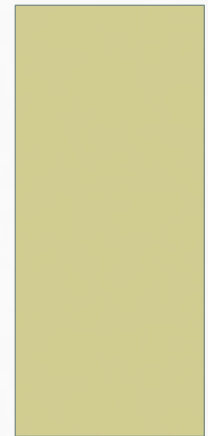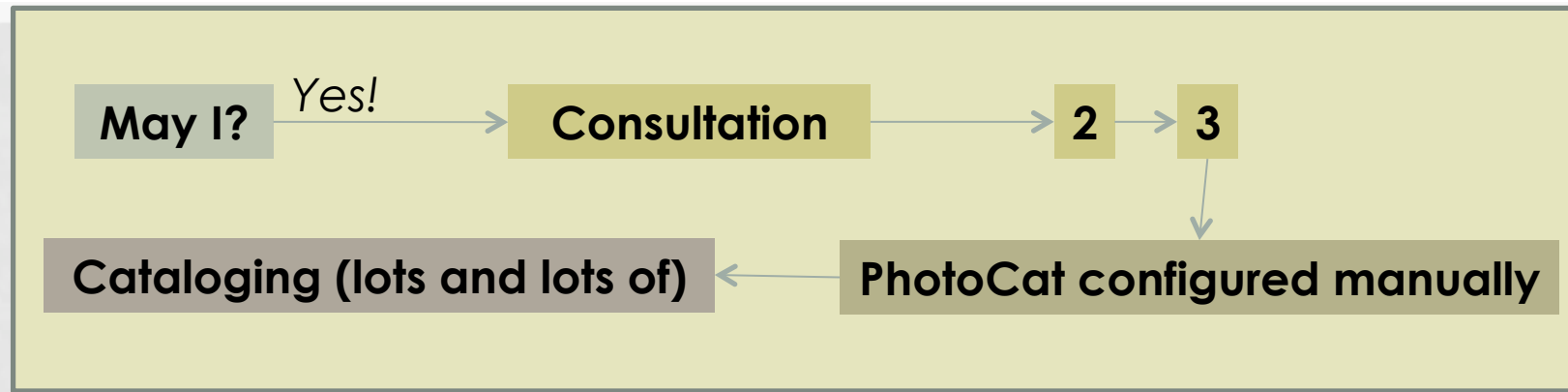# INTRODUCTION AND GETTING STARTED
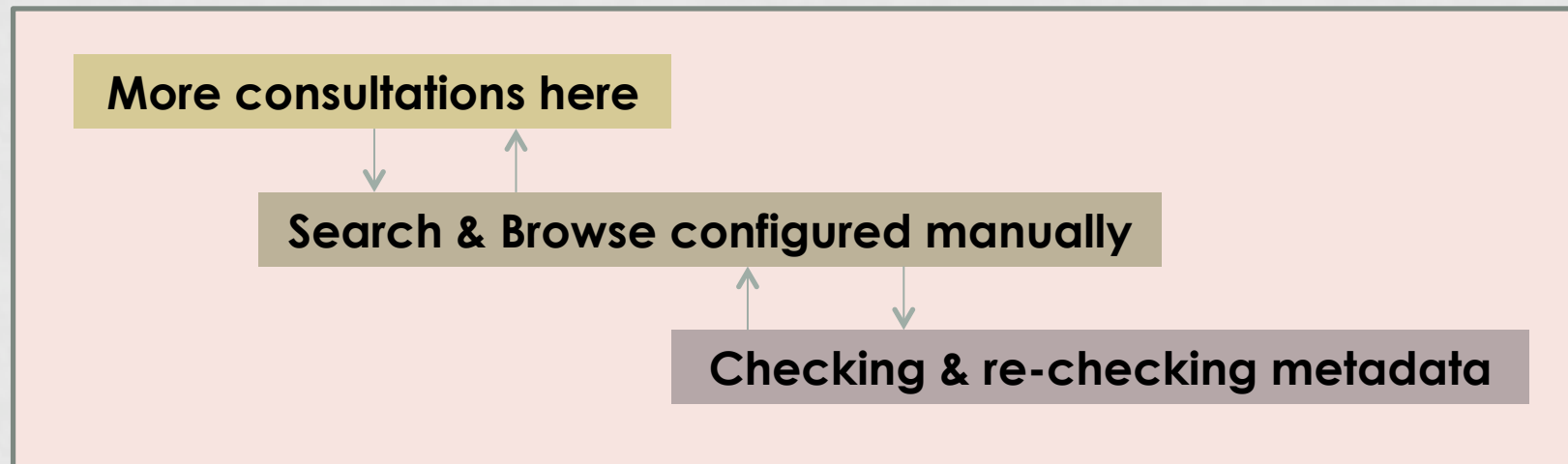
PHOTO CATALOGING AND DELIVERY SERVICE

WHAT IS A SERVICE?

- *Services* put more control in the hands of the collections manager

- System + support structure (documentation, training, support)

- Over the next several years, the DLP will be moving more digital collections development onto services

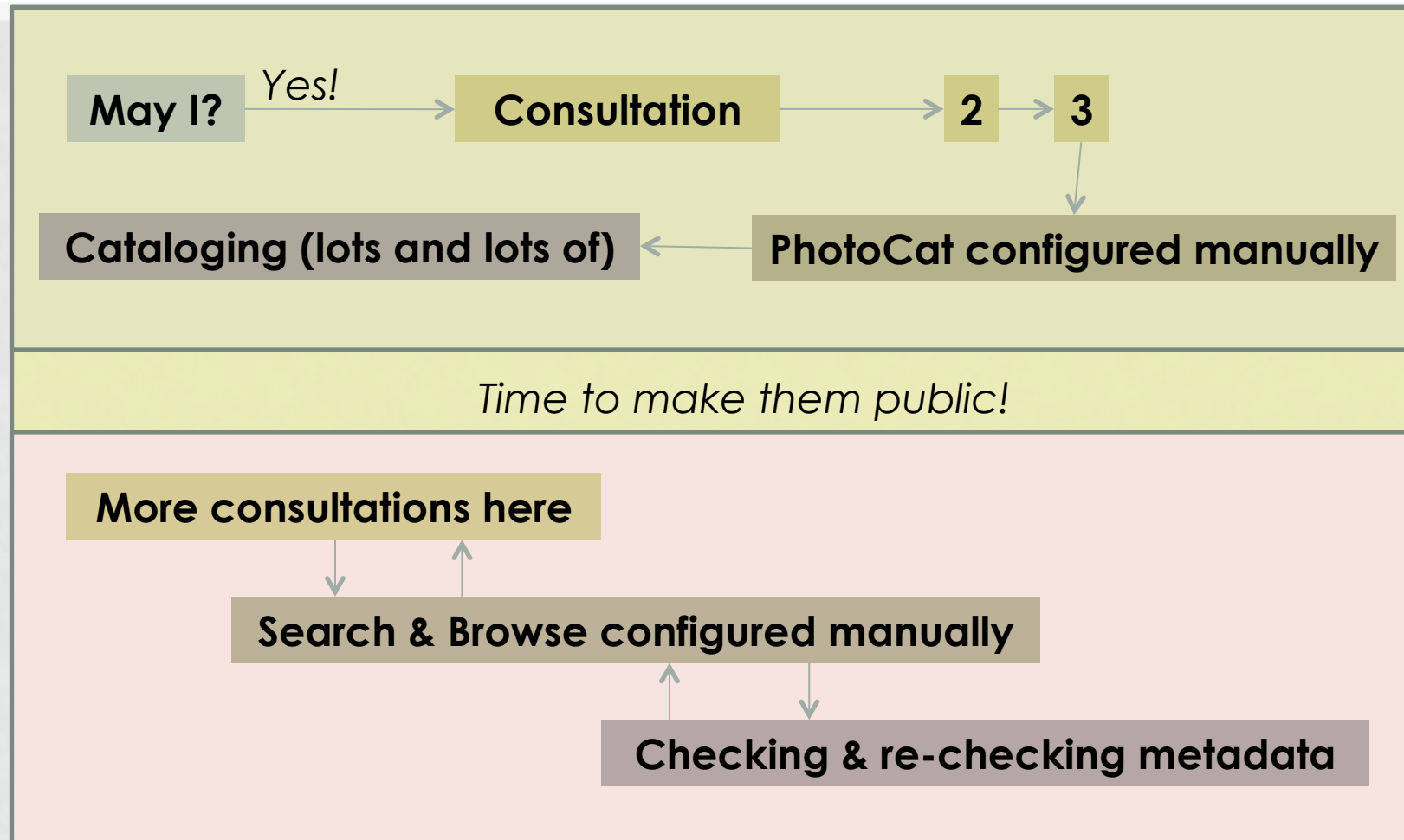# HOW HAVE WE BEEN DOING THIS?

May I? — *Yes!* → Consultation → 2 → 3

PhotoCat configured manually → Cataloging (lots and lots of)

Time to make them public!

More consultations here

Search & Browse configured manually

Checking & re-checking metadata

HOW IS THE SERVICE DIFFERENT?

May I? — *Yes!* → Consultation → 2 → 3

3 → PhotoCat configured manually → Cataloging (lots and lots of)

Time to make them public!

More consultations here

Search & Browse configured manually

Checking & re-checking metadata

HOW IS THE SERVICE DIFFERENT?

May I? → *Yes!* → **Initial Consultation Document**
- **Metadata**
- **Collection & Unit**

PhotoCat2 configured automatically from this document

Cataloging (lots and lots of)

Images can be made available online as they are cataloged through the **IU Photos Collection Site**

IU Photos Collection Site
- Search/browse by collection
- Search/browse all collections in one unit
- Search/browse across all photos in the site

WHAT DO I NEED TO GET STARTED?

- Collection of documentary photographs
- Metadata, or the ability to create metadata
  - Potential for importing existing metadata (from spreadsheets, etc.)
- Time, dedication, stamina
- Funding wouldn't hurt

INITIAL CONSULTATION

- Members of **DLP Services Team**; folks from other units (e.g. Tech Services) when needed
- Metadata: initial fields based on MODS, selection of controlled vocabulary
- Text for search/browse interface: sentences about collection and unit, URLs for linking to additional context / information

ELEPHANTS IN THE ROOM

- Digitization of photographs
  - DMIC Lab
  - Equipment located in library unit
  - Vendor
- Metadata creation
  - Collection managers
  - Students (interns, hourly, GA)
  - Faculty, staff
  - Technical Services staff (*for library collections*)
- Options for individualization
  - Metadata fields
  - Contextual collection site, using IU Photos Site for search/browse/display
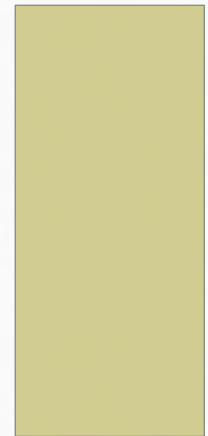
WHO CAN PARTICIPATE?

- Documentary photographs collections from any IU collection, library, archive, department, museum, etc. (Faculty projects must be sponsored at the institutional level)

SOFTWARE DEVELOPMENT OVERVIEW

PHOTO CATALOGING AND ACCESS SERVICE

OUTLINE

- Development Assumptions
- Architecture and Data Modeling
- Demonstration and Implementation
- The Future

CONSTRUCTIVE ASSUMPTIONS

PHOTO CATALOGING AND ACCESS SERVICE, SOFTWARE DEVELOPMENT

ASSUMPTIONS

- Types of assumptions
    - What task do we want to accomplish or simplify?
    - Who will participate in the solution we develop?
    - When will these tools need to be used?
    - What impact will developments on the horizon have on the needs of the assumed users and tasks?

WHY ASSUME AT ALL

- When you assume…

- Can't we find out for sure?
  - Perceived needs and desires change
  - The environment can change
  - Requirements are difficult to articulate
  - Consensus amongst stakeholders takes time
  - People change

EXISTING PIECES

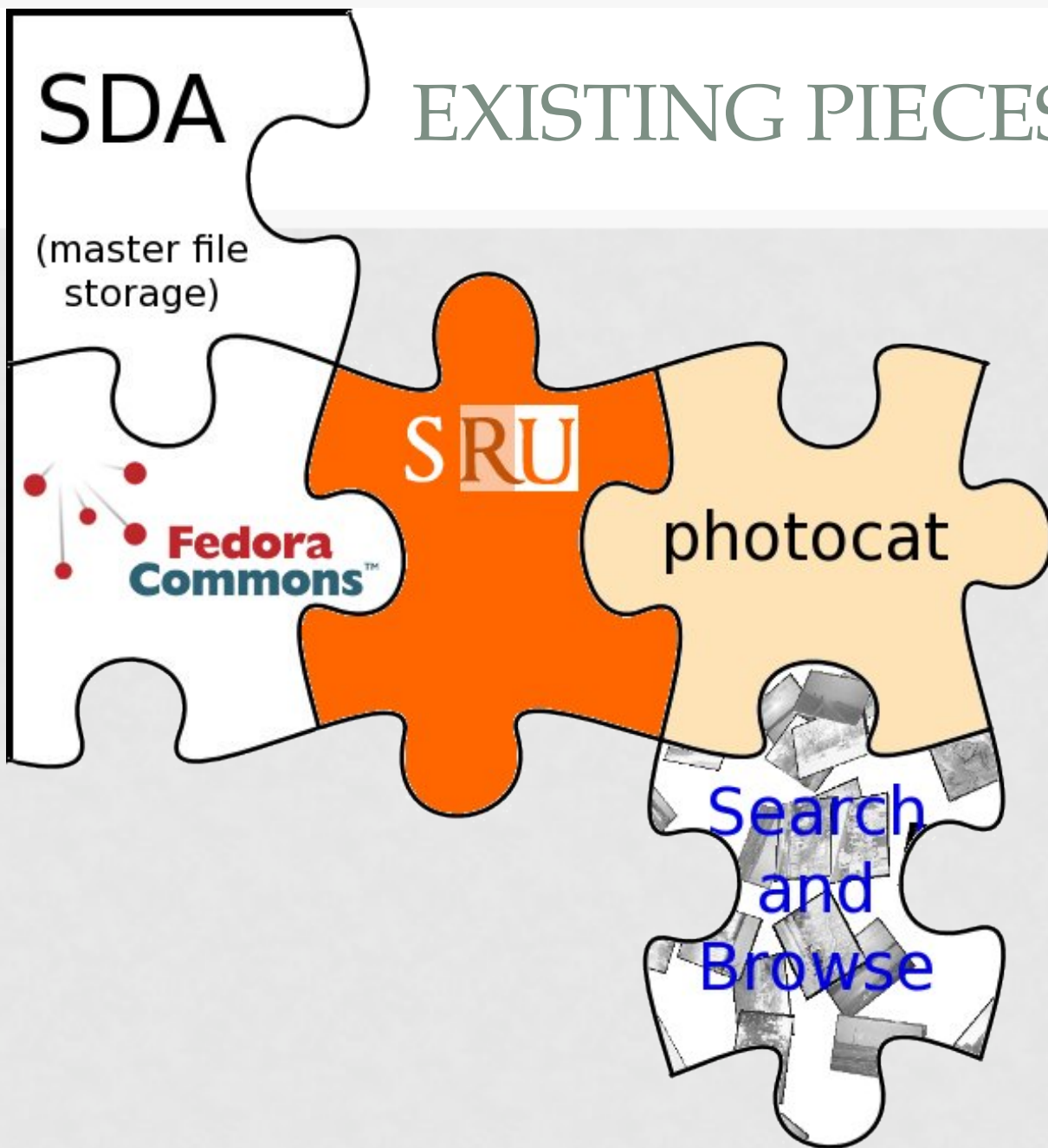- PhotoCat
  - Image-centric
  - METS/MODS-based
  - Fedora/SRW backed
  - Infrequent additions of collections
  - No changes to collections
- Search and Browse Application
  - SRW-backed
  - Item-centric

NEW ASSUMED REQUIREMENTS

- This application will collect metadata about items
- Items will be grouped into "collections"
- Users will be able to control whether an item is visible to the public
- Collections will be added frequently
- Collections will have to change from their initial specification
- Representations of the metadata will change
  - Will not fit neatly into any standard schema
  - Will not be represented the same over time, even in standard form
- The number of metadata "fields" as compared to the number of collections will plateau
- Fields may be linked to vocabulary sources

NOTABLY NOT ASSUMED

- Any particular underlying data storage technology
  - (though our implementation uses fedora)
- Any particular underlying search technology
  - (though our implementation currently uses SRW)
- Any third-party metadata representation
  - (though for most of our collections we disseminate MODS version 3 records)
- Anything about the nature of objects represented
  - (though for all of our current collections they are documentary photographs)
- Any particular language
  - (though we haven't yet translated the applications into other languages)

FLEXIBILITY ON A SOLID FOUNDATION

PHOTO CATALOGING AND ACCESS SERVICE, ARCHITECTURE OVERVIEW

METADATA MODEL

courtesy of the IU Archives

METADATA MODEL

- Three Level Approach
  - Field Definition
    - Define a "field" once, and allow it to be used in any collection
      - Can support very special cases
    - Define a vocabulary source type to be used in any collection
  - Collection Configuration
    - A selected sub-set of the pre-defined fields
      - With configured behavior (repeatability, read-only, etc.)
      - Possibly with attached vocabulary or input sources
    - A set of default values
    - Configured transformations to dissemination formats
    - Choices about optional features
  - Item Metadata
    - Fully documented in the Field Definition
    - Easily parsed and indexed
    - **Won't change** (this is the solid foundation)

FIELD DEFINITION: WHAT IS A "FIELD"?

A Field is:

- The encapsulation of some information about an image.
  - Examples: pictured individuals, date taken, film type…

A Field is NOT necessarily:

- A single input box on a web page
- An element in a metadata schema

WHAT IS A "FIELD"?

Title:

Size:

Series:

```
<d:fieldDefinition d:type="TITLE">
  <d:meaningAndUsage>
    This field represents the "title" of a photograph.  A t...
    a cataloger-assigned one-line description of the photo... eant
    to describe or identify it as concisely as possible.  If the
    photograph has special purpose identifying text written on the back
    of it or beneath
    consider using a
    specific meaning]
    or useful title i

    By default this
    single line input
    a tool-tip descri
  </d:meaningAndUsage>
  <d:javaImplementati
    <d:class>edu.indi
  </d:javaImplementation>
  <d:dataSpecification>
    <d:value>
      <d:part>
        <d:name>title</d:name>
        <d:meaning>This is the text entered into the single input box presented for this field
      </d:part>
    </d:value>
  </d:dataSpecification>
  <d:defaultConfiguration>
    <c:displayLabel>Title</c:displayLabel>
    <c:usageNotes>Brief text describing what's featured in the photograph and pointing out othe
    interesting features.</c:usageNotes>
    <c:readOnly>false</c:readOnly>
    <c:repeatable>false</c:repeatable>
    <c:displayedInCatalogingBriefView>true</c:displayedInCatalogingBriefView>
    <c:exposedInCatalogingFullView>true</c:exposedInCatalogingFullView>
    <c:displayedInDiscoveryBriefView>true</c:displayedInDiscoveryBriefView>
    <c:displayedInDiscoveryFullView>true</c:displayedInDiscoveryFullView>
  </d:defaultConfiguration>
</d:fieldDefinition>
```

```
<c:field type="TITLE">
    <c:displayLabel>Title</c:displayLabel>
    <c:usageNotes>
        Brief text describing what's featured in the photograph and pointing
        out other interesting features.
    </c:usageNotes>
</c:field>
```

```
<m:field fieldType="TITLE">
    <m:values>
        <m:value>
            <m:part property="title">This is the entered title</m:part>
        </m:value>
    </m:values>
</m:field>
```

FIELD CREATION GUIDELINES:

- Any vagueness or ambiguity in the information that you wish to collect must be resolved before choosing/creating a field for it.
- If two values entered in this field (in any collection with any configuration) could EVER map to different locations in ANY standard format, you must create more specific fields (check the existing mapping files)

MODULAR DESIGN
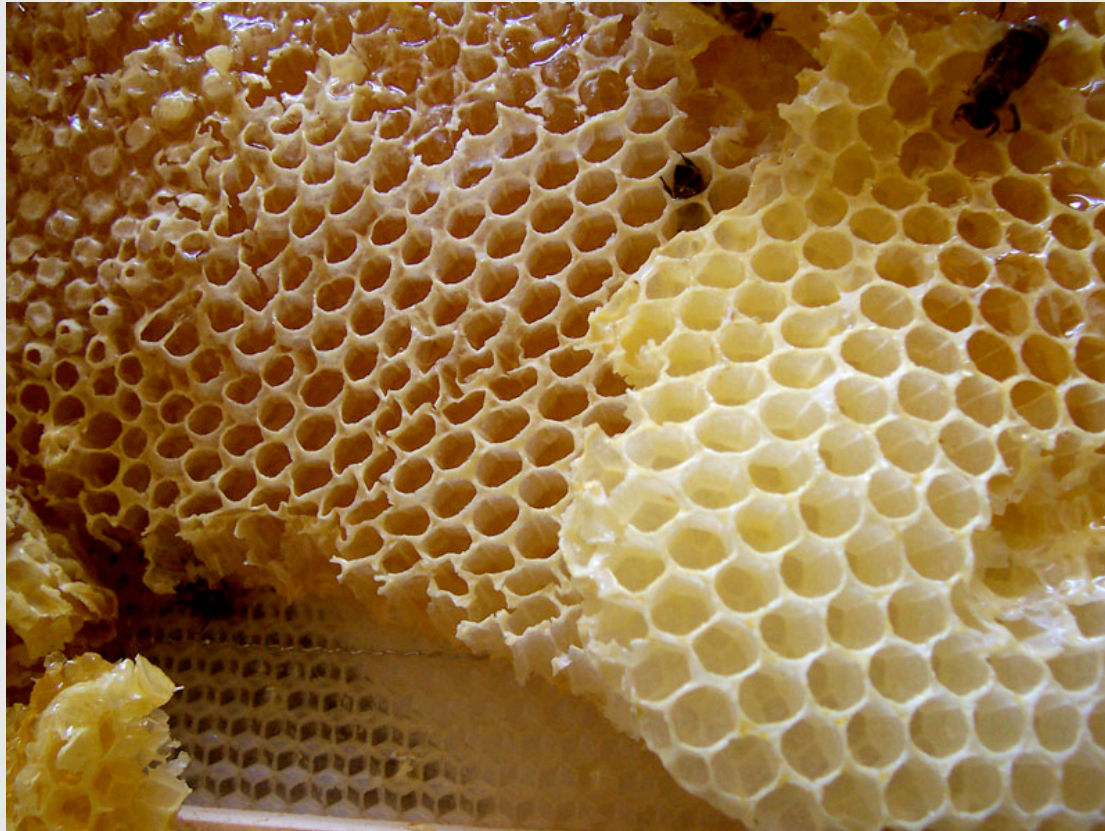
DESIGN IDEOLOGY

- lowest common denominator = the assumptions we will assert

- Extended functionality with extended assumptions

VOCABULARY SOURCES AND TERMS

Baseline Vocabulary Sources

- Term
  - Has a textual representation
- Vocabulary Source
  - Has identifying information
  - Contains some terms
  - Exposes the ability to search by prefix

Managed Vocabulary Sources

- Term
  - Has a textual representation
- Vocabulary Source
  - Has identifying information
  - Contains some terms
  - Exposes the ability to search by prefix
  - the ability to add/remove terms

ITEM METADATA MANAGER

Baseline Item Manager

- Allows item metadata to be read
- Allows item metadata to be written
- Allows for item creation
- Allows for item data file submission

History Enable Item Manager

- Allows item metadata to be read
- Allows item metadata to be written
- Allows for item creation
- Allows for item data file submission
- Allows for historical information to be queried

DEMONSTRATION AND DISSECTION

PHOTO CATALOGING AND ACCESS SERVICE, TECHNOLOGY OVERVIEW

THE FUTURE

PHOTO CATALOGING AND ACCESS SERVICE, NEXT STEPS

NEAR-TERM GOALS

- Expose completed collections to the public
- Increase usage (add collections)
- Reintroduce batch operations
  - Allow for persistent groups of items
  - Allow for search and replace operations
- Add powerful import/export functions
- Expose collection configuration and field definitions for editing by collection managers and application administrators
- Include the fields and interactions the users find most helpful

EXISTING SERVICES

- Documentary Photos Service
  - Built on existing infrastructure (PhotoCat and Search/ Browse)
- EAD finding aids publication (*not including digitized archival objects*)

"ALMOST" SERVICES

- Variations (audio and music scores)
- Video Streaming Service
- Digital Archival Collections (EAD, item-level)

*Lacks the support structure
required for a fully-functional
service*

DEVELOPING SERVICES

- Digital Archival Collections, described at the folder level ("FindingAidsII") (Summer/Fall 2011)
- Future services: Scanned books? Text Encoding? Art photographs? Maps?