



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?



... and, by doing so, achieve what?

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



Outline

- ☆ 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

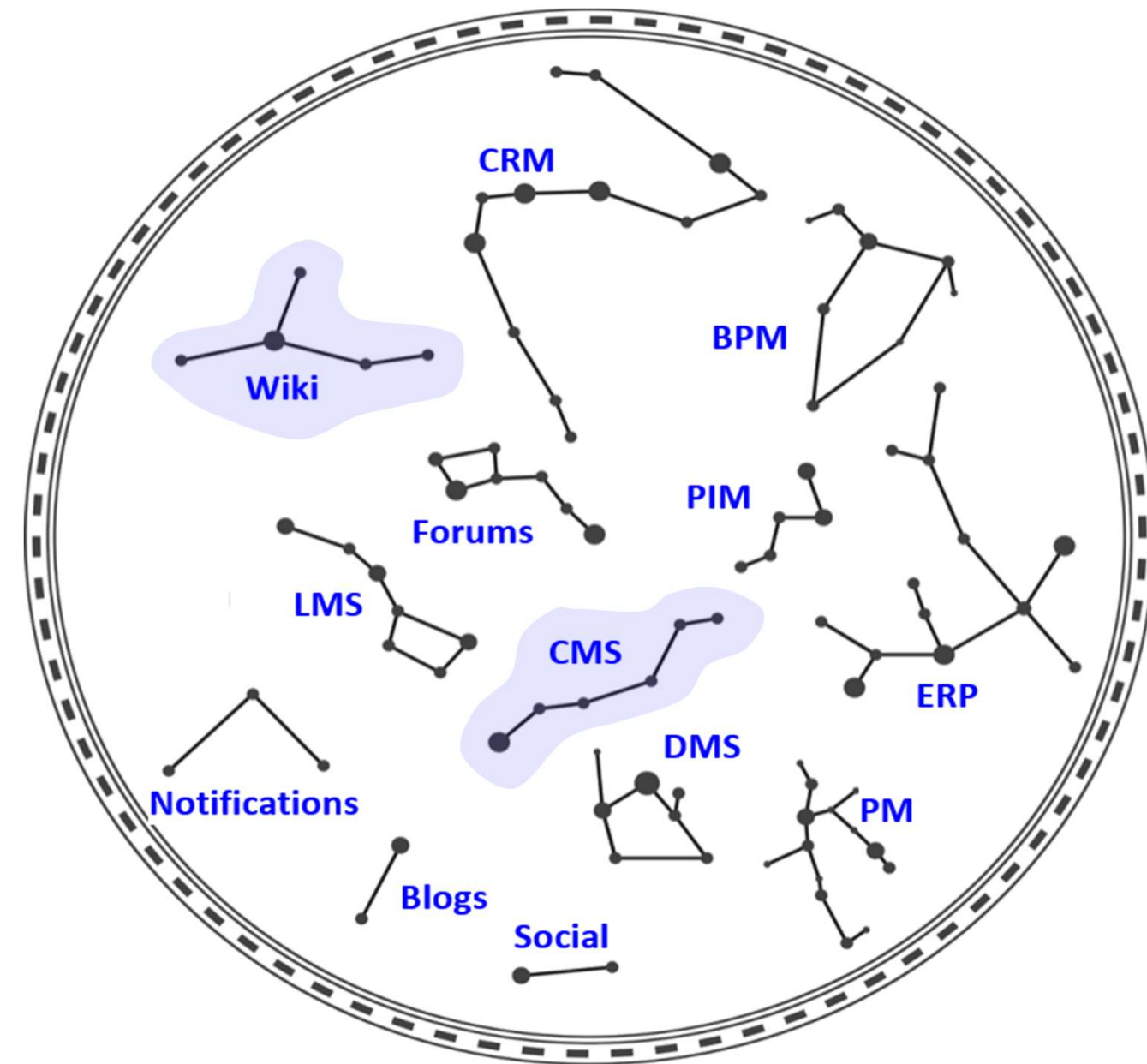
- CMS Content Management
- DMS Document Management
- LMS Learning Management
- PM Project Management
- DAM Digital Asset Management

Process & Data

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

Social Platforms

- Wiki
- Blog
- Forum
- Social



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)

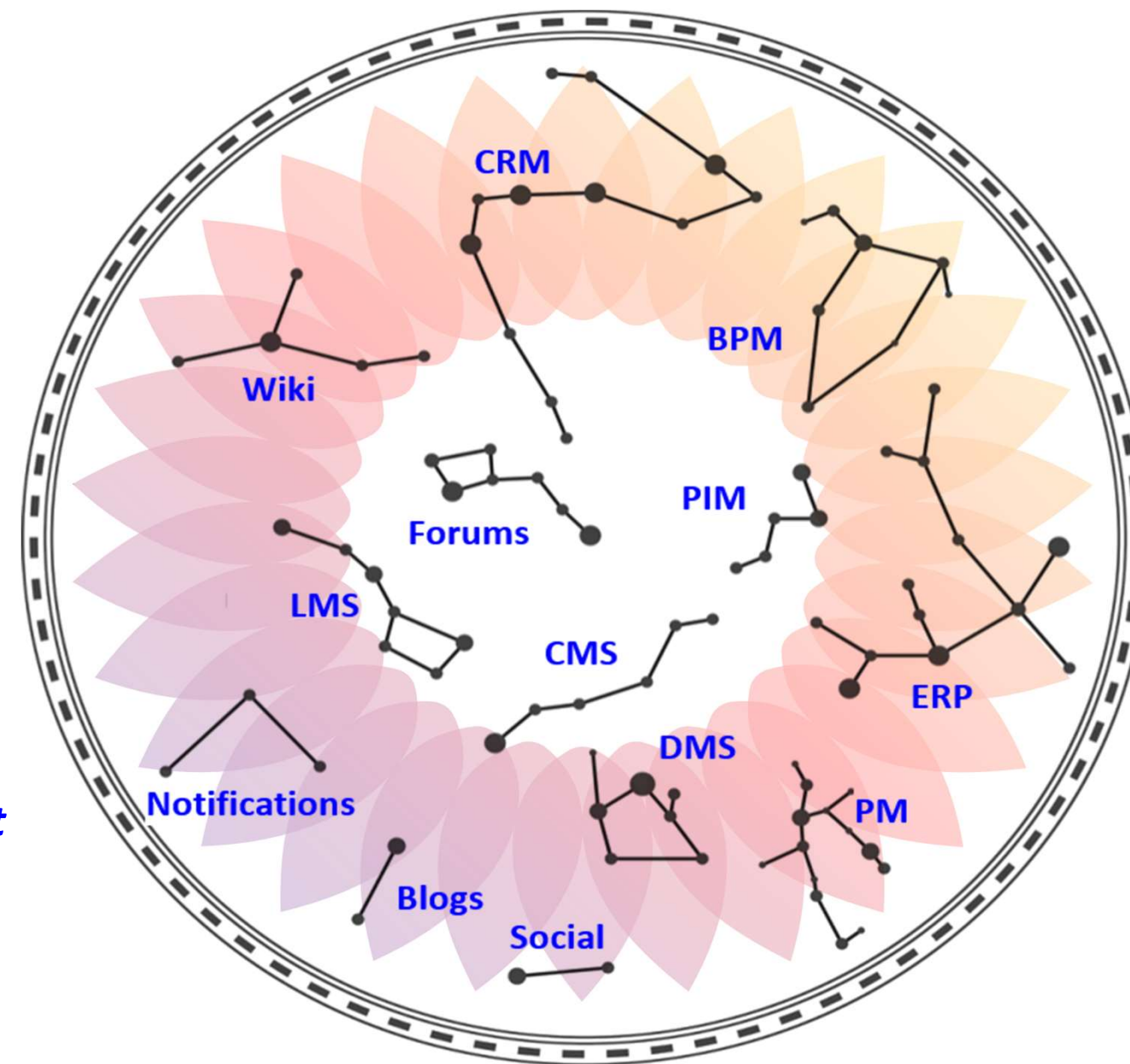
With some specific extensions, MediaWiki can be easily extended to allow users to store data in pages and display queries in other pages, this means organizations can develop complex data-driven applications "as content"

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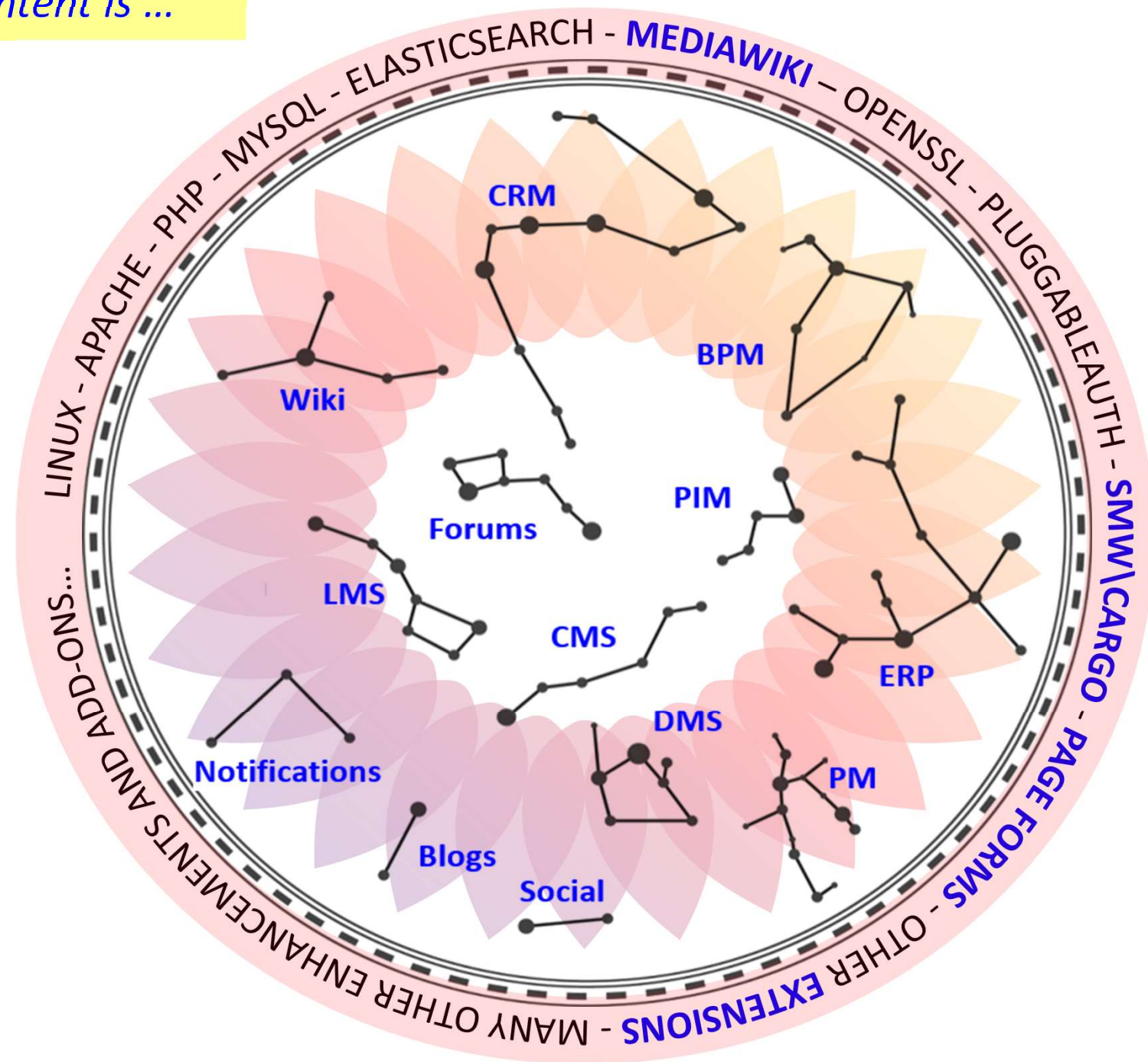
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AP-NASA-HDBK-001 V2.5, NASA's Applications Program (AP) Policy Handbook

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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[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/](https://dodcio.defense.gov/open-source-software-faq/)

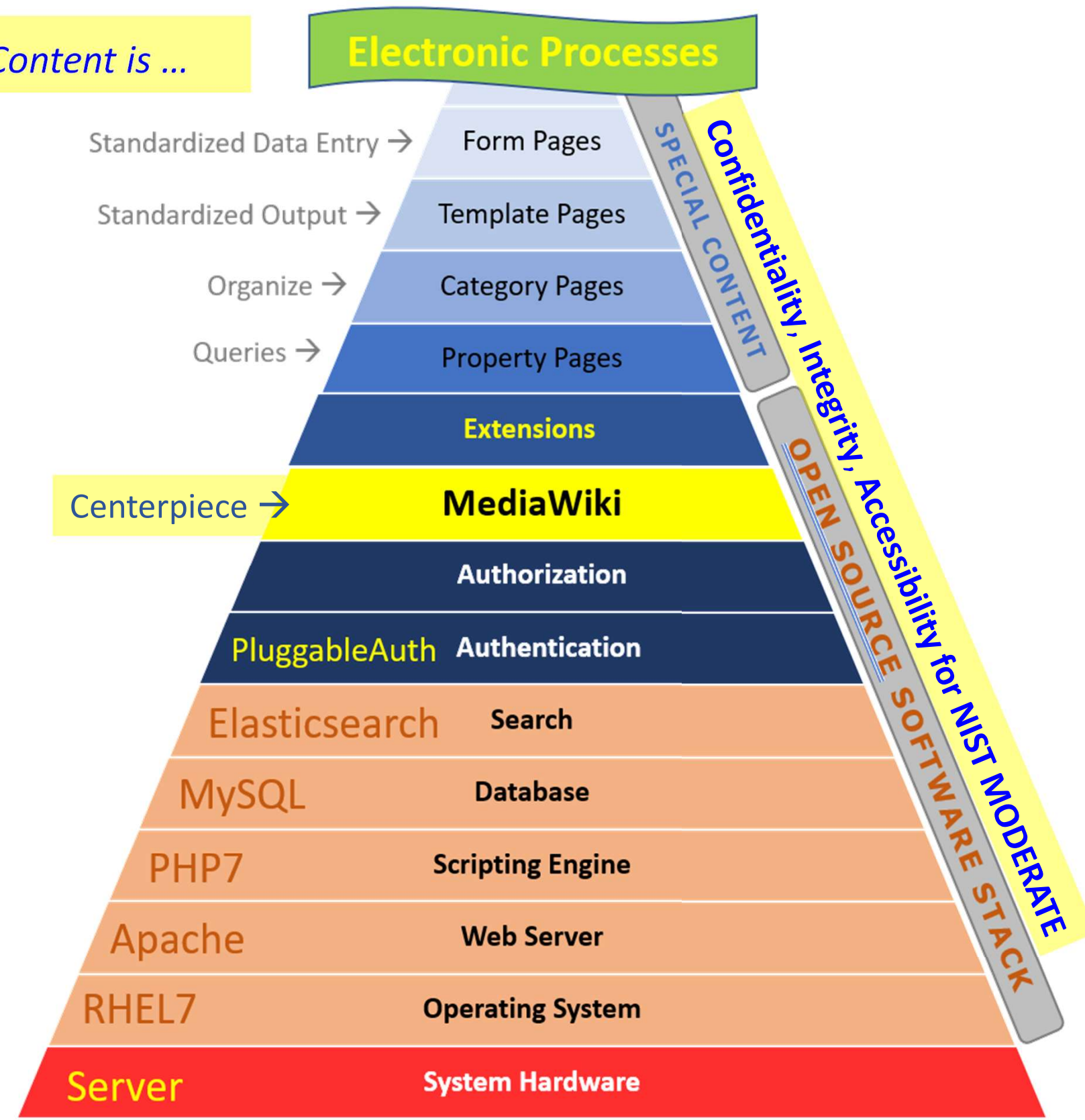
[OMB Memorandum M-19-21, Transition to Electronic Records](#)

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

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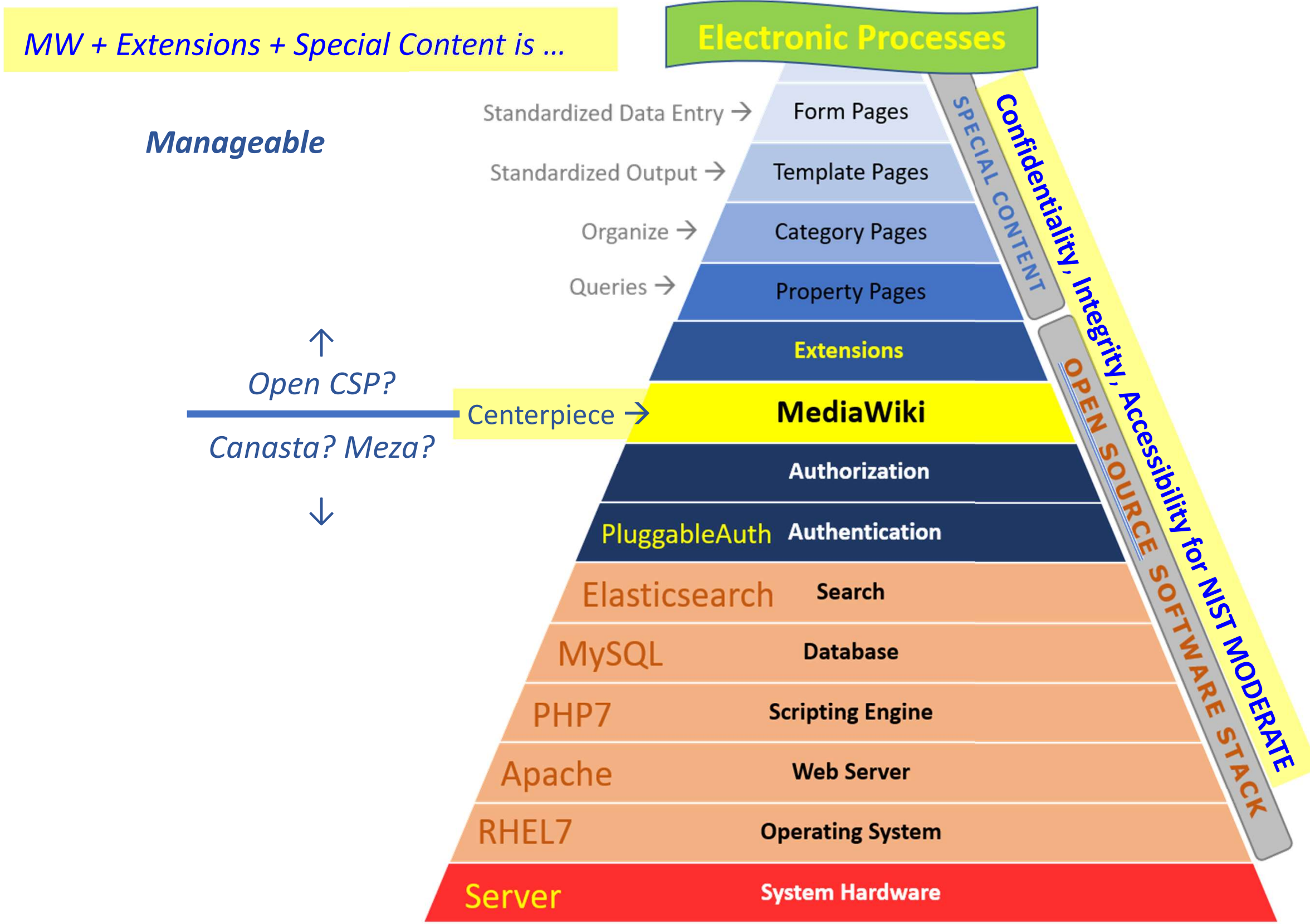
Electronic Processes

Secure(able)
Via a well-designed application security plan



Outline

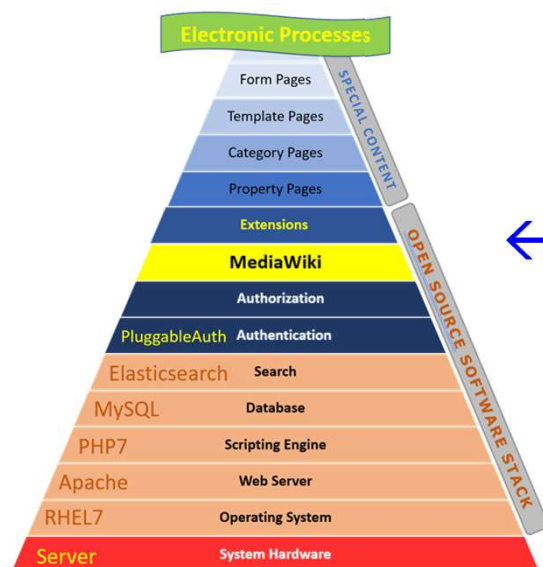
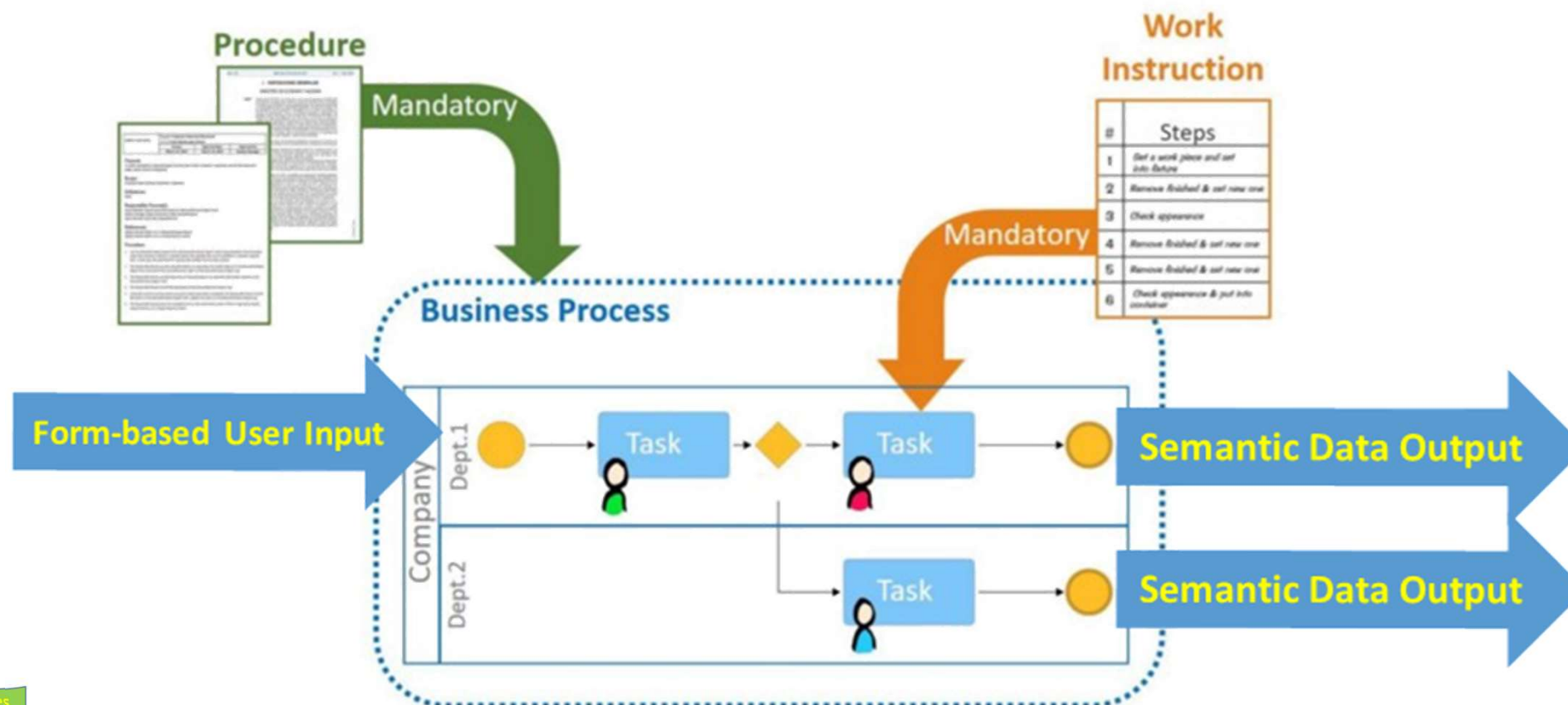
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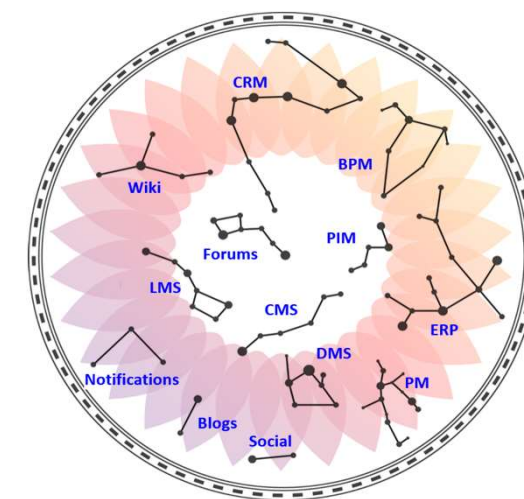
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MW + Extensions + Special Content is ... a unified platform for process workflows

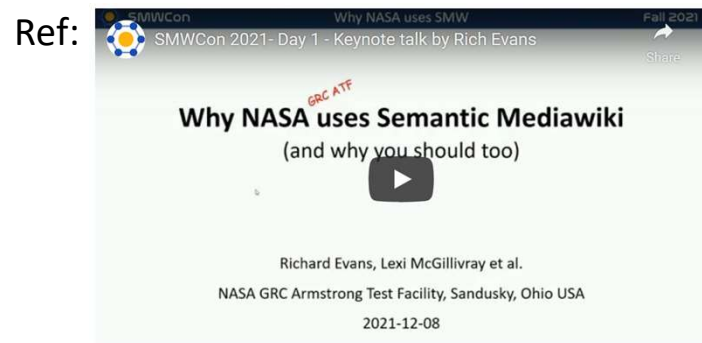


← 100% Open-Source MediaWiki-centered software stack provides a unified platform for a 100% data-driven → organizational process workflows



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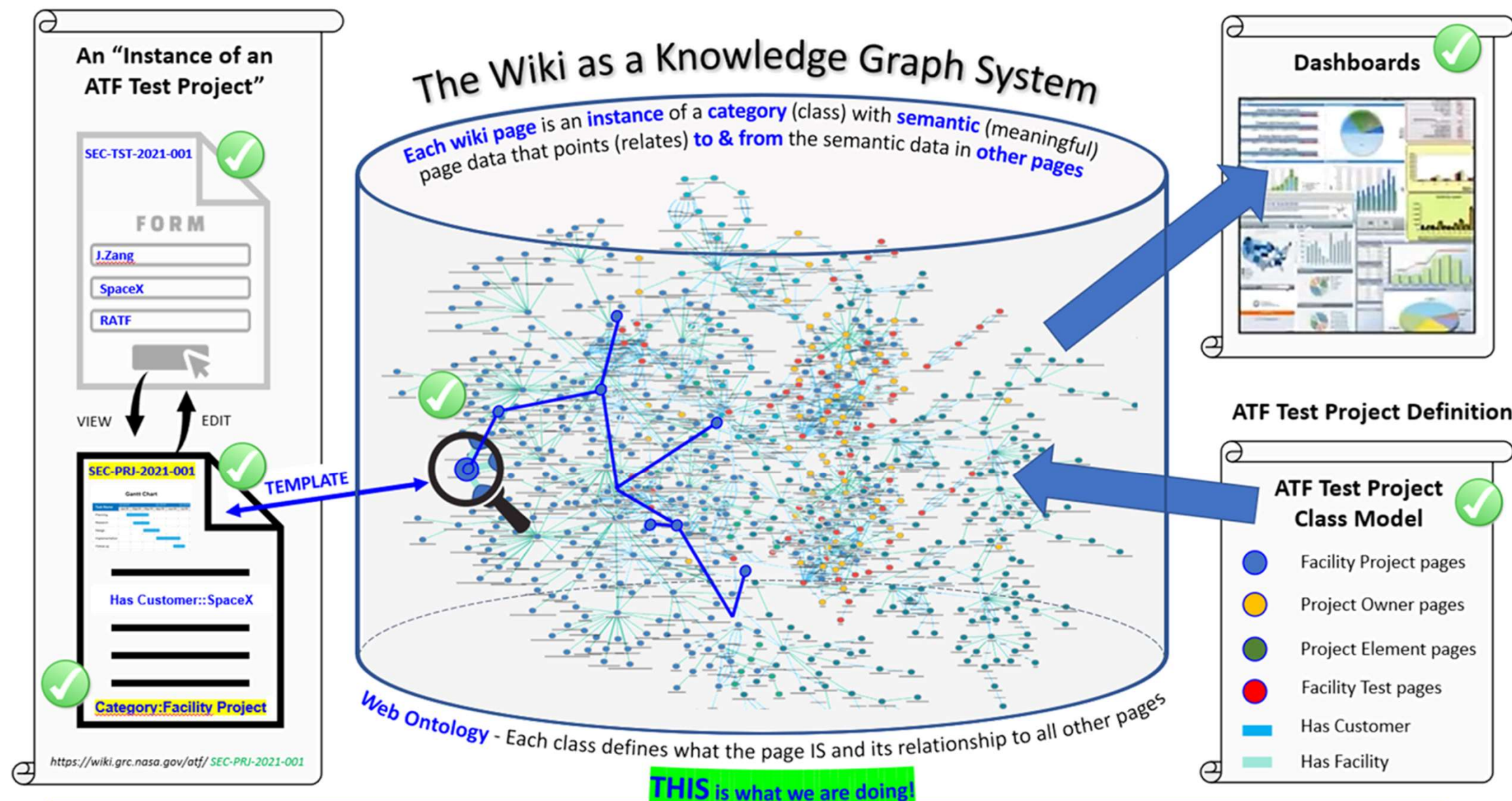
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https://www.semantic-mediawiki.org/wiki/SMWCon_Fall_2021/Keynote_talk

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...



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

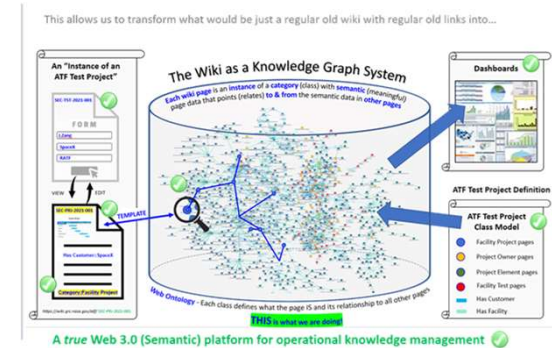
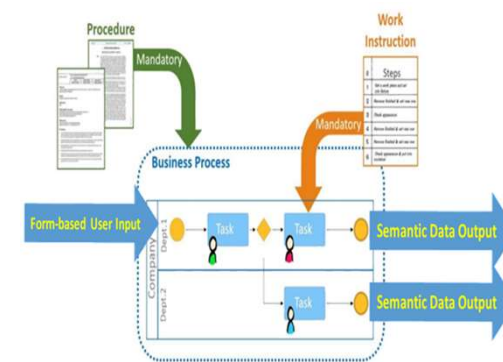
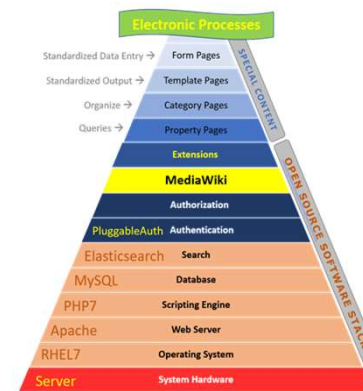
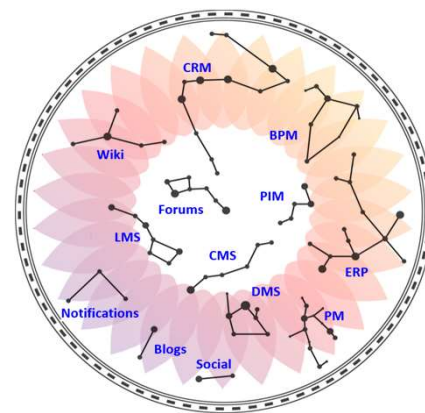
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MW + Extensions + Special Content =



All-in-One

**secure(able)
sustainable**

site for

**Electronic Processes → DT
Knowledge Graph → AI/NLP**

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**DT = Digital Transformation
AI = Artificial Intelligence**



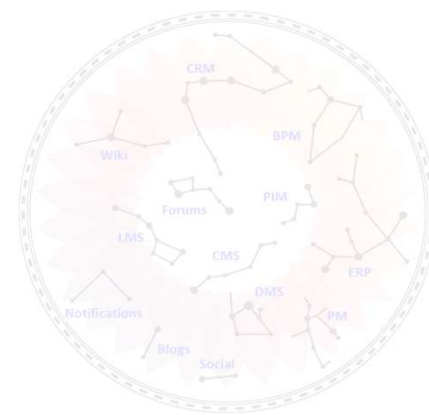
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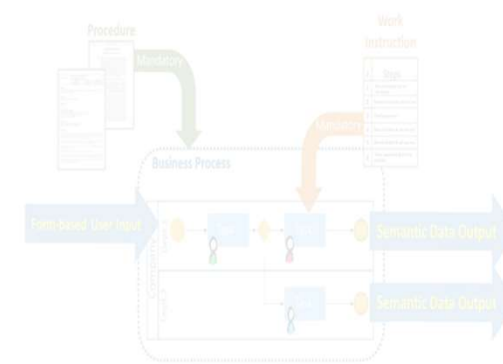
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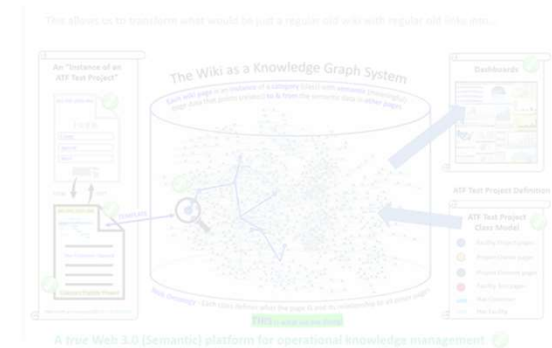
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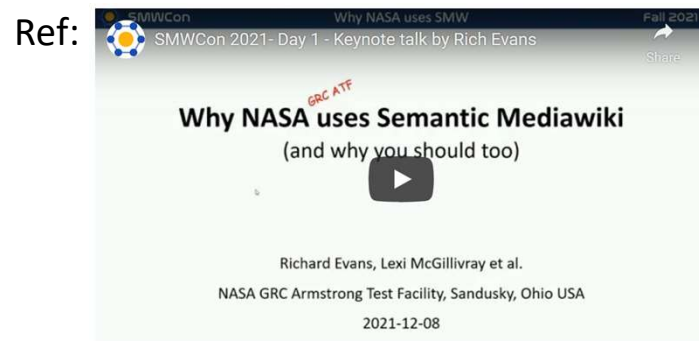
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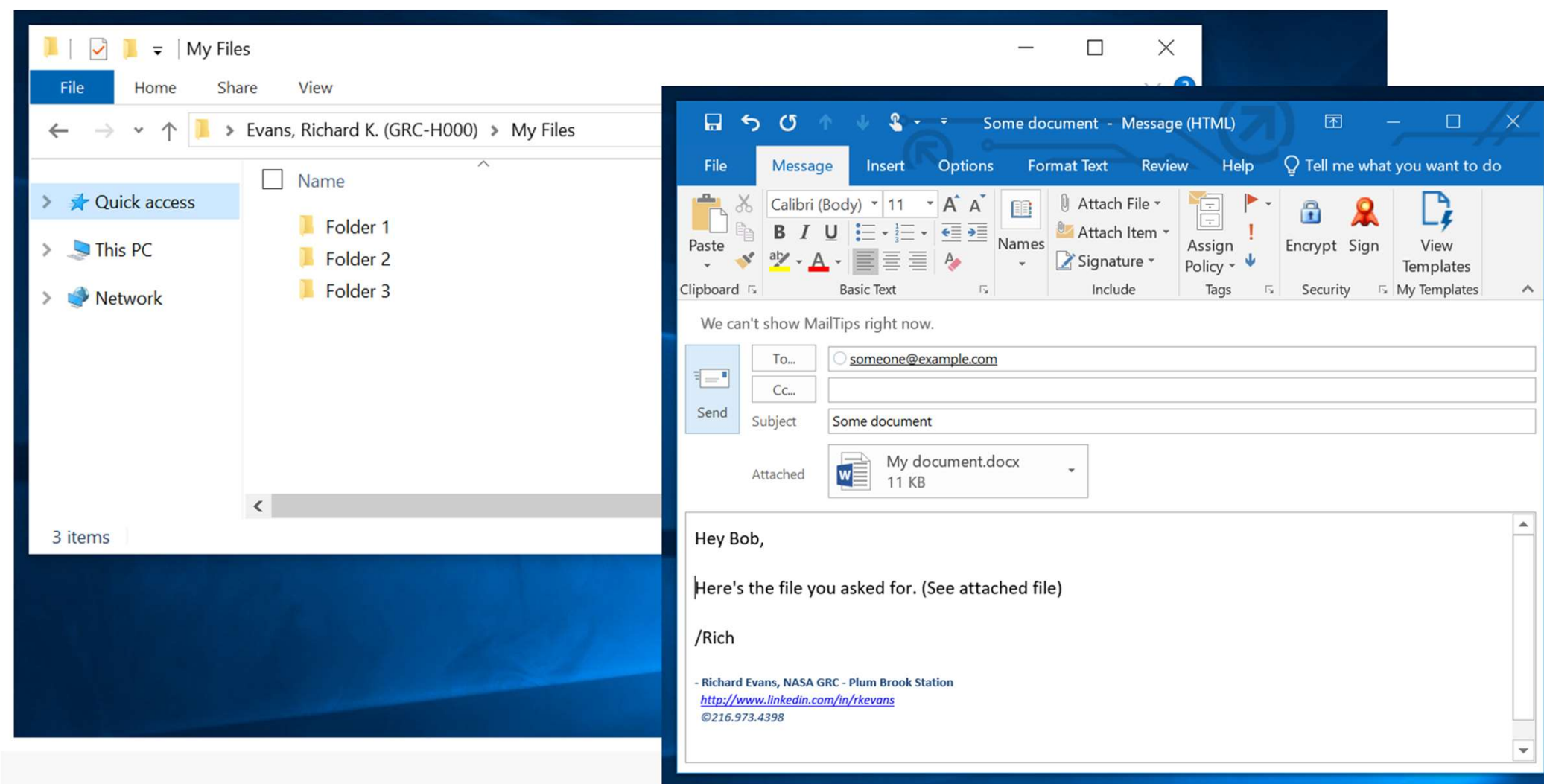
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Why a File Folder and Attachment System for Mediawiki matters

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
- Rely heavily on file **attachments** in emails as records

Web of Documents (Web 1.0)





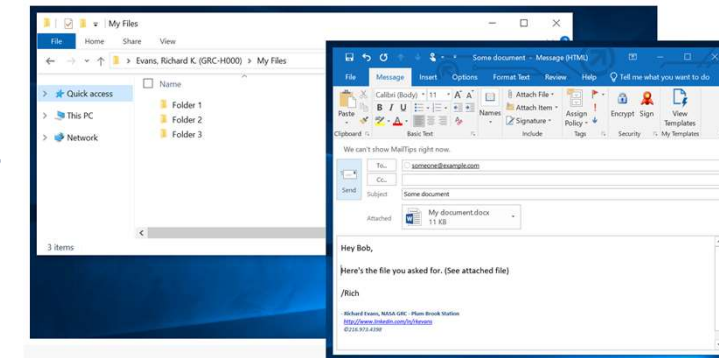
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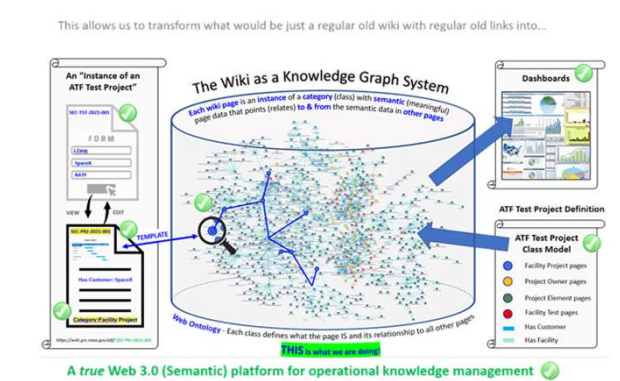
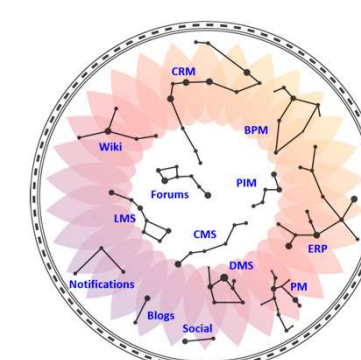
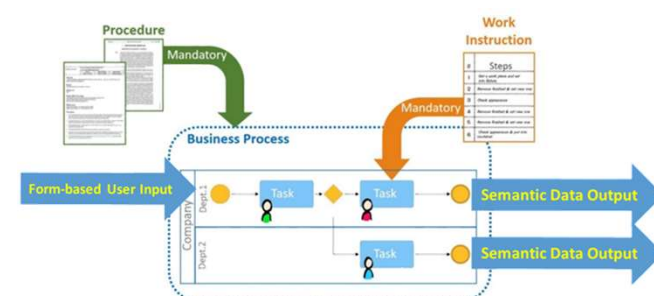
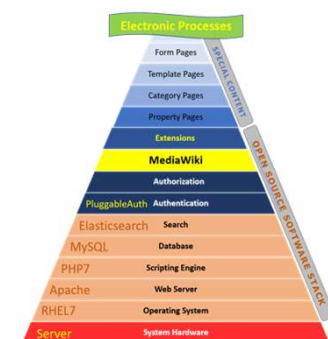
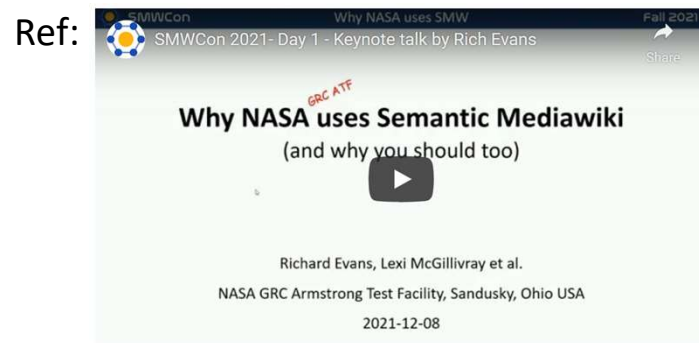
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The **Future state** of a fully **digitally transformed** organization:

- Oriented heavily around management of "**Data**"
- Rely heavily on **process design** for organizational structure
- Rely heavily on **metadata** in process instances as records

Web of Documents (Web 1.0)



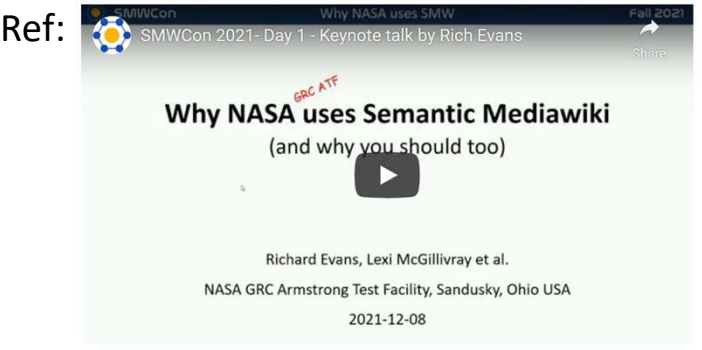
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Web of Data (Web 3.0)



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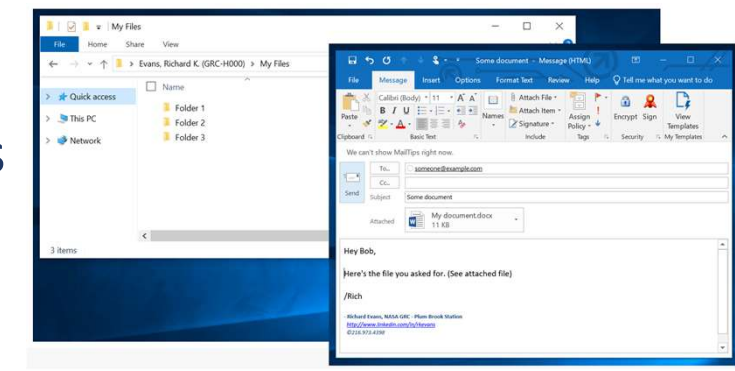


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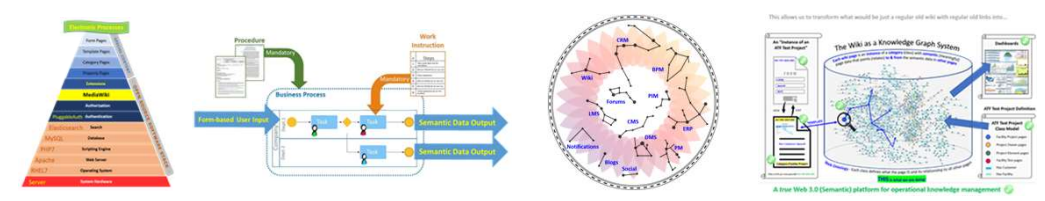
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Web of Documents (Web 1.0)

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**



Web of Data (Web 3.0)

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



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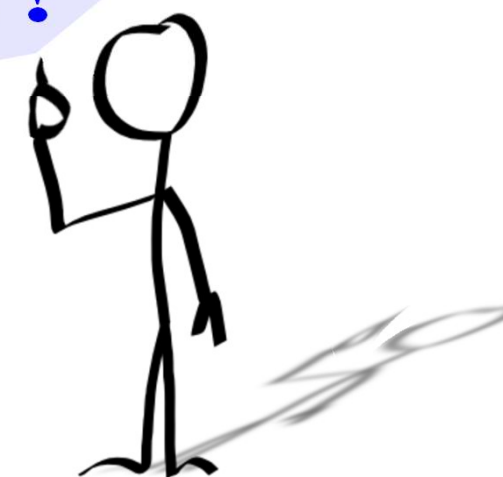
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We seek to:

- 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**” !!!

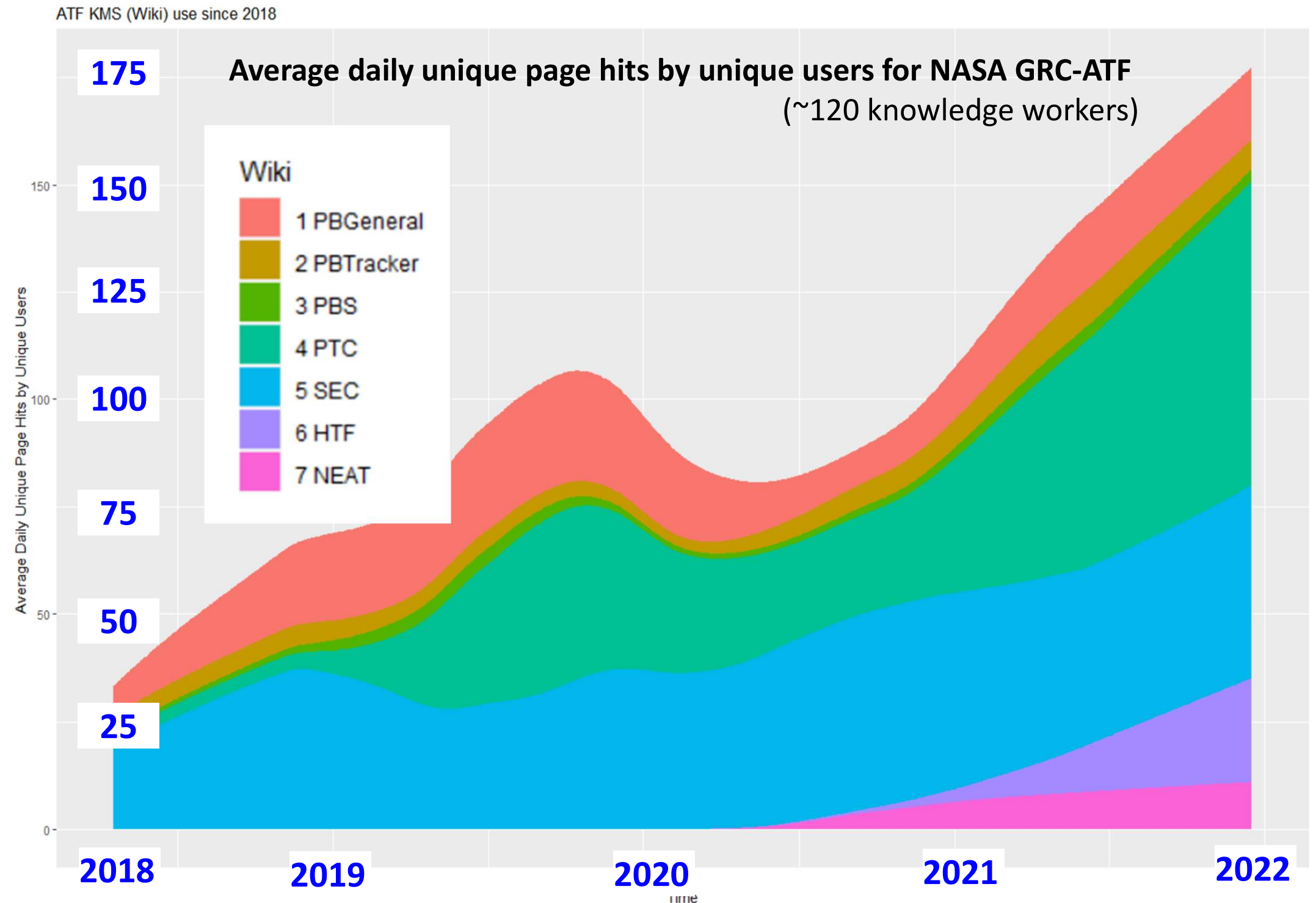




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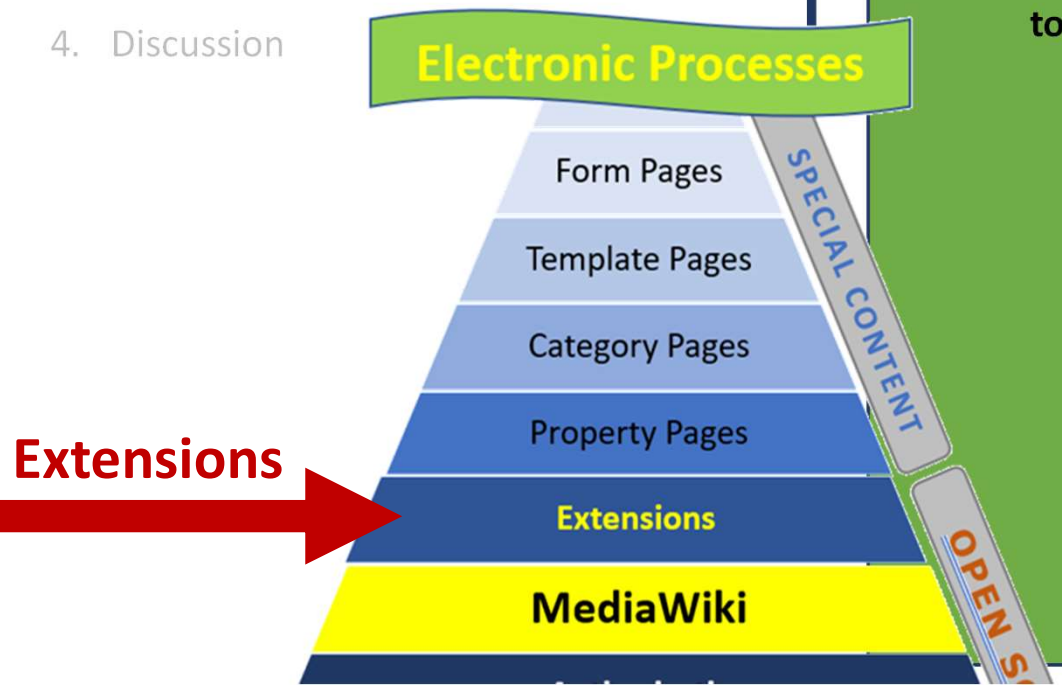


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Extension Group	Extension Name	Extension Description
Storing & Retrieving Data In-Pages	SemanticDependencyUpdater	Monitors semantic data changes and updates dependent pages (SDU)
	Semantic Extra Special Properties	Adds some extra special properties 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 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



Extensions

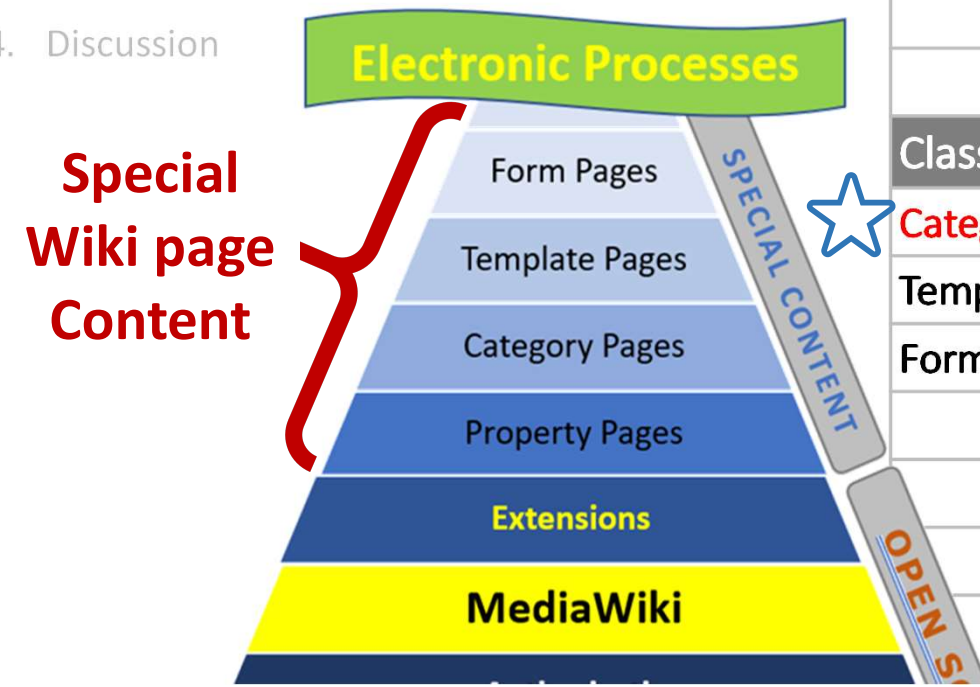


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Class Pages	Property	Supporting Templates
★ Category: File Folder	Uses FileFolderPagePrefix	Attachment
Template: File Folder	File Folder Total	Embedded File Folder
Form: File Folder	Has File Folder Size	File Folder - Parent Item
	Has Num Of Files	File 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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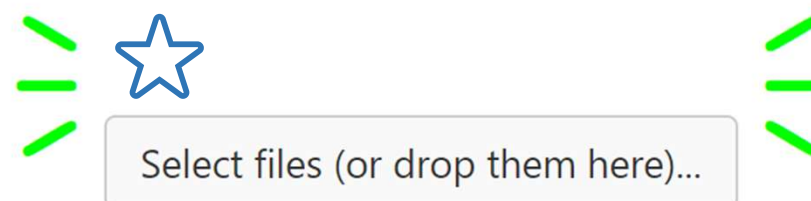
The wiki code for using the **#batchupload** parser function

★

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

Upload Tool

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



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

#batchupload parser function



Outline

1. Why an organization might want to use MediaWiki for managing internal project files and process records.
MW + Extensions + Special Content = All-in-One site for electronic processes
2. Why a File Folder and Attachment System for MediaWiki matters
It is the key to voluntary adoption and a "transformation over time"
- ★ 3. The EMWFS File Folder and Attachment System developed at NASA GRC-ATF
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The EMWFS File Folder and Attachment System developed at NASA GRC-ATF

The screenshot shows the MediaWiki 'Creating Example Folder Page' interface. The page title is 'Creating Example Folder Page'. Below the title, there is a message: 'You have followed a link to a page that does not exist yet. To create the page, start typing in the box below (see the help page for more info). If you are here by mistake, click your browser's **back** button.' A text input field contains the text '{{File Folder}}'. Below the input field is a 'Summary:' label and an empty text box. There is a checked checkbox labeled 'Watch this page'. At the bottom, there are four buttons: 'Save page' (blue), 'Show preview' (grey), 'Show changes' (grey), and 'Cancel' (red). The page footer shows 'Tools ^' and 'This page has been viewed 0 times (0 via redirect) 0 watching users'.

Making a Folder Page



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The screenshot shows a web interface for 'PBGeneral Wiki'. The main heading is 'Example Folder Page', marked with a star icon. Below the heading is a dark blue navigation bar with a folder icon, the title 'Example Folder Page', and a 'RELOAD' button. A secondary navigation bar contains tabs for 'Files and Subfolders', 'Disk Use', 'Maintainer Notes', 'Filing and Retention', 'User Comments', and 'Help'. The main content area is divided into sections: 'Subfolders (0)' with 'no subfolders', 'Files (0 files)' with 'no files', and an 'Upload Tool' section. The 'Upload Tool' section includes a drop-box with the text 'Select files (or drop them here)...' and a reminder: 'Reminder: To avoid filename duplications, files uploaded here will be given the prefix "PBGENERAL10319-".' At the bottom, there is a footer area with the text 'No footer text or purpose declared'.

Example Folder Page



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The screenshot shows a MediaWiki page titled "Example Folder Page" on the "PBGeneral Wiki". The page features a dark blue header with the site name and a search bar. Below the header, there's a navigation bar with icons for "Files and Subfolders", "Disk Use", "Maintainer Notes", "Filing and Retention", "User Comments", and "Help". The main content area is divided into sections: "Subfolders (0)" with "no subfolders" and "Files (0 files)" with "no files". To the right, there are two buttons: "edit folder" (with a wrench icon) and "create subfolder" (with a folder icon). Below this is an "Upload Tool" section with the instruction "Upload files to this folder page using the drop-box below". A drop-box contains a file named "EMWCon Spring 2022 Talk - EMWFS.pptx-->PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx OK". A reminder box states: "Reminder: To avoid filename duplications, files uploaded here will be given the prefix 'PBGENERAL10319-'". The footer text reads "No footer text or purpose declared".

Uploading a file



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

The screenshot shows a web interface for a file folder system. At the top, there's a navigation bar for "PBGeneral Wiki" with a search bar and user icons. The main heading is "Example Folder Page". Below this, there's a toolbar with options like "Files and Subfolders", "Disk Use", "Maintainer Notes", "Filing and Retention", "User Comments", and "Help". A "RELOAD" button is in the top right.

The interface displays "Subfolders (0)" with a "no subfolders" message and "Files (1 files)". A table lists the files:

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

Below the table is an "Upload Tool" section with a drop-box for uploading files. A reminder note states: "Reminder: To avoid filename duplications, files uploaded here will be given the prefix 'PBGENERAL10319-'".

File Uploaded



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

The screenshot shows a MediaWiki file page. At the top, there is a navigation bar for 'PBGeneral Wiki' with a search box and user icons. The main heading is 'File:PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx'. Below the heading, there is a 'File Download' section with a yellow box containing the filename 'PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx'. A 'Relates to' section lists 'Upload page: Example Folder Page'. The 'File history' section includes a table with one entry: 'delete all current 15:55, 6 April 2022 (2.44 MB) Rkevans (talk | contribs |) Uploaded with SimpleBatchUpload approve'. Below the table is a link to 'Upload a new version of this file'. The 'File usage' section lists 'Example Folder Page' and 'File:PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx'.

File Page



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The screenshot shows the MediaWiki editing interface for a file. At the top, the page title is "Editing File:PBGENERAL10319-EMWCon Spring 2022 Talk - EMWFS.pptx". The main content area contains a text box with the placeholder text "{Uploads}" and a blue star icon to its left. Below the text box is a "Summary:" field. Underneath the summary field are two checkboxes: "This is a minor edit" (unchecked) and "Watch this page" (checked). At the bottom of the editing area are four buttons: "Save changes" (blue), "Show preview" (white), "Show changes" (white), and "Cancel" (red). Below the buttons is a section titled "Templates used on this page:" which lists three templates: "MediaWiki:ZSitePrefix (edit)", "Template:Infobox page property row (edit) (protected)", and "Template:Uploads (edit) (protected)". At the very bottom of the page, there is a "Tools" menu and a status bar indicating "This page has been viewed 1 time (0 via redirect) 1 watching user".

File Page Source Code



Outline

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

The screenshot shows a web interface for a file folder system. At the top, there's a navigation bar for "PBGeneral Wiki" with a search bar and user icons. The main heading is "Example Folder Page". Below this, there's a toolbar with options like "Files and Subfolders", "Disk Use", "Maintainer Notes", "Filing and Retention", "User Comments", and "Help". A "RELOAD" button is also present. The interface displays "Subfolders (0)" and "Files (1 files)". A table lists the file: "EMWCon Spring 2022 Talk - EMWFS.pptx" (PPTX, 2,498.56 KB, 1 revision, dated 2022-04-06 - 07:55 pm). To the right, there are buttons for "edit folder" and "create subfolder". At the bottom, there's an "Upload Tool" section with a drop-box for selecting files and a reminder: "Reminder: To avoid filename duplications, files uploaded here will be given the prefix 'PBGGENERAL10319-'"

Where to make a sub-folder



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

General PBGeneral Wiki Search PB General

Create File Folder

.../ My Level 2 Folder * ← New folder name required

Maintainer Notes Folder Filing Code Folder Retention Settings

1. Folder User and Owner (optional)

Folder Purpose Page Forms permissions test

Folder POC Evans Richard K. (GRC-H000)

Subfolder Option No

2. Maintainer Notes (optional)

3. Folder Footer Text (optional)

Making a sub-folder



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

The screenshot shows a MediaWiki page titled "Example Folder Page/My Level 2 Folder". The page header includes the "PBGeneral Wiki" logo and a search bar. Below the header, there is a navigation bar with a star icon, a folder icon, and the text "My Level 2 Folder". To the right of the folder name is a "RELOAD" button. Below the navigation bar, there are several tabs: "Files and Subfolders", "Disk Use", "Maintainer Notes", "Filing and Retention", "User Comments", and "Help". The main content area shows "Subfolders (0) (up a level)" with "no subfolders" and "Files (0 files)" with "no files". On the right side, there are two buttons: "edit folder" and "create subfolder". Below this, there is an "Upload Tool" section with the text "Upload files to this folder page using the drop-box below". A drop-box is shown with the text "Select files (or drop them here)..." and green arrows indicating where to drop files. At the bottom, there is a reminder: "Reminder: To avoid filename duplications, files uploaded here will be given the prefix 'PBGGENERAL10321-'".

Sub-folder page



Outline

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Example Folder Page

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

RELOAD

Add comment

Enter title...

B I A | | +

National Aeronautics and Space Administration
 Page: **Example Folder Page**
 Link: https://wiki.grc.nasa.gov/pbgeneral/Example_Folder_Page
 Status:

Revision ID Info:
 Being Viewed: tbd
 Latest Revision: 25312
 Approved Revision: 0
 Number of Edits: 1

Last Updated: Wed. Apr. 6, 2022 (3:23 PM) (~21 minutes ago)
 Contributors: R.Evans

Folders with Comment Streams in HeaderTabs



The goal of this talk is (was) to

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

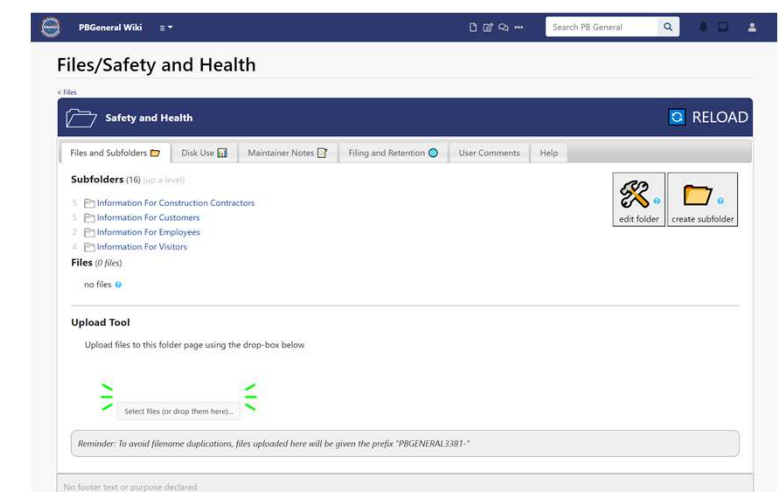
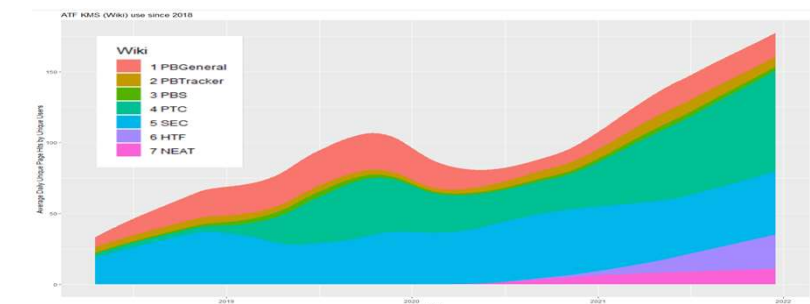
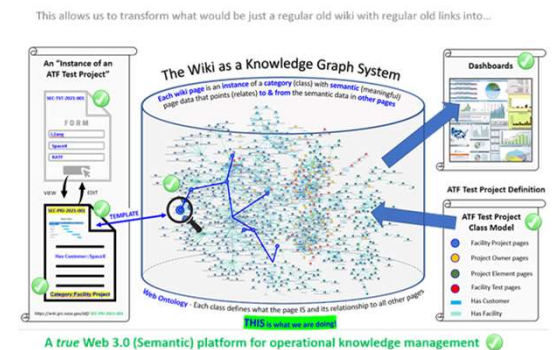
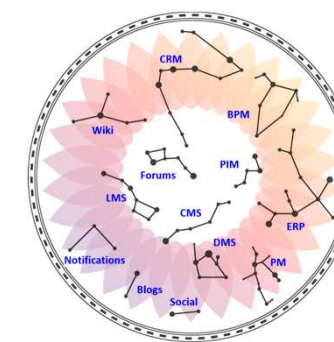
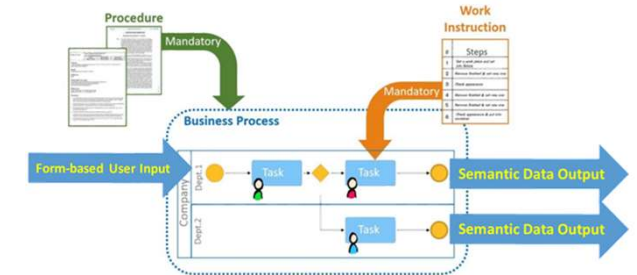
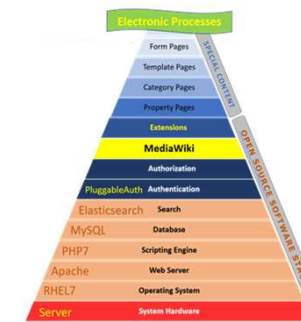
**MW + Extensions + Special Content
= All-in-One site for electronic processes**

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**





*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>