

Making THE Learning Connection



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?





Question #4

What would learning be like if it were designed around your answers to the first three questions?





“For us to grow, we have to educate people to do jobs that don’t yet exist, which means we have to invent them and train people to do them at the same time. That is harder, and it is why we need everyone to aspire to be a creative creator or creative server.”

Thomas Friedman and Michael Mandelbaum, *That Used to Be Us*, pp. 137 (2011)





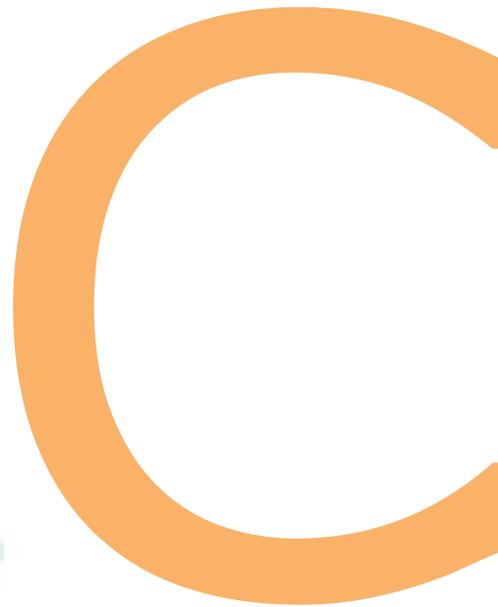
What are 21st Century Skills?



P21 Strategic Council Members



<http://www.p21.org>



creativity

collaboration

communication

critical Thinking





Visual Literacy

Basic Literacy

Creativity & Innovation

Critical Thinking & Problem Solving

Learning & Innovation Skills

Scientific and Numerical Literacy

Cross-Disciplinary Thinking

Communication & Collaboration





Media Literacy

Information Literacy

Information, Media & Technology Skills

ICT (Information, Communications & Technology) Literacy





Flexibility & Adaptability

Initiative & Self-Direction

Social & Cross-Cultural Skills

Life & Career Skills

Productivity & Accountability

Leadership & Responsibility





Global Awareness

Civic Literacy

Environmental Literacy

21st Century Themes

Health Literacy

Financial, Economic, Business, & Entrepreneurial Literacy





“In the 21st century...expertise is less about having a stockpile of information or facts at one’s disposal and increasingly about knowing how to find and evaluate information on a given topic”

-Douglas Thomas and John Seely Brown, *A New Culture of Learning: Cultivating the Imagination in a World of Constant Change* (2011)





Why are 21st Century Skills Important?





“All of these qualities—**empathy, discipline**, the capacity **to solve problems**, the capacity to **think critically**—these skill don’t just change how the world sees u. **They change how we see the ourselves**. They allow each of us to seek out new horizons and new opportunities with confidence—with the knowledge the we’re ready; that we can face obstacles and challenges and unexpected setbacks. **That’s the power of...education.**”

-President Obama, remarks to Booker T. Washington Graduates, Memphis, TN, May 16, 2011





21st Century Societal Shifts

| | 20 th Century | 21 st Century |
|-------------------------------|---|--|
| # Jobs/Lifetime | 1-2 Jobs | 10-15 jobs (US Dept. of Labor 2004) |
| Job Requirement | Mastery of one field | Simultaneous mastery of many rapidly changing fields |
| Job Competition | Local | Global |
| Work Model | Routine; hands-on; fact based | Non-routine; technical; creative; interactive |
| Education Model | Institution centered; forma degree attainment is primary goal | Learner centered; self-directed, lifelong learning is primary goal |
| Organizational Culture | Top down | Multi-directional (bottom-up, top down, side to side, etc.) |



What are the most important skillsets students leaving high school need to have to thrive in college and life?

Dennis Maple, President of ARAMARK Education, and Larry Merlo, CEO of CVS Caremark Corporation say:

- **Critical Thinking**
- **Creativity and innovation**
 - **Resiliency**
 - **Communication**
 - **Collaboration**

Morning Plenary discussion, 2012 Building a Grad Nation Summit, Washington, DC

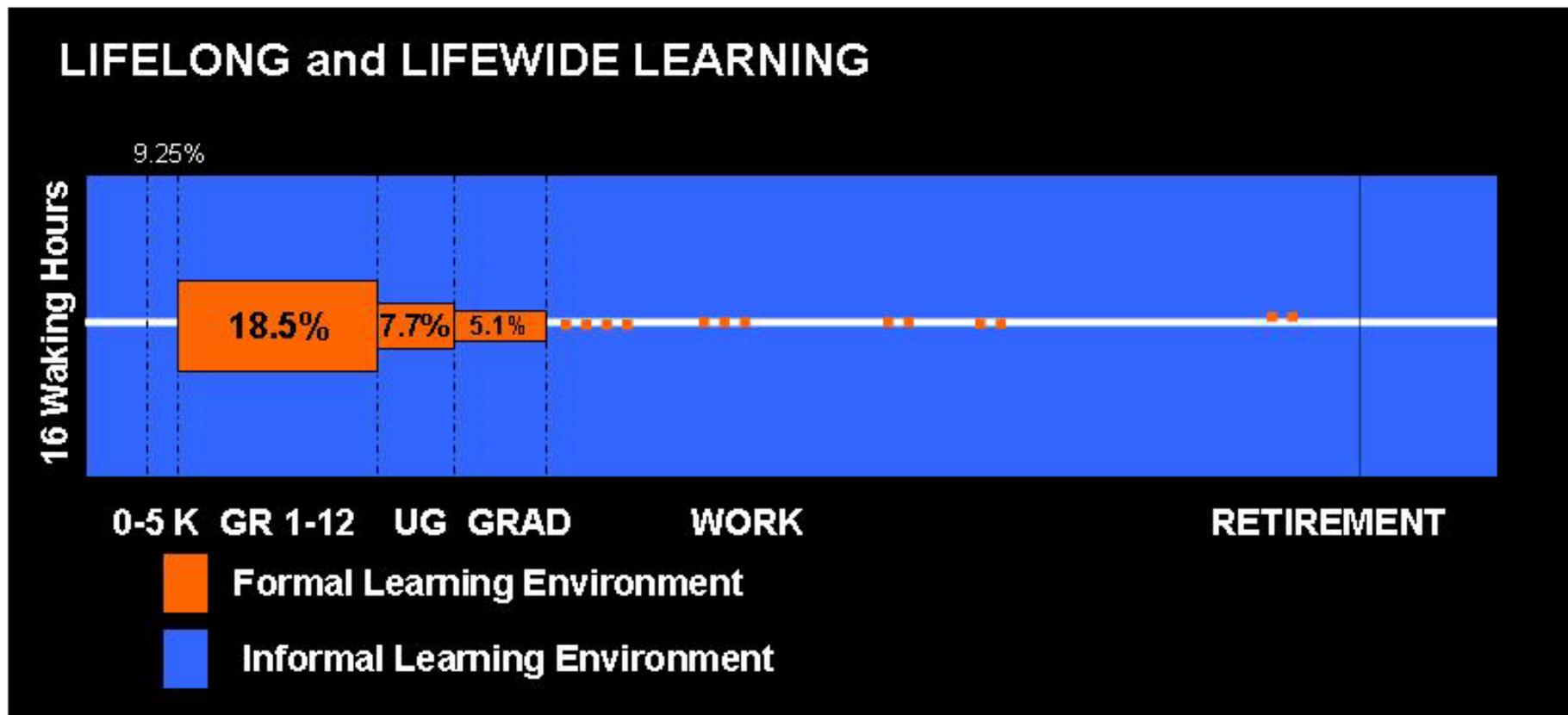


“Today's technology-enabled, information-rich, deeply interconnected world means learning not only can – but *should* – happen anywhere, anytime. We need to recognize these experiences, whether the environments are physical or online, and whether learning takes place in schools, colleges or adult education centers, or in afterschool, workplace, military or community settings.”

Secretary of Education, Arne Duncan, at 4th Annual Launch of the MacArthur Foundation Digital Media and Lifelong Learning Competition (9/15/11)



Recognition of Lifelong Learning



-Banks et al. "Learning in and out of school in diverse environments..." Seattle: NSF LIFE Center and University of Washington Center for Multicultural Education. 2006.



From “Connected” to “Hyper-Connected”

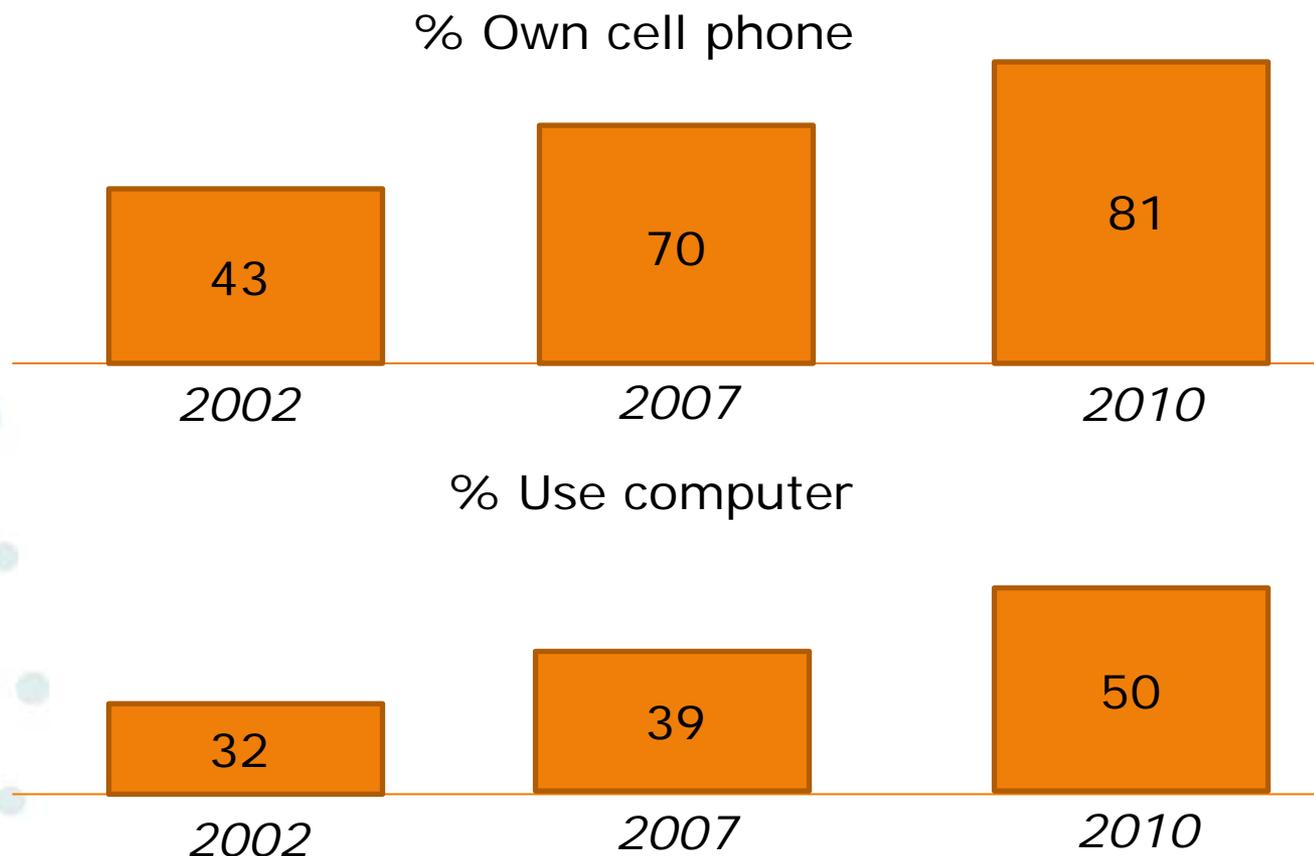
Back in 2005,

“... ‘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.”

From *That Used to Be Us* (2011) by Thomas Friedman and Michael Mandelbaum



Cell Phone & Computers Increasingly Common



Based on median % across the 16 nations where 2002, 2007 and 2010 data are available. PEW RESEARCH CENTER Q62 & Q65



The 21st Century Museum/Library Shift

| 20 th Century Museum/Library | 21 st Century Museum/Library |
|---|--|
| Primarily content driven | Combination of audience and content driven |
| Mostly tangible objects | Tangible and digital objects |
| One-way | Multi-directional |
| Focus on presentation and display | Focus on audience engagement, experiences |
| Acts independently | Acts in highly collaborative partnerships |
| Located in community | Embedded in community |
| Learning outcomes assumed, implied | Learning outcomes purposeful |





“All libraries and museums—and the people they serve—stand to benefit from becoming more intentional and purposeful about accommodating the lifelong learning needs of people in the 21st century, and doing this work collaboratively in alignment with community needs.”

From *Libraries, Museums, and 21st Century Skills*, IMLS (2009), pp. 7



**Where can I find more
information about 21st
Century Skills?**



IMLS Resources

<http://www.imls.gov/21stCenturySkills>



- *Museums, Libraries and 21st Century Skills* publication
- 21st century skills podcast
- Community workshop toolkit
- Self-assessment tool
- Community learning scan
- Information about **successful IMLS-funded projects** involving 21st century skills
- Resource bibliography

Other Useful Resources

For a list of other useful resources, please visit the “other resources” tab of the IMLS 21st Century Skills website to find a list of helpful links and a bibliography of current research and reports. www.imls.gov/21stcenturyskills

