
Welcome!

Arches Version 5.0:

A summary of what's new in the Arches Platform

Wednesday, February 26, 2020



Webinar Presenters and Q&A Moderators



Annabel Enriquez

Getty
Conservation
Institute



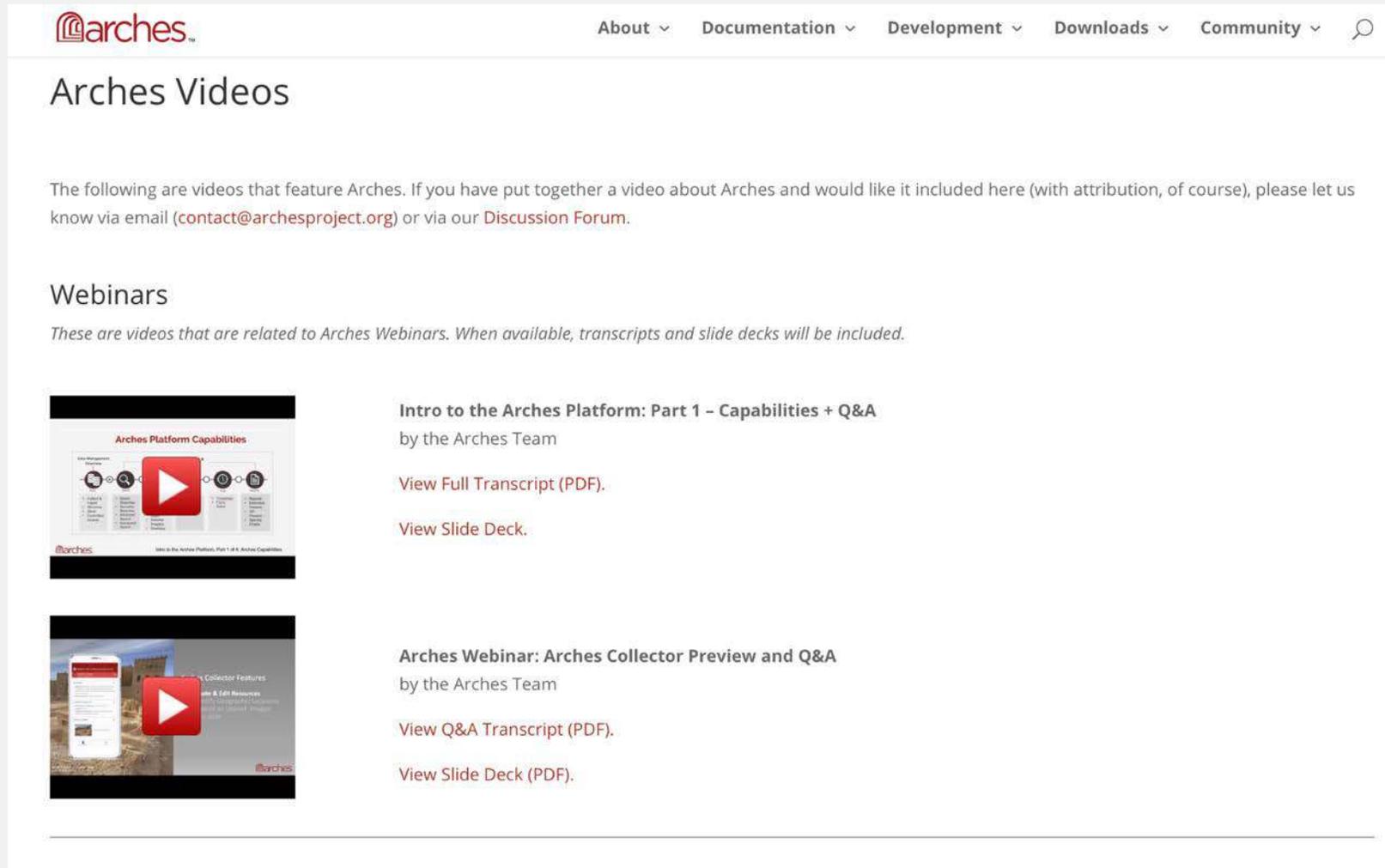
Dennis Wuthrich

Farallon
Geographics
Inc

Webinar Notes

- **Intro to the Arches Platform webinar series to resume in a couple of months**
- **Webinar Q&A**
- **v5 demo coming soon!**
- **Webinar recordings**

Webinar Repository - www.archesproject.org/videos



 [About](#) [Documentation](#) [Development](#) [Downloads](#) [Community](#) 

Arches Videos

The following are videos that feature Arches. If you have put together a video about Arches and would like it included here (with attribution, of course), please let us know via email (contact@archesproject.org) or via our [Discussion Forum](#).

Webinars

These are videos that are related to Arches Webinars. When available, transcripts and slide decks will be included.



Intro to the Arches Platform: Part 1 - Capabilities + Q&A
by the Arches Team

[View Full Transcript \(PDF\).](#)

[View Slide Deck.](#)



Arches Webinar: Arches Collector Preview and Q&A
by the Arches Team

[View Q&A Transcript \(PDF\).](#)

[View Slide Deck \(PDF\).](#)

Agenda

Arches?

What's new in v5

Moving from Arches v4 → v5

Questions



Arches v5.0
A web and mobile platform for
managing your most important resource information



Data Management

Data Discovery & Visualization

Project/Task Management



Collect & Share

- Mobile app: on/off-line collection
- Robust import / export with notifications



Controlled Vocabularies

- Thesauri management — *Reference Data Manager (RDM)*



Structure & Storage

- Semantic, self-describing, & sustainable data structure
- Dynamic UI-generation
- Multiple ontologies—e.g., CIDOC CRM
- Cloud/server deployable
- API & linked data support
- Multiple data types supported



Controlled Access, Audit & Review

- User & group secure access management
- Granular (node level) permission control
- Detailed audit of changes to data
- Provisional (unpublished) data; data review



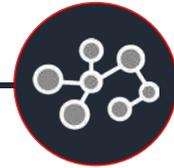
Search

- Semantic & thesauri-enhanced searches
- Searchable annotations
- Support for custom indexing
- Export search results
- Geospatial search
- Saved and Advanced searches



Spatial Data / GIS

- Integrates GIS functionality
- Seamless management of Arches data in external GIS – e.g., esri
- Changeable basemaps—e.g., historical maps
- Overlays supported
- Satellite imagery



Relationships

- Explore relationships between resources – e.g., people, materials, activities, historic events, objects, iconography
- Discovery of previously unknown connections / new knowledge



Time

- Temporal search
- Fuzzy date support
- Visualization of time distribution in entire dataset – *Timewheel*



Reports, Viewers & Annotations

- Customizable reports using *Report Manager*
- IIIF viewers and image annotations
- High-resolution image support
- Extended 3-D viewers
- Interactive spectra charts with comparisons
- Customizable dashboards



Workflows

- Comprehensive, flexible workflow (i.e., process) management
- Task tracking
- Notifications
- *Project Status* plugin
- Correspondence management and tracking
- Letter templates with auto completion

Workflows

Task-based editing

Flexible

Some Examples

Permit Application Review

Site/Building Designation

Condition Assessment

Site Visits

Sample Taking

Permit Review includes:

Where/what/who

Type

Proposal/Conditions/Mitigations

Heritage at risk

Schedule

Workflows: Multi-step editing tasks

The screenshot displays a web application interface for a consultation workflow. The browser address bar shows the URL `localhost:8000/arches-her/plugins/consultation-workflow`. The page title is "Consultation".

The interface includes a top navigation bar with several icons and a "Welcome, admin" notification. Below this is a "Related Application Area" section titled "Consultation Workflow" with the instruction "Step 1 of 8: Identify the Development Area for this Consultation".

The main content area features a map with yellow-outlined application areas. A popup window is open over the map, displaying the address "57 Hoffman Way" and a resource model "Application_Area" with ID "d2117551-e56f-4972-a99d-04211ab36a11". The popup also includes options to "Relate Application Area", "Report", and "Edit".

On the right side, there is a panel titled "Related Application Areas" with an "Add" button. A blue arrow points from the "Relate Application Area" button in the popup to the "Add" button in the right-hand panel.

Workflows: Create New Resources Inline

The screenshot shows a web browser window with the URL `localhost:8000/consultations/plugins/consultation-workflow?workflowid=plugins&steps=%5B%7B%22resourceid%3A%22%3A%220ab71446-3ca7-11ea-87d3-...`. The page title is "Consultation". The user is logged in as "admin" and the system is in a "Paused" state. The workflow progress bar shows 8 steps, with the 5th step, "Reference Numbers", currently active. The main content area is split into two panels. The left panel, titled "References", contains a form with two input fields: "Agency" (a dropdown menu) and "Reference" (a text input field with the placeholder "Enter text"). Below these fields are two green buttons: "+ Add" and "▶ Continue". The right panel, titled "Reference Numbers", contains a message: "No Reference Numbers added yet. Add one or multiple Reference Numbers." The top navigation bar includes several circular icons representing different workflow steps, and the top right corner has "Finish" and "Quit" buttons.

Plug-ins

Custom functionality and
user interfaces

Consultations

+ New

! Active Consultations

🔍 Find

📊 Dashboards

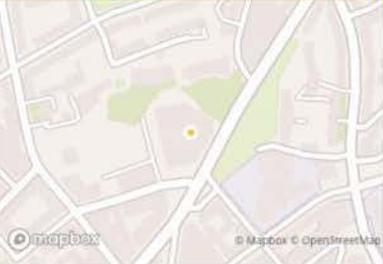
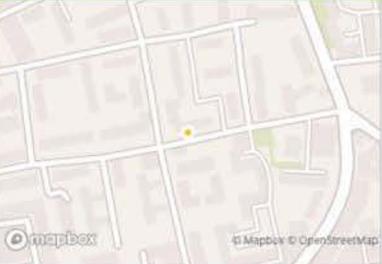
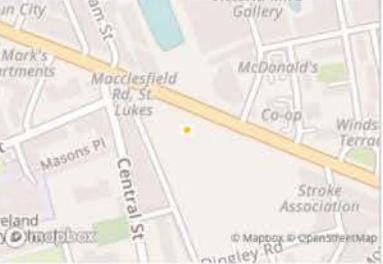
📁 Manage

📖 Help

📄 About

Active Consultations
Welcome, admin
🔔
🔍

Search

Consultation for 291 Di Loreto Terrace on 12/12/2019	Consultation for 566 Clay St, London, 94111 on 12/15/2019	Consultation for 66008 Sherman Point on 12/17/2019	Consultation for 3 Nancy Avenue, 26471 Dapin Lane on 12/18/2019																								
																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">2020-01-31 Target Date</td> <td style="width: 50%;">Condition Application Type</td> </tr> <tr> <td colspan="2">Proposal not entered</td> </tr> <tr> <td colspan="2">Laura O'Gorman</td> </tr> </table>	2020-01-31 Target Date	Condition Application Type	Proposal not entered		Laura O'Gorman		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">2020-01-24 Target Date</td> <td style="width: 50%;">Condition Application Type</td> </tr> <tr> <td colspan="2">A new cons about renovating a portion of the historic building, and a full-scale replace of the remaining portion</td> </tr> <tr> <td colspan="2">Jeff Perry</td> </tr> </table>	2020-01-24 Target Date	Condition Application Type	A new cons about renovating a portion of the historic building, and a full-scale replace of the remaining portion		Jeff Perry		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">2020-02-12 Target Date</td> <td style="width: 50%;">Condition Application Type</td> </tr> <tr> <td colspan="2">Re-purpose building for a new school</td> </tr> <tr> <td colspan="2">Laura O'Gorman</td> </tr> </table>	2020-02-12 Target Date	Condition Application Type	Re-purpose building for a new school		Laura O'Gorman		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">2020-01-08 Target Date</td> <td style="width: 50%;">Condition Application Type</td> </tr> <tr> <td colspan="2">Renovatre buildings</td> </tr> <tr> <td colspan="2">Mark Sanderson</td> </tr> </table>	2020-01-08 Target Date	Condition Application Type	Renovatre buildings		Mark Sanderson	
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Sort by...

- Sort by...
- Log Date: Newest to Oldest
- Log Date: Oldest to Newest
- Casework Officer: A to Z
- Casework Officer: Z to A
- Consultation Type: A to Z
- Consultation Type: Z to A
- Consultation Name: A to Z

Task Manager/Notification

Manage long running tasks

Alert users when results are ready

Many uses

Task Examples

Downloading data

Data processing

Image upload → IIF Server

...

Notification Examples

Data request is ready

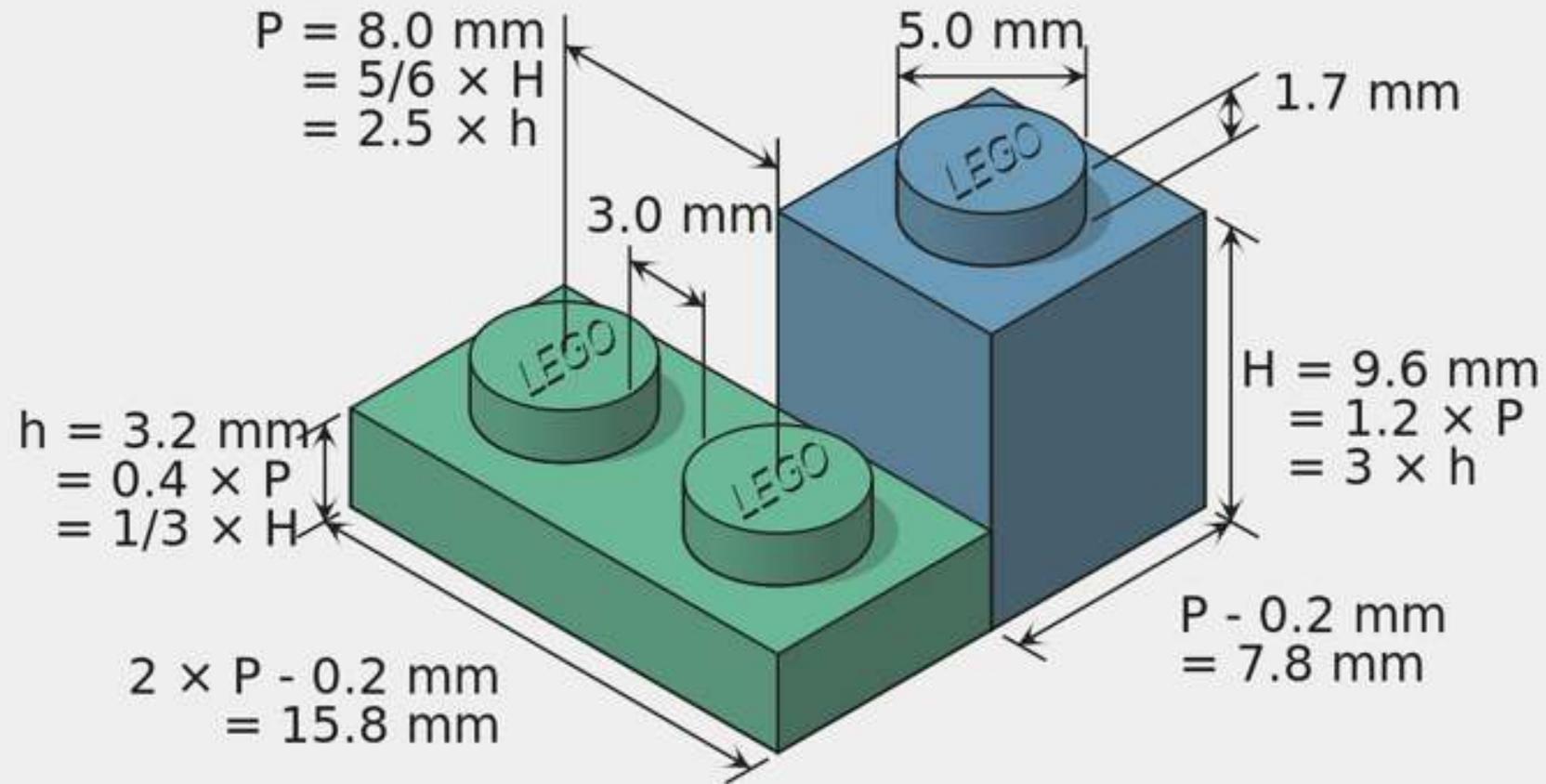
You have a task

...

The screenshot shows a web application interface for searching and viewing archaeological resources. The interface is divided into several sections:

- Search Bar:** Located at the top left, with a search icon and the text "Search". Below it is a dropdown menu labeled "Find a resource...".
- Filters:** Below the search bar are two dropdown menus: "QA Type" and "Resource Type".
- Results:** Below the filters, it displays "Results: 17649".
- Resource Cards:** A list of resource cards is shown, each with a title, a brief description, and options to "Edit", "Map", and "Related Resources". The visible cards are:
 - Watching Brief at Spring Hill:** Observation of groundworks involved with structural repair, including underpinning. No archaeological deposits were observed.
 - Watching Brief at West Common:** Trench 1 of two. Renewal of the existing land drainage system allowed a 0.90m deep trench to be watched. Moderately compact grey sandy/clayey earth containing...
 - Trial Trench at Greestone Stairs:** Area 1 of three. Trench 1. All archaeological deposits destroyed by later activity. Clay subsoil almost at ground level. Cellar walls and drains and of the Greestones were...
 - Trial Trench at Hykeham Road:** Archaeological Evaluation in advance of a residential development. Eight trenches were investigated, Trenches 1-8. Evidence was revealed relating to Roman industrial use ...
 - Excavation at Grey Friars Pathway/Free School Lane/Broadgate:** This trench contained a full length of a Roman...
- Map:** A large map occupies the center-right of the interface, showing a geographical area with various locations labeled (e.g., Bransby, Scampton, Saxilby, Canwick, Washingborough). Numerous black pins are clustered on the map, indicating the locations of the resources. The map includes a search bar labeled "Find an address...", navigation controls (zoom in, zoom out, home), and a legend.
- Right Sidebar:** A vertical sidebar on the right side of the map contains several icons and labels: "Filter", "Basemap", "Overlays", and "Legend".
- Top Right:** A user profile section shows "Welcome, joe", a notification bell icon, and a help icon.

Workflows + Plug-ins + Task Manager + Notifications



Interoperability

FeatureServices (esri)

GeoJSON Services (QGIS)

The screenshot displays the Arches v5 web application interface. The top right corner shows the user is logged in as 'admin' with a 'Welcome, admin' message and notification icons. The main search bar contains the text 'Search' and 'GLHER_Consultation'. Below the search bar, there are filters for 'QA Type' and 'Resource Type'. The left sidebar shows a list of results, with the first four items visible:

- Consultation for 57359 Fieldstone Way
Consultation Type: Condition Application
Consultation Status: Completed
- Consultation for 3120 North Pass
Consultation Type: Condition Application
Consultation Status: Post-excavation assessment
- Consultation for 2662 Old Shore Street
Consultation Type: Condition Application
Consultation Status: Completed
- Consultation for 0809 Burrows Court
Consultation Type: Pre-Application
Consultation Status: Post-excavation assessment

The main map area shows a street map of London with several black location pins. The map includes a search bar with the text 'Find an address...'. The map is overlaid with a grid and labels for various areas including King's Cross, Angel, Hoxton, Finsbury, Clerkenwell, Saint Luke's, Shoreditch, Spitalfields, City of London, and St Giles. The map is powered by Mapbox and OpenStreetMap, as indicated by the copyright notice at the bottom right: '© Mapbox © OpenStreetMap Improve this map'.

The screenshot displays the Arches v5 web application interface. The top right corner shows a user greeting: "Welcome, admin". The main interface is divided into several sections:

- Search Bar:** Located at the top left, containing the text "Search".
- Map Filter:** A dropdown menu currently set to "GLHER_Consultation".
- Advanced/Related:** Two tabs for filtering the map data.
- Map:** A central map of London showing consultation points as black pins. A search box "Find an address..." is overlaid on the map. The map includes labels for areas like Angel, Hoxton, Finsbury, Clerkenwell, Saint Luke's, Shoreditch, and Spitalfields.
- Results List:** A vertical list on the left side showing 511 results. Each result includes the address, consultation type, and status. For example:
 - Consultation for 57359 Fieldstone Way
Consultation Type: Condition Application
Consultation Status: Completed
 - Consultation for 3120 North Pass
Consultation Type: Condition Application
Consultation Status: Post-excavation assessment
 - Consultation for 2662 Old Shore Street
Consultation Type: Condition Application
Consultation Status: Completed
 - Consultation for 0809 Burrows Court
Consultation Type: Pre-Application
Consultation Status: Post-excavation assessment
 - Consultation for 82 Jackson Parkway
Consultation Type: Post-Application
- Map Controls:** A vertical toolbar on the right side of the map with options like Filter, Basemap, Overlays, and Legend.

Technology Upgrades

Python 2.7 → 3.7

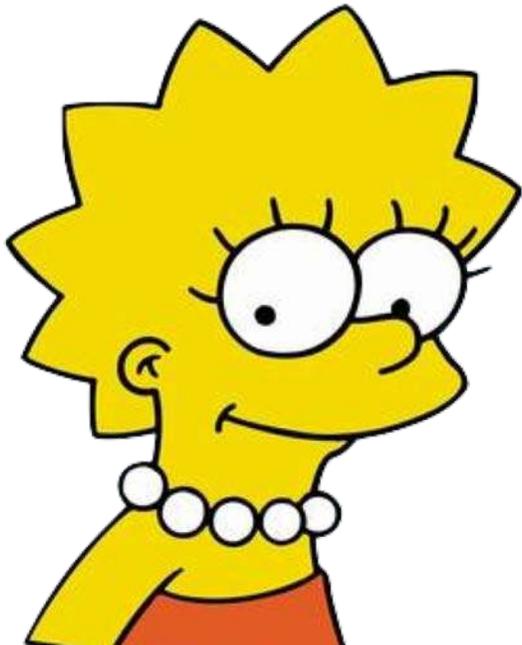
Django 1.11 → 2.2.9

Postgres 9.6 → 12.0

PostGIS 2.5 → 3.0

ElasticSearch 5.x → 7.4

So What?



**The technology upgrade is a
commitment to our long term
support of Arches**

Upgrading from v4 → v5

v4 models work in v5

v4 data loads into v5

**v4 reference data (RDM)
loads into v5**

1. Install/configure v5
2. Export v4 into v5
3. Test
4. Turn off v4

Coming next!

Intro to the Arches Platform Upcoming Webinars

Part 1

Capabilities

- Data Management
- Data Discovery & Visualization

Part 2

Data Management Tools

- Arches Collector – Mobile App
- Resource Manager
- Arches Designer
- Reference Data Manager

Part 3

Data Technology Concepts

- Data Standards
- Semantics/ Ontologies (incl. CIDOC CRM)
- Controlled Vocabularies
- Fuzzy Dates

Part 4

Information Architecture

- Software Stack
- Software Standards

Arches Q&A

- Thank you -

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