

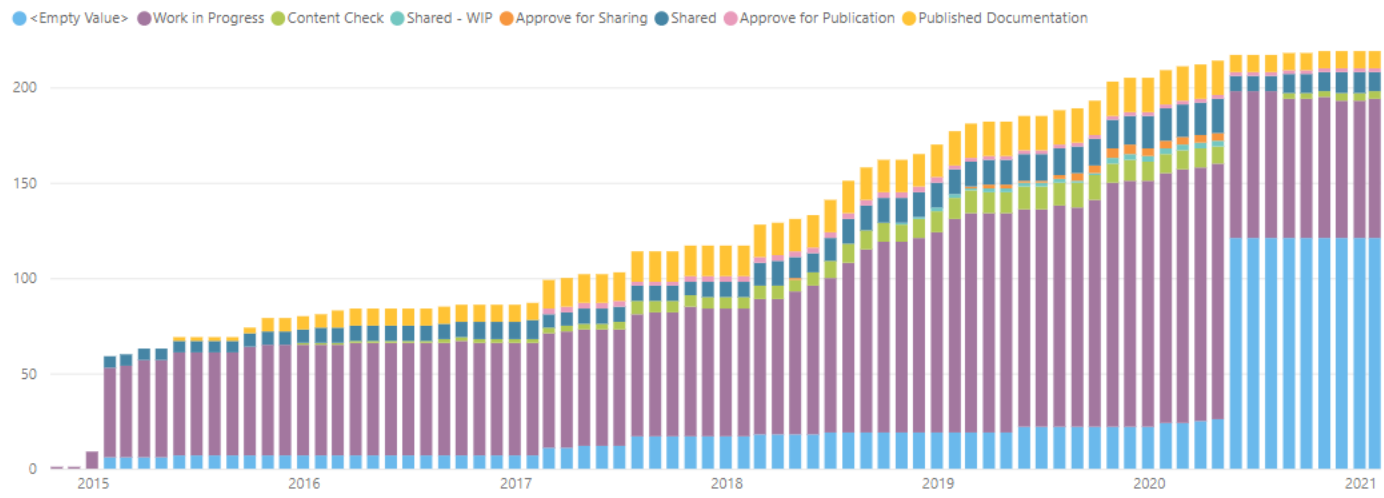


A9 - Setting up ProjectWise Analytics

Dan Cutler – Application Engineer, Bentley Systems

Bentley[®]
Advancing Infrastructure

Document count over time shown by workflow state



Select a date range to filter

29/05/2014 26/01/2021

Select document type to filter

All

Select document subtype to filter

All

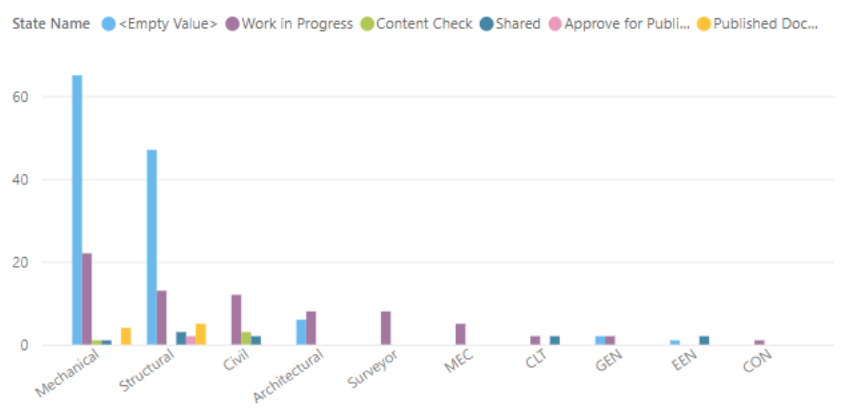
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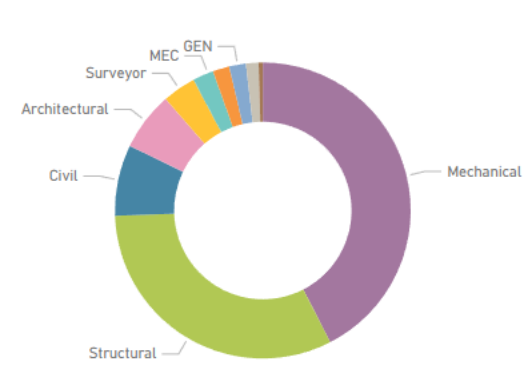
Select a discipline to filter

All

Present document count by discipline and state name



Present document count by discipline



Present Document Count

Present Document Count	Type
134	M3
40	DR
28	M2
8	MR
5	RP
4	CO
219	

Checklist

- ✓ ProjectWise Design Integration Server CONNECT Edition
- ✓ Work Area with attributes and (optional) Workflow Rules Engine
- ✓ Associate CONNECT Project with Work Area
- ✓ [Analytics Data Upload Service](#) (ADUS) installed and configured
- ✓ Extra storage space available for ADUS tables (up to 2x)
- ✓ You are the admin



Process

- Install ADUS alongside your Integration Server
 - On-premise: you can install and configure the ADUS
 - Bentley hosted: raise a ticket with MaS, tell them which datasources you would like ADUS to be configured for. Recommend that you configure ADUS for all production datasources.
- ADUS will create a baseline inventory, stored within additional tables in your storage area
 - On-premise: ensure extra space is available in storage area
 - Hosted: no action for you, extra space will be provisioned for you
- ADUS will send metadata and audit trail information related to Insights-enabled Work Areas to Insights service
 - ADUS will ONLY send data from Work Areas that are associated with CONNECT Projects AND have Insights switched on
 - No documents leave your Integration Server, only metadata and audit trail

Considerations

1. Extra storage space is required (potentially double current size)
 - Ensure space is available
2. Initial process of creating a baseline inventory can take hours and will impact the server performance (depending on size of datasource)
 - Run this process outside of working hours to minimise disruption

Configure Data Sources

- Open ProjectWise Analytics Data Source Administrator and setting the account it will run under
- Configuring a New Data Source
- Configuring a Data Source That Connects to a Moved or Copied Database
- Re-configuring a Data Source
- Upgrading a Data Source Created in a Previous Version
- Removing a Data Source

The screenshot displays the ProjectWise Analytics Data Source Administrator interface. The main window is titled "Data upload pipeline configuration" and shows a progress bar with five steps: 1. Welcome, 2. ProjectWise database information, 3. Database schema verification, 4. Scheduled data processing jobs, and 5. Summary. The current step is "Scheduled data processing jobs", which is divided into two sections: "Data collection jobs" and "Data upload jobs".

Job Type	Schedule	From	To	At	Percentage	Action
Data collection jobs	- MoTuWeThFr-	12:00 AM	5:00 AM	At	100.0%	Add
	- MoTuWeThFr-	5:00 AM	9:00 PM	At	40.0%	Modify
	- MoTuWeThFr-	9:00 PM	12:00 AM	At	100.0%	Delete
	Su- - - - - Sa	12:00 AM	12:00 AM	At	100.0%	
Data upload jobs	- MoTuWeThFr-	12:00 AM	5:00 AM	At	100.0%	Add
	- MoTuWeThFr-	5:00 AM	9:00 PM	At	40.0%	Modify
	- MoTuWeThFr-	9:00 PM	12:00 AM	At	100.0%	Delete
	Su- - - - - Sa	12:00 AM	12:00 AM	At	100.0%	

At the bottom of the window, there are three buttons: "Back", "Next", and "Cancel".

Data Residency & Security

- Data is processed **only** in your chosen data centre
- Only users with **Insights > View** permission can see the data collected

Data Center Hosting Information

The table below indicates which services are supported in each data center. It does not reflect your project data center location preference.

Please note that if a service is not supported in your selected data center, the data will be stored by default in the US East location.

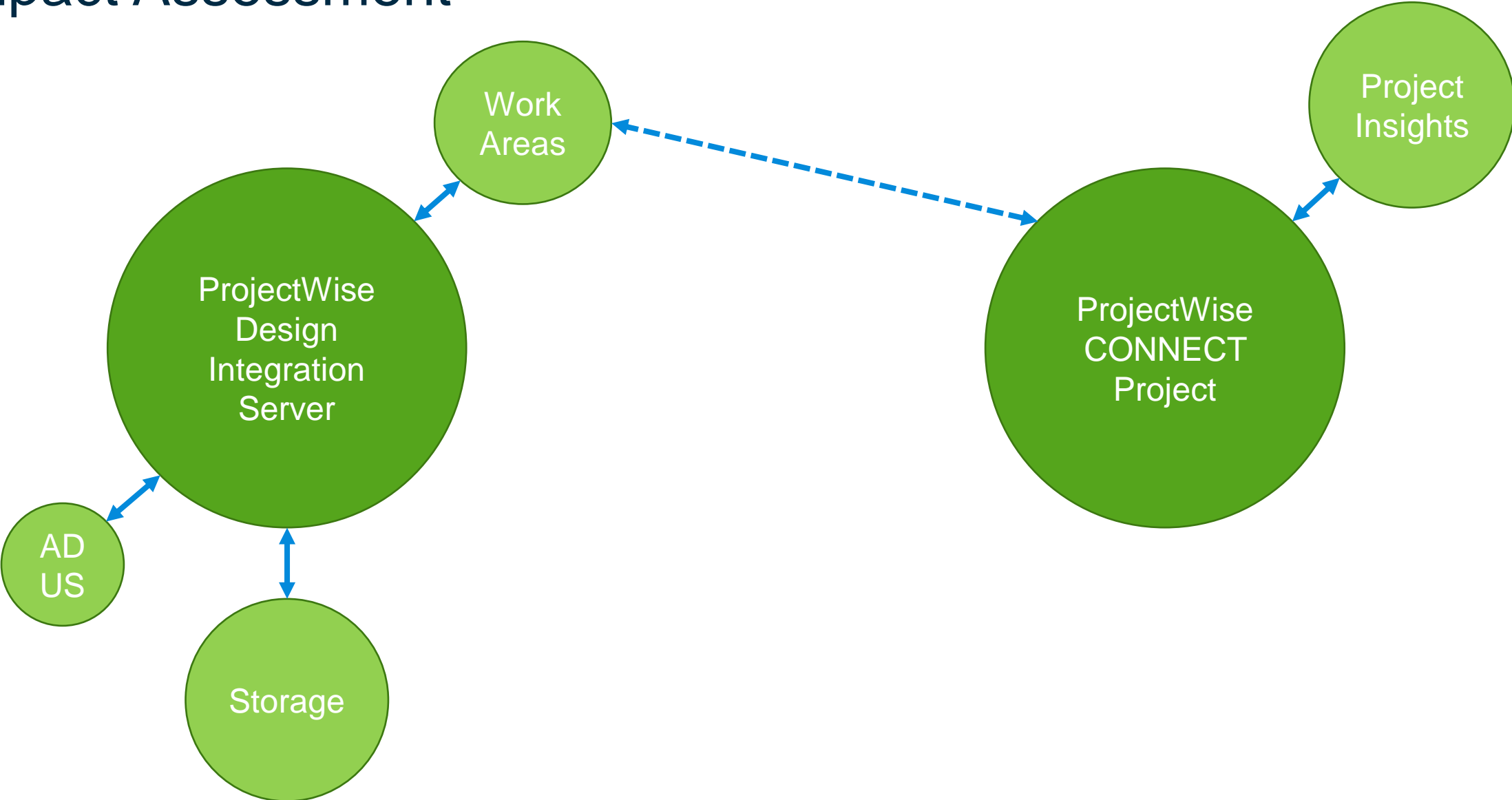
Services	South Africa North	Japan East	Canada Central	UK South	Australia East	Southeast Asia	East US	North Europe
ContextCapture Cloud Processing Service		●		●	●		●	●
Deliverables Management			●	●	●	●	●	●
Forms			●	●	●	●	●	●
iModel Manager	●		●	●	●	●	●	●
Issue Resolution			●	●	●	●	●	●
iTwin Design Review				●	●	●	●	●

Service Access and Permissions

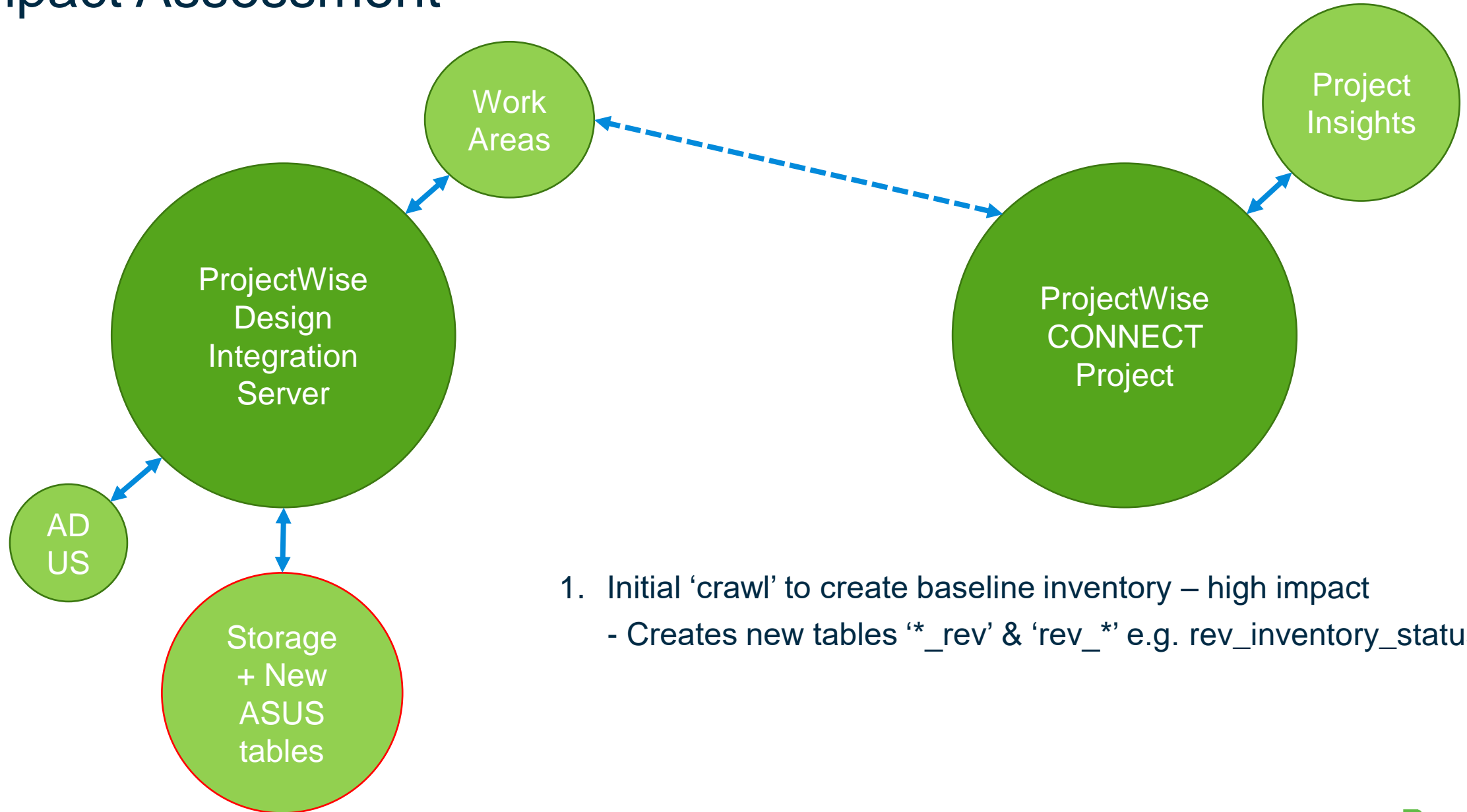
Project Insights Service 2 / 2

- Select All
- View Project Insights Dashboard
- Configure Project Insights Dashboard

Impact Assessment

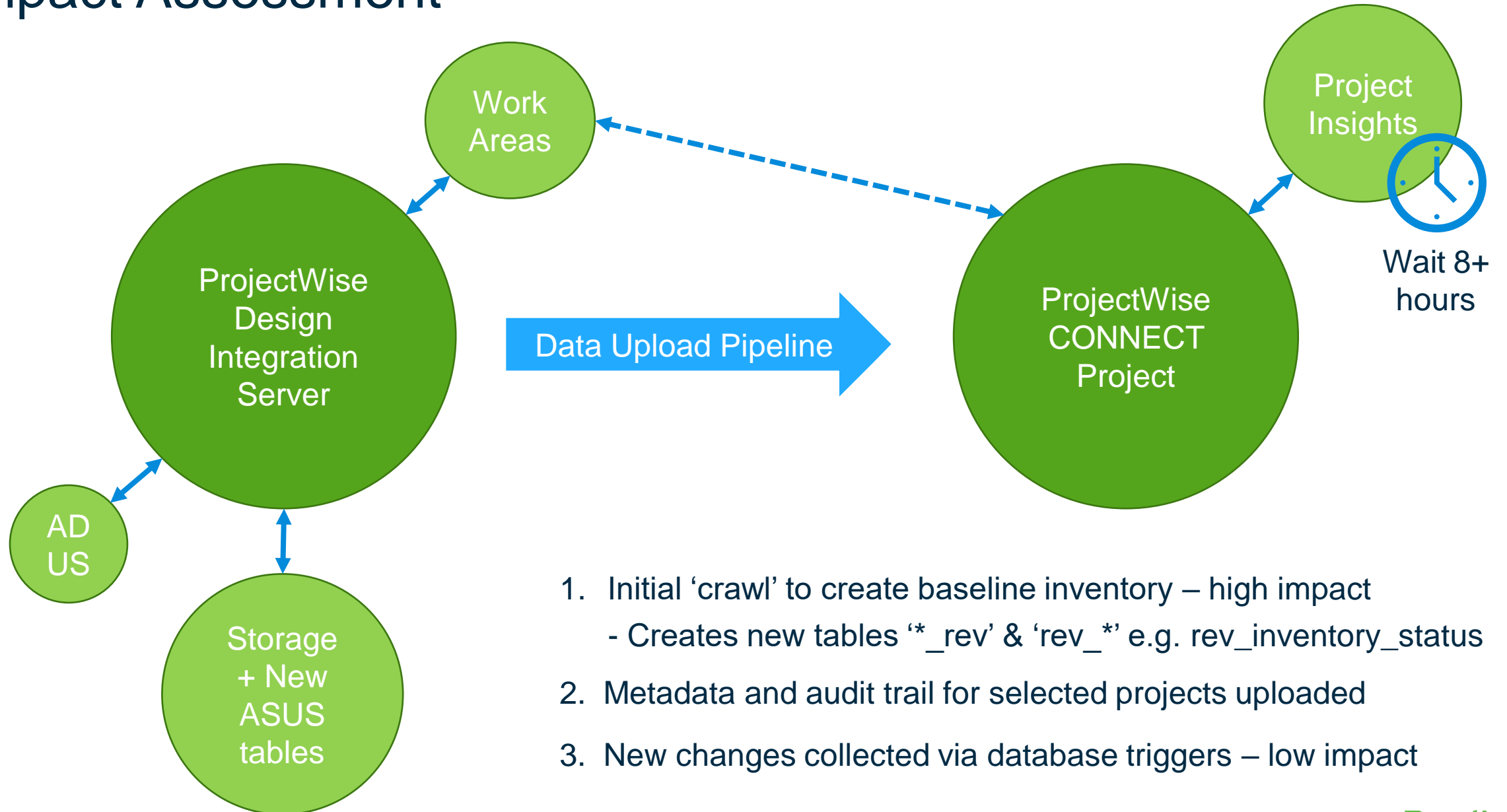


Impact Assessment



1. Initial 'crawl' to create baseline inventory – high impact
 - Creates new tables '*_rev' & 'rev_*' e.g. rev_inventory_status

Impact Assessment

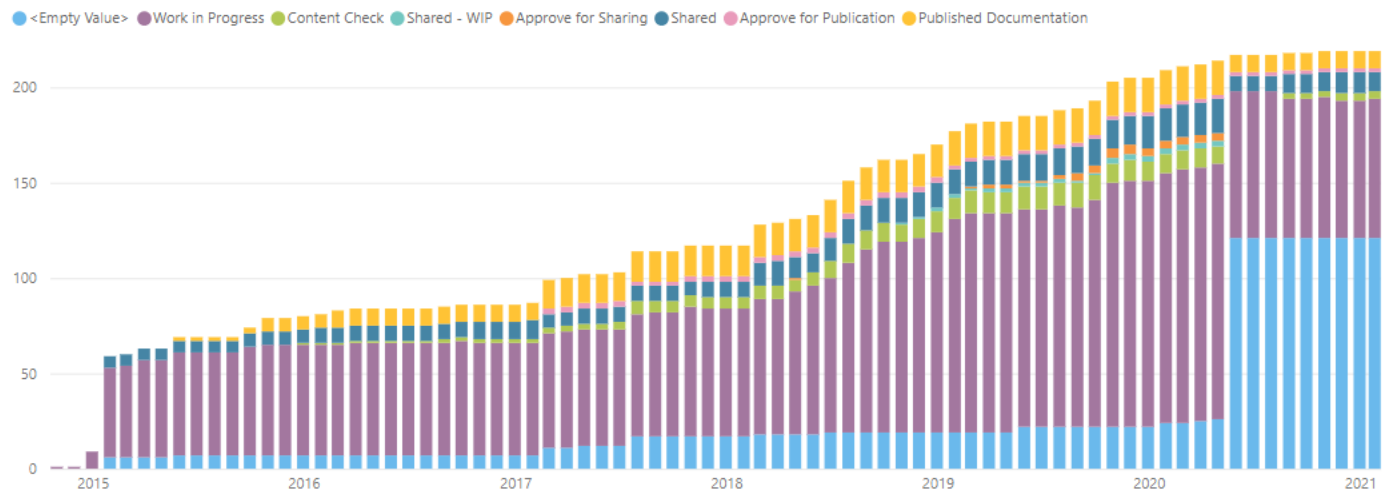


1. Initial 'crawl' to create baseline inventory – high impact
 - Creates new tables '*_rev' & 'rev_*' e.g. rev_inventory_status
2. Metadata and audit trail for selected projects uploaded
3. New changes collected via database triggers – low impact

Overview PWDI activity Tree By discipline Suitability Approval trend Incoming delive... Submittal trends Page 2

PW1

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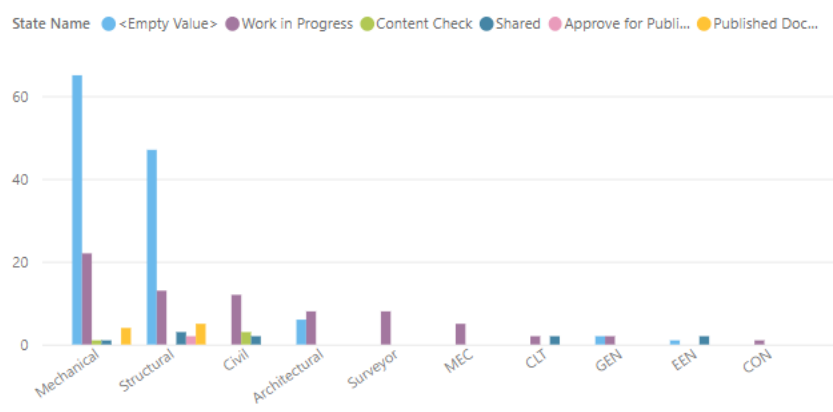
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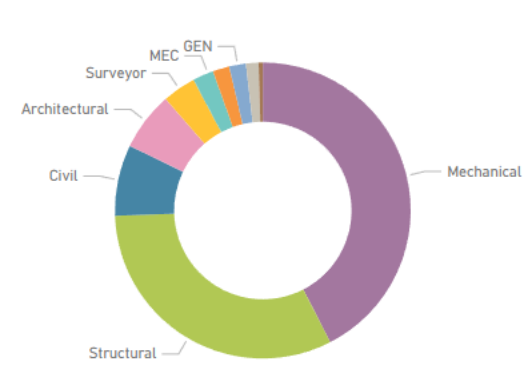
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