

What do Informal Educators Want?

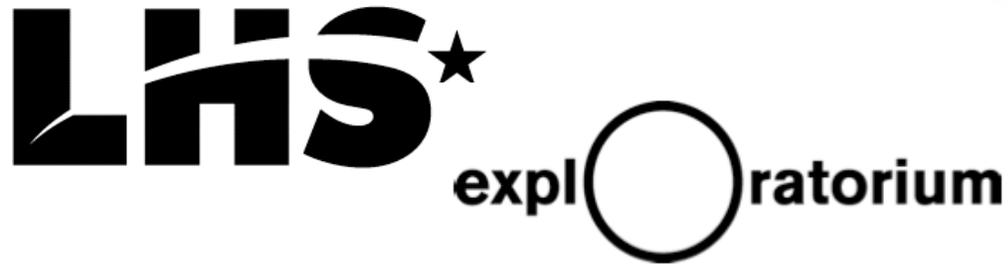
The Science and Math Informal Learning Educator (SMILE) Pathway



Darrell Porcello, Joel Rosenberg, Scott Randol, *Lawrence Hall of Science, UCB*
Sherry Hsi, Erin Van Rheenen, *The Exploratorium*
Eric Marshall, Rebecca Reitz, *New York Hall of Science*
Keith Braafladt, *Science Museum of Minnesota*
Wendy Pollock, *ASTC*

What do Informal Educators Want?

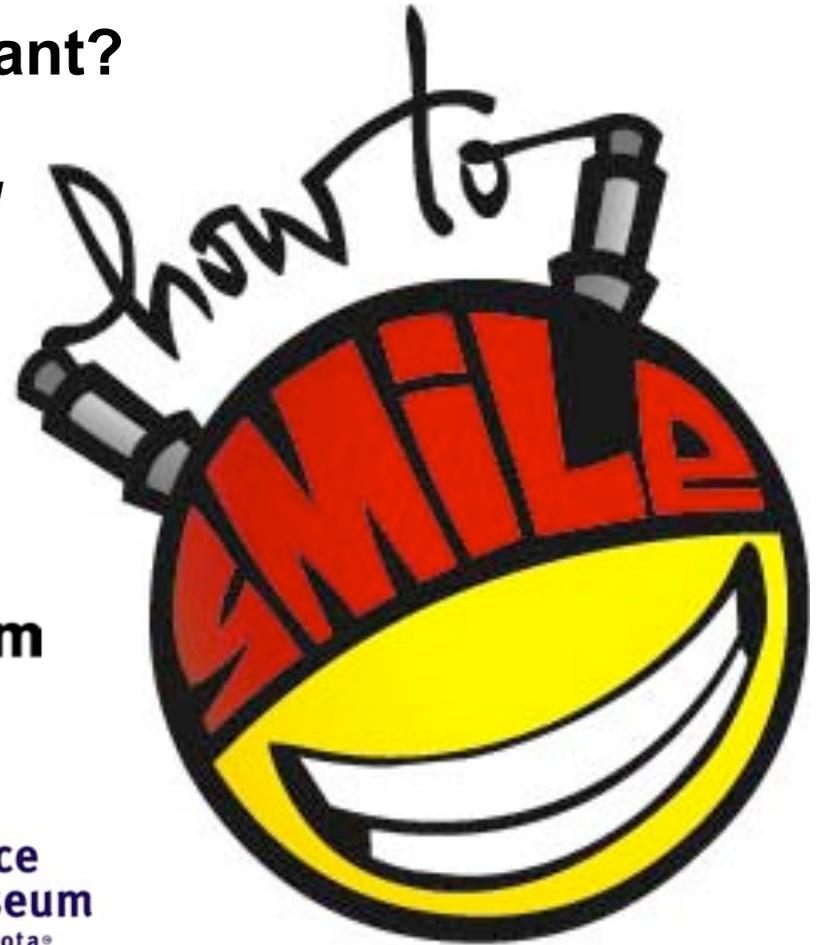
The Science and Math Informal Learning Educator (SMILE) Pathway



The Children's **Museum** of Houston



Science
Museum
of Minnesota®



What do Informal Educators Want?

Overview

- The need
- What is Informal Education?
- Front-end survey snapshot.
- Where are we going?



- In SF Bay Area, eighty percent of K-5 teachers report spending less than 60 minutes each week on science. 16% of teachers are spending no time at all on science. (LHS-WestEd, 2008)
- During spring 2007, results on the 5th grade California Standards Test (CST) in Science indicate that only 37% of California students scored proficient or above.
- Less than half of the industrialized adult population of the U.S., Canada, and the U.S. has heard of nanotechnology. (Flagg, 2005), US Government R&D for nano: \$0.5bil, 2001 to \$1.4bil, 2007 (NNI).

MIND THE GAP



•*Out of the classroom*

Interactive Hands-on **Fun**

Experiences Intermediates **Rich Content**

nanoZONE Site Map

If you have questions about **Nanotechnology** you've come to the right place. Explore the **nanoZONE** and learn more.

NANOTECHNOLOGY

WHAT is it?



DISCOVERIES!

SUPER SMALL!



HOW SMALL is it?

WHO works on it?



SCIENTISTS!

THE FUTURE!



WHY is it important?

Get Macromedia **FLASH PLAYER** This website requires the Macromedia Flash 7.0 plug-in. Click here to download the installer to your computer.





Museum Professionals
Teachers

Help us out by taking a survey! Visit the **NANOZONE @ LHS!**
 Lawrence Hall of Science © 2007 The Regents of the University of California lhsweb@berkeley.edu Updated January 8, 2006



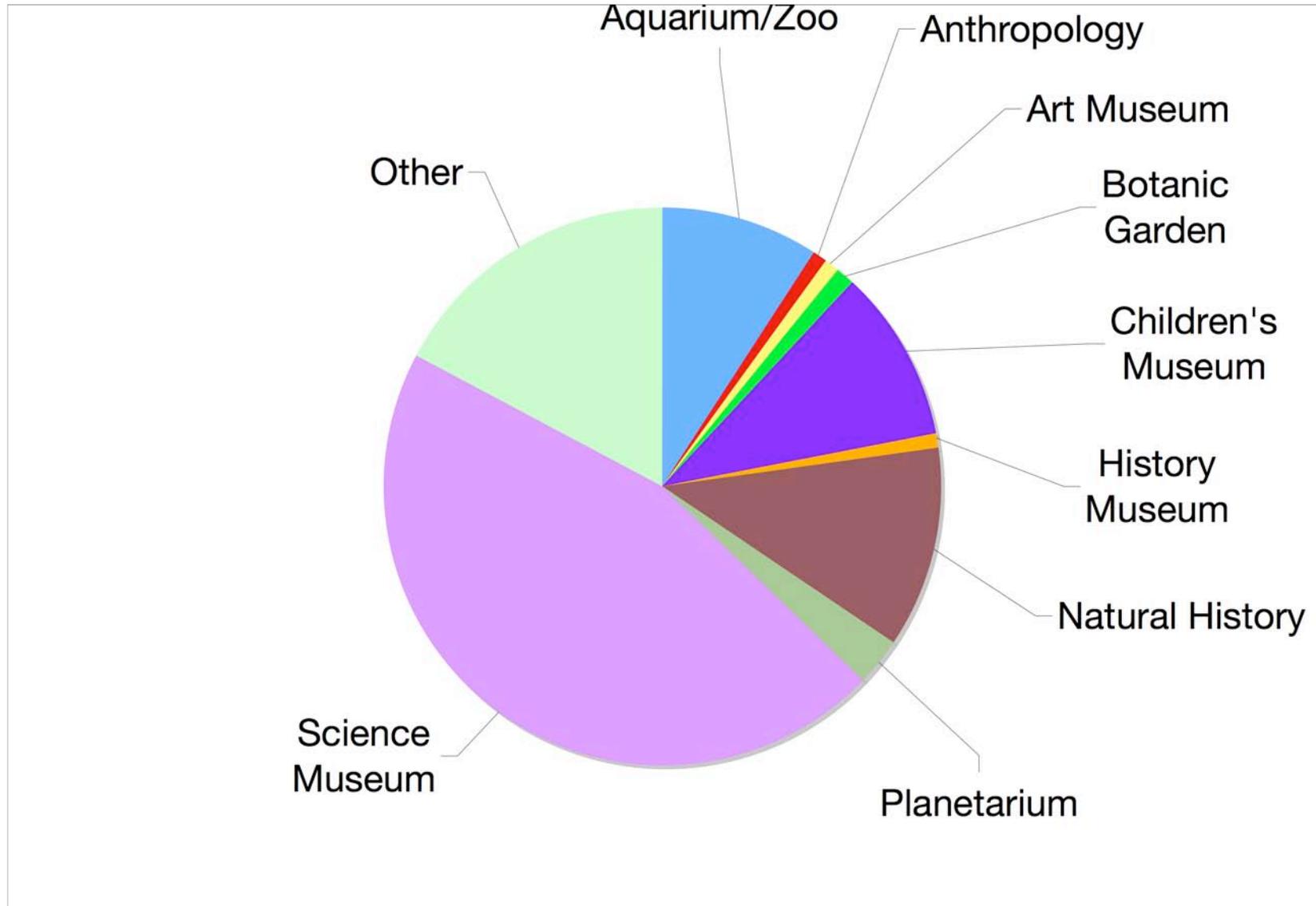
Front-End Survey

Detailed questionnaire to 500 Informal Science Education **Leaders** (directors + ed. directors)

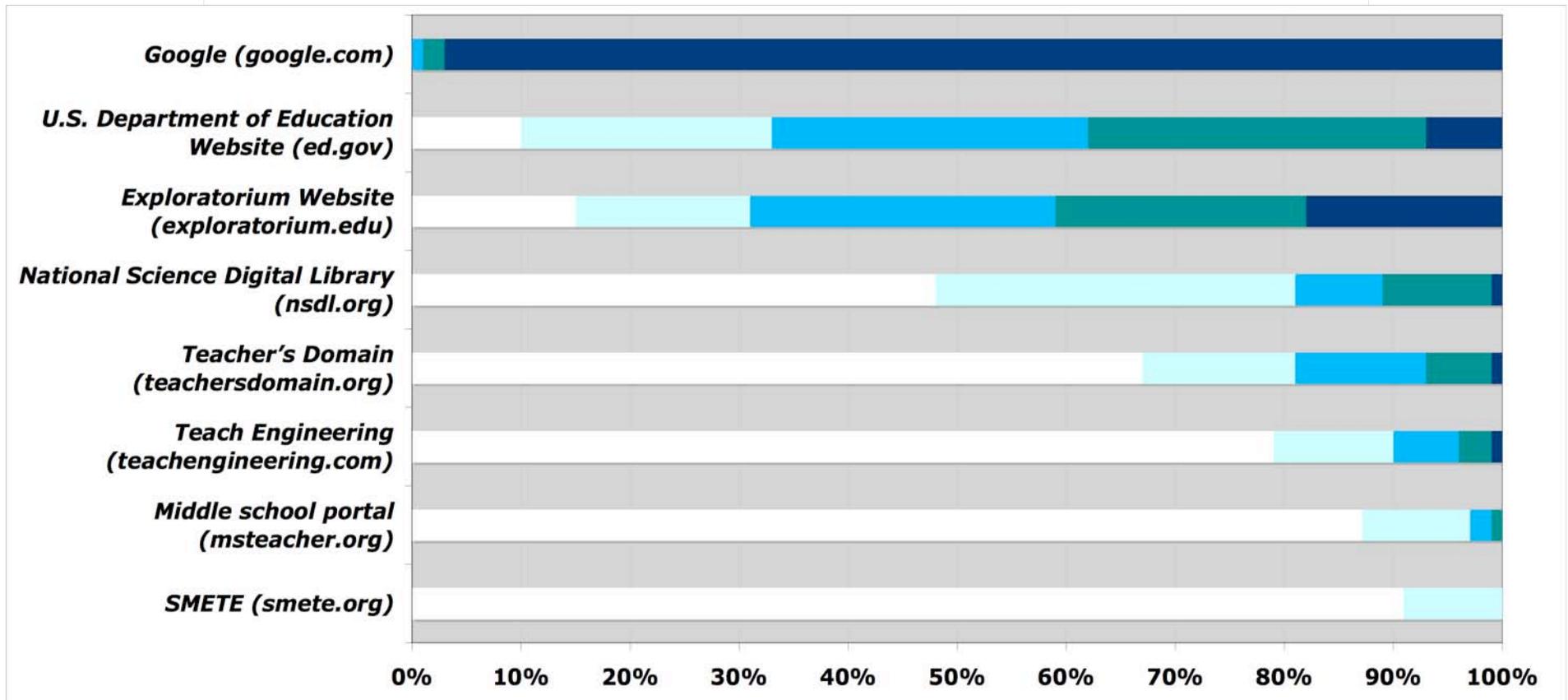
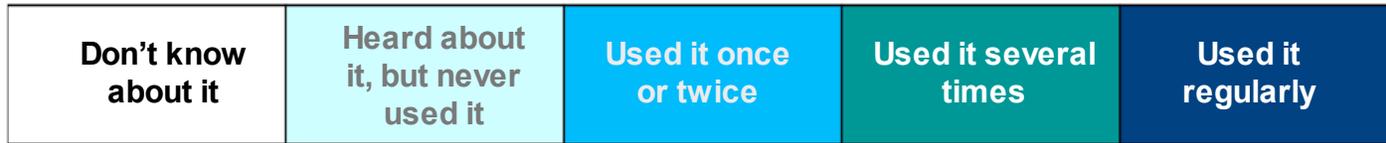
- What they **use**
- What they **want**
- What they can **contribute**



100 respondents snapshot at 9/11/08



How familiar are you with the following online search and/or repositories for STEM learning and teaching resources?

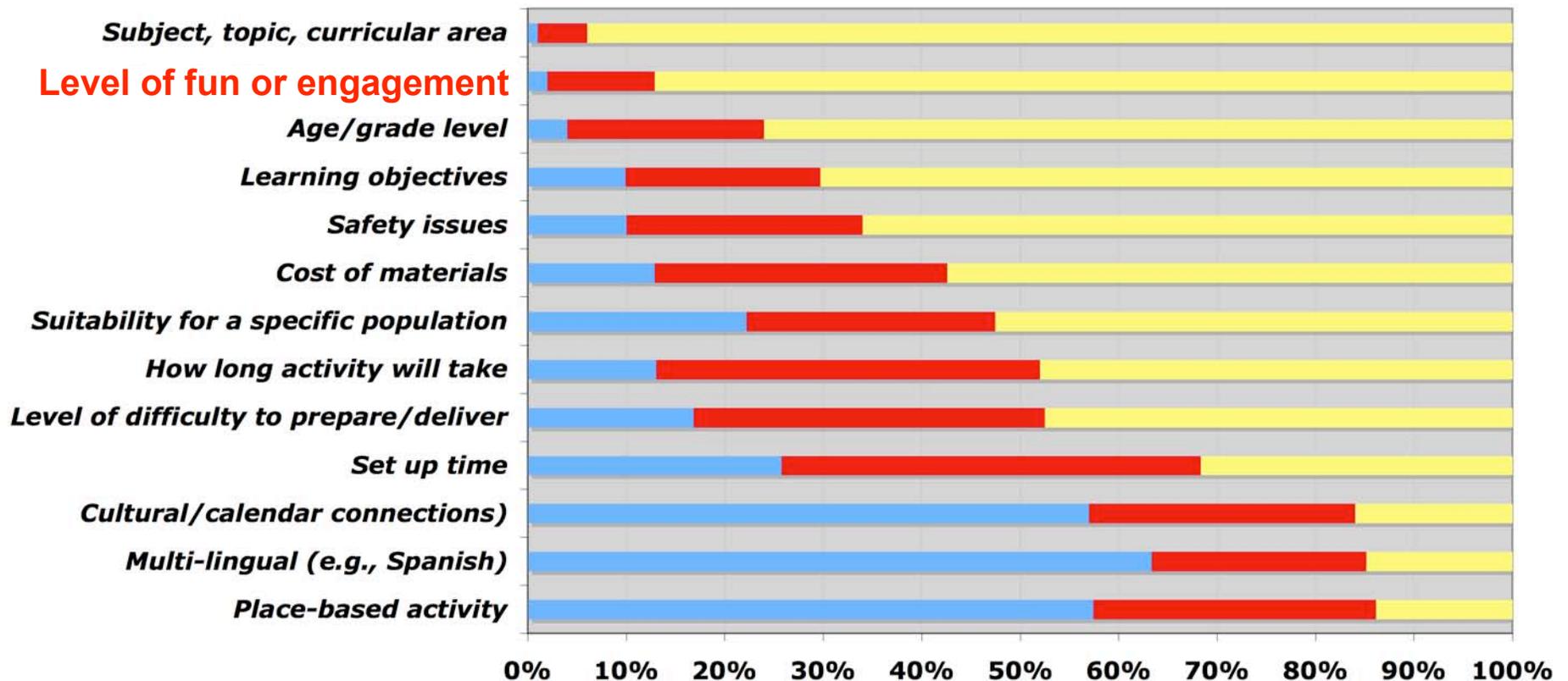


What STEM learning and teaching resources do you want... and what can you contribute? (likely % + very likely %)

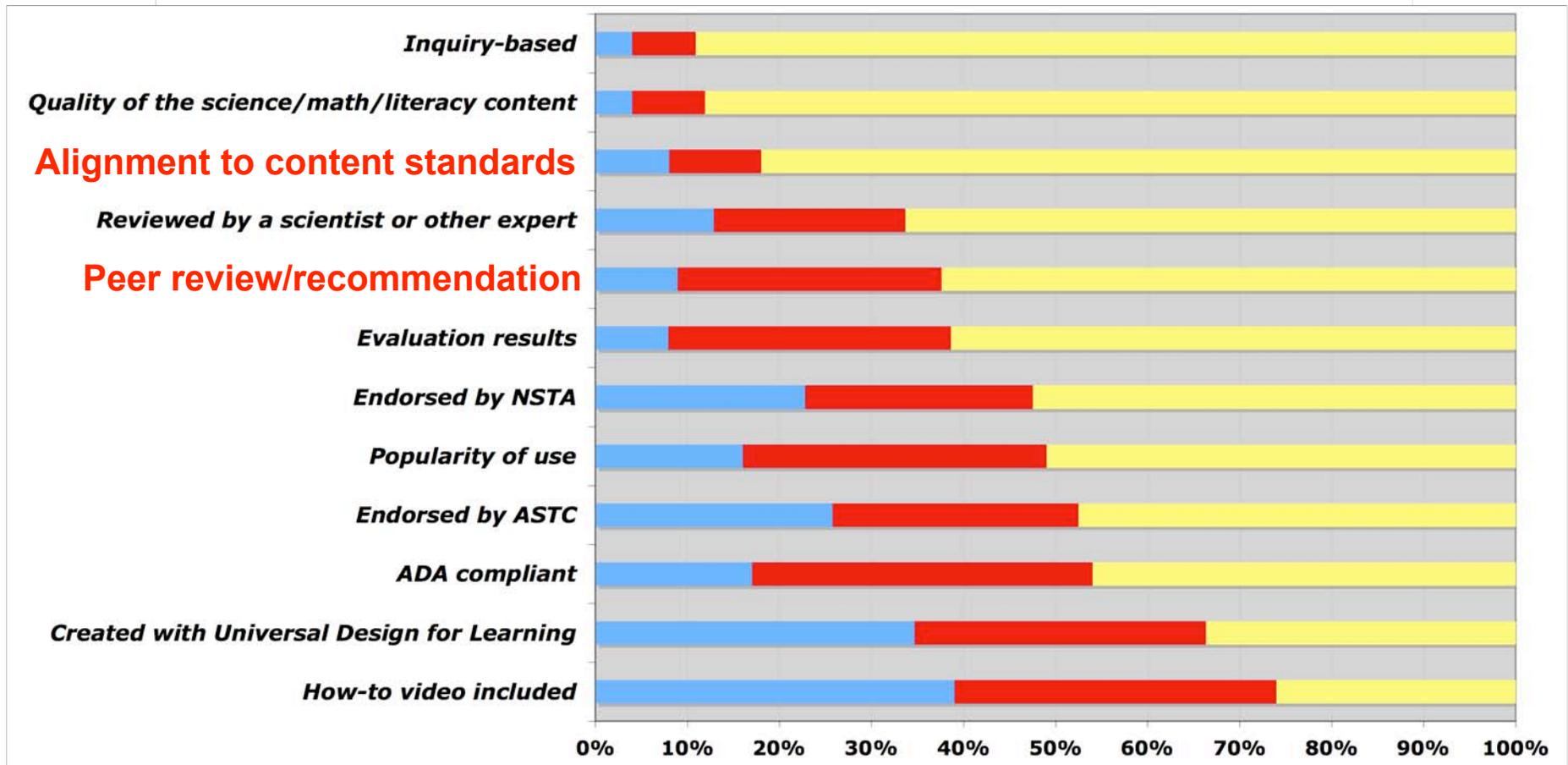
Resource type	% that wanted	% that could contribute
<i>Print-out instructions for hands-on STEM activities</i>	77%	33%
<i>Outdoor activities and field guides</i>	69%	33%
<i>Videos of facilitated demonstrations</i>	67%	20%
<i>Engineering challenges</i>	64%	14%

- Traditional print media over online media
- About 50% have a digital collection in some form

How important to you is the following basic information in selecting activities to use?



How important to you is the following rating and review information in selecting activities to use?



How interested would you be in using the following **services associated with learning and teaching resources from SMILE?**

Service	interested % + very interested %
<i>Networking opportunities with other educators</i>	69%
<i>Video demonstrations of how-to make or do activities</i>	65%
<i>Evaluation and assessment associated with activities</i>	63%
<i>Online professional development workshops</i>	61%
<i>Ability to save and share a set of discovered activities</i>	60%

- Professional Development and Networking

Lessons Learned...

- Traditional print media over online media
- About 50% have a digital collection in some form
- Professional Development and Networking
- Standards Alignment?
- Fun!

...next steps

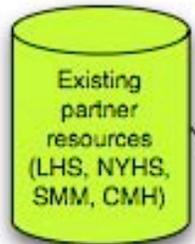
- Finish the survey for Dec 5th Advisory Mtg.
- Modify SMILE Metadata if needed
- How does this impact technology?

RESOURCES

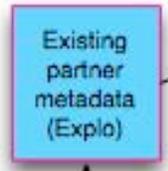
METADATA

WEB

USERS

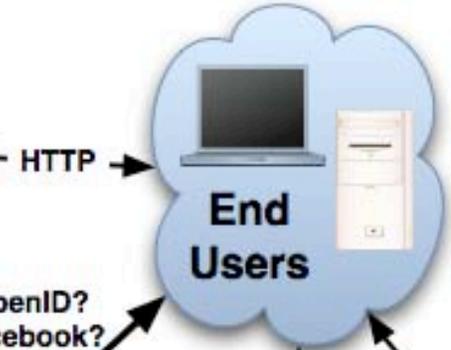
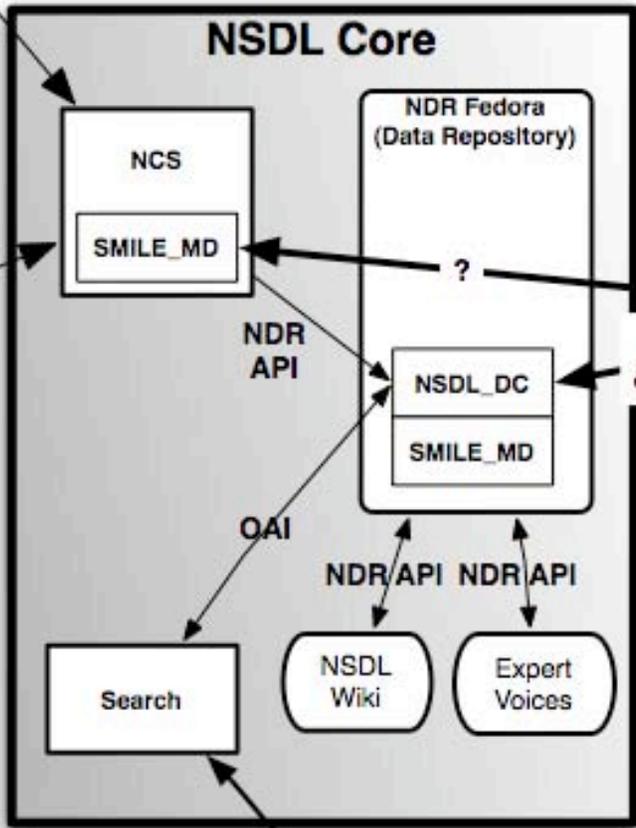


Editorial HTTP



OAI

Catalogers



HTTP

API?

OpenID?
Facebook?
HTTP



NDR & OAI

HTTP

New Collections?



ATOM, RSS (RDFa)



HTTP

REST

 **Darrell**
Settings | My Activity

 You recommended an article: Senate to Vote Today on the Bailout Plan

5:42 AM ▾ **0 People**
Add / Remove x

Senate to Vote Today on the Bailout Plan



Justin Lane/European Pressphoto Agency

The New York Stock Exchange on Tuesday. The market rebounded, reversing a sell-off that shook Wall Street on Monday.

RECOMMEND

E-MAIL

PRINT

SINGLE PAGE

REPRINTS

SAVE

SHARE

ARTICLE TOOLS
SPONSORED BY



Darrell Porcello is in DC. 📍 9 hours ago clear

Wall

Info

Photos



+ Add an Application Tab

x The Publisher



Update Status



Share Link



Add Photos



Visual Bo...



Add Video



What are you doing right now?

Post

All Posts

Posts by Darrell

Posts by Others

Settings

Today

x Edit Post



Darrell favorited **Star Trek VI: The Undiscovered Country Teaser Trailer** on YouTube. 12:49am

Edit



Star Trek VI: The Undiscovered Country Teaser Trailer

Source: www.youtube.com

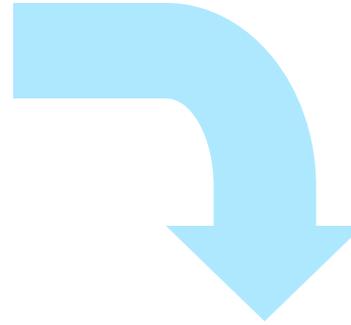
Add Comment

Turn Sharing...

on off

When you share your activity, other members will be able to see your recommendations, comments, ratings and more. [Read the TimesPeople FAQ](#) to learn more about sharing.

 [TimesPeople on Facebook](#)



facebook

Home

Profile

Friends

Inbox 2

Darrell Porcello

Settings

Logout

Your TimesPeople Mini-Feed



Darrell recommended an Article

8:42 AM

Senate to Vote Today on the Bailout Plan

Senate leaders scheduled the vote after agreeing to add tax breaks and a higher limit for insured bank deposits in a bid to attract enough votes to reverse defeat in the House.



Darrell recommended an Article

SEP, 28 2008

McCain's Suspension Bridge to Nowhere

John McCain may be the first presidential candidate in our history to risk wrecking the country even before being voted into the Oval Office.



Darrell recommended an Article

SEP, 28 2008

6 Months Later, Spitzer Is Contrite, Yes, but Sometimes Still Angry

Eliot Spitzer has faced an adjustment as he confronts life without the power he once wielded as New York governor.