4-5-2016

Dismantle Your Electronic Resources Fund!
Applying The Power of Faceted Classification to
Acquisitions Budget Management.

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Recommended Citation
Savova, Maria and Price, Jason S., "Dismantle Your Electronic Resources Fund! Applying The Power of Faceted Classification to Acquisitions Budget Management." (2016). Library Staff Publications and Research. 44.
https://scholarship.claremont.edu/library_staff/44

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Dismantle Your Electronic Resources Fund!

Applying The Power of Faceted Classification to Acquisitions Budget Management

Maria Savova, Director of Information Resources and Systems, Claremont Colleges Library
Jason Price, Ph.D., Director of Licensing Operations, SCELC Consortium
Budget questions we should be able to answer

1. What (exactly) is the money being spent on?
2. How much money is left to spend this year?
3. How much will be needed in future years?
1. What (exactly) is the money being spent on?
2. How much money is left to spend this year?

Percent of budget Spent by Quarter

- Jul-Sep: 40%
- Oct-Dec: 14%
- Jan-Mar: 34%
- Apr-Jun: 12%
### 3. How much will be needed in future years?

#### Library Budget

<table>
<thead>
<tr>
<th>Year</th>
<th>FY02/03</th>
<th>FY03/04</th>
<th>FY04/05</th>
<th>FY05/06</th>
<th>FY06/07</th>
<th>FY07/08</th>
<th>FY08/09</th>
<th>FY09/10</th>
<th>FY10/11</th>
</tr>
</thead>
</table>

#### Purchase Index

<table>
<thead>
<tr>
<th>Year</th>
<th>FY02/03</th>
<th>FY03/04</th>
<th>FY04/05</th>
<th>FY05/06</th>
<th>FY06/07</th>
<th>FY07/08</th>
<th>FY08/09</th>
<th>FY09/10</th>
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<tbody>
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<td>$2,709,771</td>
<td>$2,908,777</td>
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<td>$3,566,978</td>
<td>$3,804,940</td>
<td>$4,068,805</td>
<td>$4,310,181</td>
<td>$4,527,143</td>
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</tbody>
</table>

#### Journals Inflation

- 58.36%
- 7.20%
- 7.10%
- 15.21%
- 7.73%
- 8.27%
- 8.80%
- 7.70%
- 6.00%

#### Book Inflation

- 28.29%
- 8.70%
- 3.50%
- 3.00%
- 0.40%
- 5.20%
- 4.00%
- 4.00%
- 4.00%

#### Other Inflation

- 13.35%
- 5.10%
- 3.70%
- 3.90%
- 5.10%
- 2.80%
- 5.00%
- 2.30%
- 3.00%

#### Total Inflation

<table>
<thead>
<tr>
<th>Year</th>
<th>FY02/03</th>
<th>FY03/04</th>
<th>FY04/05</th>
<th>FY05/06</th>
<th>FY06/07</th>
<th>FY07/08</th>
<th>FY08/09</th>
<th>FY09/10</th>
<th>FY10/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>6.84%</td>
<td>5.33%</td>
<td>9.29%</td>
<td>5.04%</td>
<td>6.25%</td>
<td>6.49%</td>
<td>5.60%</td>
<td>4.79%</td>
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</tr>
</tbody>
</table>

#### Library Budget Change

<table>
<thead>
<tr>
<th>Year</th>
<th>FY02/03</th>
<th>FY03/04</th>
<th>FY04/05</th>
<th>FY05/06</th>
<th>FY06/07</th>
<th>FY07/08</th>
<th>FY08/09</th>
<th>FY09/10</th>
<th>FY10/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>4.36%</td>
<td>6.67%</td>
<td>7.13%</td>
<td>4.76%</td>
<td>4.76%</td>
<td>0.22%</td>
<td>-5.26%</td>
<td>-4.49%</td>
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</tr>
</tbody>
</table>

#### Purchasing Power Change

<table>
<thead>
<tr>
<th>Year</th>
<th>FY02/03</th>
<th>FY03/04</th>
<th>FY04/05</th>
<th>FY05/06</th>
<th>FY06/07</th>
<th>FY07/08</th>
<th>FY08/09</th>
<th>FY09/10</th>
<th>FY10/11</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>-2.60%</td>
<td>-1.19%</td>
<td>-3.50%</td>
<td>-3.78%</td>
<td>-5.28%</td>
<td>-11.23%</td>
<td>-20.39%</td>
<td>-27.46%</td>
<td></td>
</tr>
</tbody>
</table>
How should acquisitions budgets be designed to best address these questions?
How should acquisitions budgets be redesigned to best address these questions?
What is wrong with this structure? (hint: a budget is a classification scheme!)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Format</th>
<th>Books (Autoship Approval)</th>
<th>Books (Standing Orders)</th>
<th>Serials</th>
<th>Microform</th>
<th>A/V</th>
<th>Electronic Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art &amp; Art History</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Traditional library budget acquisitions funds

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Acquisition Mode</th>
<th>Print Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books (autoship)</td>
<td>acquisition mode</td>
<td>print books autoship</td>
</tr>
<tr>
<td>Books (standing orders)</td>
<td>acquisition mode</td>
<td>print books standing orders</td>
</tr>
<tr>
<td>Serials</td>
<td>material type</td>
<td>print journals ongoing</td>
</tr>
<tr>
<td>Microform</td>
<td>material type</td>
<td>physical microform one-time</td>
</tr>
<tr>
<td>A/V</td>
<td>material type</td>
<td>physical media one-time</td>
</tr>
<tr>
<td>Electronic resources</td>
<td>material format</td>
<td>electronic mixture of material types and mixture of acq. modes</td>
</tr>
</tbody>
</table>

Subject area: CLAREMONT COLLEGES LIBRARY • VITAL
Dismantling the E-resources fund

- E-journal subscriptions
- Non-journal database subscriptions
- E-book subscriptions
- Streaming media subscriptions
- Journal backfile purchases
- Primary source purchases
- E-book purchases
- Streaming media purchases
- E-book standing orders

Colour = format
Shape = material type
Pattern = acquisition mode
Traditional budget structure

Hierarchy

https://www.cloudset.net/hc/en-us/articles/420212-Faceted-Knowledge-Base
Budget structure based on Faceted Classification Schema

Each of the facets is a separate taxonomy, comprised by “clearly defined, mutually exclusive, and collectively exhaustive” attributes (Taylor, 2004).
Recommended new Acquisition budget structure

Facets - the four core aspects of information resources acquisitions:

1. **cost center** (subject/discipline/administrative unit)
2. **material type** (book/journal/primary source, etc.)
3. **acquisition mode** (purchase/subscription, etc.)
4. **material format** (print/electronic)
Redesign steps

1. Identifying the attributes for each facet
2. Assigning one attribute from each facet to a fund to form the new structure
3. Reassigning existing ongoing acquisitions to the right funds
4. Mapping incoming acquisitions to the new funds
Identifying the attributes for each facet
Discipline as the cost center facet

• Large administrative library unit: branch, discipline group, large subject area, etc.

• CCL’s Cost centers, based on disciplines and library admin units:
Combining attributes into funds
Our fund codes

<table>
<thead>
<tr>
<th>Cost center</th>
<th>Material type</th>
<th>Acquisition mode</th>
<th>Material format</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ah)</td>
<td>(book)</td>
<td>(autoship)</td>
<td>(print)</td>
</tr>
<tr>
<td>Fund code</td>
<td>Discipline</td>
<td>Material type</td>
<td>Acquisition mode</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------</td>
<td>---------------</td>
<td>------------------</td>
</tr>
<tr>
<td>1ahbde</td>
<td>Arts &amp; Humanities</td>
<td>Book</td>
<td>Demand</td>
</tr>
<tr>
<td>1ahbfe</td>
<td>Arts &amp; Humanities</td>
<td>Book</td>
<td>Firm</td>
</tr>
<tr>
<td>1ahboe</td>
<td>Arts &amp; Humanities</td>
<td>Book</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1ahbse</td>
<td>Arts &amp; Humanities</td>
<td>Book</td>
<td>Standing</td>
</tr>
<tr>
<td>1ahjfe</td>
<td>Arts &amp; Humanities</td>
<td>Journal/JDB</td>
<td>Firm</td>
</tr>
<tr>
<td>1ahjoe</td>
<td>Arts &amp; Humanities</td>
<td>Journal/JDB</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1ahnfe</td>
<td>Arts &amp; Humanities</td>
<td>NonJourDB</td>
<td>Firm</td>
</tr>
<tr>
<td>1ahnoe</td>
<td>Arts &amp; Humanities</td>
<td>NonJourDB</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1asjfe</td>
<td>Asian Studies</td>
<td>Journal/JDB</td>
<td>Firm</td>
</tr>
<tr>
<td>1asjoe</td>
<td>Asian Studies</td>
<td>Journal/JDB</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1asnfe</td>
<td>Asian Studies</td>
<td>NonJourDB</td>
<td>Firm</td>
</tr>
<tr>
<td>1asnoe</td>
<td>Asian Studies</td>
<td>NonJourDB</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1mdbde</td>
<td>Multiple Disciplines</td>
<td>Book</td>
<td>Demand</td>
</tr>
<tr>
<td>1mdbfe</td>
<td>Multiple Disciplines</td>
<td>Book</td>
<td>Firm</td>
</tr>
<tr>
<td>1mdboe</td>
<td>Multiple Disciplines</td>
<td>Book</td>
<td>Ongoing</td>
</tr>
<tr>
<td>1mdbse</td>
<td>Multiple Disciplines</td>
<td>Book</td>
<td>Standing</td>
</tr>
<tr>
<td>1mdjfe</td>
<td>Multiple Disciplines</td>
<td>Journal/JDB</td>
<td>Firm</td>
</tr>
</tbody>
</table>
All possible facet combinations = 240 funds
Meaningful facet combinations = 126 funds
Books

- Print
- Electronic

- Firm orders
- Autoship
- Standing orders
- DDA
- Ongoing
- Autoship
- Firm orders
- Standing orders
- Ongoing subscriptions
- DDA
Journals and journal databases

- Print
  - Ongoing subscriptions
  - Firm orders
  - Autoship
  - Standing orders
  - DDA

- Electronic
  - Ongoing subscriptions
  - Firm orders
  - DDA
  - Autoship
  - Standing orders
Non-journal databases

• Electronic
  – Ongoing subscriptions
  – Firm orders
  – DDA

• Physical
  – Firm orders
  – DDA

Media

• Electronic
  – Ongoing
  – Firm orders
  – DDA

• Physical
  – Firm orders
  – DDA
Meaningful facet combinations = 126 funds
CCL’s budget funds = 68 funds
How does it compare with before?

In two stages, we went from two-dimensional budget with 199 funds (in FY06) to four-dimensional faceted structure with only 68 (in FY13)!
Budget questions we can now answer easily

1. What (exactly) is the money being spent on?
2. How much money is left to spend this year?
3. How much will be needed in future years?
Standard by mat. type or discipline
New facets at a single click

by format

Electronic 85.7%
Print 14.0%
Physical 0.4%

by acquisition mode

Ongoing 71.2%
Firm 16.1%
Standing 3.8%
Autoship 5.9%
Demand 3.0%
Combining Facets

Material Type, Format, and Discipline

**All disciplines**
- Journal/JDB Print: 1.8%
- Book Electronic: 10.9%
- Book Print: 16.4%
- Journal/JDB Electronic: 70.9%

**STEM**
- Journal/JDB Print: 0.4%
- Book Electronic: 9.4%
- Book Print: 3.9%
- Journal/JDB Electronic: 86.3%

**A&H**
- Journal/JDB Print: 3.8%
- Book Electronic: 8.7%
- Book Print: 41.4%
- Journal/JDB Electronic: 46.1%
All four facets can reveal strategy

Limited to Mat Type: [Book], Disc: [Arts & Humanities]
All four facets can reveal strategy

Limited to Mat Type: [Book], Disc: [STEM]

- E-books: 70.43%
- P-books firm: 15.34%
- P-books autoship: 9.82%
- P-books demand: 0.61%
- Standing: 39.42%
- Ongoing: 5.48%
- Firm: 22.33%
- Demand: 3.19%

CLAREMONT COLLEGES LIBRARY • VITAL
Budget questions we can now answer easily

1. What (exactly) is the money being spent on?
2. How much money is left to spend this year?
3. How much will be needed in future years?
Budget funds tree

Materials

Ongoing
Approval
Standing

Firm + Demand*

Discretionary funds

Non-discretionary funds

Books
- FP
- FE
- DP
- DE

Media
- FP
- FE
- DP
- DE

Journal
- FE

Non-journal
- FE
<table>
<thead>
<tr>
<th>Material type</th>
<th>Acquisition mode</th>
<th>Format</th>
<th>Amount Budgeted</th>
<th>Amount Expended</th>
<th>Remaining Fund %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book</td>
<td>Demand</td>
<td>Electronic</td>
<td>100.00%</td>
<td>82.70%</td>
<td>17.30%</td>
</tr>
<tr>
<td>Book</td>
<td>Firm</td>
<td>Electronic</td>
<td>100.00%</td>
<td>8.30%</td>
<td>91.70%</td>
</tr>
<tr>
<td>Book</td>
<td>Demand</td>
<td>Print</td>
<td>100.00%</td>
<td>34.82%</td>
<td>65.18%</td>
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<tr>
<td>Book</td>
<td>Firm</td>
<td>Print</td>
<td>100.00%</td>
<td>38.71%</td>
<td>61.29%</td>
</tr>
<tr>
<td>Journal/JDB</td>
<td>Firm</td>
<td>Electronic</td>
<td>100.00%</td>
<td>39.89%</td>
<td>60.11%</td>
</tr>
<tr>
<td>NonJourDB</td>
<td>Firm</td>
<td>Electronic</td>
<td>100.00%</td>
<td>13.09%</td>
<td>86.91%</td>
</tr>
<tr>
<td>Media</td>
<td>Demand</td>
<td>Electronic</td>
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<td>3.94%</td>
<td>96.06%</td>
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<tr>
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<td>Electronic</td>
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<td>98.53%</td>
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<tr>
<td>Media</td>
<td>Demand</td>
<td>Physical</td>
<td>100.00%</td>
<td>190.00%</td>
<td>-90.00%</td>
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<tr>
<td>Media</td>
<td>Firm</td>
<td>Physical</td>
<td>100.00%</td>
<td>71.87%</td>
<td>28.13%</td>
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<tr>
<td>Firm + On demand</td>
<td></td>
<td></td>
<td>100.00%</td>
<td>22.92%</td>
<td>77.08%</td>
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**Standing orders**

<table>
<thead>
<tr>
<th>Material type</th>
<th>Acquisition mode</th>
<th>Format</th>
<th>Amount Budgeted</th>
<th>Amount Expended</th>
<th>Remaining Fund %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book</td>
<td>Standing</td>
<td>Electronic</td>
<td>100.00%</td>
<td>81.23%</td>
<td>18.77%</td>
</tr>
<tr>
<td>Book</td>
<td>Standing</td>
<td>Print</td>
<td>100.00%</td>
<td>37.17%</td>
<td>62.83%</td>
</tr>
<tr>
<td>Standing orders</td>
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<td></td>
<td>100.00%</td>
<td>63.11%</td>
<td>36.89%</td>
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</table>

**Autoship**

<table>
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<tr>
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<th>Format</th>
<th>Amount Budgeted</th>
<th>Amount Expended</th>
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</thead>
<tbody>
<tr>
<td>Book</td>
<td>Ongoing</td>
<td>Electronic</td>
<td>100.00%</td>
<td>20.31%</td>
<td>79.69%</td>
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<tr>
<td>Journal/JDB</td>
<td>Ongoing</td>
<td>Electronic</td>
<td>100.00%</td>
<td>23.05%</td>
<td>76.95%</td>
</tr>
<tr>
<td>Journal/JDB</td>
<td>Ongoing</td>
<td>Print</td>
<td>100.00%</td>
<td>17.18%</td>
<td>82.82%</td>
</tr>
<tr>
<td>NonJourDB</td>
<td>Ongoing</td>
<td>Electronic</td>
<td>100.00%</td>
<td>75.16%</td>
<td>24.84%</td>
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<tr>
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<td>Electronic</td>
<td>100.00%</td>
<td>42.21%</td>
<td>57.79%</td>
</tr>
<tr>
<td>Ongoing</td>
<td></td>
<td></td>
<td>100.00%</td>
<td>34.06%</td>
<td>65.94%</td>
</tr>
</tbody>
</table>

**Total materials**

|                |                   |             | 100.00%         | 32.69%          | 67.31%          |
Budget questions we can now answer easily

1. What (exactly) is the money being spent on?
2. How much money is left to spend this year?
3. How much will be needed in future years?
Communicating impact of inflation

- Year 1: 58% 18% 3%
  - Print journal subscriptions (4.08%)
  - E-journal subscriptions (5.40%)
  - "Discretionary" funds

- Year 2: 20% 15% 4%
  - E-book subscriptions (8.49%)

- Year 3: 10% 19% 5%
  - Non-journal e-subscriptions (3.05%)

- Year 4: 66% 4%
  - Total budget (2%)

- Year 5: 75%

- Year 6, Year 7, Year 8, Year 9: -$206,078
Questions and Discussion

Your questions

• Discussed in more detail in our MS
  – “Giving up” on subjects
  – Predictability within each budget
  – Allocation principles and procedure
  – Implementing the new structure