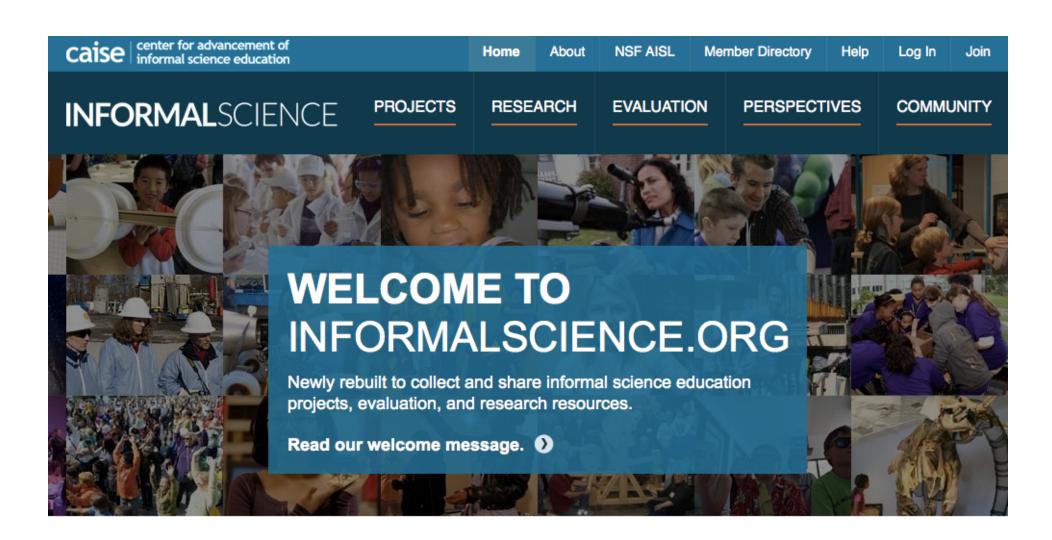
MINING THE FIELD: THE BUILDING INFORMAL SCIENCE EDUCATION (BISE) PROJECT

AISL PI Meeting 2014

A NSF-funded partnership:
University of Pittsburgh
Science Museum of Minnesota
Visitor Studies Association

In what ways might we use a collection of evaluation reports to generate useful new knowledge about the field of informal science education?



521 Evaluation Reports!

ABOUT OUR SAMPLE

The best sample to date of evaluation in informal science education.

Includes all evaluation reports posted to informalscience.org through May 2013

Provides insight into the field we wouldn't otherwise have.

Access to a wide range of evaluation practices, methods, and findings.

How did we make sense of what was in the reports?

THE BISE CODING FRAMEWORK

Coding Categories

Below are the overarching coding categories in the BISE Coding Framework. The following pages include the codes under each category and corresponding definitions. The coding categories with an asterisk (*) are report level codes that were coded in both NVivo and an Excel spreadsheet. Coding categories without an asterisk were only coded within NVivo

EVALUATION TYPE*	INTERVIEW PROTOCOL PROVIDED*
EVALUATION PURPOSE/QUESTIONS	SURVEY INSTRUMENT PROVIDED*
PROJECT SETTING*	OBSERVATION INSTRUMENT PROVIDED*
SAMPLE SIZE*	TIMING & TRACKING INSTRUMENT PROVIDED*
SAMPLE FOR THE EVALUATION	FOCUS GROUP PROTOCOL PROVIDED*
AGE OF INDIVIDUALS SAMPLED	OTHER INSTRUMENTS PROVIDED*
SPECIAL TYPES OF ADULTS SAMPLED	PRE/ POST MEASURES
SAMPLED A SCHOOL GROUP	FOLLOW UP
ACCESSIBILITY ISSUES*	STATISTICAL TEST*
LANGUAGE TRANSLATION*	RECOMMENDATIONS
DATA COLLECTION METHODS	
INSTRUMENTS PROVIDED*	SYNTHESIS SAMPLE*
	EVALUATION PURPOSE/QUESTIONS PROJECT SETTING* SAMPLE SIZE* SAMPLE FOR THE EVALUATION AGE OF INDIVIDUALS SAMPLED SPECIAL TYPES OF ADULTS SAMPLED SAMPLED A SCHOOL GROUP ACCESSIBILITY ISSUES* LANGUAGE TRANSLATION* DATA COLLECTION METHODS

What did we learn from our project?

BISE BLOG & SYNTHESIS PAPERS

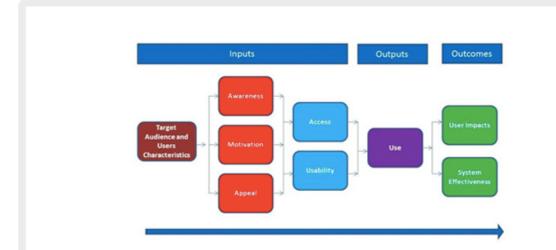
> Blog

News

Newsletter

SEARCH~

POSTS IN THE BUILDING INFORMAL SCIENCE EDUCATION CATEGORY



Building A Guiding Framework For Website Evaluation Design Using The BISE Database

Posted on May 18, 2014 by Carey Tisdal in Building Informal Science Education | General

The aim of this study was to develop a heuristic, or theoretical model, to guide my own thinking and to use in discussions with stakeholders (e.g. web designers, program developers, audiences) that could help define comprehensive and useful evaluation questions for framing website evaluation studies. [...]

LATEST POSTS



Welcome To InformalScience.Org

Hello.

April 21, 2014

A Research Agenda For Learning In Natural History Settings



June 26, 2014

Small Matters

June 19, 2014



CATEGORIES

Building Informal Science Education

visitorstudies.org/bise



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Resources

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Partners

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Overview
CAISE
Evaluator Competencies
BISE

Building Informal Science Education

Building Informal Science Education (BISE) is an NSF funded project that hopes to build and advance evaluation in informal science. Focusing on evaluation reports posted to informalscience.org, the team is exploring what the field might learn as we begin to look across different informal learning projects. These projects include a wide variety of media, including among many others, film and broadcast projects, science center and museum exhibitions, programs in zoos and aquariums, afterschool programs in community based organizations.

The team has analyzed different subsets of these reports, and is working to create a number of white papers to document its findings. In addition, the project hopes to build evaluative capacity in the field, creating a database for project teams to find evaluators (and examples of their work) for their new projects more easily. Find the database here.

This project helps VSA to address its core mission to build and share a research base in informal learning and use evaluation outcomes to improve informal learning.

White Papers

Below, please find, over the next few months, the presentation of three white papers written by VSA members and informal science evaluators and researchers. These papers represent the authors' analysis at synthesizing some area of the BISE database, testing whether anything can be learned from conducting "secondary analysis and syntheses of the existing evaluation findings in the database" (Crowley blog). While informalscience.org was originally intended as a way for NSF-funded projects to share their summative reports, the informal learning field saw the potential for such a resource for all informal environments. The full set of reports in the informalscience.org database now includes front-end, formative, remedial, and summative evaluations as well as audience studies and studies where the type of evaluation is unclear.

Websites: A Guiding Framework for Focusing Website Evaluations

Carey Tisdal

The aim of this study was to explore 22 Web site evaluation reports, or sections of larger evaluation reports centering on a Web site, to identify, define, and provide examples of the range of evaluation focus areas to inform the design of Web site evaluation studies. The sample included a group of reports contributed to the Informalscience.org online database. Prior to this study, staff members at the Science Museum of Minnesota organized and coded the database of evaluation reports as part of the Building Informal Science Education (BISE) project funded by the National Science Foundation (NSF). In this analysis, grounded theory methodology and the constant comparative method (Glaser & Strauss, 2009)

SYNTHESIS PAPERS

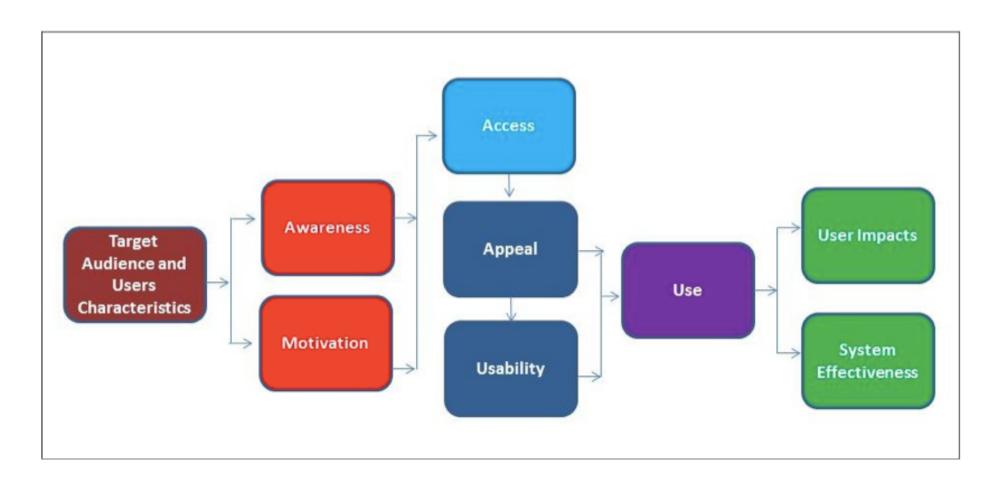
How are media projects typically evaluated and how do they show changes in design, knowledge outcomes, and increases in interest and engagement in STEM?

What recommendations and advice are provided through summative evaluations of exhibitions?

Museums are increasingly engaging with their communities in understanding and addressing the complex questions of our society. How is this effort manifested in museum practice, and what is the impact of this work?

FRAMEWORK FOR WEB SITE EVALUATION

Across the website-related reports in the BISE database, what was the range of evaluation focus areas?



GUIDING QUESTIONS FOR REPORTING

Have I identified the **type of evaluation**?

Is the **purpose of the evaluation** clear?

If I used **evaluation questions** as part of my evaluation process, have I included them in the report?

Have I described the data collection methods? If possible, can I include data collection instruments in the report?

Do I provide sufficient information about the **sample characteristics**?

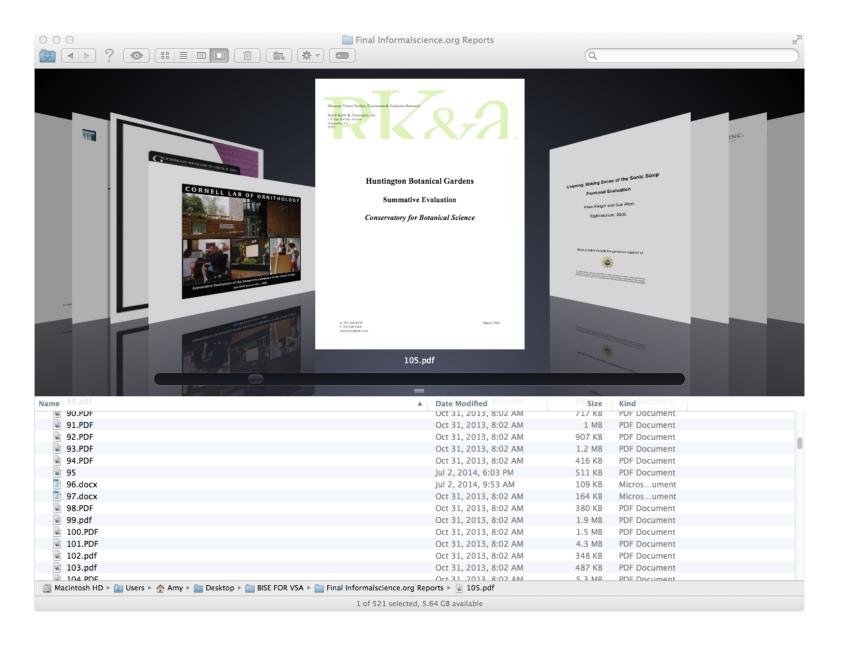
Have I reported sample size for each of my data collection methods?

If I provided **recommendations** to the client, did I include them in the report?

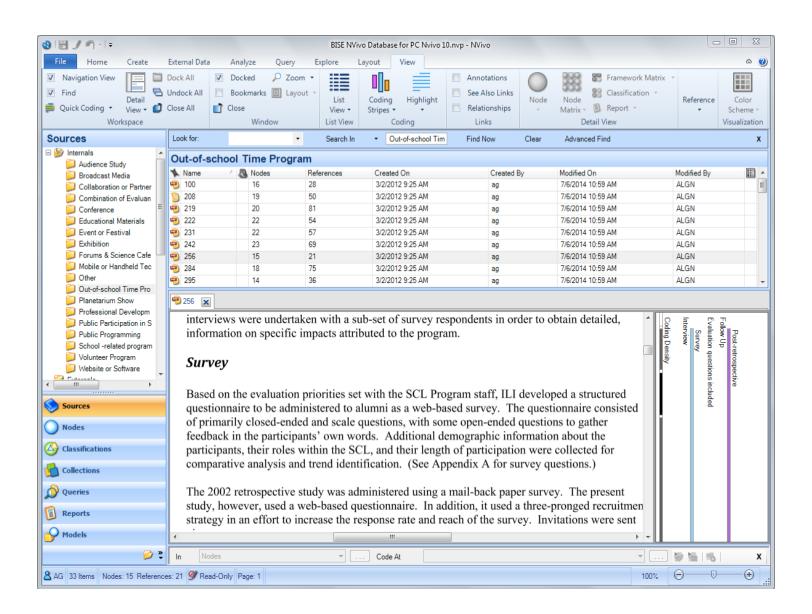
How can I explore the reports myself?

PROJECT RESOURCES

COLLECTION OF REPORTS



EXCEL FILE & NVIVO DATABASE



WAYS TO USE THE RESOURCES

Understand how evaluations are carried out for various types of ISE projects

Inform the development of an evaluation

Learn from similar types of projects – recommendations, improvements, impacts