Libraries and Broadband: Becoming Radical Change Agents in Our Communities

R. David Lankes
Slides & Screencast @ www.DavidLankes.org
An Invitation to The Future
From Collection to Scholarship
From Collection to Scholarship

From Dissemination to Action
From Collection to Scholarship

From Dissemination to Action

From Sharing to Social Good
Knowledge as Thing versus Knowledge as Action
An Invitation to The Future
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“The Best Way to Predict the Future is to Invent It”
- Alan Kay
Today

• Education

• Unquiet Library

• Joyce Valenza
Today

• Government
• Department of Justice
• Illinois State Library
To day

- Government
- Department of Justice
- Illinois State Library
Today

- Economic development
- Entrepreneurium
- I Adapt (Rural Illinois)
Today

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- Entrepreneurium
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Innovation
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Entrepreneurship

Capital

Risk
Innovation

Entrepreneurship

Capital

Risk

Networks
Innovation

Entrepreneurship

Capital

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Networks

Access to the Multitudes
Marketplace of Ideas

Innovation

Entrepreneurship

Capital

Risk

Networks

Access to the Multitudes

Marketplace of Ideas
Cutting Edge

- eScience
- Transportation
• Soon Every Mile of Road will Generate a Gigabyte of data a day

• Road Sensors, Real-Time Traffic Data, Weather Information, Toll Data, Car Black Boxes

• It is assumed that this will become a gigabyte an hour. As there are 3.5 million miles of highways in the U.S. that would be 3.3 petabytes of data per hour, or 28 exabytes per year.
Exabyte?!

<table>
<thead>
<tr>
<th>Unit</th>
<th>Approximate Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Byte</td>
<td>1 byte: a single character;</td>
</tr>
<tr>
<td>Kilobyte</td>
<td>2 Kilobytes: A typewritten page;</td>
</tr>
<tr>
<td>Megabyte</td>
<td>2 Megabytes: A high resolution photograph;</td>
</tr>
<tr>
<td>Gigabyte</td>
<td>2 Gigabytes: 20 meters of shelved books</td>
</tr>
<tr>
<td>Terabyte</td>
<td>2 Terabytes: An academic research library</td>
</tr>
<tr>
<td>Petabyte</td>
<td>2 Petabytes: All US academic research libraries;</td>
</tr>
<tr>
<td>Exabyte</td>
<td>5 Exabytes: All words ever spoken by humans.</td>
</tr>
<tr>
<td>Zettabyte</td>
<td></td>
</tr>
<tr>
<td>Yottabyte</td>
<td></td>
</tr>
</tbody>
</table>

http://www2.sims.berkeley.edu/research/projects/how-much-info/datapowers.html
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Implications

• Co-Ownership
• Of the People, Not For the People
• Libraries as Place of Production
• Librarians Unbound from the Library
• Go To the Conversation
• Its All About Learning
• Its All About Innovation and Change
New Tools, Same Mission

- Buildings, Books, Broadband are Tools of Librarians - Means To an End

- End: Improved Society, By Improving State, By Improving the Community, By Improving the Individuals, By Improving Ourselves

“Biblioburro”
