

# Linking ArchivesSpace Hierarchy to DSpace Digital Objects

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Georgetown University Library

<http://bit.ly/as2dspace>

# Background

DigitalGeorgetown is our repository that hosts both institutional scholarship and digitized special collections materials; currently runs on DSpace version 6.3

We migrated to ArchivesSpace from Archivist's Toolkit and adopted the PUI in 2016; we updated to ArchivesSpace version 2.x in August 2017

We developed a workflow in Fall 2018 that harvests EAD metadata from ArchivesSpace and converts it to item-level Dublin Core metadata for digitized archival materials hosted in DSpace. We then create digital object records in ArchivesSpace that link back to the digital surrogates of items in DSpace.

# Patron needs

ArchivesSpace presents a hierarchical navigation and view of archival collections

DSpace presents digital images of individual items within an archival collection

Patrons need to be able to browse the hierarchy of an archival collection in ArchivesSpace and be provided with links to view individual digital objects and their associated item-level metadata (when available) in our DSpace repository.

This workflow enables that process and creates bidirectional links between the ArchivesSpace public user interface and the DSpace repository interface.

# Workflow tools

[File Analyzer](#) (open source program developed by Georgetown's Library IT Department) for converting ArchivesSpace EAD XML metadata into Dublin Core

Excel and Google sheets for editing and adding to item-level Dublin Core metadata

[DSpace ingest tools](#) for batch uploading digital objects and their metadata

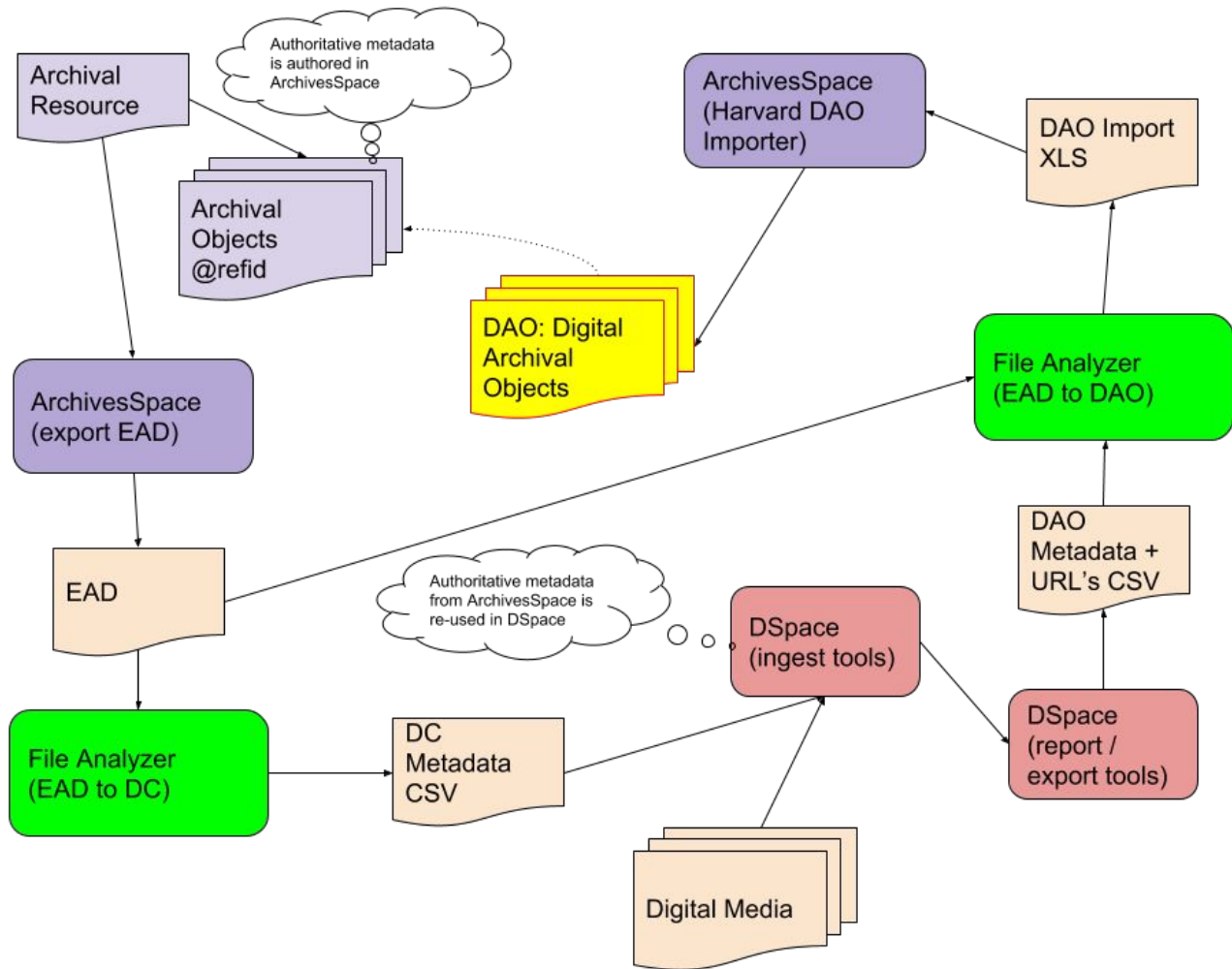
[DSpace report tools](#) for exporting digital object and thumbnail URLs

[Harvard's Excel Import Plugin](#) for creating digital object records in ArchivesSpace

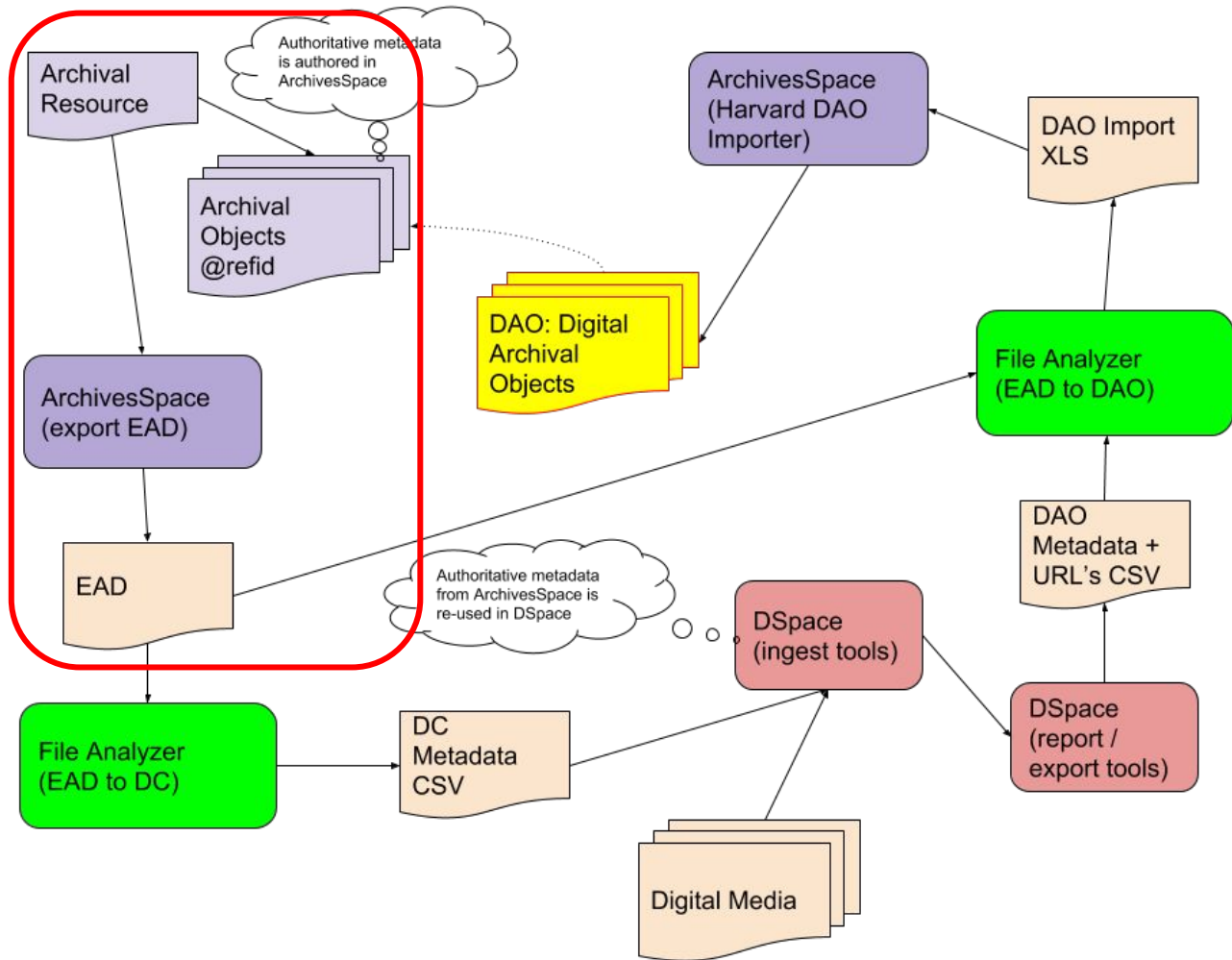
\*All links and documentation for this workflow are available at <http://bit.ly/as2dspace>

# Workflow Demo

In the following slides, we will quickly go through each step of the following workflow diagram



# 1. Export EAD for an ArchivesSpace Resource





# Georgetown University Archival Resources - Staff Interface

Home Browse Create Search All Records

GTA Settings

Home / Resources / Student Prospectuses and Related Materials

Student Prospectuses and Related Materials	Collection
▶ Box 1 (To 1968)	Box
▶ Box 2 (1970-1989)	Box
▶ Box 3 (1990-2000)	Box

- Basic Information
- Dates
- Extents
- Finding Aid Data
- Related Accessions
- Notes
- Assessments

Edit Add Event Publish All View Published Export Merge Transfer More Suppress Delete

- Download EAD
- Download MARCXML
- Download Container Labels
- Print Resource To PDF

## Student Prospectuses and Related Materials

**Basic Information**

Title: Student Prospectuses and Related Materials

Identifier: GTA 160722

Level of Description: Collection

Publish?: True

Restrictions Apply?: False

Created by conwayl 2016-07-22 13:09:02 -0400, Last Modified by admin 2019-03-08 14:58:27 -0500

## Dates

▶ Creation 1913, 1950-2000

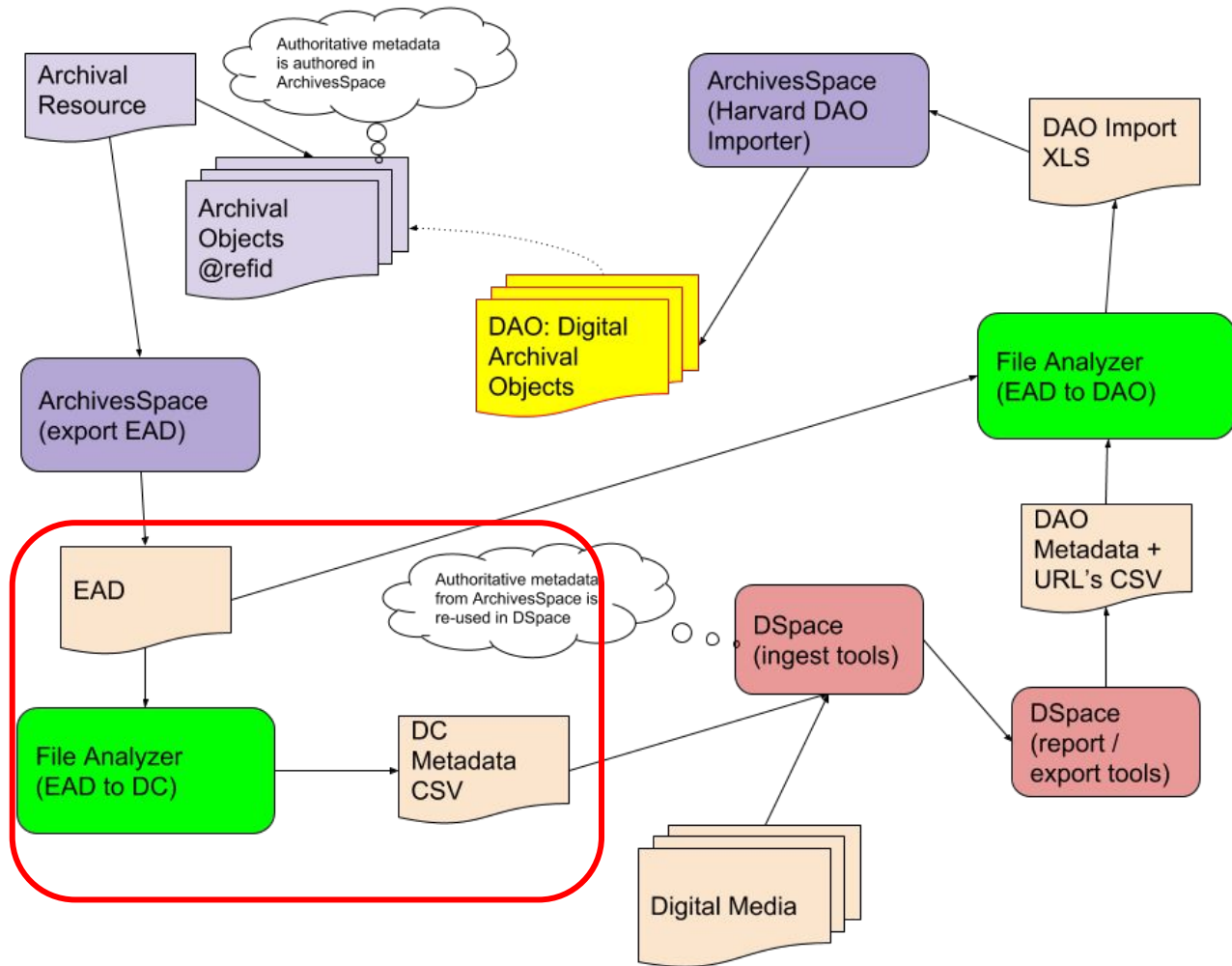
## Extents

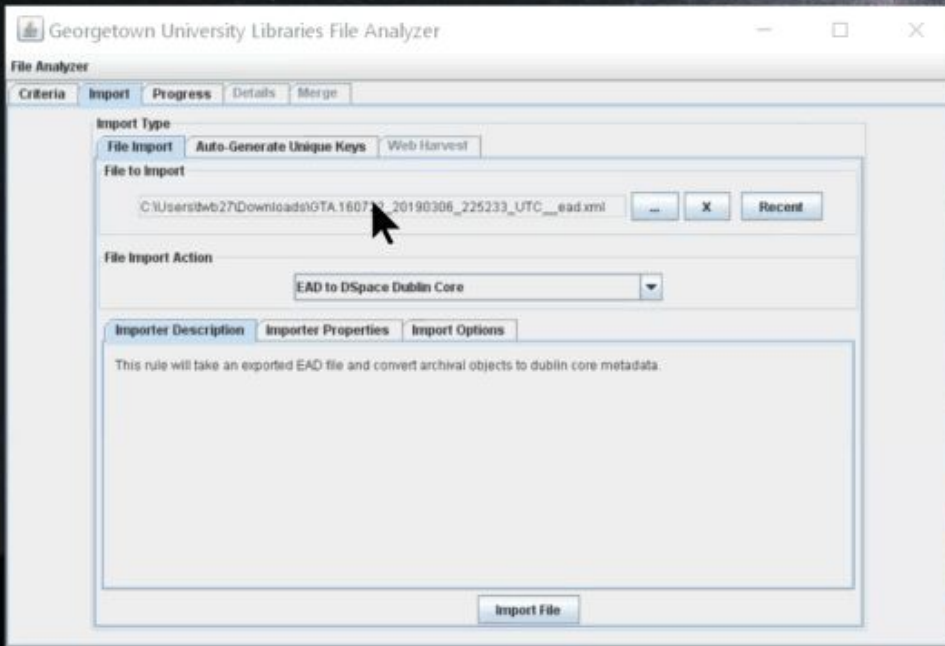
▶ 1.25 Linear Feet

This XML file does not appear to have any style information associated with it. The document tree is shown below.

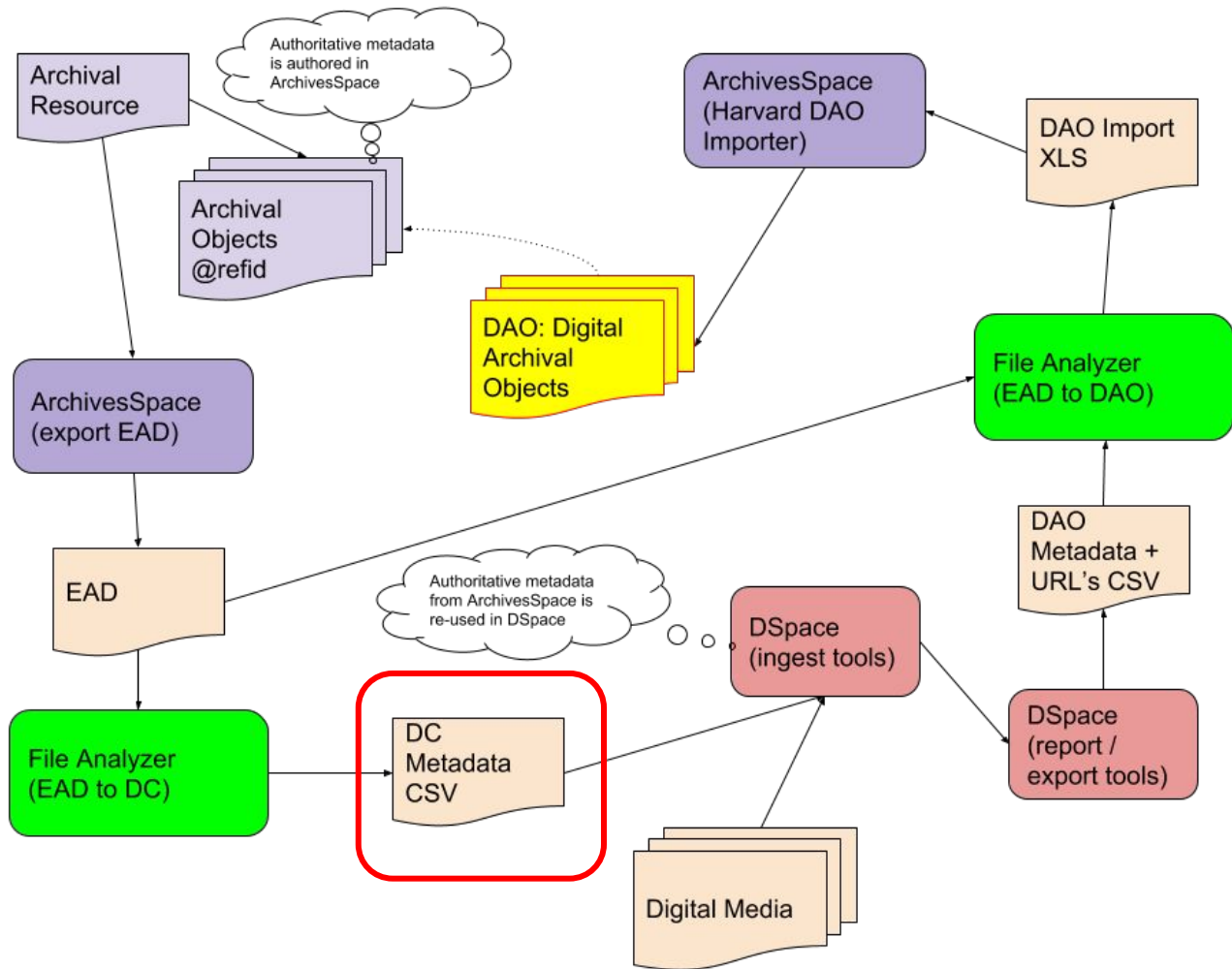
```
▼<ead xmlns="urn:isbn:1-931666-22-9" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:isbn:1-931666-22-9
http://www.loc.gov/ead/ead.xsd">
  ▼<eadheader countryencoding="iso3166-1" dateencoding="iso8601" langencoding="iso639-2b"
repositoryencoding="iso15511">
    <eadid/>
    ▼<filedesc>
      ▼<titlestmt>
        ▼<titleproper>
          Student Prospectuses and Related Materials
          <num>GTA.160722</num>
        </titleproper>
      </titlestmt>
      ▼<publicationstmt>
        <publisher>Georgetown University Archives </publisher>
        ▼<p id="logostmt">
          <extref xlink:actuate="onLoad"
xlink:href="https://www.library.georgetown.edu/sites/default/files/special-collections-logo.png"
xlink:show="embed" xlink:type="simple"/>
        </p>
      </publicationstmt>
    </filedesc>
    ▼<profiledesc>
      ▼<creation>
        This finding aid was produced using ArchivesSpace on
        <date>2019-03-06 17:52:33 -0500</date>
        .
      </creation>
    </profiledesc>
  </eadheader>
  ▼<archdesc level="collection">
    ▼<did>
      ▼<repository>
        <corpname>Georgetown University Archives </corpname>
      </repository>
      <unittitle>Student Prospectuses and Related Materials</unittitle>
      <unitid>GTA.160722</unitid>
      ▼<physdesc altrender="whole">
        <extent altrender="materialtype spaceoccupied">1.25 Linear Feet</extent>
      </physdesc>
      <unitdate type="inclusive">1913, 1950-2000</unitdate>
```

## 2. Convert EAD to Dublin Core





### 3. Edit Dublin Core to Contextualize for the Digital Collection





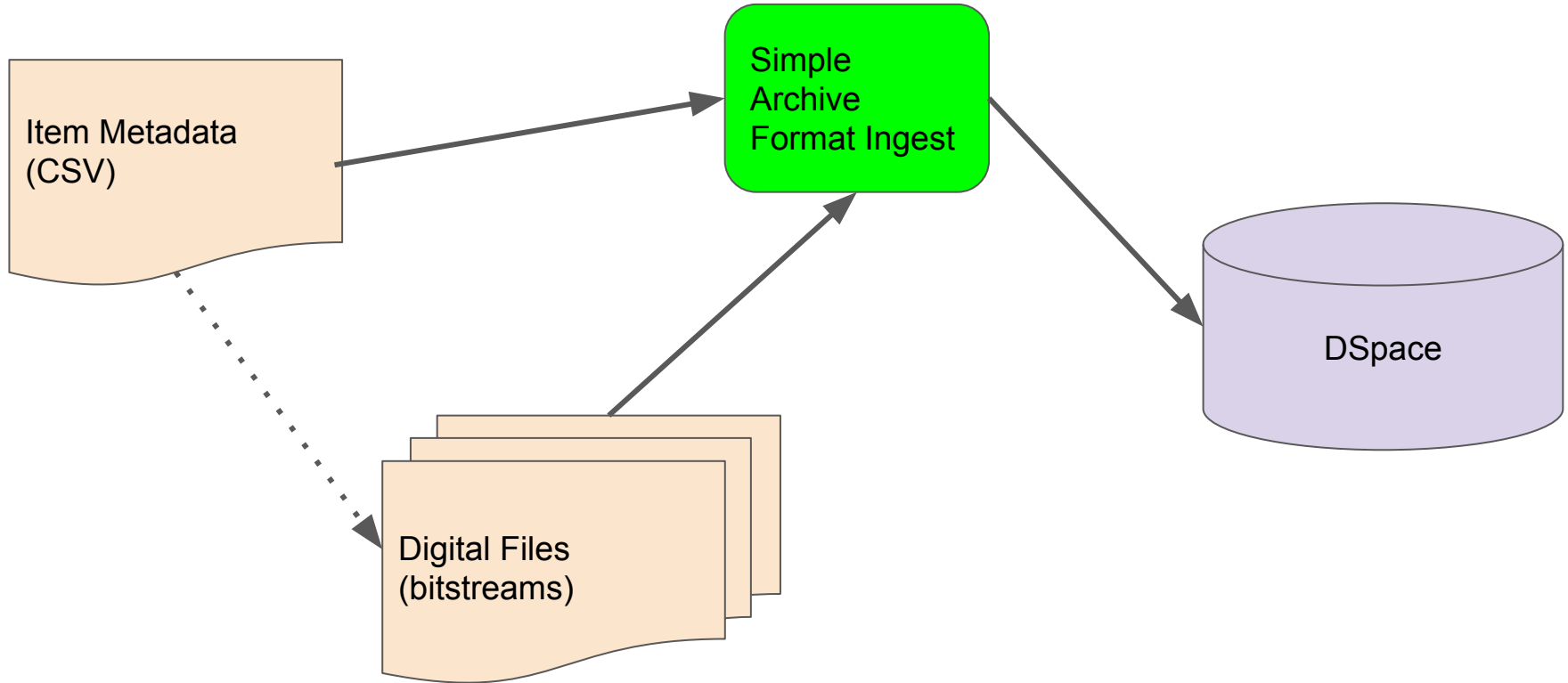
fx

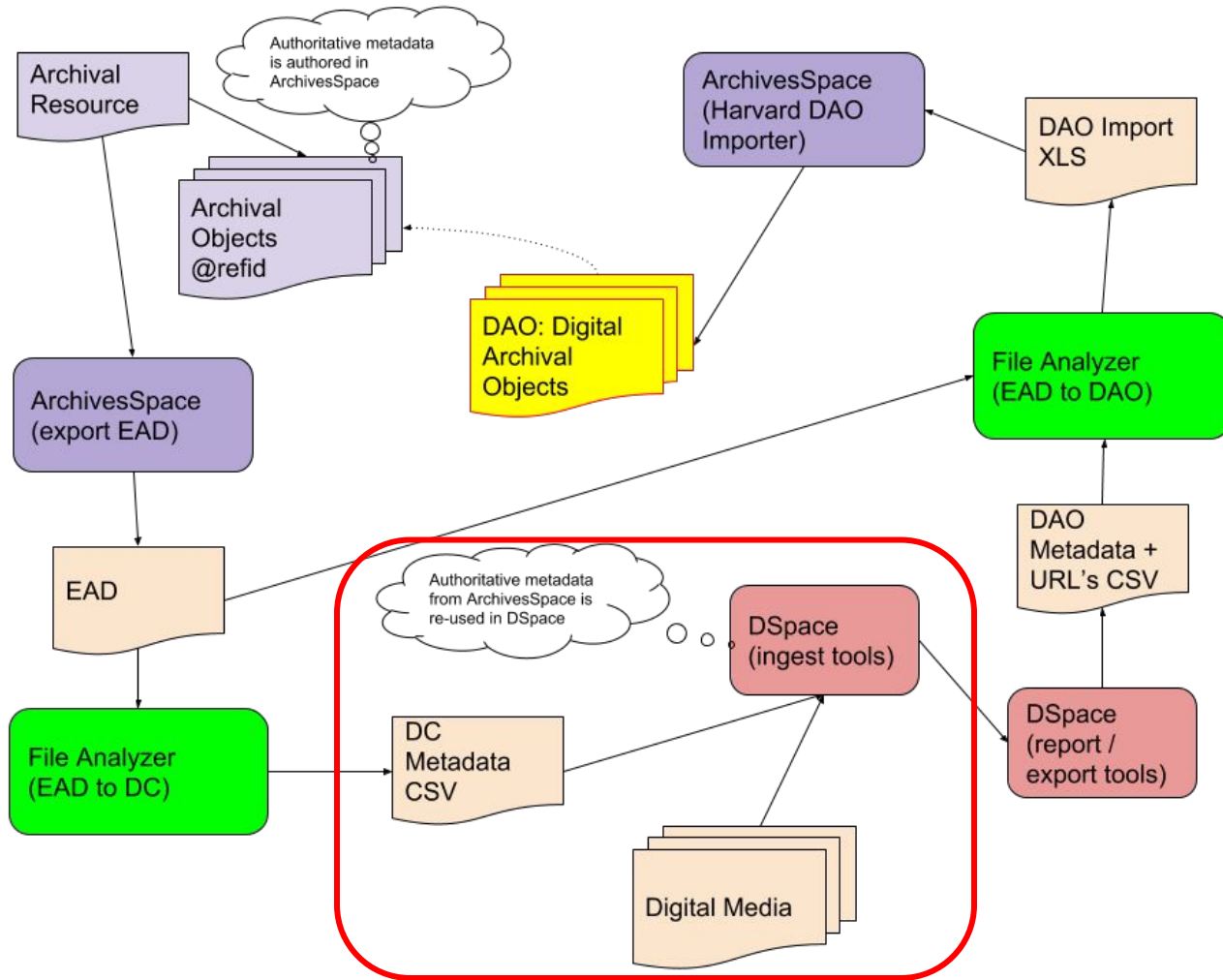
	A	B	C	D	E	F	G	H	I	J	K	L	M
1	id	collection	<a href="#">gu_archivesspace_id</a>	dc.title[en]	dc.coverage.temporal[en]	dc.description[en]	dc.date.created[en]	dc.relation.isPartOf[en]	dc.rights[en]	dc.language[en]	dc.contributor[en]	dc.subject[en]	
2	+	10822.1/4935	b7756d2ecfdec6fa664351d28ef88e4	Box 1 (To 1968)	February 1955		1955-02	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
3	+	10822.1/4935	2995992dc38ec6f6ea58151c9b12802f	Georgetown University Circular of Information, 1913			No Date	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
4	+	10822.1/4935	58609630fa38be3929c8581c713e14fd	Georgetown University [1950?]			No Date	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
5	+	10822.1/4935	b6054fad9cb6ddb41ac103414279656c	Information for Applicants poster, 1953, 1955, 1958, 1959, 1960, 1962, and Undated.			No Date	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
6	+	10822.1/4935	c65e621350af6cc52b519eec6317eb91	A Visit to the Georgetown Campus	February 1955		1955-02	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
7	+	10822.1/4935	14439879f47ea3c29a43cc96fb3390c9	Visiting Georgetown University in Mid-Twentieth Century, 1956-1960			No Date	Student Prospectuses and Related Materials (GTA.160722)	All rights res		Georgetown University Archives		
8			f280cb03147fd73df4325d6d4c2	Visiting Georgetown				Student Prospectuses and Related Materials			Georgetown University		



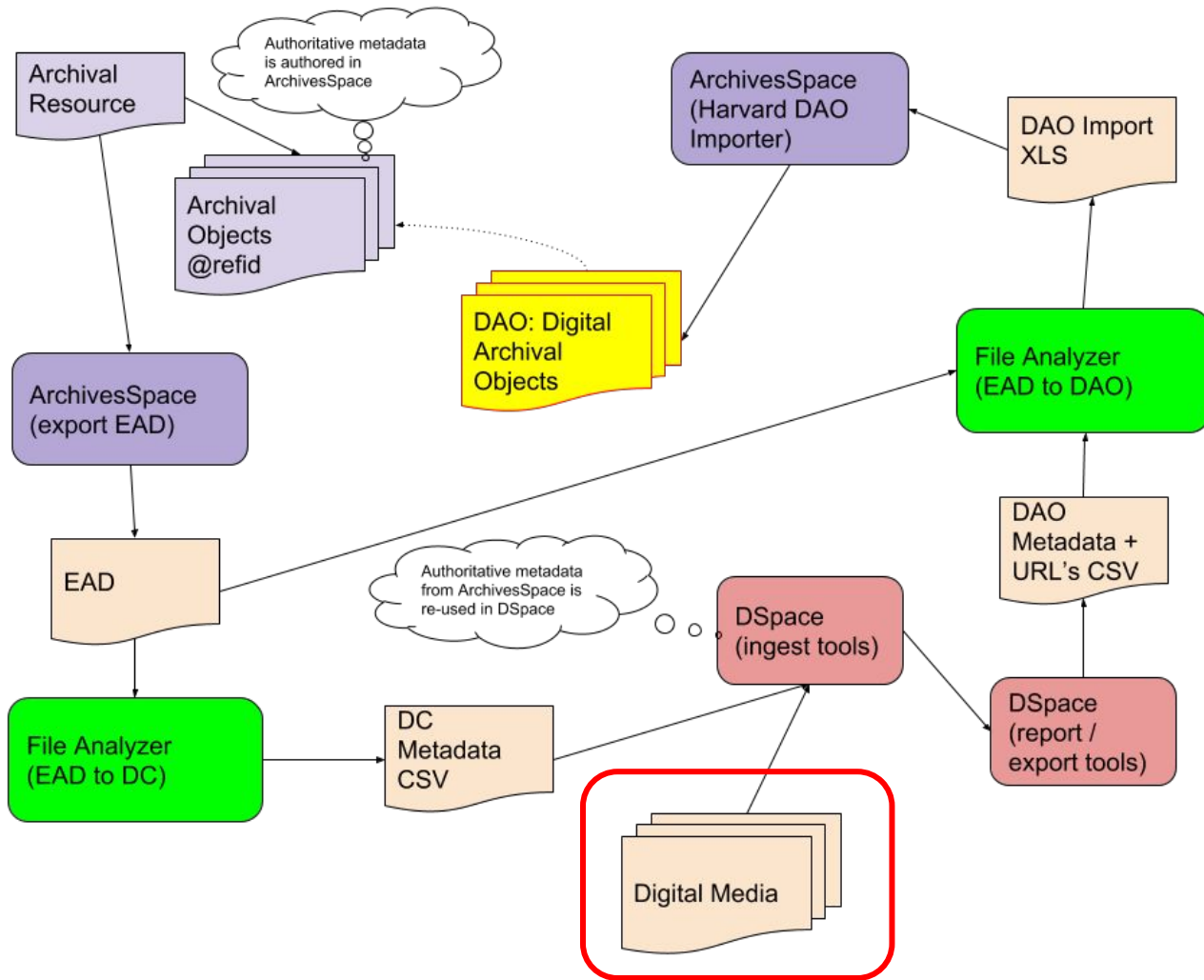
# 4. Prepare Ingest Folders for DSpace

Bitstream files are associated with metadata and are imported into DSpace





# 5. View Bitstreams (Digital Objects) in DSpace





# Student Catalogs, Prospectuses, and Related Materials

BROWSE BY

Creators

Titles

By Creation Date

Search within this collection:

This collection contains catalogs, prospectuses, and brochures sent to potential students to attract them to Georgetown University. The items include information about the curriculum, the campus, and University facilities.

Search



- Search DigitalGeorgetown
- This Collection

BROWSE

All of DigitalGeorgetown

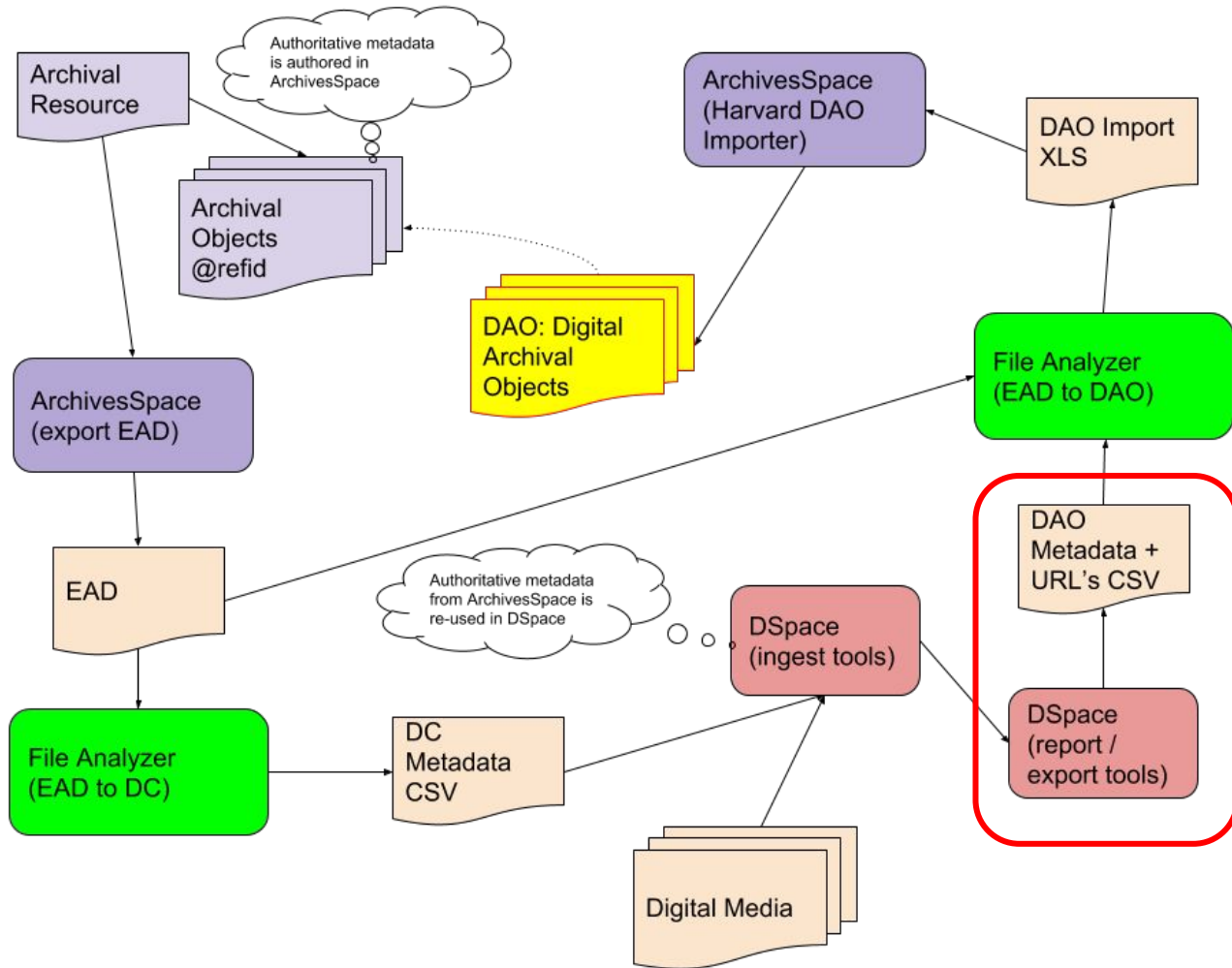
Communities &  
Collections

Creators

Titles



## 6. Export Item Metadata with Bitstream URL's





## DSpace REST Query Client

### Collection Selector

- Georgetown University Football Collection
- Institute for the Study of Diplomacy Lectures
- Photograph Selections from University Archives
- Selections from University Archives
- Special Events Tapes
- Student Catalogs, Prospectuses, and Related Materials
- The Philodemic Society Archives
- University Archives Collections Finding Aids
- University Publications
- Georgetown College Journal
- Georgetown University Alumni Magazine
- Georgetown University Yearbooks
- The Hoya Archives

▸ Metadata Field Queries

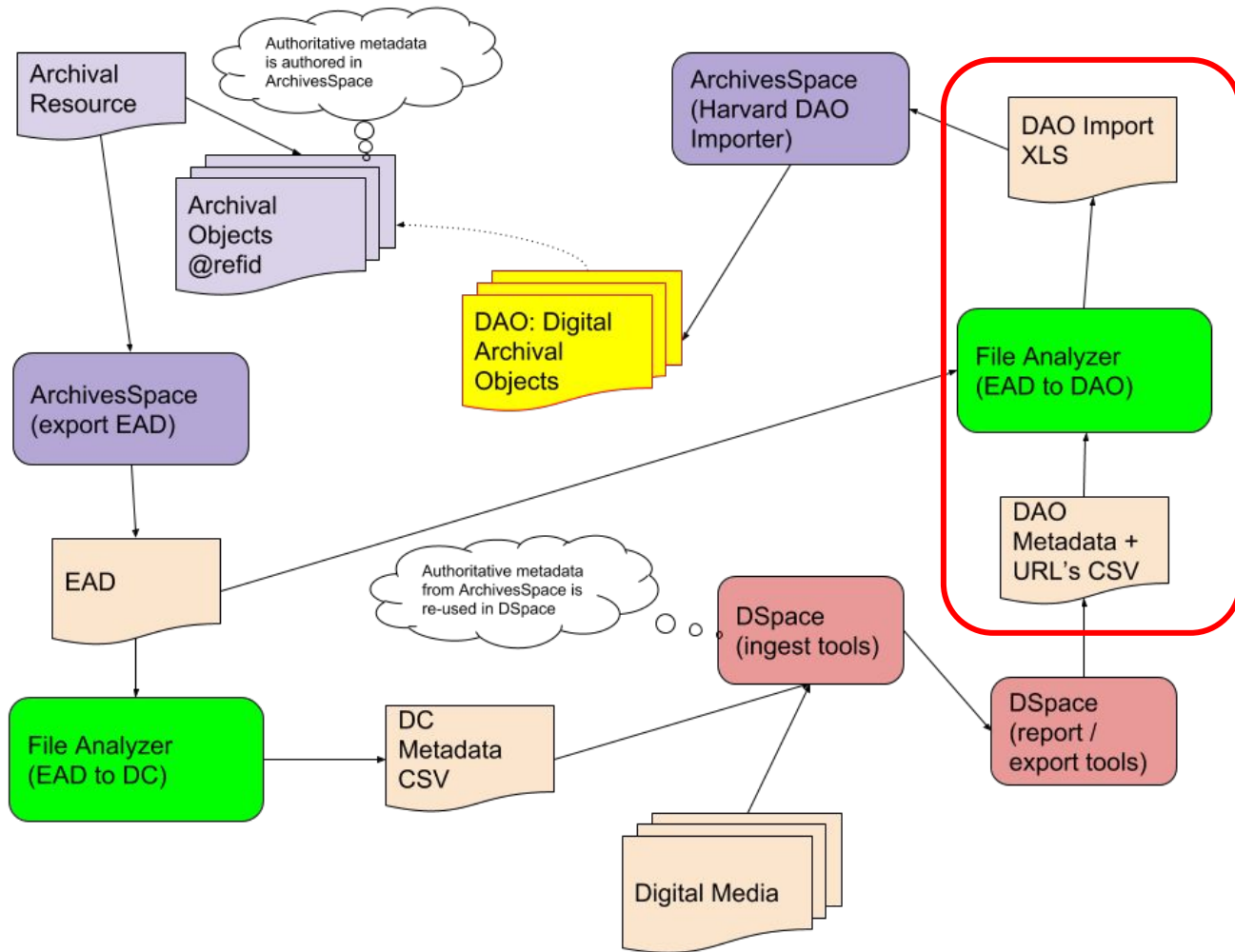
▸ Limit/Paginate Queries

▸ Filters

▸ Additional data to return

# 7. Merge report data with EAD file to generate an Excel Import File

The merge can be performed on AS refid (if available) or on Title



File Analyzer

Criteria Import Progress Details Merge

Import Type

File Import Auto-Generate Unique Keys Web Harvest

File to Import

C:\Users\twb27\Downloads\GTA.160722\_20190306\_225233\_UTC\_\_ead.xml

... X Recent

File Import Action

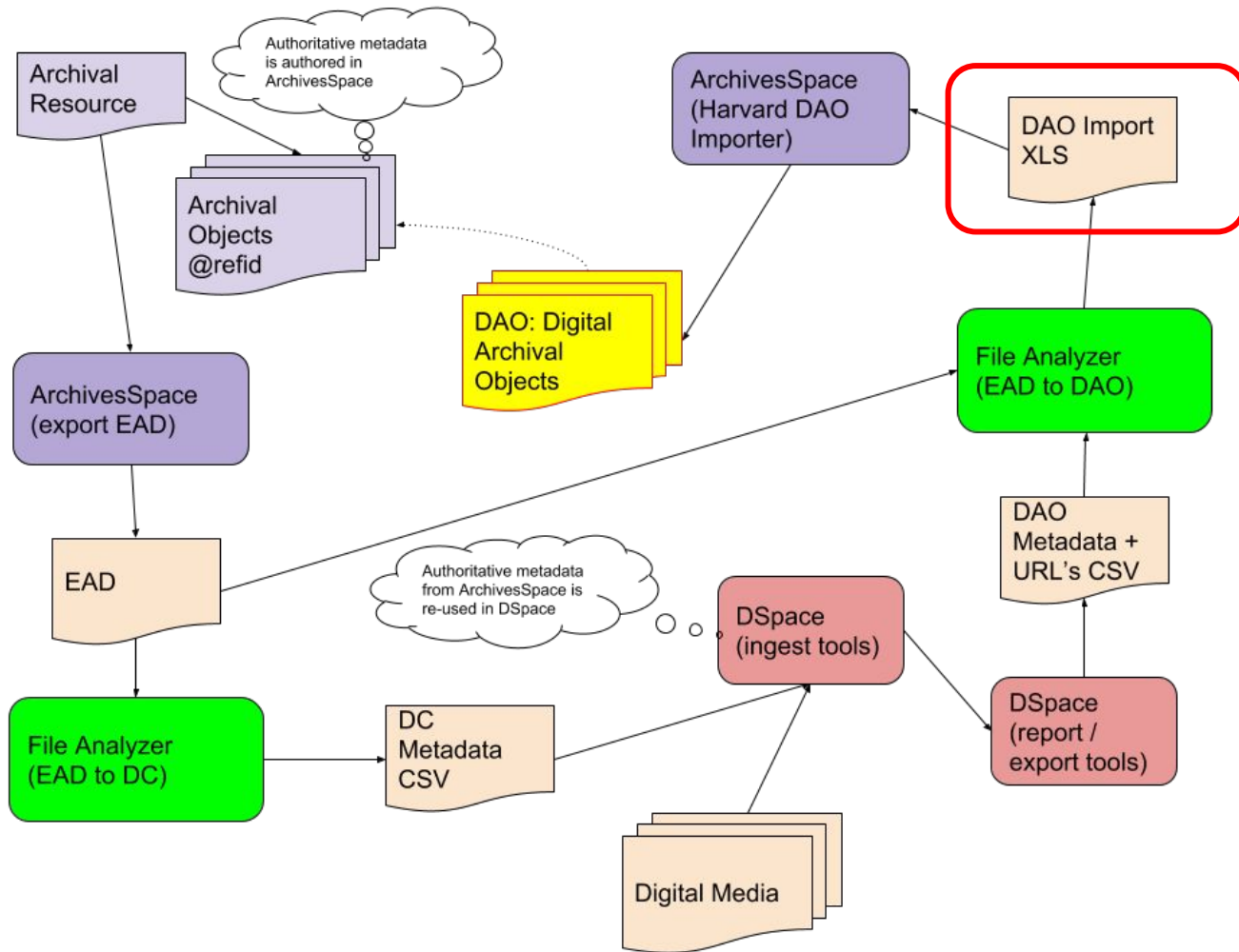
EAD to DAO Template

Importer Description Importer Properties Import Options

This rule will create a template file for the ArchivesSpace DAO Import Plugin from Harvard.

Import File

## 8. Review the generated Excel File



UA\_Digital\_Objects.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View ACROBAT Tell me what you want to do...

Clipboard Font Alignment Number Styles Cells Editing

Mapping - ArchivesSpace record FIELD with comments

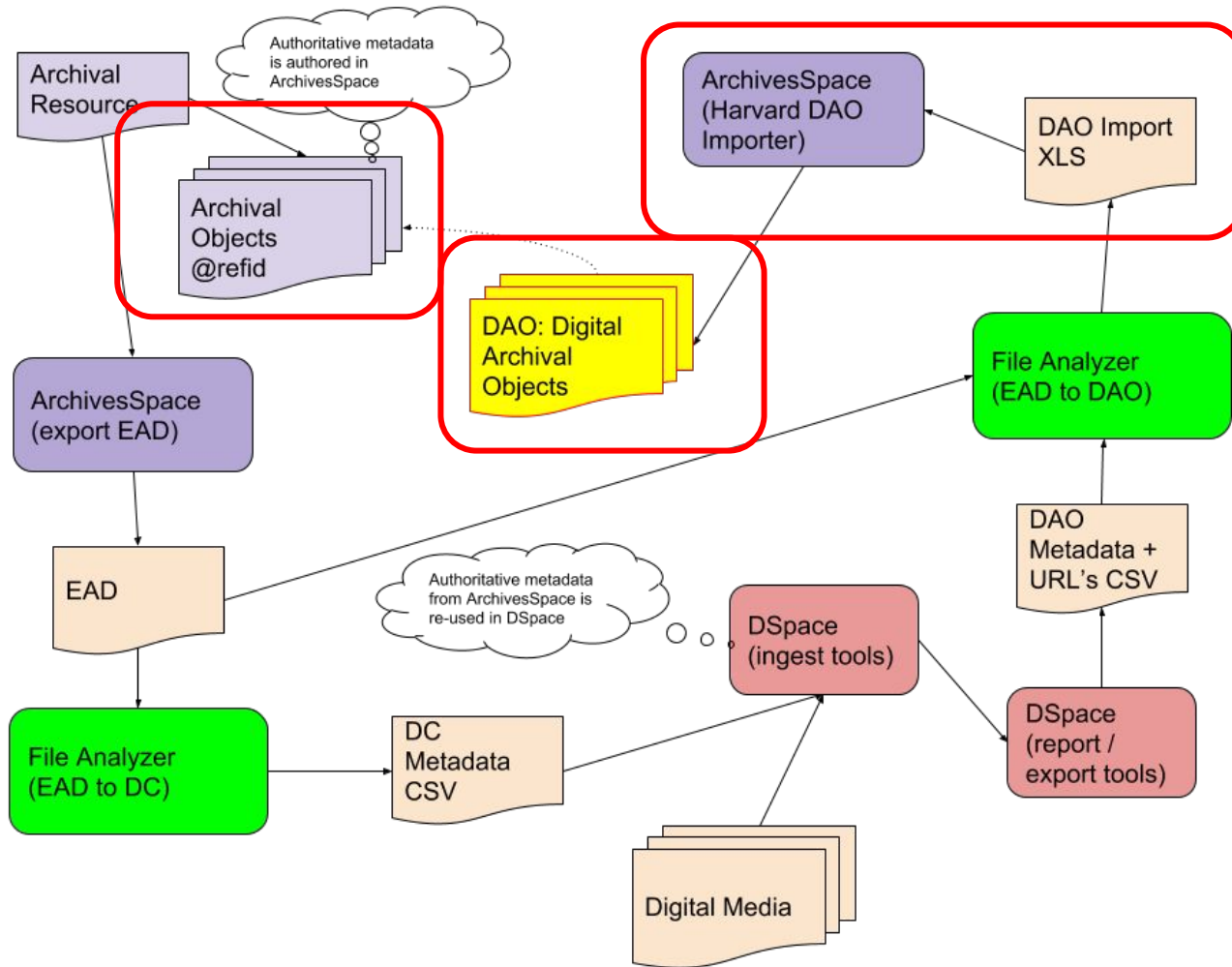
This is the template for use with aspace-import-excel for importing digital objects to associate with archival objects. You may replace this line with something of your choosing after you've copied the file for your use.

1														
2	<b>Mapping - ArchivesSpace Resource record SECTION</b>	Resource Identifying Information	Archival Object Basic Information	Digital Object	Digital Object	Digital Object	Digital Object	Digital Object						
3	<b>Mapping - ArchivesSpace record FIELD with comments</b>	EAD ID	Ref_id	Digital Object Identifier (Leave this blank to get a default system-assigned Digital Object Identifier that is based on the Archival Object Ref ID. Or enter a custom identifier here to override the default. Custom identifier must be unique within ArchivesSpace. Note that Digital Object identifiers are not exported in the EAD.)	Digital Object Title (Leave this blank to get a default Title that is based on Archival Object Title. Or enter a custom title here to override the default.)	Publish Digital Object (FALSE/TRUE) (Note that Publish value will be inherited by each File Version in addition to being set on the Digital Object record. Leave this blank to get the default value FALSE.)	Linked-to Digital Object URL (Will set Actuate=onLoad, Show=new)	Thumbnail URL (Will set Actuate=onRequest, Show=embed)						
4	ArchivesSpace digital object import field codes (please don't edit this row)	ead	ao_ref_id	digital_object_id	digital_object_title	publish	digital_object_link	thumbnail						
5	<b>Field name</b>	<b>EAD ID</b>	<b>REF ID</b>	<b>Digital Object ID</b>	<b>Digital Object Title</b>	<b>Publish Digital Object Record</b>	<b>File URL of Linked-to</b>	<b>File URL of Thumbnail</b>						
6	TBD	GTA.160722	58609630fa38be3929c8581c713e14fd	http://hdl.handle.net/10822/1045:Georgetown University [1950]		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
7	TBD	GTA.160722	b6054fad9cb6ddb41ac103414279656c	http://hdl.handle.net/10822/1045:Information for Applicants poster, 1953, 1955, 1958, 1959, 1960, 1962, and Undated.		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
8	TBD	GTA.160722	c65e621350af6cc52b519ee6c317eb91	http://hdl.handle.net/10822/1045:(A Visit to the Georgetown Campus		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
9	TBD	GTA.160722	14439879f47ea3c29a43cc96fb3390e9	http://hdl.handle.net/10822/1045:Visiting Georgetown University in Mid-Twentieth Century		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
10	TBD	GTA.160722	f280cb03147fd73df4325d6d4c2b6b59	http://hdl.handle.net/10822/1045:Visiting Georgetown University 1965		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
11	TBD	GTA.160722	089f2c6a92471f4af00ae13b42b980ed	http://hdl.handle.net/10822/1045:Visiting Georgetown University 1966-1967		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
12	TBD	GTA.160722	d9ed464ebadacc7993ce87a7d87ec460	http://hdl.handle.net/10822/1045:Visiting Georgetown University 1968-1969		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
13	TBD	GTA.160722	80fd07e211666de0af288ac7ee10f0	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C., Volume II, No. 3, August 1970		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
14	TBD	GTA.160722	ae2e88512c3d974313bbad90c837bb0	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C., Volume III, No. 2, May 1971		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
15	TBD	GTA.160722	c07bd996afb0ed7dba60745631de5	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C., Volume IV, No. 5, May 1972		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
16	TBD	GTA.160722	63363fd8f471181b417dfa534cfaee	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C., Volume V, No. 5, May 1973		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
17	TBD	GTA.160722	bc0f1ff4101d24f2b7d4d4dd685124c	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C., Volume V, No. 6, May 1974		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						
18	TBD	GTA.160722	1dcd75189c1c884daf5c2501f9d6c665	http://hdl.handle.net/10822/1045:Georgetown University Bulletin, Georgetown, D.C. 1975		TRUE	http://hdl.handle.net/https://repository.library.georgetown.edu/bitst	https://repository.library.georgetown.edu/bitst						

Ready

# 9. Import the Excel File with the Harvard Plugin





Enable Reorder Mode Rapid Data Entry Add Child **Load via Spreadsheet** Close Record

Student Prospectuses and Related Materials	Collection
▶ Box 1 (To 1968)	Box
▶ Box 2 (1970-1989)	Box
▶ Box 3 (1990-2000)	Box

- Basic Information >
- Dates 1 >
- Extents 1 >
- Finding Aid Data >
- Related Accessions 1 >
- Agent Links >
- Subjects >
- Notes 1 >
- External Documents >
- Rights Statements >
- Instances >
- Deaccessions >

Save Add Event ▾ Publish All View Published Export ▾ Merge ▾ Transfer ▾ More ▾ Suppress Delete

## Student Prospectuses and Related Materials **Resource**

### Basic Information

**Title \*** Student Prospectuses and Related Materials

**Identifier \*** GTA 160722

**Level of Description \*** Collection ▾

## Load Spreadsheet

+ Select File UA\_Digital\_Objects.xlsx

Import Archival Objects

Add Digital Objects to Archival Objects

Import from Spreadsheet

Copy to Clipboard

Cancel

Enable Reorder Mode Rapid Data Entry Add Child Load via Spreadsheet

Close Record

Student Prospectuses and Related Materials Collection

Box 1 (To 1968) Box

Box 2 (1970-1989) Box

Box 3 (1990-2000) Box

Basic Information

Dates 1

Extents 1

Finding Aid Data

Related Accessions 1

Agent Links

Subjects

Notes 1

External Documents

Rights Statements

Instances

Deaccessions

Save

Add Event

Publish All

View Published

Export

Merge

Transfer

More

Suppress

Delete

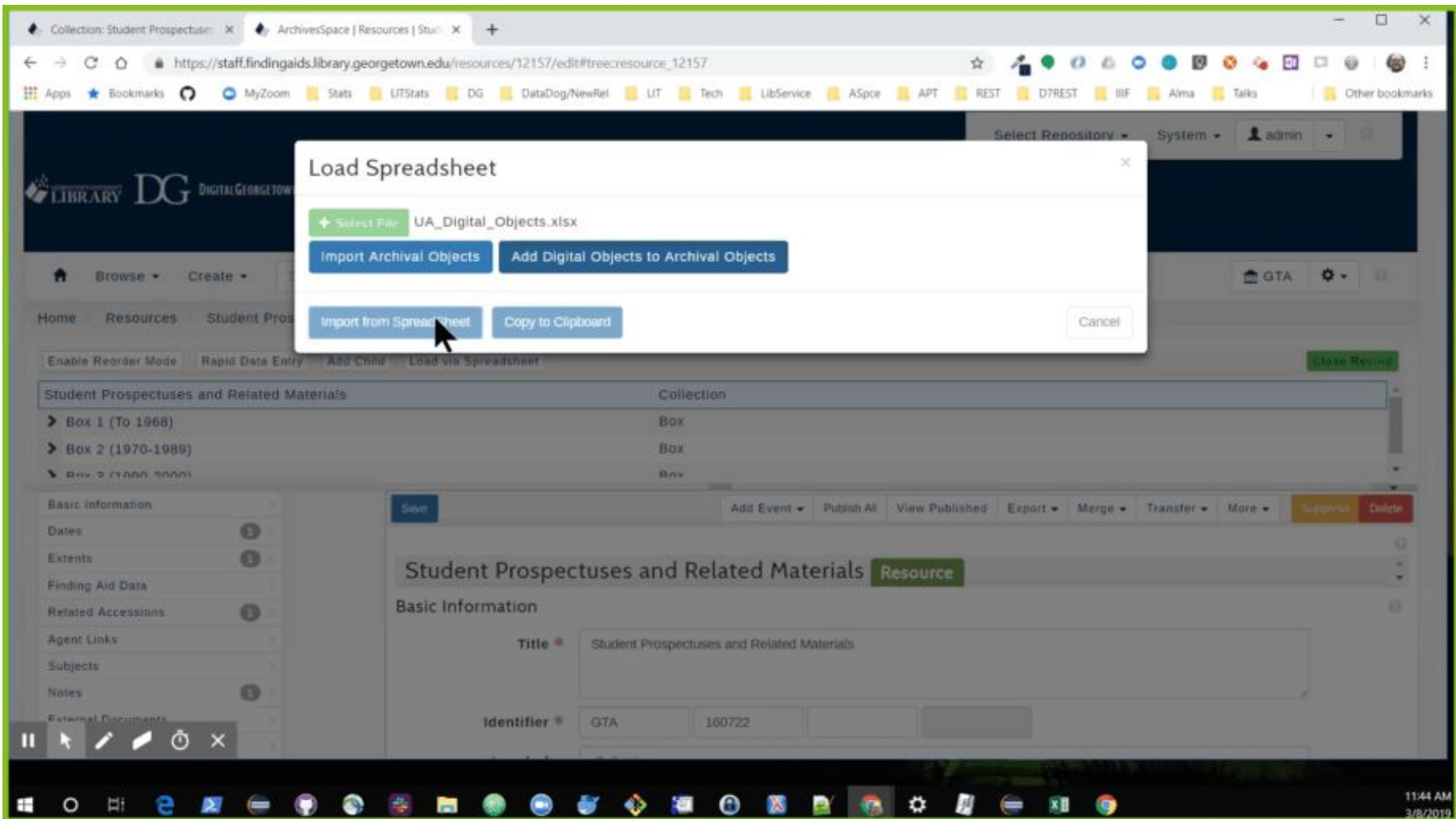
## Student Prospectuses and Related Materials Resource

### Basic Information

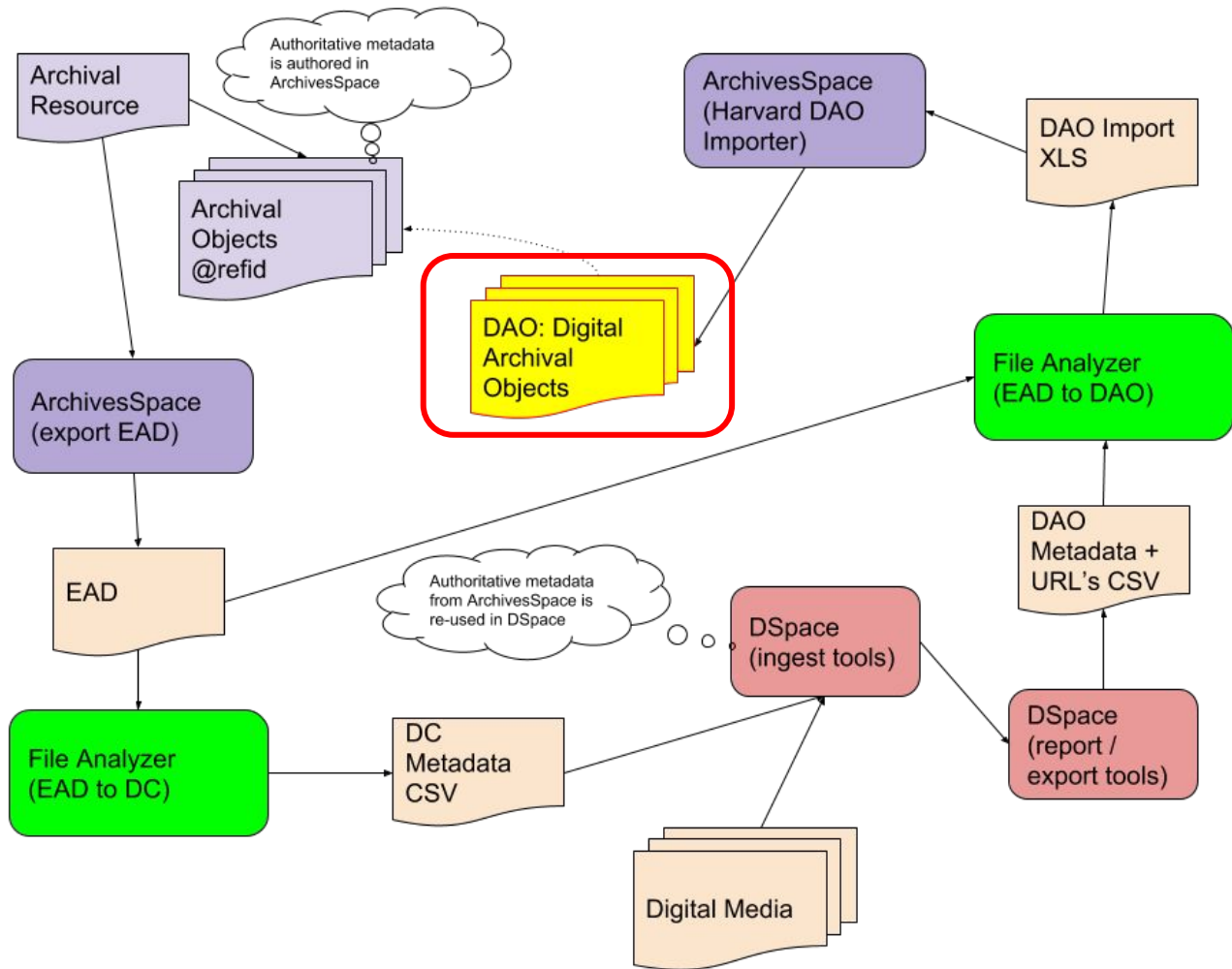
Title \* Student Prospectuses and Related Materials

Identifier \* GTA 160722

Level of Description \* Collection



# 10. View the Digital Objects in ArchivesSpace PUI





## Georgetown University Archival Resources

Repositories Collections Subjects Names

Please contact the [Booth Family Center for Special Collections](#) for assistance with accessing these materials.

### Student Prospectuses and Related Materials

**Collection** Identifier: GTA-160722



Citation



Print



Staff Only



Request

Georgetown University Archives | Student Prospectuses and Related Materials

Collection Overview **Collection Organization** Container Inventory

Contains prospectuses or brochures sent to potential students to attract them to apply for admission. These include information about the curriculum, the admissions process, the campus, and University facilities.

This collection has been digitized and is available to view online in DigitalGeorgetown.

View Online



#### Dates

1913, 1950-2000

Search Collection

From year

To year

Search

### Collection organization

Student Prospectuses and Relate...

- ▶ Box 1 (To 1968)
- ▶ Box 2 (1970-1989)
- ▶ Box 3 (1990-2000)





# Student Prospectuses and Related Materials

 **Collection** Identifier: GTA-160722



Citation



Print



Request

Georgetown University Archives | Student Prospectuses and Related Materials

 Rectangular Snip

[Collection Overview](#) [Collection Organization](#) [Container Inventory](#)

Contains prospectuses or brochures sent to potential students to attract them to apply for admission. These include information about the curriculum, the admissions process, the campus, and University facilities.

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## Dates

1913, 1950-2000

## Extent

1.25 Linear Feet

[Expand All](#)

[Finding Aid & Administrative Information](#)

[Repository Details](#)

From year



To year

[Search](#)

## Collection organization

[Student Prospectuses and Relate...](#)

▼ [Box 1 \(To 1968\)](#)

[Georgetown University Circ...](#)

[Georgetown University \[195...](#)

[Information for Applicants p...](#)

[A Visit to the Georgetown C...](#)

[Visiting Georgetown Univer...](#)

[Visiting Georgetown Univer...](#)

[Visiting Georgetown Univer...](#)

[Visiting Georgetown Univer...](#)



# More information

View this example archival collection in our ArchivesSpace user interface:

<https://findingaids.library.georgetown.edu/repositories/12/resources/12157>

View this example digital collection in our DSpace repository:

<https://repository.library.georgetown.edu/handle/10822/1045094>

GitHub documentation with links to the tools we have demonstrated:

<http://bit.ly/as2dspace>

Contact us!

[digitalscholarship@georgetown.edu](mailto:digitalscholarship@georgetown.edu)