Digitization Strategies and Technology

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LYRASIS PowerPoint Ninjas
Software Decision Making Process

• Finding a solution
  • Fits your needs/use case(s)
  • Satisfies all upstream/downstream requirements
  • Matches your resources and capabilities

• We have built a model to share with you and get your feedback
Three software pathways to solve the problem

- Make it- homegrown
- Buy it
- Open source
Upstream/downstream considerations

1. Initial setup and implementation
   a. Customization of software
   b. Workflows
   c. Data migration
   d. Configuration and implementation
   e. Initial training

2. Ongoing management and maintenance
   a. User support
   b. Data input
   c. Documentation
   d. System administration
3. Product and feature enhancement
   a. New feature development
   b. Release schedule
   c. Testing
   d. Migration
   e. Integration

4. Security and reliability
   a. Backups
   b. 24/7 run time
   c. Disaster recovery
   d. Data center security

5. Data center and facilities
<table>
<thead>
<tr>
<th>Activities</th>
<th>Homegrown</th>
<th>OSS</th>
<th>Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial setup and configuration</td>
<td>High</td>
<td>Medium</td>
<td>Medium</td>
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<tr>
<td>Ongoing management and maintainence</td>
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<td>medium</td>
<td>low</td>
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<tr>
<td>Product and feature enhancement</td>
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<td>Low to medium</td>
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<tr>
<td>Security and reliability/IT infrastructure</td>
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<td>variable</td>
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<tr>
<td>Data center and facilities</td>
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<td>High</td>
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Total cost of ownership

- Homegrown
- Open Source Software
- Commercial
Requirements Fit vs. Cost

- Resources
- Use case fit

- OSS
- Com
- HG
<table>
<thead>
<tr>
<th>Decision factors</th>
<th>Your Org</th>
<th>homegrown</th>
<th>Open Source</th>
<th>Commercial</th>
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<tbody>
<tr>
<td>IT resources</td>
<td>+++</td>
<td></td>
<td>++</td>
<td>+</td>
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<tr>
<td>Hardware/infrastructure</td>
<td>++</td>
<td></td>
<td>++</td>
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<tr>
<td>Time</td>
<td>+++</td>
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<td>Specific user requirement fit</td>
<td>+++</td>
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<td>Flexibility of workflows</td>
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<tr>
<td>Integration with other systems</td>
<td>++</td>
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<td>++</td>
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<td>Collaborating with peer institutions</td>
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<td>Developer talent</td>
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<td>Financial investment</td>
<td>+++</td>
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Other considerations

- Can you source from Trusted partner?
- Mission alignment
- Is it available as a commodity?
- Opportunity to collaborate?
- Available as a service?
- Is this core to your operation?
• We’ve looked at micro-level decision process
  • For single piece of software
• Pivot now to higher level, macro view
• Examine enterprise level processes/workflows
• View digitization / description / access / preservation as one flow
End-to-End Sequence

- **PLAN**
  - Consulting
  - Training
  - Digitization

- **DESCRIBE**
  - ASpace
  - CSpace

- **MANAGE/ACCESS**
  - DSpace
  - Islandora
  - Hydra
  - ChronAm

- **PRESERVE**
  - Archivematica
  - Fedora
• End-to-End seemed a little too linear
  • Suggests a single process with a beginning and end
• Instead, we were seeing interactions between platforms of all kinds
  • Integrating in almost every fashion
  • Multiple entry points
• So, our thinking progressed to first, a triangle
Three-System Triangle

ArchivesSpace

Drexel

Islandora

Univ. of Michigan

Archivematica

Archidora
But ..... 

- This was still only three platforms 
- So, we put this approach together with the End-2-End model ..... 

- And developed our Circle
The Continuous Circle

Plan

Consulting
Training, Curation, Digitization

Inter-operability
Standardization

Describe
Catalog, finding aids

Access

Common data models

Preserve

A Space / C Space

Fedora / DuraCloud
Permanence

Islandora / DSpace / Hydra
Digital repositories

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16
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