AMC Libraries: Current Footprint

AMC Libraries, Knowledge Assets, and Research Support is Currently Stove-Piped.

Most AMC Locations Have No Library Research Support

Major Research Libraries – 2
- ARL (2 sites)
- RSIC
Field/Specialized Libraries – 8
- DAC
- TARDEC Warren
- Benet Labs
- Tobyhanna
- Ramsley Tech
- Picatinny
- Edgewood
- HQAMC

Installations
- RDECOM
- CMA
- CECOM
- AMCOM
- JMC
- TACOM

Benet Labs
Tobyhanna Tech Library
Tobyhanna AD
Ramsley Tech Library
Soldier System Center
Picatinny Tech Res. Ctr. Picatinny Arsenal
Edgewood Chemical-Biological Center
Army Research Lab-AFRL
Army Research Lab-Aleph
Redstone Arsenal
RSIC
HQAMC

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## AMC Libraries Historical Perspective

<table>
<thead>
<tr>
<th>Budget</th>
<th>Personnel Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY12 - $13,635,171</td>
<td>FY12 - 41</td>
</tr>
<tr>
<td>FY11 - $14,494,595</td>
<td>FY11 - 47</td>
</tr>
<tr>
<td>FY10 - $13,703,724</td>
<td>FY10 - 49</td>
</tr>
<tr>
<td>FY09 - $11,556,640</td>
<td>FY09 - 56</td>
</tr>
</tbody>
</table>

**Trend:** Increase = 15%

<table>
<thead>
<tr>
<th>Customer Service Actions</th>
<th>Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY12 – 1.8M</td>
<td>-Books (hardcopy) – 485,566</td>
</tr>
<tr>
<td>FY11 – 1.4M</td>
<td>-Books (electronic) – 40,671</td>
</tr>
<tr>
<td>FY10 – 1.3M</td>
<td>-Periodical Titles (H) – 5,083</td>
</tr>
<tr>
<td>FY09 – 1.4M</td>
<td>-Periodical Titles (E) - 9,264</td>
</tr>
<tr>
<td></td>
<td>-Tech Reports (U) – 477,841</td>
</tr>
<tr>
<td></td>
<td>-Tech Reports (C) - 61,314</td>
</tr>
<tr>
<td></td>
<td>-Misc - 2,021,995</td>
</tr>
<tr>
<td></td>
<td>(M-film; Aperture cards; Lab notes, etc.)</td>
</tr>
<tr>
<td></td>
<td>-Physical space – 2012 = @90K sq.ft.</td>
</tr>
<tr>
<td></td>
<td>(2008/2009 = 140K sq. ft. Figures are from RSIC; ARL; and Picatinny)</td>
</tr>
</tbody>
</table>

**Trend:** Decrease = 27%

Registered Users = 14K+

**Trend:** Decrease = 30%

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**Promote a Lean Culture in All We Do**

*RSIC Stats 2005-2012*

**Personnel:**
- 2005 - 28
- 2006 - 25
- 2007 - 15
- 2008 - 15
- 2009 - 13
- 2010 - 13
- 2009 - 11
- 2012 - 11

=39% Reduction

**Budget:**
- 2005 - $3.259M
- 2006 - $3.650M
- 2007 - $3.024M
- 2008 - $3.585M
- 2009 - $3.024M
- 2010 - $3.025M
- 2011 - $2.508M
- 2012 - $2.201M

=67% Reduction

**Year:**

<table>
<thead>
<tr>
<th>Year</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visitors</td>
<td>7,871</td>
<td>5,711</td>
<td>5,129</td>
<td>3,914</td>
<td>3,444</td>
<td>2,912</td>
<td>2,480</td>
<td>1,848</td>
</tr>
<tr>
<td>circulation</td>
<td>6,038</td>
<td>4,408</td>
<td>3,819</td>
<td>3,179</td>
<td>988</td>
<td>2,331</td>
<td>2,718</td>
<td>1,919</td>
</tr>
<tr>
<td>Short Reference</td>
<td>53,088</td>
<td>14,919</td>
<td>2,774</td>
<td>446</td>
<td>18,168</td>
<td>19,026</td>
<td>12,802</td>
<td>5,949</td>
</tr>
<tr>
<td>Long Reference</td>
<td>8,068</td>
<td>35,785</td>
<td>3,199</td>
<td>1,364</td>
<td>11,695</td>
<td>2,405</td>
<td>1,152</td>
<td>5,188</td>
</tr>
<tr>
<td>Data Base Queries/Searches</td>
<td>56,930</td>
<td>66,703</td>
<td>77,161</td>
<td>66,838</td>
<td>62,255</td>
<td>38,393</td>
<td>56,098</td>
<td>58,067</td>
</tr>
<tr>
<td>Items Viewed in Subscription Svcs</td>
<td>72,842</td>
<td>73,539</td>
<td>86,425</td>
<td>74,135</td>
<td>58,417</td>
<td>43,692</td>
<td>122,407</td>
<td>72,205</td>
</tr>
</tbody>
</table>
Google Syndrome: The Challenge


2. "The Factors that Affect the Precision of Mechanical Tests" STP1025-EB. The individual articles of the highest interest to me are: "Factors that Affect the Accuracy of Indentation Hardness Tests" STP24011S "An Alternative Method for Measuring Microindentations" STP24010S

3. "Consolidated Product Statistics Rotorcraft Forecast - Worldwide This spread sheet includes producer, address, contact points, rotorcraft mission cost, list of estimated production from 2013 for the next 10 Year plus the estimated costs. Names of individual systems and markets for rotorcraft.” (Note: I'll grant you an hour on this one)


5. ASTM D7426 - 08 Standard Test Method for Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound.


7. "Attention enhances synaptic efficacy and the signal-to-noise ratio in neural circuits" Farran Briggs, George R. Mangun, & W. Martin Usrey. (Note: Must return the citable, version of record)

Good luck!
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AMC Technical Libraries as a Critical Knowledge Asset

Cost Effective

- 1.8M Customer Service Actions in FY12, accomplished by 41 AMC Librarians and Staff
- 14K+ Registered AMC Customers
- Budget: $13,635,171 — ROI = 296% to AMC
- Proven Programmatic Cost Avoidance of $5M/yr (Consolidation of standards/spec procurement)

Further Initiatives

- Single Server Integrated Library System
- Opportunity for further cost avoidance through consolidated procurement
- Tie-in with Virtual Lab Initiative

Unique Services

- Most concentrated Aerospace/Aviation/Missile/Ground/Weapons/Soldier Systems research collection and support in the world, valued in the $Billions
- Primary customers are AMC Scientists, Engineers, and Life Cycle Maintenance professionals
- Dedicated to the AMC Mission and Soldier Support
- Proposal to become the National Library for Scientific Research and Development

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Requirements/Benefits

Opportunity Cost
- 14K Registered Customers / 47 Library Staff
- 1.4M Customer Service Actions in FY11
- Annual Opportunity Cost for AMC = $18.8M per 1K Scientists/Engineer saving 4 hours searching per week
- ($82/hr Engineer vs $52/hr Librarian)

Research Experience
- Experts in Information Content Management
- Expert Research Support
- Prepositioned Research Content
- FY11 - 918,006 downloads from 273,571 searches (3.35 hits per search)

Support
- Single Server Initiative CBA/Econ Analysis/IT Support on board
- AMCIO / AMCTO Supports
- RDECOM

CONSOLIDATION OPPORTUNITIES:
- SERVERS
- CONTRACTS
- RESEARCH CENTERS
- RESEARCH MATERIALS
- EXPERT RESEARCH SUPPORT

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AMC Library Transition

11DEC13
This CBA recommends that course of action (COA) 2, AMC Libraries be moved to consolidated procurement footing.

Cost/benefit summary of this COA is:

**COA 2**: 5 year project life.

- **Net Benefits** - $9,933,917
- **Total Benefits** - $13,073,783 (Current Dollars)
- **New Investment Cost** - $3,139,866.00 (Current Dollars)
- **Net Present Value (NPV)** - $8,844,554 (Discounted Dollars)
- **Benefit to Investment Ratio (BIR)** - 4.180
- **Savings to Investment Ratio (SIR)** - 4.180
- **Payback** - 1.613 years

The value proposition of this COA and this overall CBA consists of a balance of cost savings, capability, impact on mission, proof of concept, and customer service.

- **Capability**: A consolidated, mostly digital, AMC Library service allows the customer to perform multiple search, retrieval, and production functions from the desktop through a single portal.
- **Impact**: Hard cost impact is noted above. Secondary impact is reduced research process time and reduced physical space requirements:
  - **1. Process Time**: Reduced search/retrieval time due to efficiency of scale produces $9.4M/year cost savings for AMC. Or, in other words $755K opportunity costs per month. (Based on 2 hours search/retrieval saved per week x 1,000 engineers.)
  - **2. Physical Space**: Analysis of hard copy materials in terms of circulation within AMC Libraries reveals that only 3.15% circulates per year. We anticipate 10K square feet of physical space saved through reduction of hard copy collections. That space produces a cost value of $2.4M/year (Based on DoD Unit Price Guide; UFC 3-701-12, i.e. $238.90 sq. ft.)
- **Proof**: Consolidation of industry standards/specifications in AMC nets a hard cost savings of $5M per year through reduction of contract actions and reduced vendor costs.
- **Cost**: Cost savings are had in terms of reducing redundant purchases, and purchasing most S&T journal articles on as-needed basis.

**Total Value Proposition**: $84M over 5 year life cycle.
### Budget
- Anticipate flat funding.
- Consolidate all multiple contracts
  - Single Server (Consolidation of AMC Library online catalogs) nets $1.6M/yr.
- Proven: Stds/Specs procurement validated at $5M/yr cost savings
- All purchases cost/benefit tested
  - e.g. Subscriptions: usage must outweigh cost
  - e.g. Hardcopy only when not digitally available

### Personnel Strength
- Anticipate reduced personnel strength
- Reset task focus:
  - Embedded Library staff
  - Enable research vice “Do” research
  - Right Information, Just in Time
  - Enterprise vice Local focus

### Customer Service Actions
- Access over Ownership
- More research power at RDT&E desktop
- Utilize discovery tools that cover the entire spectrum of RDT&E
- Utilize enterprise portal for current awareness; trends; developments based on customer profiles
- Emulate RSIC charter to support tenants, expanded to enterprise level

### Assets
- Consolidate personnel/online catalogs/funding to create enterprise AMC Library
- Anticipate reduced personnel and physical assets in line with fiscal reality
- Increase digital footprint
- Stay ahead of requirements
- Aggregation/Consolidation of Assets
- KM Interface