Museums, Libraries, and 21st Century Skills
What will learning look like in the future?
Question #1

What will the world be like twenty or so years from now when the children who visit your institution have left school and are out in the world?
Question #2

What skills will these children need to be successful in this world you have imagined twenty years from now?
Question #3

What were the conditions that made your high-performance learning experiences so powerful?
What would learning be like if it were designed around your answers to the first three questions?
That Used to Be Us

- Globalization
- IT Revolution
- From “connected” to “hyper-connected”
The World is Flat -- Published 2005

- No mention of Facebook

“... ‘Twitter’ was still a sound, the ‘cloud’ was something in the sky, ‘3G’ was a parking space, ‘applications’ were what you sent to college, and ‘Skype’ was a typo.”
### 21st Century Societal Shifts

<table>
<thead>
<tr>
<th></th>
<th>20th Century</th>
<th>21st Century</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Jobs / Lifetime</td>
<td>1-2 jobs</td>
<td>10-15 jobs</td>
</tr>
<tr>
<td>Job Requirement</td>
<td>Mastery of one field</td>
<td>Simultaneous mastery of many rapidly changing fields</td>
</tr>
<tr>
<td>Job competition</td>
<td>Local</td>
<td>Global</td>
</tr>
<tr>
<td>Work Model</td>
<td>Routine, hands-on, fact based</td>
<td>Non-routine, technical, creative, interactive</td>
</tr>
<tr>
<td>Education Model</td>
<td>Institution centered, formal degree attainment is primary goal</td>
<td>Learner centered, self-directed and lifelong knowledge, and skill acquisition are primary goals</td>
</tr>
<tr>
<td>Organizational Culture</td>
<td>Top down</td>
<td>Multi-directional (bottom-up, top down, side to side, etc.)</td>
</tr>
</tbody>
</table>
Increase in Mobile Technology

http://www.tomorrow.org/speakup/
Advances in Learning Science
New Research About Early Learning

The Campaign for Grade-Level Reading
3rd Grade Reading Success Matters
Recognition of Lifelong Learning

Increased Dropout Rates
Growing DIY and Maker Culture
21st Century Skills

- Learning & Innovation Skills
- Information, Media, & Technology Skills
- Life & Career Skills
In Other Words, the “4 C’s”

- Creativity
- Collaboration
- Communication
- Critical Thinking
21st Century Themes

• Global awareness
• Financial, economic, business, and entrepreneurial literacy
• Civic literacy
• Health literacy
• Environmental literacy
IMLS Initiative

- Museums, Libraries, and 21st Century Skills report
- Self-assessment Tool [www.imls21stcenturyskills.org](http://www.imls21stcenturyskills.org)
- Community Learning Scan
# The 21st Century Museum/Library Shift

<table>
<thead>
<tr>
<th>20th Century Museum/Library</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Primarily content driven</td>
<td>Combination of audience and content driven</td>
</tr>
<tr>
<td>Mostly tangible objects</td>
<td>Tangible and digital objects</td>
</tr>
<tr>
<td>One-way</td>
<td>Multi-directional</td>
</tr>
<tr>
<td>Focus on presentation and display</td>
<td>Focus on audience engagement, experiences</td>
</tr>
<tr>
<td>Acts independently</td>
<td>Acts in highly collaborative partnerships</td>
</tr>
<tr>
<td>Located in community</td>
<td>Embedded in community</td>
</tr>
<tr>
<td>Learning outcomes assumed, implied</td>
<td>Learning outcomes purposeful</td>
</tr>
</tbody>
</table>
Making the Learning Connection

• Community Workshops
  • Baltimore
  • Columbia
  • San Francisco
  • Miami

• Webinars
• Expanded Web Content

www.imls21stcenturyskills.org
IMLS Grant Opportunities

- Sparks!
- National Leadership Grants
- Museums for America
- Native American/Native Hawaiian Museum Services Program
Columbus Museum of Art (OH)

- Center for Creativity
- Summit to create a statewide conversation about 21st century learning
Children’s Museum of Houston (TX)

• Training program to increase the ability of exhibit facilitators to use mobile technologies to engage visitors
• In partnership with NY Hall of Science, OMSI, and Sciencenter
San Angelo Museum of Fine Arts (TX)

- Interdisciplinary program of art and science focused on water conservation and environmental science for middle school students
- In partnership with the school district and the Upper Colorado River Authority
Minnesota Historical Society (MN)

• Field trip model showing how museums can use technology with “digitally native” students to create self-directed, personalized experiences
• In partnership with four Minnesota schools
Mid-America Arts Alliance (MO)

- Regional professional training initiative in AR, KS, MO, NE, OK and TX
- Focus on strategic planning for small, rural museums guided by the 21st Century Skills initiative to meet long-term institutional and community needs
National Broadband Plan: Connecting America

- Expand digital educational content
- Expand online learning systems
- Promote digital literacy
- IMLS Framework for Digitally Inclusive Communities
"...a comprehensive infrastructure for learning is necessary to move us beyond the traditional model of educators and students in classrooms to a learning model that brings together teaching teams and students in classrooms, labs, libraries, museums, workplaces, and homes – anywhere in the world where people have access devices and an adequate Internet connection."

IMLS-MacArthur Foundation Partnership: Learning Labs

• National grant competition to fund the creation of up to 30 learning labs in libraries and museums across the country.

• Based on Chicago Public Library’s YOUmedia Center.
Chicago Public Library: YOUmedia Center
The Learner: Connected Learning

“All learners will have engaging and empowering learning experiences both in and out of school that prepare them to be active, creative, knowledgeable, and ethical participants in our globally networked society.”

-- Learning Powered by Technology, November 2010

• 24/7, Anytime, Anywhere
• Motivation, curiosity, self-directed learning
• New skills and competencies
• New subjects
The Museum Professional: Connected Teaching

- Facilitator/Coach/Collaborator/Knowledge Navigator
- Coherent, collaborative, continuous lifelong learning
- Communities of practice/online learning communities
- Learning about learning
- New skills and competencies
- New subjects
Thank you!

- [www.imls.gov/21stcenturyskills](http://www.imls.gov/21stcenturyskills)
- [www.imls21stcenturyskills.org](http://www.imls21stcenturyskills.org)