING 2022

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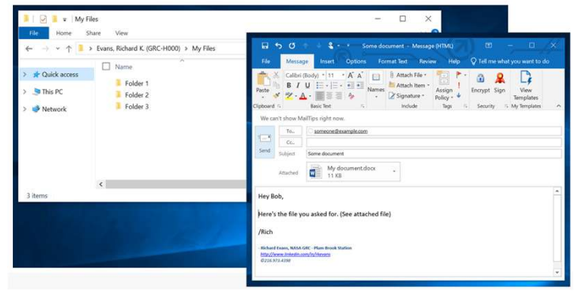

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The **Future state** of a fully **digitally transformed** organization:

- ❑ Oriented heavily around management of "**Data**"
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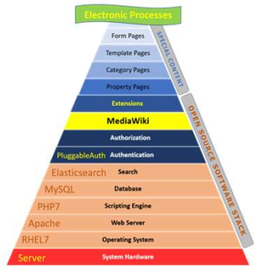

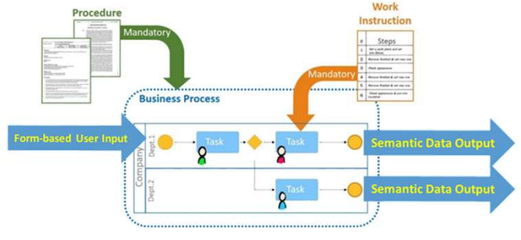

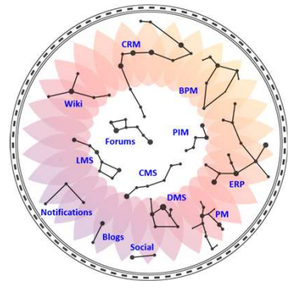

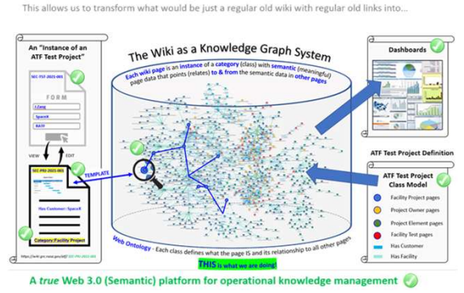

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SPRING 2022

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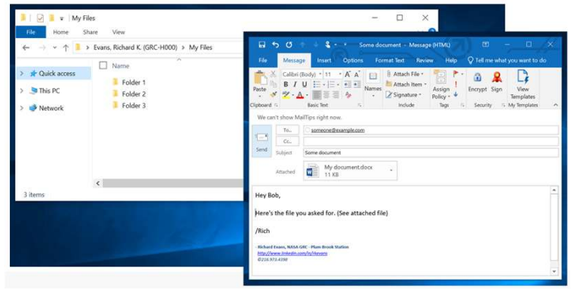

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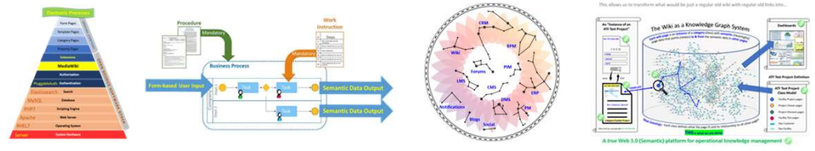
Challenges in making the **transformation**

- ❑ Takes time and resources to implement
- ❑ Takes time to provide **training** and develop skill in using
- ❑ Takes time for achieve critical mass for **cultural change**



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We seek to **lower the barrier for voluntary adoption** and **make the transition easier**

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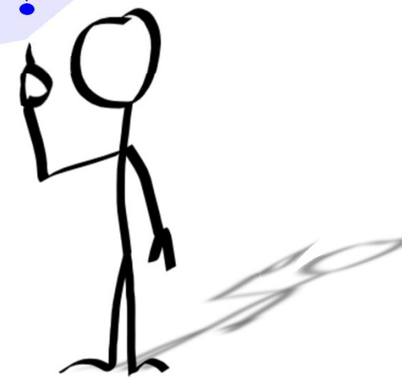
Why a File Folder and Attachment System for Mediawiki matters

We seek to:

- ❑ Lower the barrier for voluntary use of a MediaWiki-based system
- ❑ Make the to transition to a MediaWiki-based system easier on *traditional* users
- ❑ We seek to **provide** the **familiarity** of the **current state** in a future state platform

In other words ..

Providing users with a **File Folder** and **Attachment** based system in MediaWiki is the key to "**voluntary adoption**" and a "**transformation over time**" **! ! !**



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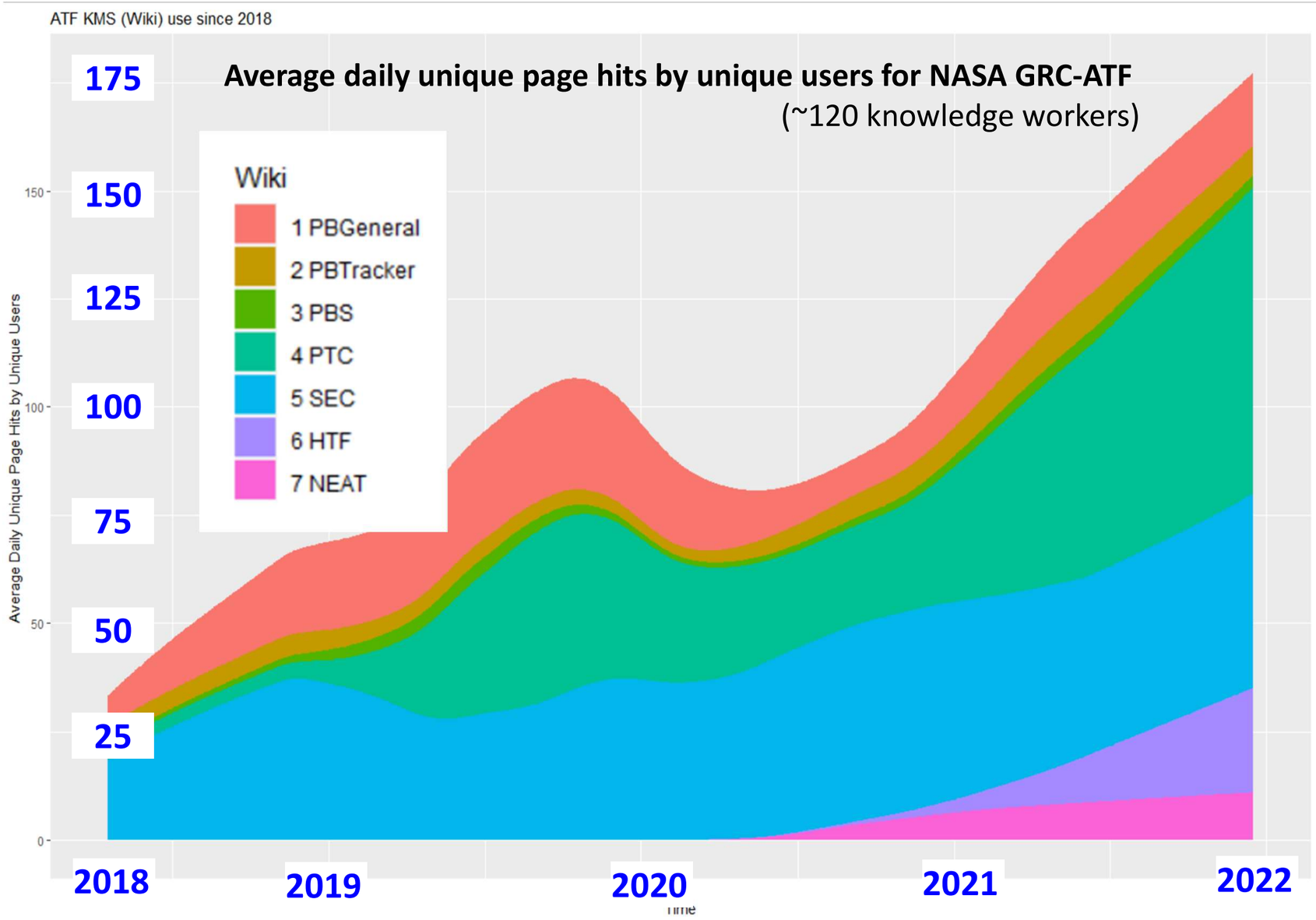

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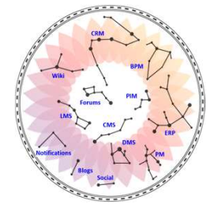

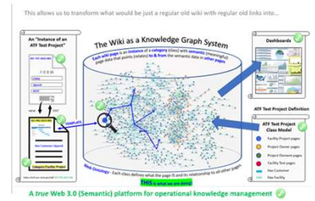

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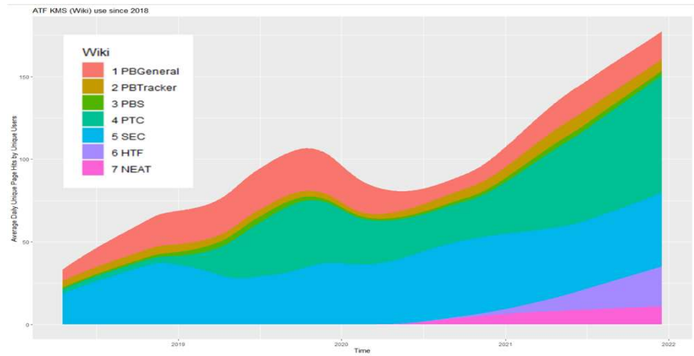

3. Present the EMWFS File Folder and Attachment System developed at NASA GRC-ATF

   Overview, Prerequisites, Live Demonstration and where to get it

Outline

1. ~~Why an organization might want to use MediaWiki for managing internal project files and process records.~~

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4. Discussion

The goal of this talk is to

1. Explain why an organization might want to use MediaWiki for managing internal project files and process records.

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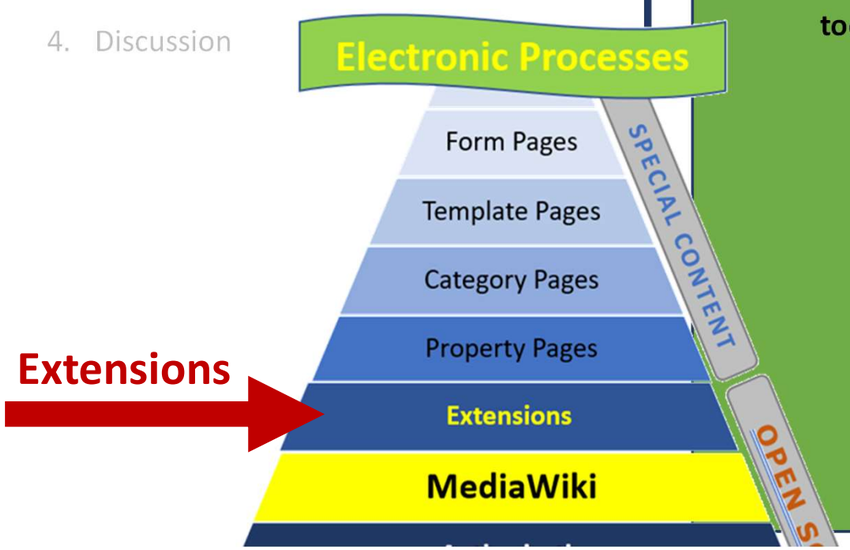

The EMWFS File Folder and Attachment System developed at NASA GRC-ATF

Extension Group	Extension Name	Extension Description
Storing & Retrieving Data In-Pages	SemanticDependencyUpdater	Monitors semantic data changes and updates dependent pages **(SDU)**
	Semantic Extra Special Properties	Adds some extra special properties to all pages **(SESP)**
	Semantic MediaWiki	Making your wiki more accessible - for machines and humans **(SMW)**
	Semantic Result Formats	Additional result formats for Semantic MediaWiki queries **(SRF)**
User Interface (UI) & Usability	Page Forms	Forms for creating and editing wiki pages
	VEForAll	A library for extensions to add VisualEditor
	CommentStreams	Allows commenting on wiki pages
	Header Tabs	Adds tabs to the page separating top-level sections
	SimpleBatchUpload	Allows for simple batch uploading of of files
	MultimediaViewer	Expand thumbnails in a larger size in a fullscreen interface
"Under the hood" tools	Arrays	Store and compute named arrays
	CSS	A parser function that allows CSS stylesheets to be included in specific pages
	MediaFunctions	Parser functions for obtaining information about media files
	MyVariables	Adds new built-in variables
	NumerAlpha	Provides methods of inserting incrementing numbers, letters and roman numerals
	ParserFunctions	Enhance parser with logical functions
	Pipe Escape	Parser function #! for when you want a pipe character to be just a pipe character
	Variables	Parser functions allowing to work with dynamic variables in an article scoped context
	Subpage Fun	Adds parser functions allowing to gain extensive information about subpages
	SubPageList	Allows to list and count subpages

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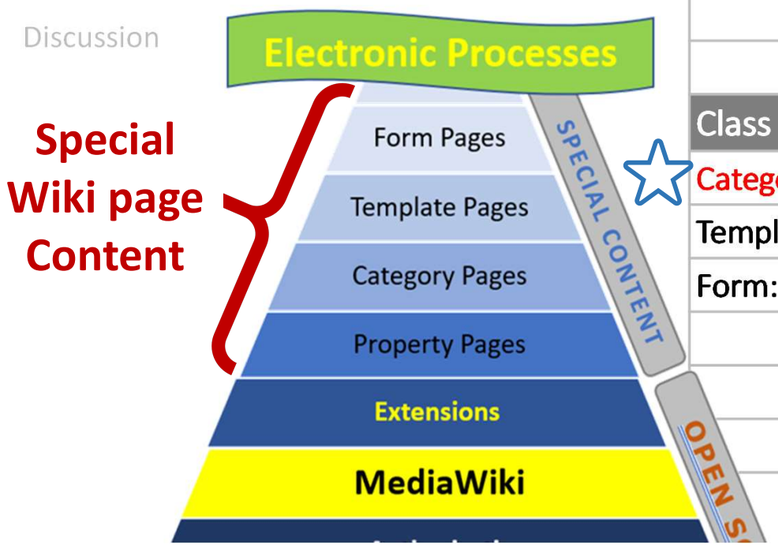

The **EMWFS** File Folder and Attachment System developed at **NASA GRC-ATF**

Class Pages	Property	Supporting Templates
Category: File Folder	Uses FileFolderPagePrefix	Attachment
Template: File Folder	File Folder Total	Embedded File Folder
Form: File Folder	Has File Folder Size	File Folder - Parent Item
	Has Num Of Files	File Folder - Parent Result (Bot)
	Has Num Of Subpages	File Folder - Parent Result (Row)
	Has Parent Page	File Folder - Parent Result (Row2)
	File Folder Has POC	File Folder - Parent Result (Top)
	File Folder Has Purpose	File Folder Pie Graph Array Element
	Has Total Folder Size	
	Has Total Number of Files	
	Has Total Number of Files Within	
	Is Protected	
Class Pages	**Property**	**Supporting Templates**
Category: Upload	Has file ext	
Template: Upload	Has file size	
Form: Upload	Has file type	
	Is a known duplicate	
	Is an accepted duplicate	
	Relates to Upload Page	

Available here: https://github.com/revansx/NASA-GRC-ATF-KMS-Tool-File-Folder

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#batchupload parser function

The **EMWFS** File Folder and Attachment System developed at **NASA GRC-ATF**

The wiki code for using the **#batchupload** parser function

☆
```
{{#batchupload: Uploads
   | +rename= !^(EMWFS{{PAGEID}}-[./+]*)?!iu -->EMWFS{{PAGEID}}-
}}
```

Upload Tool

Upload files to this folder page using the drop-box below

☆

Select files (or drop them here)...

Reminder: To avoid filename duplications, files uploaded here will be given the prefix "EMWFS23-"

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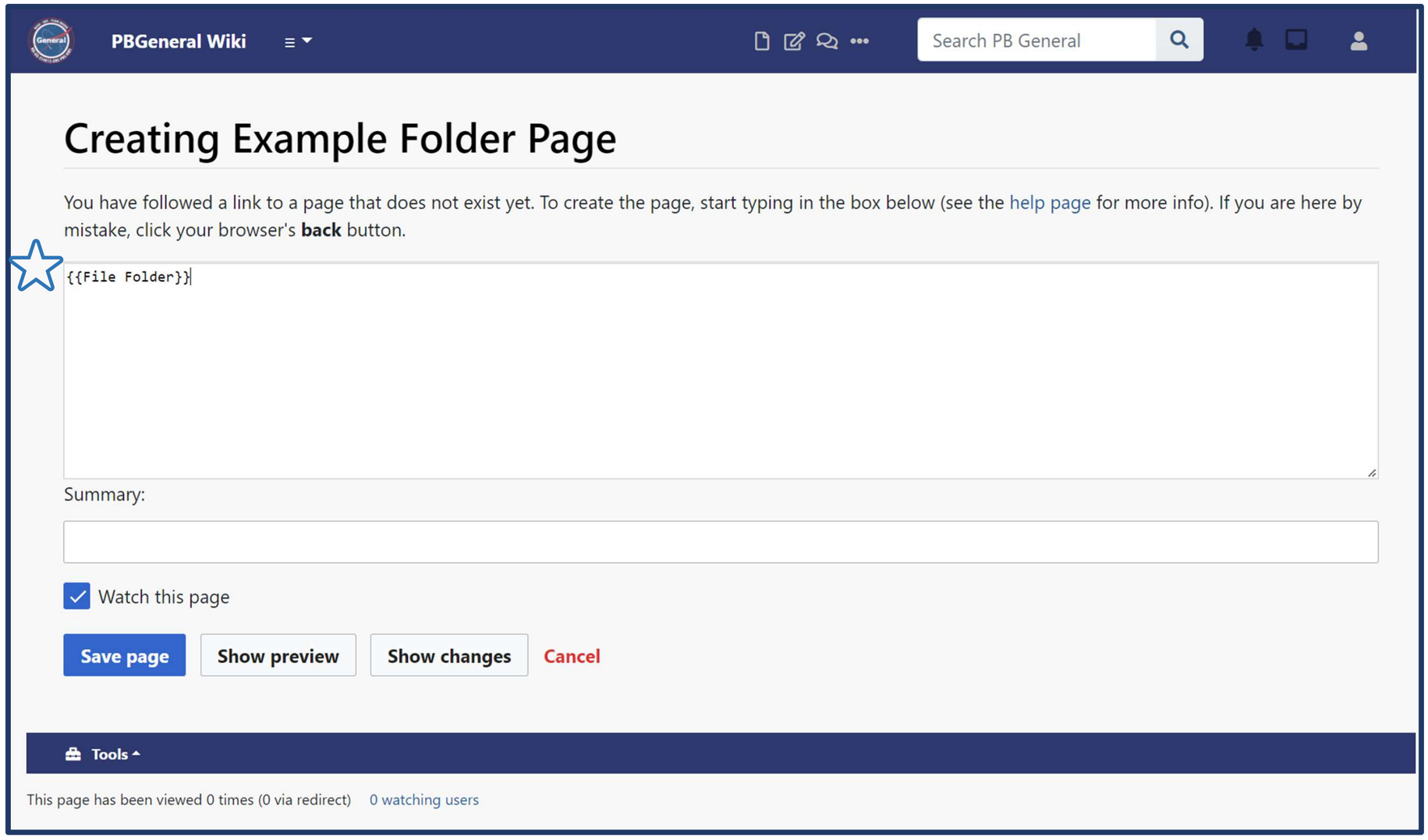

Making a Folder Page

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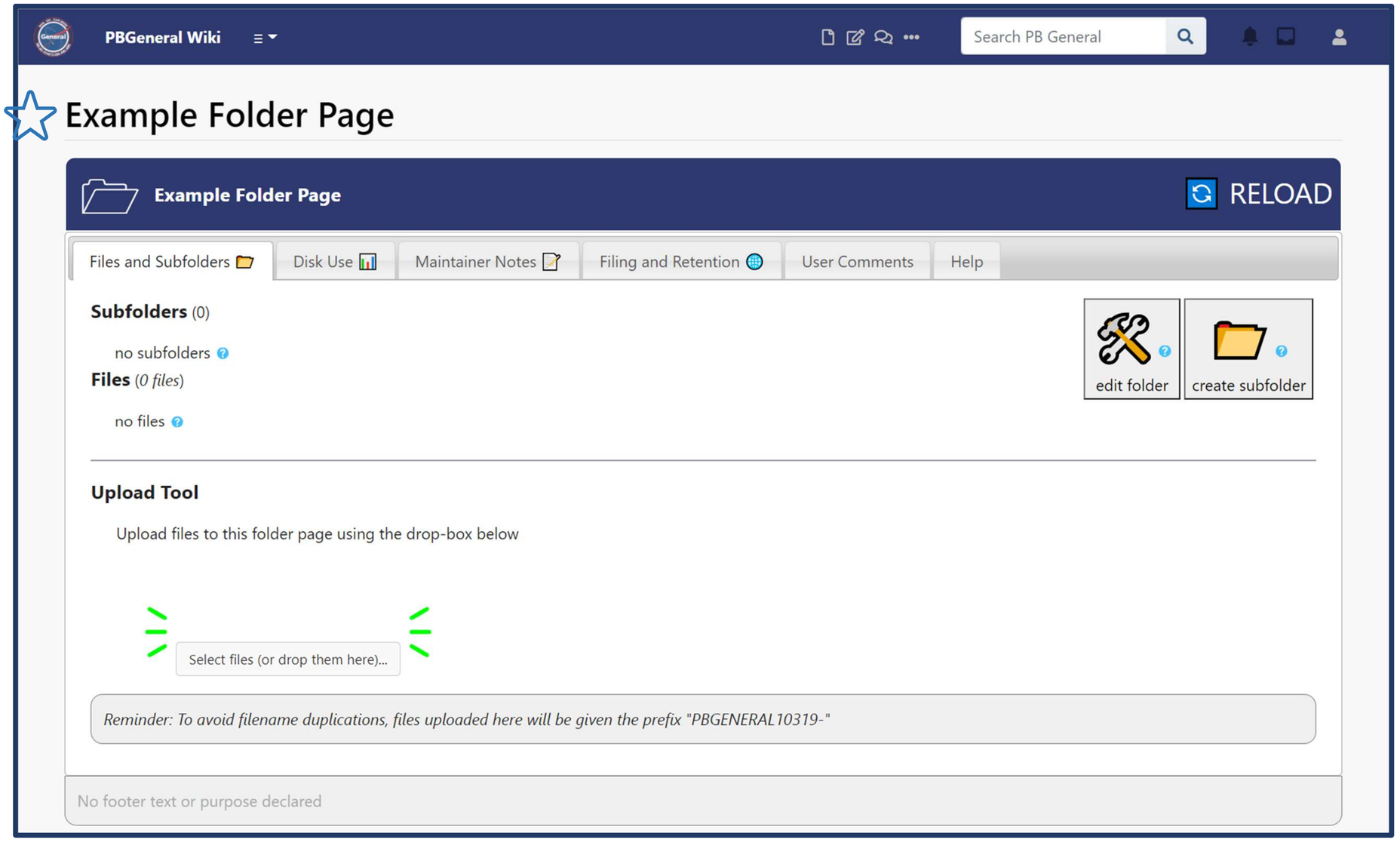

Example Folder Page

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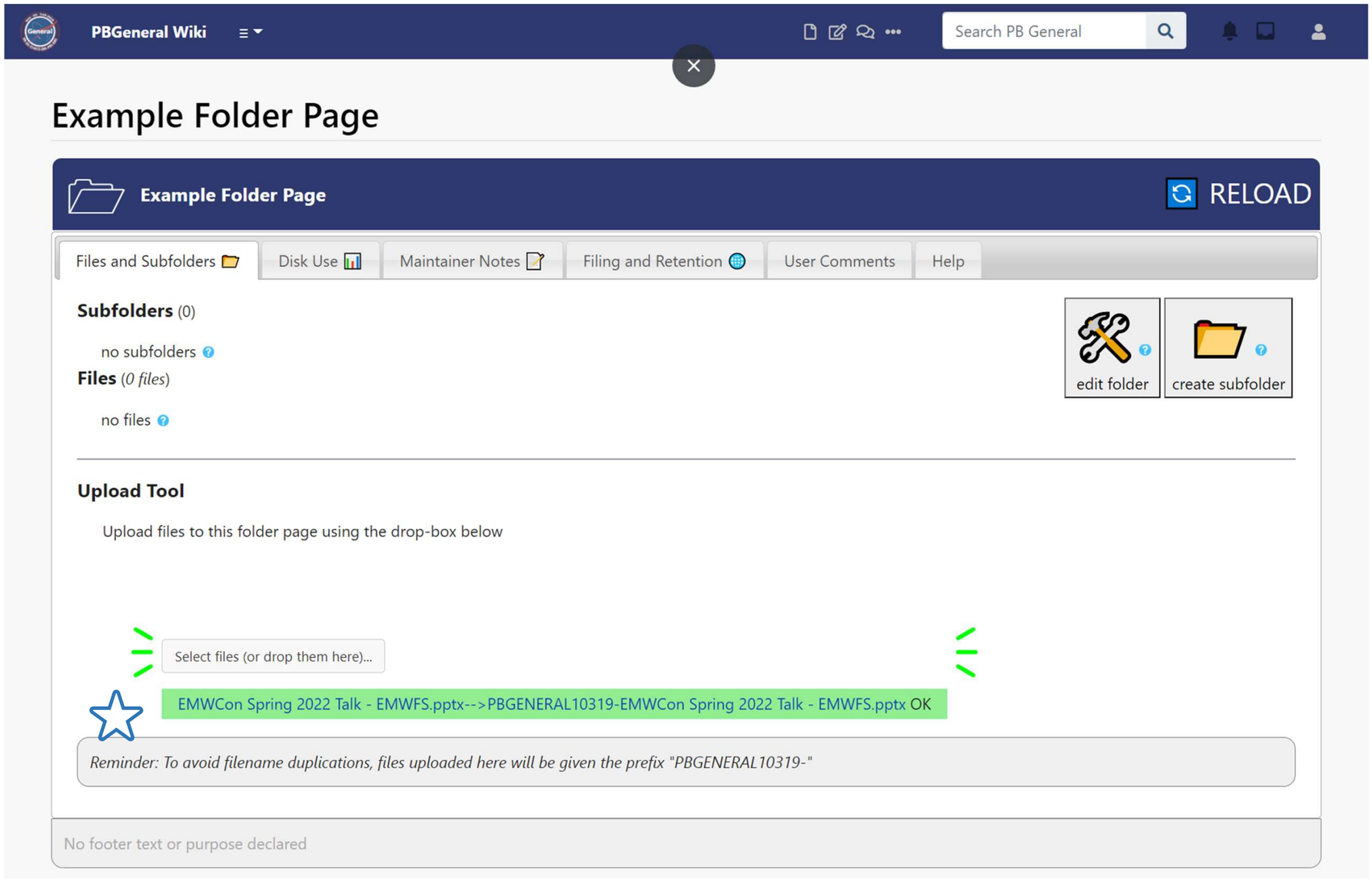

Uploading a file

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PBGeneral Wiki ≡ Search PB General

Example Folder Page

Example Folder Page RELOAD

Files and Subfolders | Disk Use | Maintainer Notes | Filing and Retention | User Comments | Help

Subfolders (0)

no subfolders

Files (*1 files*)

edit folder | create subfolder

Name	Type	Size	Revs	Date
EMWCon Spring 2022 Talk - EMWFS.pptx	PPTX	2,498.56 KB	1	2022-04-06 - 07:55 pm

Upload Tool

Upload files to this folder page using the drop-box below

Select files (or drop them here)...

Reminder: To avoid filename duplications, files uploaded here will be given the prefix "PBGENERAL10319-"

No footer text or purpose declared

File Uploaded

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PBGeneral Wiki ≡ ••• Search PB General

☆ # File:PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx

File Download - Use the link in yellow to download a local copy of this file.

PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx

Relates to

- Upload page: Example Folder Page

File history

Click on a date/time to view the file as it appeared at that time.

		Date/Time	Dimensions	User	Comment	
delete all	current	**15:55, 6 April 2022**	(2.44 MB)	Rkevans (talk | contribs |)	Uploaded with SimpleBatchUpload	approve

Upload a new version of this file

File usage

The following 2 pages use this file:

- Example Folder Page
- File:PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx

File Page

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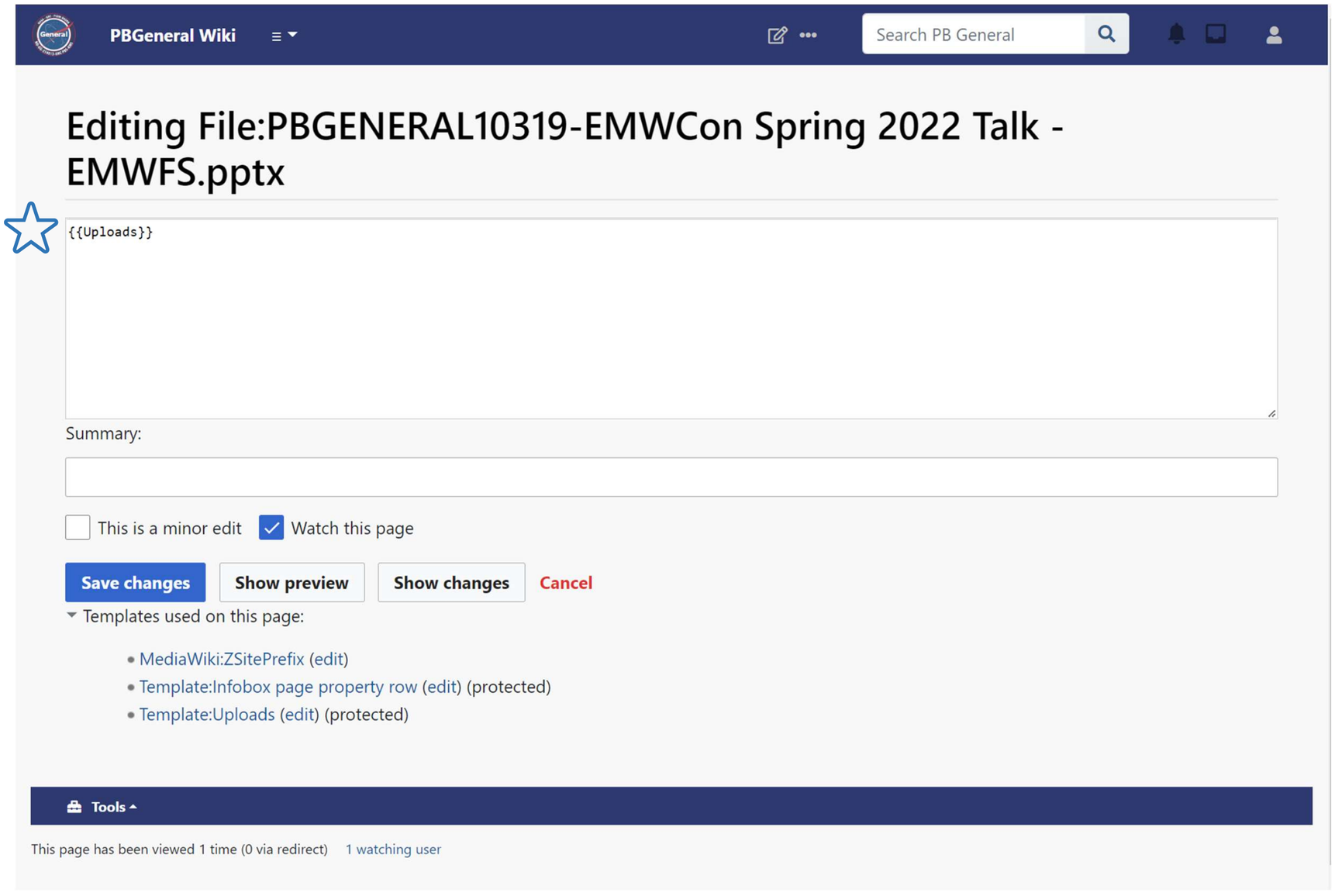

File Page Source Code

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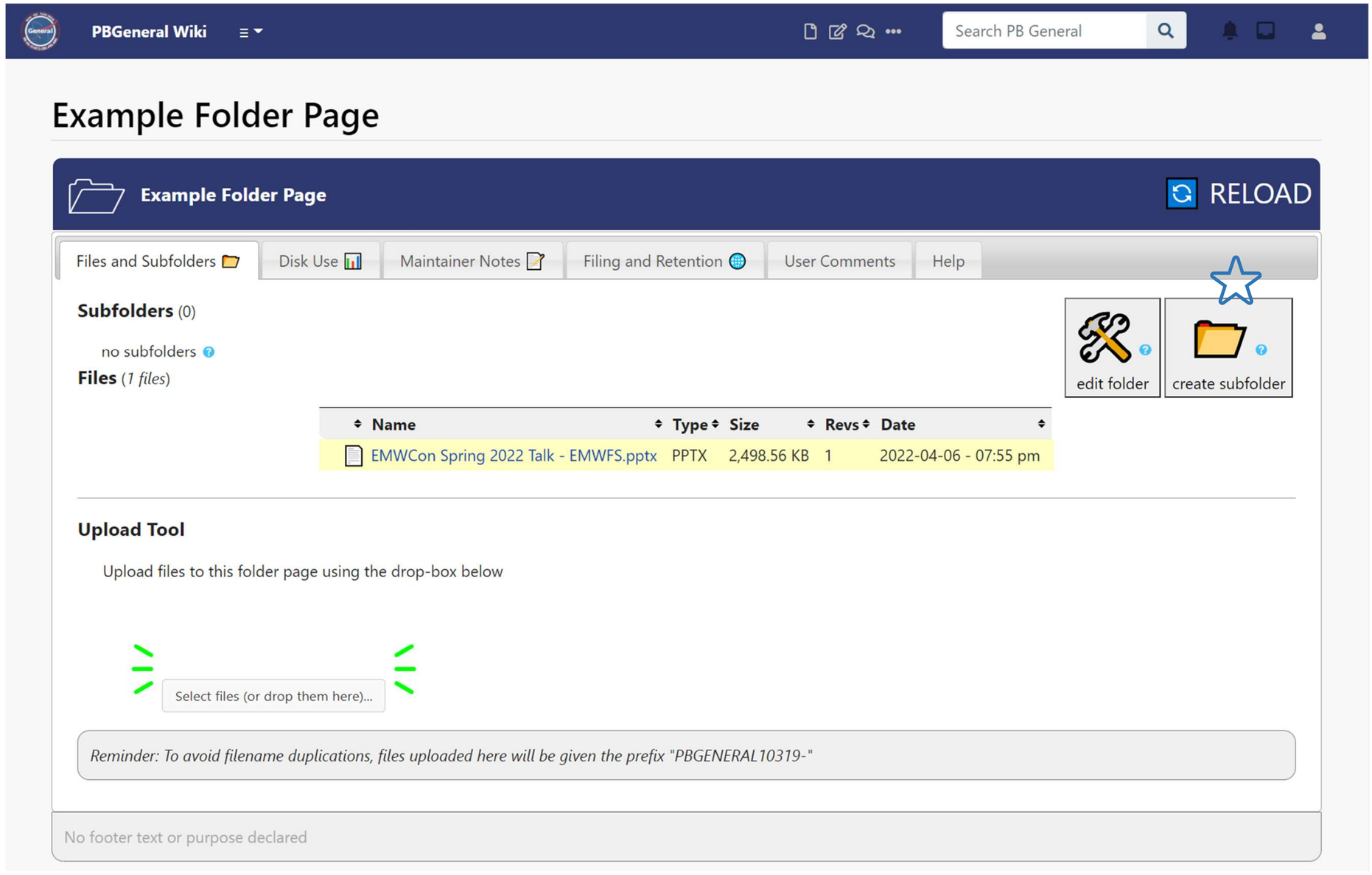

Where to make a sub-folder

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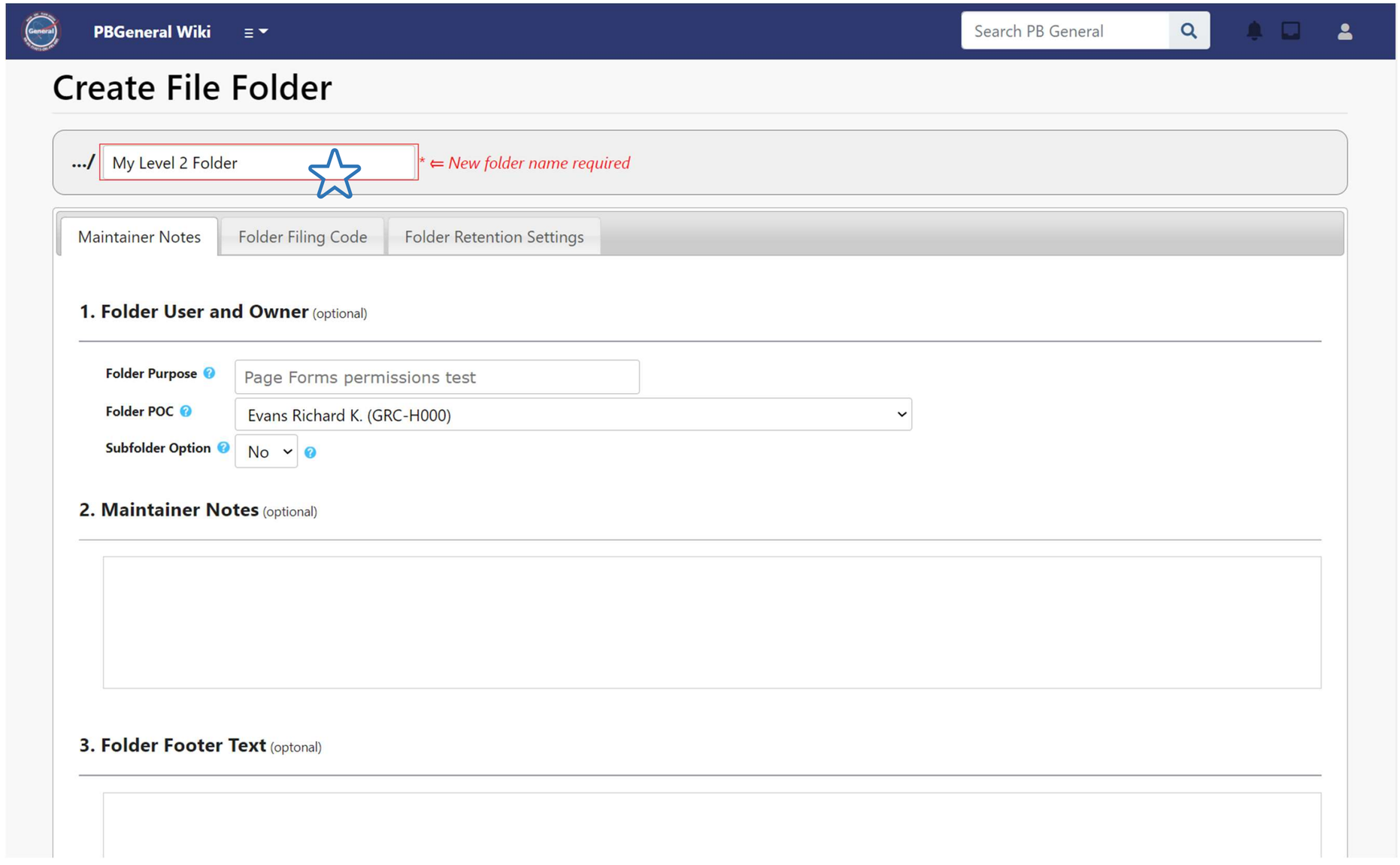

Making a sub-folder

A File Folder and Attachment System for MW

SPRING 2022

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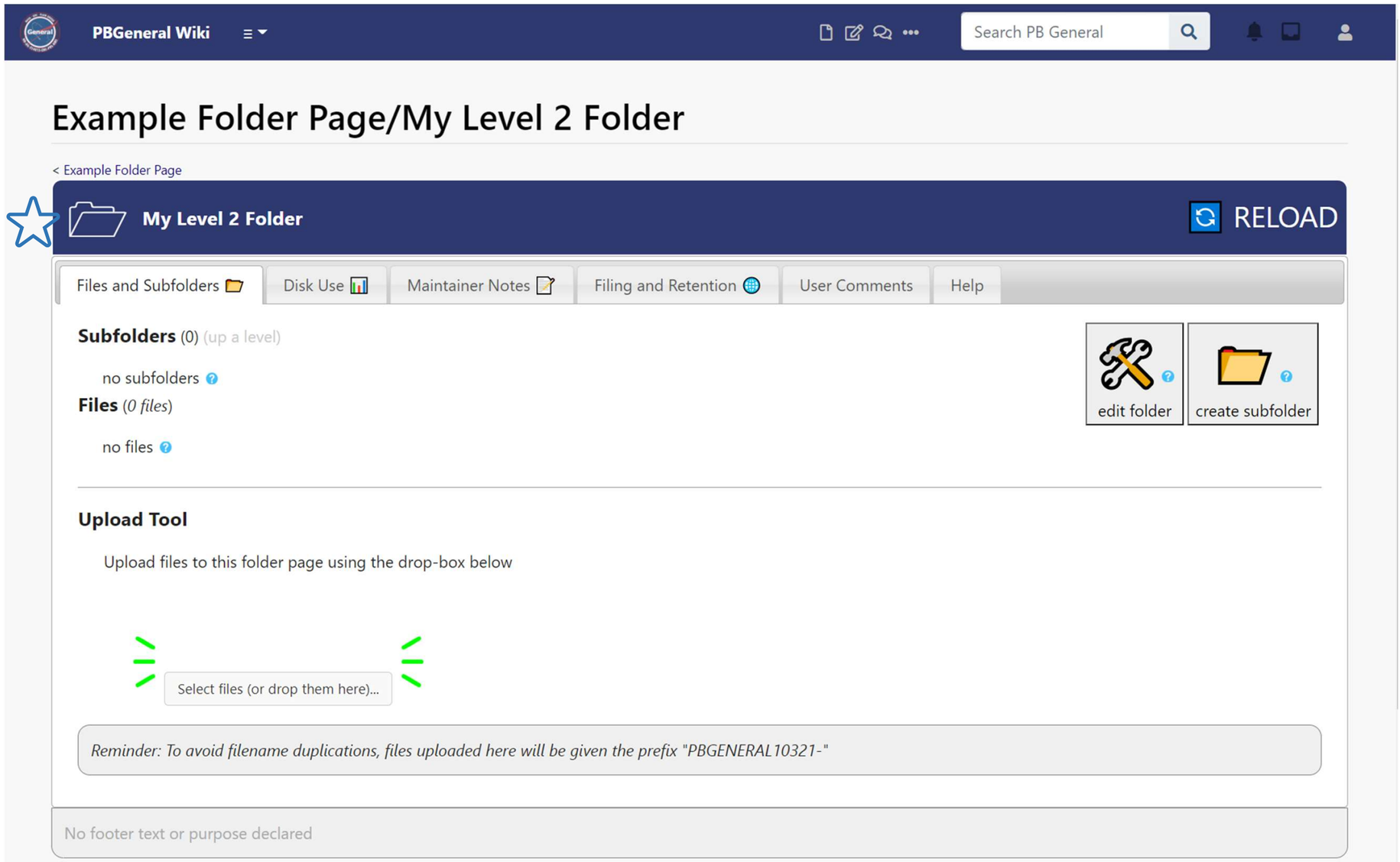

Sub-folder page

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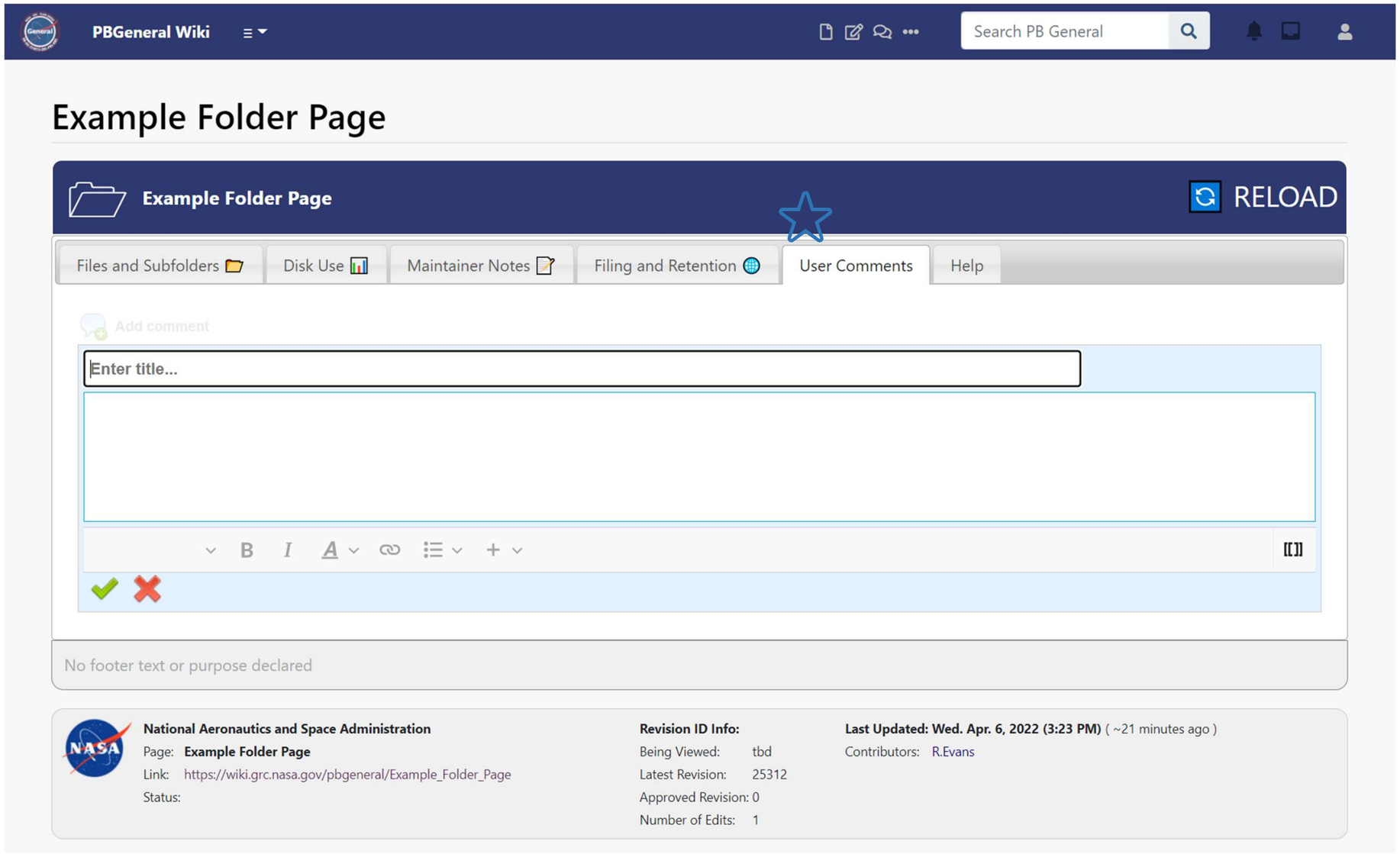

Folders with Comment Streams in HeaderTabs

The goal of this talk ~~is~~ (*was)* to

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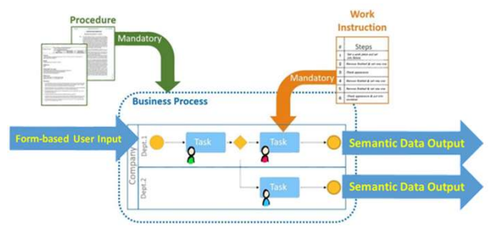

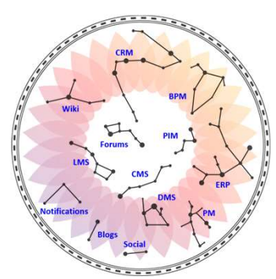

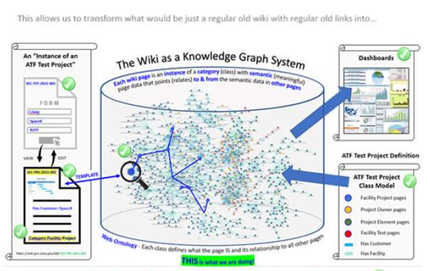

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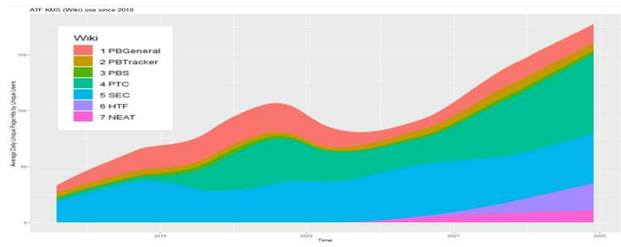

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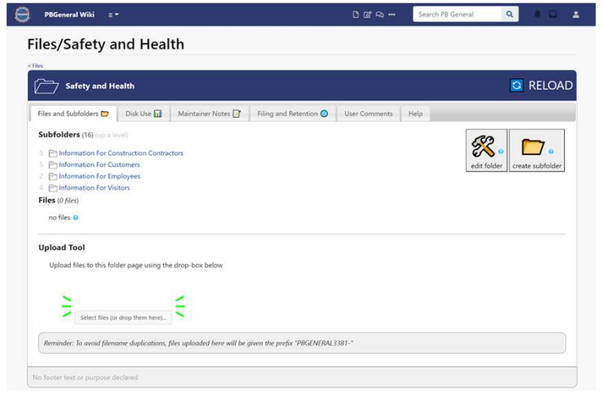

To use MediaWiki

or not to use MediaWiki

That is the question!

Thank you!

For a limited time, our File Folder and Attachment wiki pages are available here: https://github.com/revansx/NASA-GRC-ATF-KMS-Tool-File-Folder