

Effective Dissemination Plans – Success Strategies for Projects and Proposals

Thursday, April 30th, 2015

Hosted by:

STEM Learning & Research Center
(STELAR)
Educational Development Center, Inc.



Overview

Introduction

- **Sarita Pillai**, Principal Investigator, STEM Learning and Research Center (STELAR)

Speakers

- **Marta Biarnes**: Advancing Informal STEM Learning (AISL)
- **Irene Lee**: Multiple programs
- **Ashley Lewis Presser**: Discovery Research K-12 (DR K-12)
- **David Reider**: Innovative Technology Experiences for Students and Teachers (ITEST)



STELAR Overview

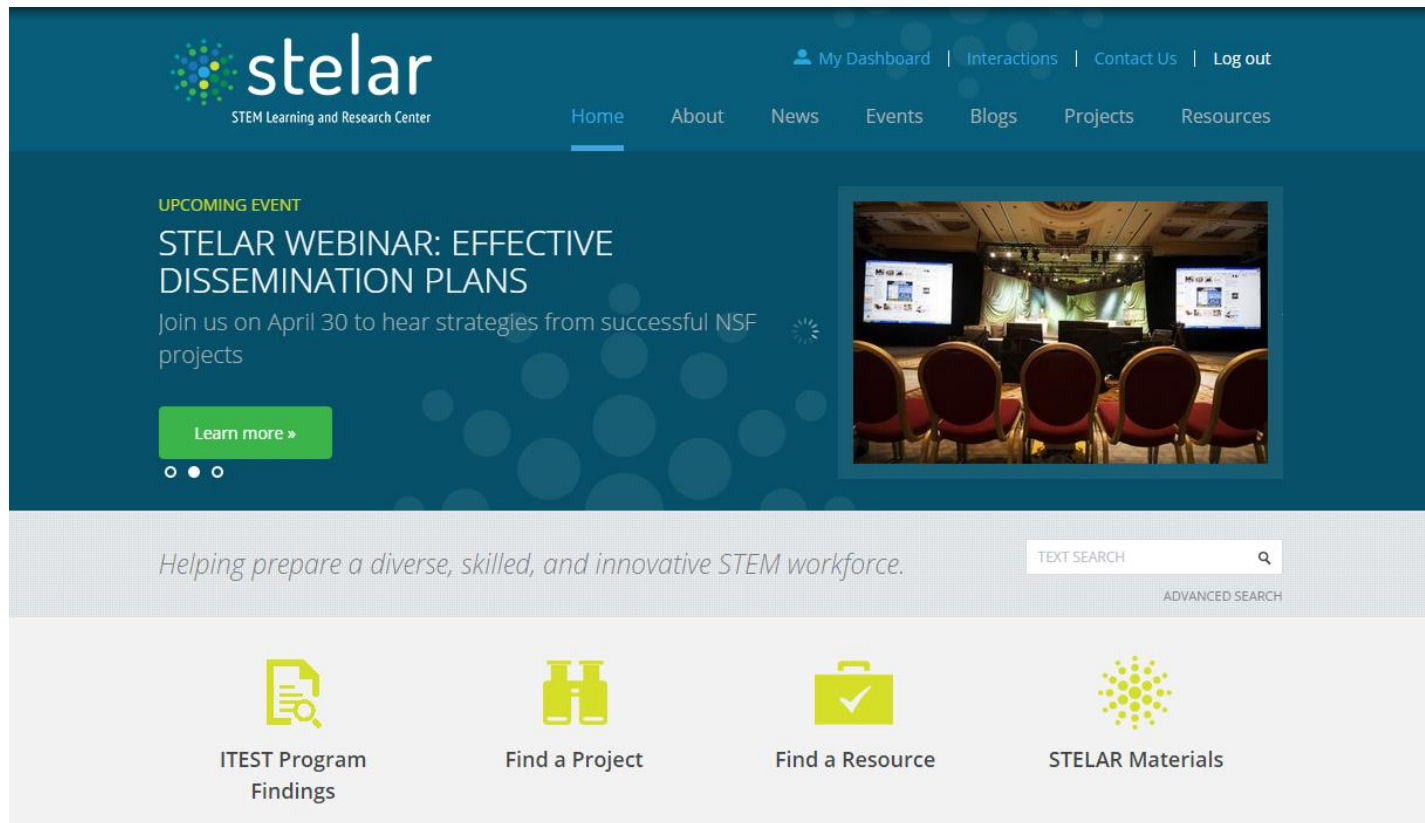
- Facilitate projects' success through **technical support** with a focus on synthesis of findings
- Inform and influence the field of STEM stakeholders by **disseminating** project findings nationally
- Deepen the impact and reach of the ITEST program by **broadening participation** in the ITEST portfolio



NSF's Innovative Technology Experiences for Students and Teachers (ITEST) Program

- To build understandings of best practice factors, contexts and processes contributing to K-12 students' motivation and participation in STEM
- Helps students to be aware of STEM careers, and to pursue formal school-based and informal out-of-school educational experiences to prepare for such careers
- **288** current and past projects across **44** states have served **247,700** students, **9600** educators, **3000** parents and caregivers

STELAR Website – <http://stelar.edc.org>



The screenshot shows the homepage of the STELAR website. The header features the STELAR logo (a cluster of colored dots) and the text "stelar STEM Learning and Research Center". Navigation links include "My Dashboard", "Interactions", "Contact Us", "Log out", and a main menu with "Home", "About", "News", "Events", "Blogs", "Projects", and "Resources". The "Home" link is underlined. A featured section titled "UPCOMING EVENT" promotes a "STELAR WEBINAR: EFFECTIVE DISSEMINATION PLANS" on April 30, with a "Learn more »" button. To the right is a photo of a conference room. Below this is a search bar with "TEXT SEARCH" and "ADVANCED SEARCH" options. The footer contains four icons and labels: "ITEST Program Findings" (magnifying glass over a document), "Find a Project" (two beakers), "Find a Resource" (briefcase with a checkmark), and "STELAR Materials" (cluster of dots).

stelar
STEM Learning and Research Center

My Dashboard | Interactions | Contact Us | Log out

Home | About | News | Events | Blogs | Projects | Resources

UPCOMING EVENT

STELAR WEBINAR: EFFECTIVE DISSEMINATION PLANS

Join us on April 30 to hear strategies from successful NSF projects

Learn more »

Helping prepare a diverse, skilled, and innovative STEM workforce.

TEXT SEARCH

ADVANCED SEARCH

ITEST Program Findings

Find a Project


Find a Resource

STELAR Materials

CAISE - <http://informalscience.org/>

The screenshot shows the homepage of InformalScience.org. At the top is a blue navigation bar with the CAISE logo (center for advancement of informal science education) and links for Home, About, NSF AISL, Member Directory, Help, Log In, and Join. Below this is a dark blue bar with the text 'INFORMALSCIENCE' and a row of menu items: PROJECTS, RESEARCH (which is underlined), EVALUATION, PERSPECTIVES, and COMMUNITY. The main content area features a large collage of photos showing diverse people engaged in various STEM activities. Overlaid on this collage is a blue box with the text: 'WELCOME InformalScience.org is a central portal to project, research and evaluation resources designed to support and connect the informal STEM education community in museums, media, public programs and a growing variety of learning environments.' Below the collage is a search bar with the heading 'SEARCH AND BROWSE INFORMAL EDUCATION RESOURCES ?'. The search bar contains the text 'e.g. inquiry, evaluation, chemistry' and a dropdown menu set to 'Informal Commons'. To the right of the search bar is a magnifying glass icon. Below the search bar is a button that says 'BROWSE BY RESOURCE TYPE' with a small circular arrow icon.

CADRE – <http://cadrek12.org/>

**Community for Advancing
Discovery Research in Education**

Search this site: All



Home Projects People Resources Events About CADRE

[Login](#)

Our Mission






Supporting and connecting researchers and developers in K-12 STEM education.

[What CADRE can do for you](#)

Tweets

**STELAR** @STELAR_CTR 2h
Join us for a Webinar TODAY: Effective Dissemination Plans, 4/30, 3-4pm ET! [ow.ly/MbPc](#) @CADREK12 @informatics @CIRCLCenter
Retweeted by The DR K-12 Network
Expand

**The DR K-12 Network** @CADREK12 2h
Webinar TODAY at 3PM ET:



2015 Teaching & Learning Video Showcase

Improving Science, Math, Engineering, Computer Science, and Technology

May 11th –15th 2015

NSF 2015 Teaching and Learning Video Showcase

[Join us for the event: May 11-15](#)

1 2 3 4 5 6

Announcements

- [Dept of Ed Webinar](#)
Dear Colleagues, This year, Co...
- [New Algebra Curriculum!](#)
Hot off the press! Making Sens...
- [WISE seeks post-doctoral schol...](#)
Full-time post-doctoral schola...
- [The Spring Newsletter is here!](#)
The CADRE 2015 Spring newslett...

[More](#)

Upcoming Events

- [National Science Teachers...](#)
Tue, 05/19/2015 - 11:00pm - Fri, 05/22/2015 - 11:00pm
- [Spring 2015 National Scie...](#)
Sun, 05/31/2015 - 11:00pm - Mon, 06/01/2015 - 11:00pm
- [EducaTIK 2015 Conference...](#)
Fri, 06/05/2015 - 3:00am - Sat, 06/06/2015 - 3:00pm
- [Conceive Design Implement...](#)
Mon, 06/08/2015 (All day) - Thu, 06/11/2015 (All day)

[More](#)

New Resources

- [Looking Through the Energy Len...](#)
Publication
- [The 8 Elements of Inclusive ST...](#)
Publication
- [DR K-12 Publications, Presenta...](#)
Presentation
- [Implementing a Robotics Curric...](#)
Publication

[More](#)

National Living Laboratory

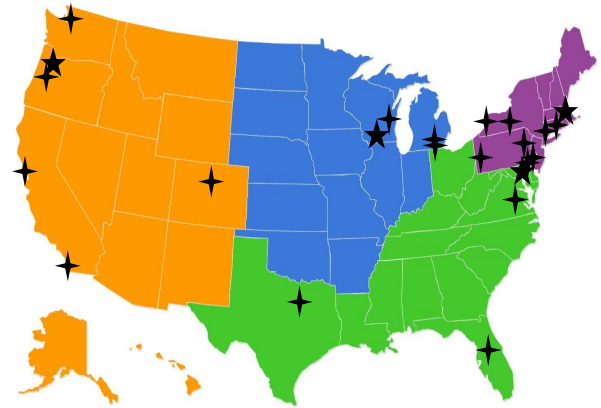


Marta Biarnes

Museum of Science, Boston
mbiarnes@mos.org

National Living Laboratory Initiative

The National Living Laboratory Initiative is connecting a growing community of museum and research professionals who are interested in bringing current research in child development to informal learning settings (science centers, children's museums and others) through Living Laboratory®.



Living Laboratory[©]

Model for Museum – Academic Collaborations

Living Laboratory is an educational on-site research model started in 2005 at the Museum of Science (MOS) in which museum visitors learn about the scientific process through study participation and face to face conversations with researchers



Living Laboratory Timeline

2005 – Established program to reach the adult “lost audience”

2005-2007 - MOS Rapid Prototyping

2007-2011 – NSF Grant (Kirshner, Award #0714706)

2011 -2015 – NSF Broader Implementation Grant (Kipling, Award #1113648)

MOS Living Laboratory – Impacts



- More than **61,000 families** have participated in research activities (since 2005)
- **40+ articles** in academic journals, with many more in-prep or under review
- **600 researchers** (graduate students, post-docs, lab managers and undergraduate assistants) received science communication training from museum educators

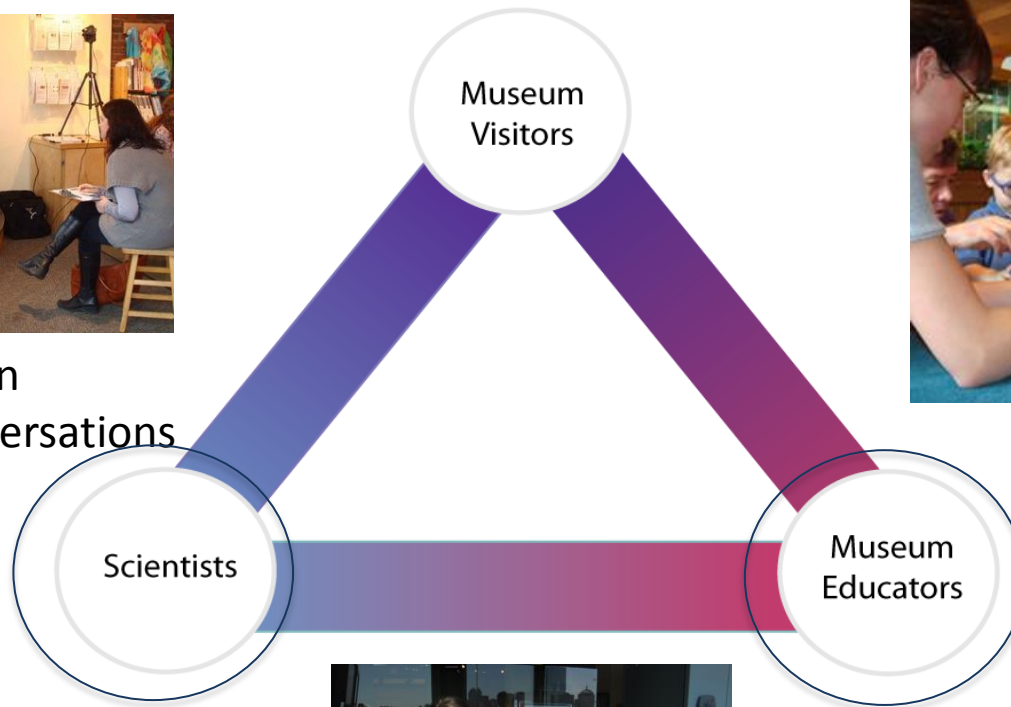
Audiences



Study Participation
Face to Face Conversations



Research Toys



Mutual Professional
Development



Deliverables for Professional Audiences

Community Membership

Invitation to Annual Meetings

Access to Resource Toolkit, Member Directory, Events

Resource Toolkit

Mutual Professional Development Materials

Visitor Engagement Strategies

Strategies to Initiate Collaborations

Sustainability Tools

Exhibit Concepts and “How To’s”

Educational Programming Guides



NLL Dissemination: Foundation

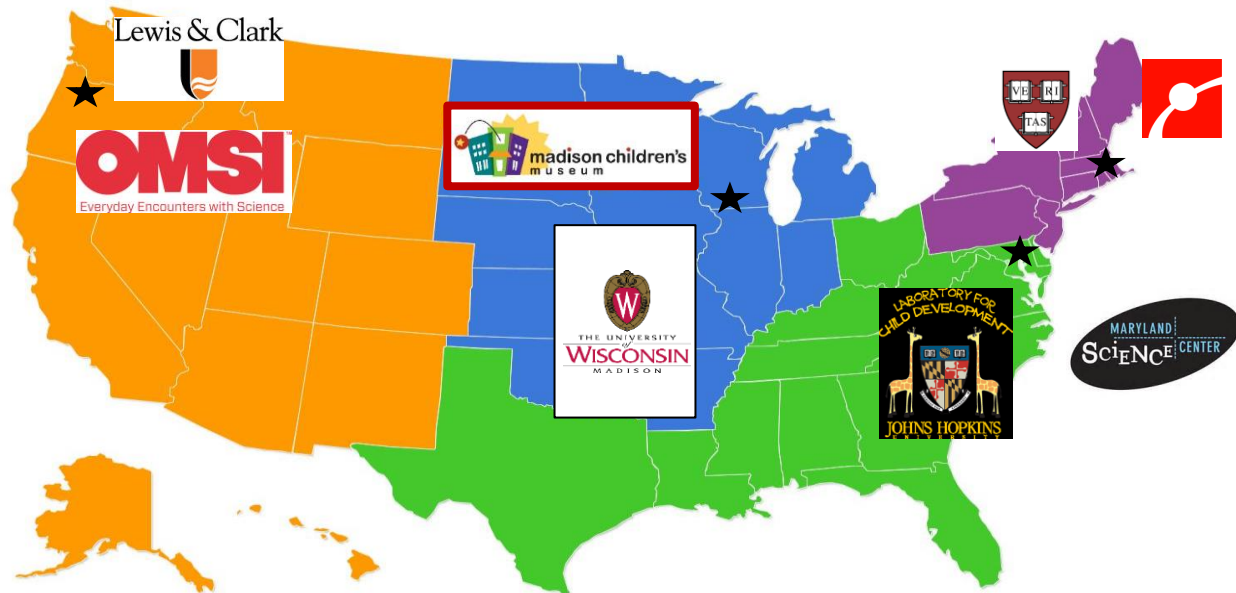
Regional Hub Model of Dissemination

Establish and Evaluate Hub Site Adoption (4)

Decentralize Expertise



Increase Personalized Communication to Tier 3 Adopters



NLL Dissemination: Foundation

Create Online Virtual “Hub” – www.livinglab.org

Currently 380+ Community Members

- 200 institutions, 46 states
- 147 museums, 59 universities

Site of Resource Toolkit

Monthly enews



Identify Professionals at Various Points of Engagement

Potential Adopters

Partial Adopters

Full Adopters



NLL Dissemination: Expansion

Professional Conferences: “Rallying” Opportunities

Exhibitor Booth and Presentations

Museum: ASTC, ACM, AAM

Academic: APA, SRCD, CDS

Annual NLL Meetings

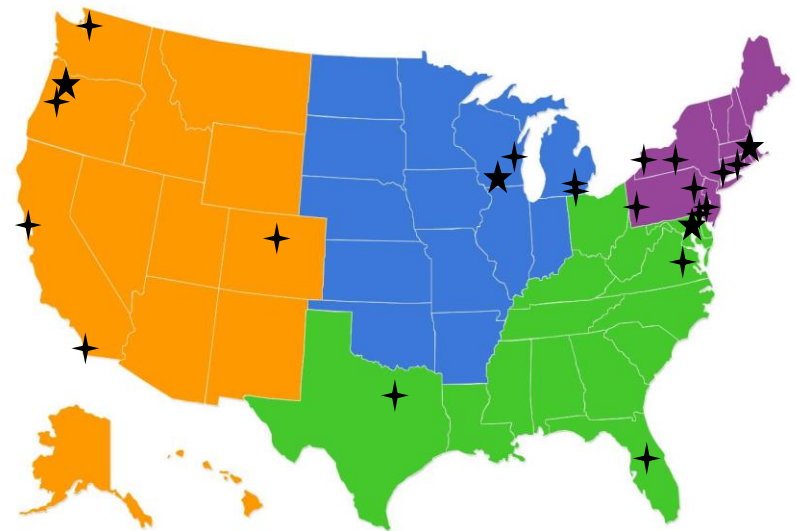
Regional, Topical, Audience Specific

Adoption Support

NLL Stipend Award Program (Partial→Full Adopters)

2014-15: 18 Museum/Academic Stipends Awarded

Educational Assistance Opportunities (Potential→Partial)



NLL: What We've Learned

- Identify Various Points of Engagement
- Think About Dissemination Flexibly
- Know your audiences
- Face to face meetings are a powerful tool
- Identify your rallying moments



Thank you!

Marta Biarnes

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www.livinglab.org



**Living
Laboratory®**

Developed at the
Museum of Science, Boston



**Broad Implementation: Creating
Communities of Learners for Informal
Cognitive Science Education** (Kipling; 1113648)





Dissemination and Diffusion of Innovation in Project GUTS: Growing Up Thinking Scientifically





Project GUTS

NM Adventures in Modeling (2003-2006, NSF-ITEST)

Project GUTS afterschool (2007-2010, NSF-AYS)

Project GUTS replicable model (2010-2013, various funders)

Project GUTS Code.org CS in Science during the school day (2014+)



Project GUTS Audience

- **Teachers / Administrators**
- **Students / Parents**
- **Educational researchers**
- **Curriculum developers / Publishers**
- **Scientists interested in engaging public**
- **Communities**
 - Science Educators
 - Computer Science Educators
 - Afterschool professionals
 - Complex systems / ABM community
 - NSF community
 - K-12 Educators
 - Community College Educators

Project GUTS “Products”

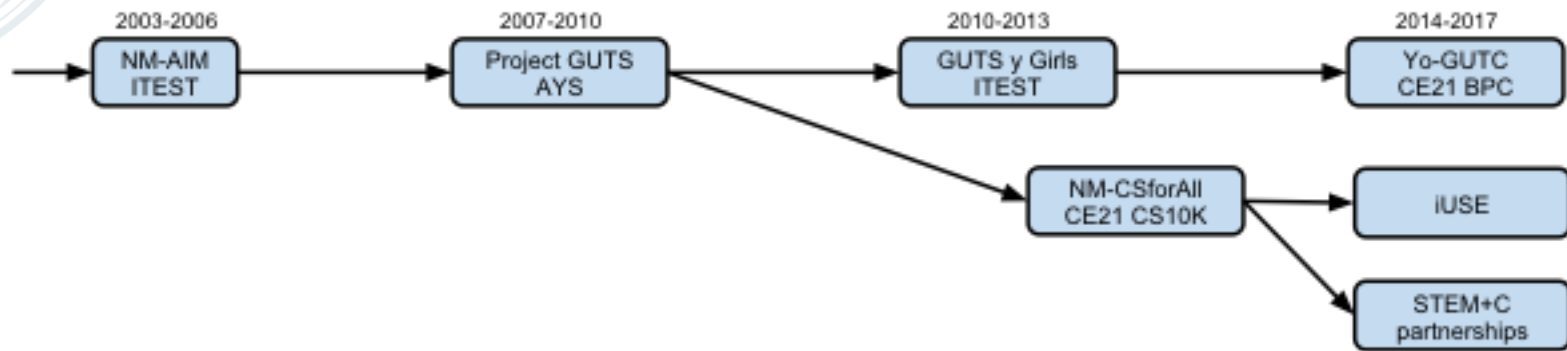
- **Afterschool program model**
- **Professional Development program model**
- **Facilitator development model**

- **Afterschool curricular units**
- **In school CS in Science replacement modules**
- **Courses / MOOC**

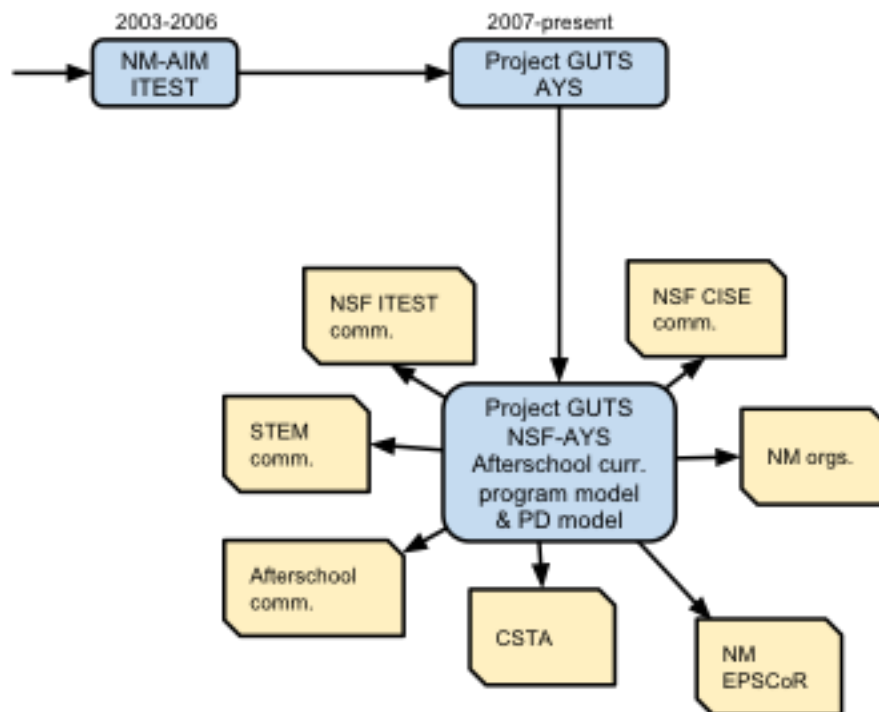
Project GUTS dissemination “Traditional Methods”

- **Research and evaluation findings**
- **Publications and presentations**
- **Websites and social media**
- **Blogs and editorials**

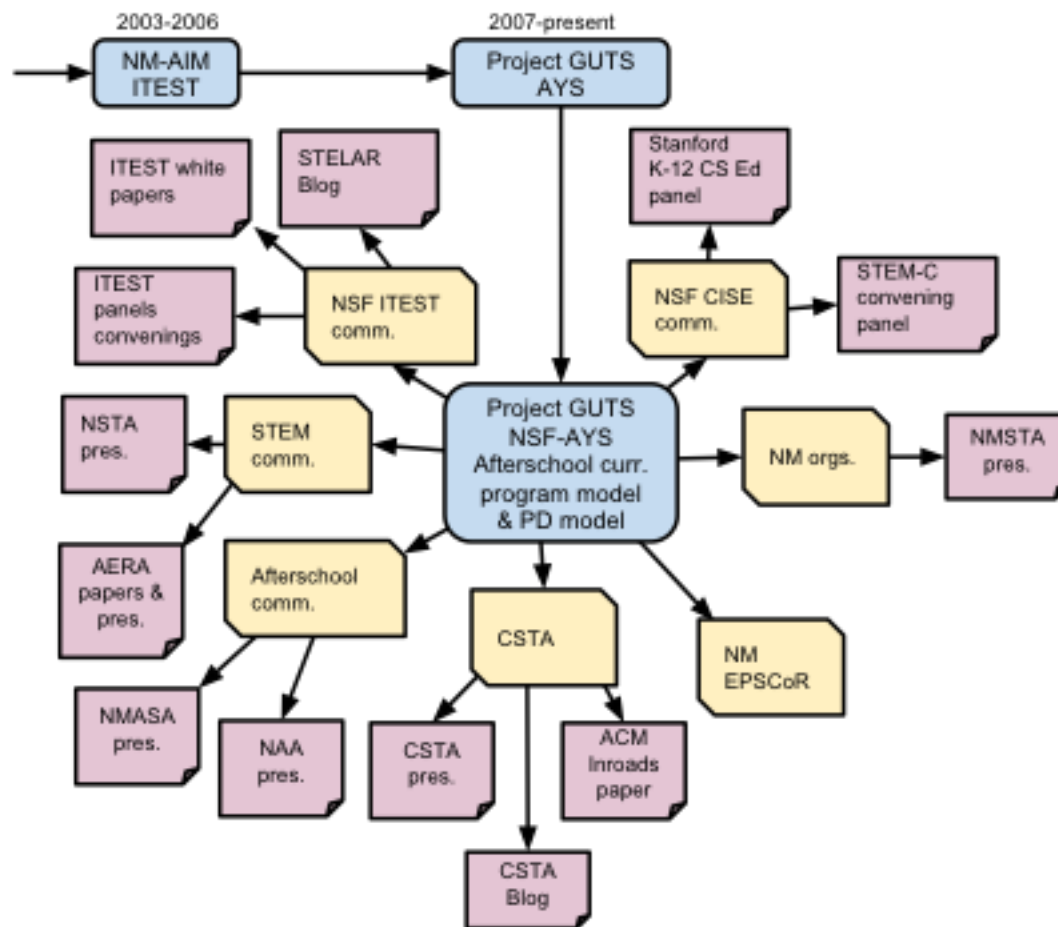
Project GUTS dissemination through project spin-off



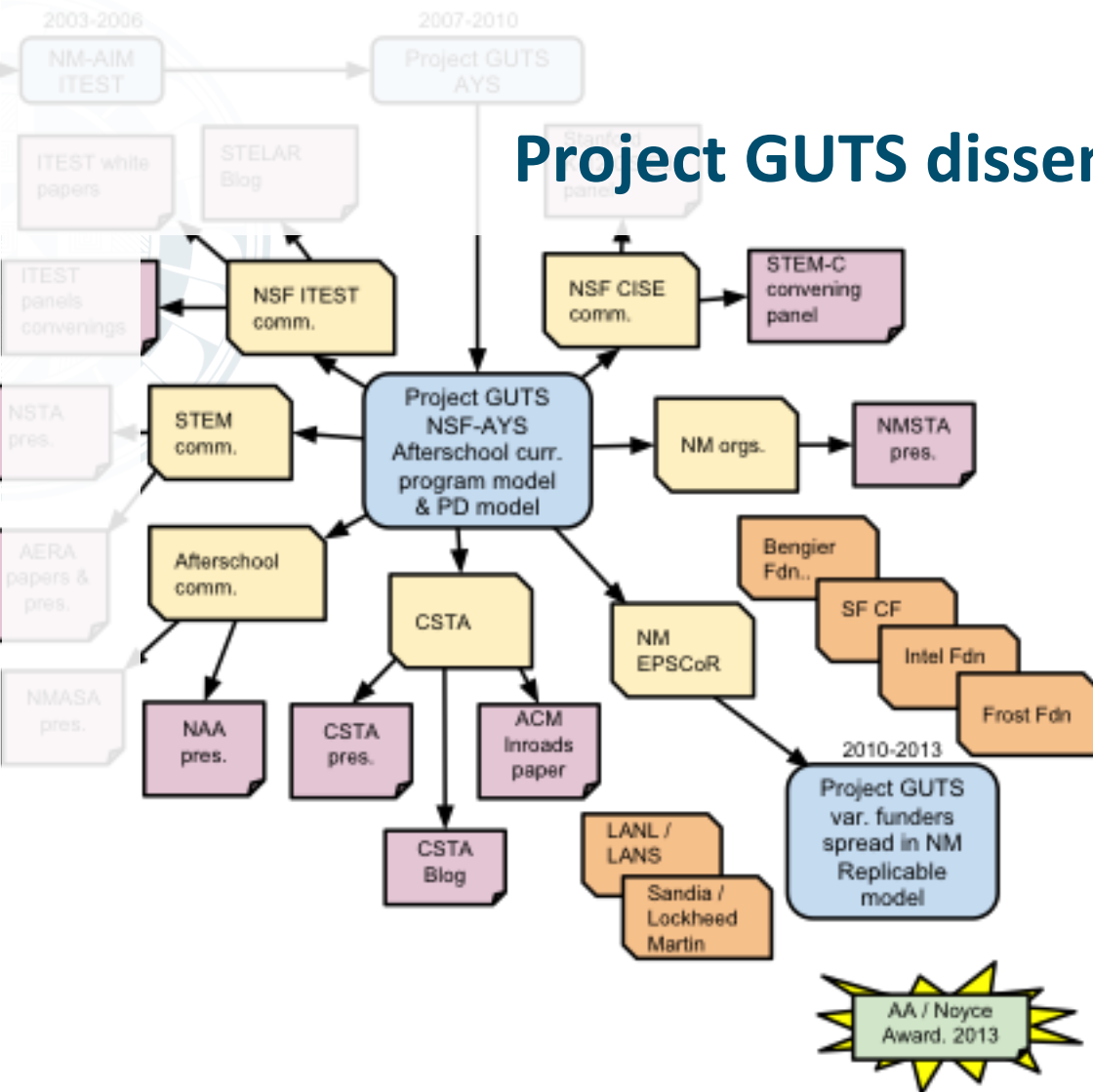
Project GUTS dissemination



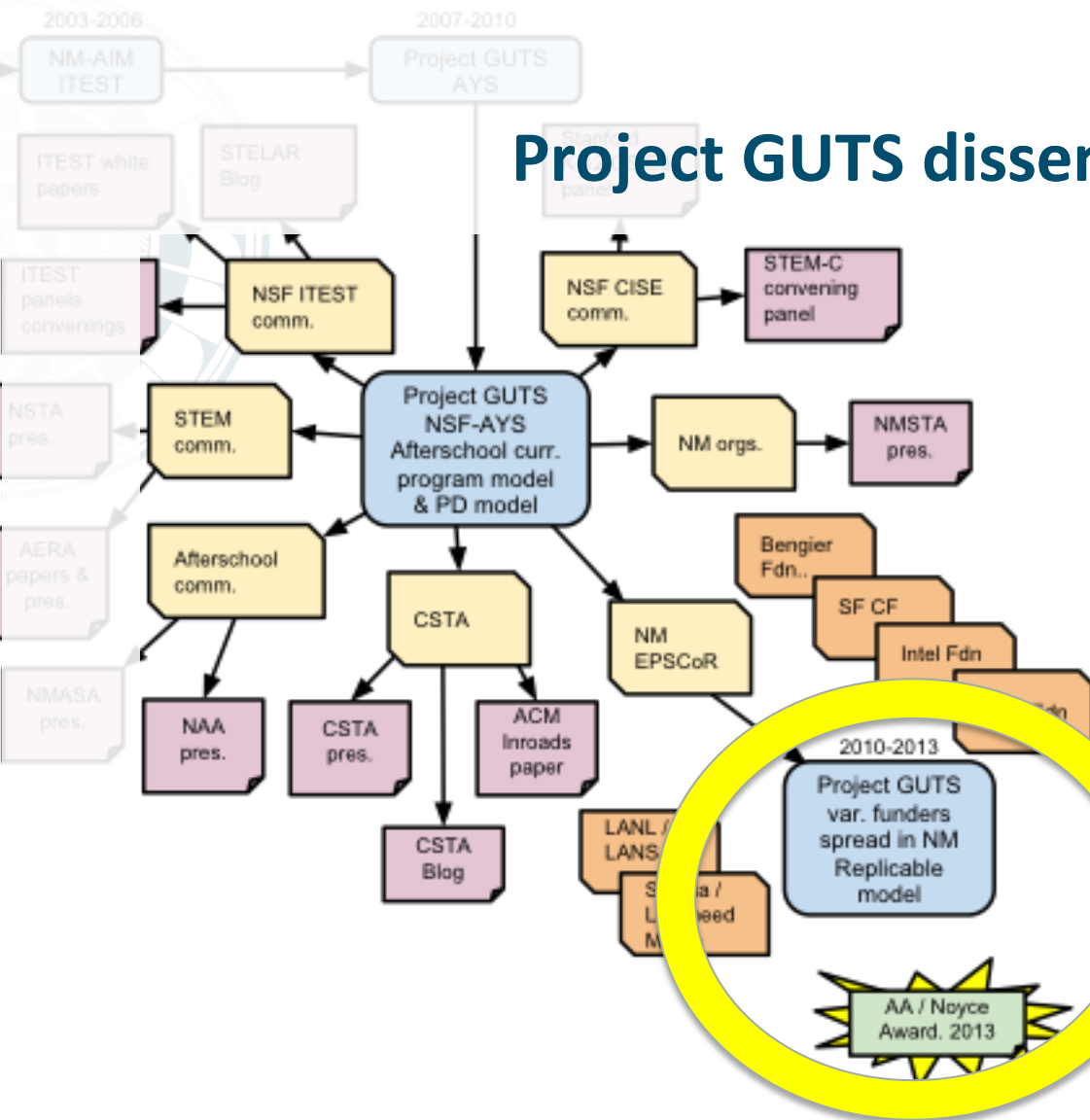
Project GUTS dissemination



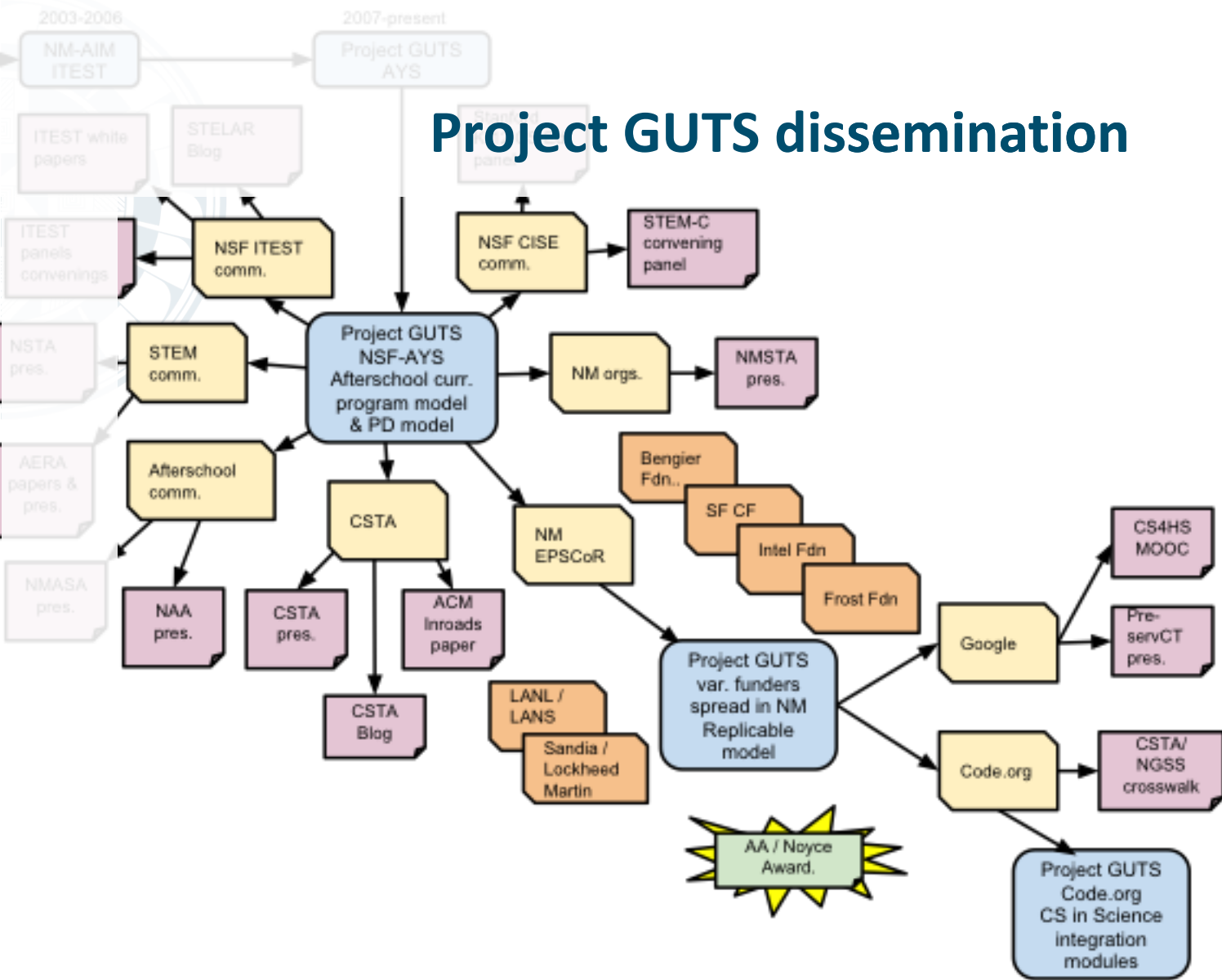
Project GUTS dissemination



Project GUTS dissemination



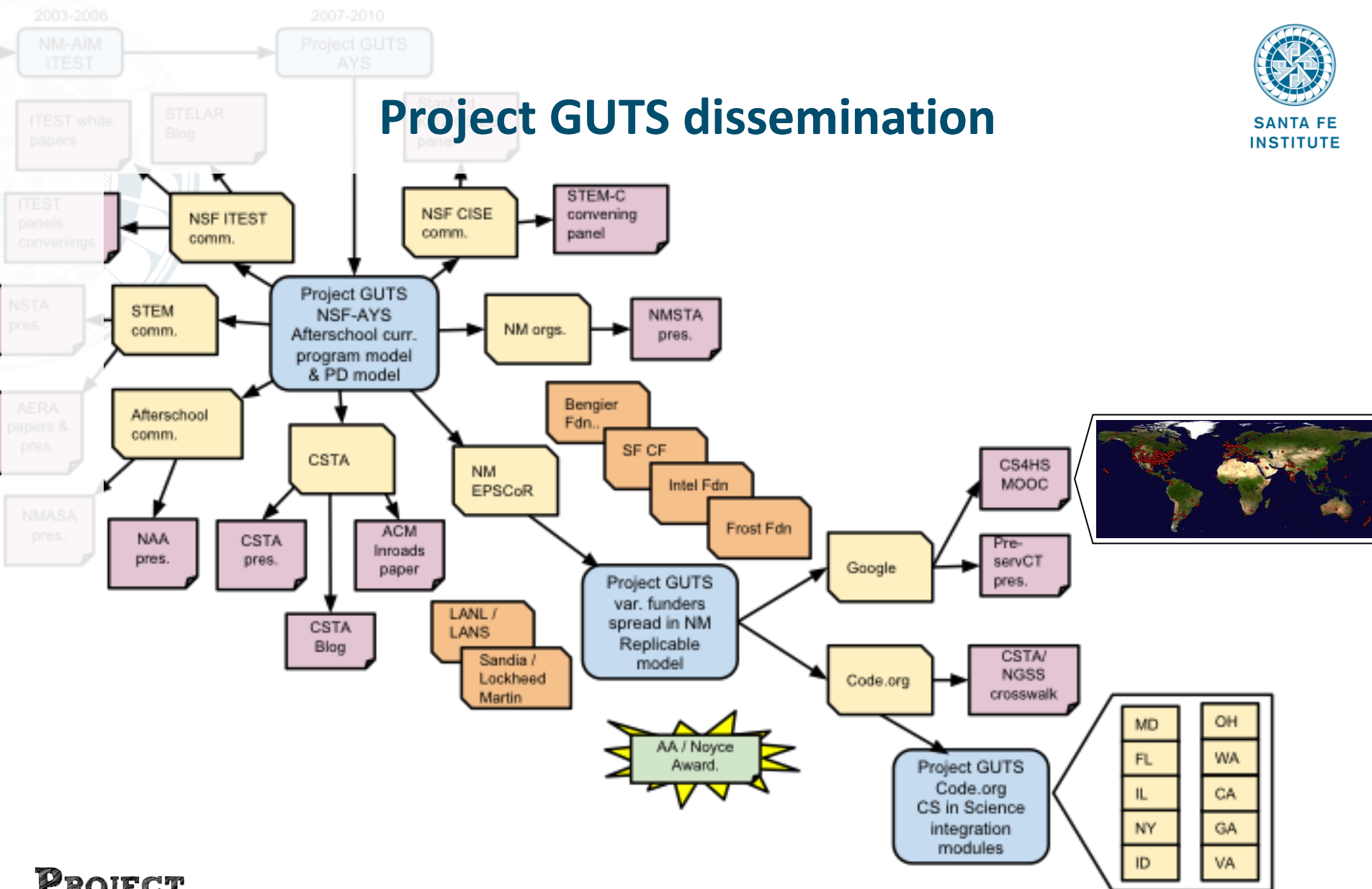
Project GUTS dissemination



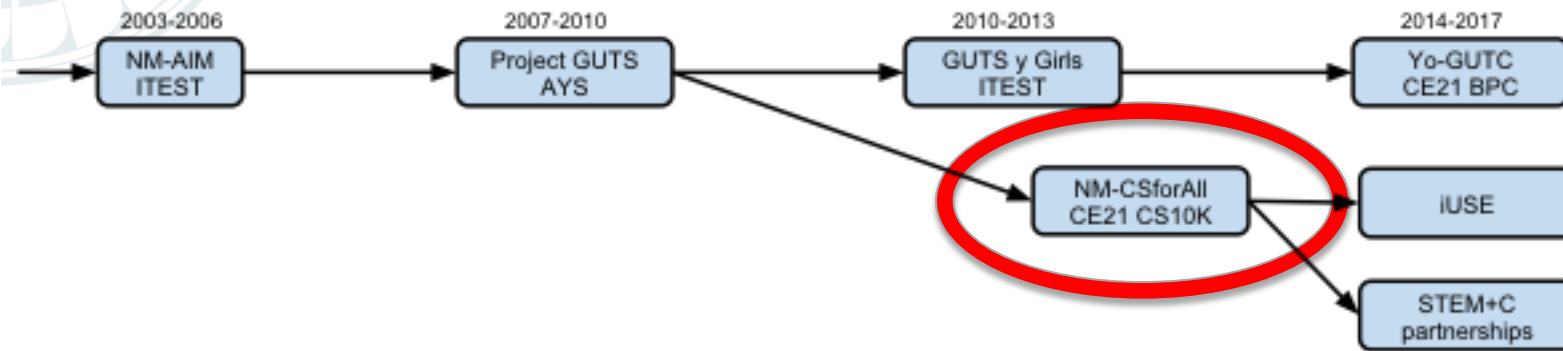


SANTA FE
INSTITUTE

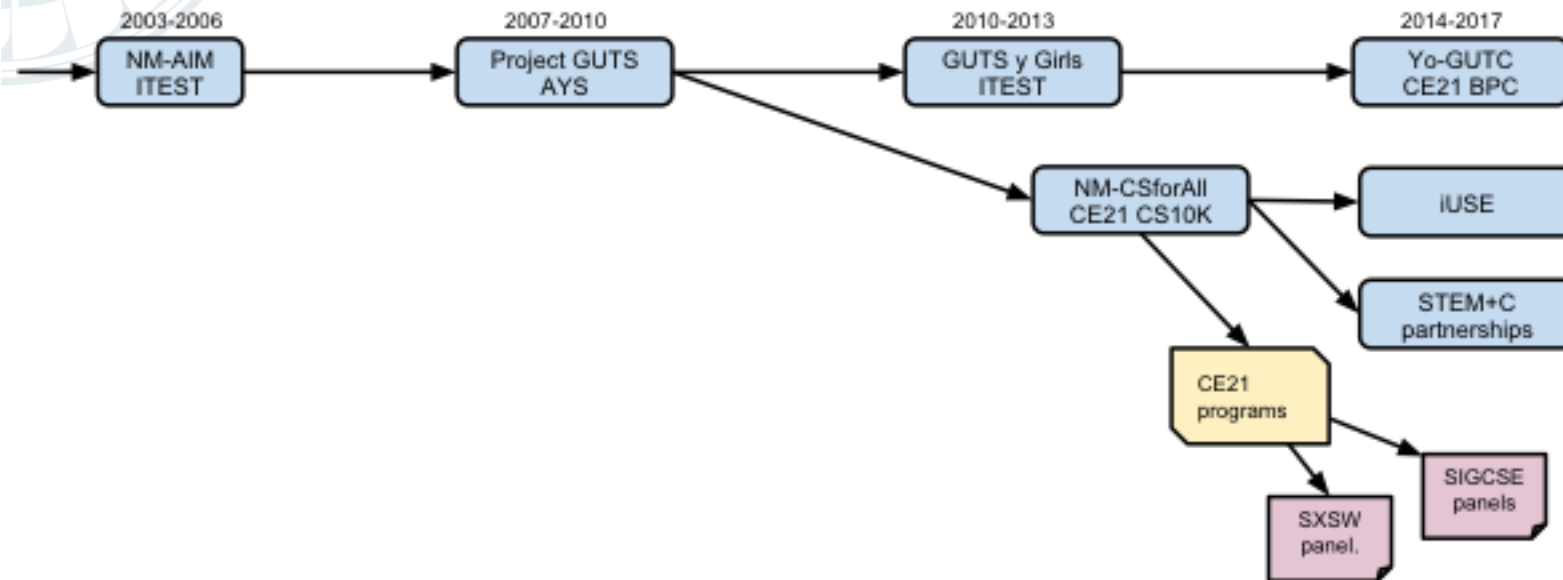
Project GUTS dissemination



Project GUTS dissemination



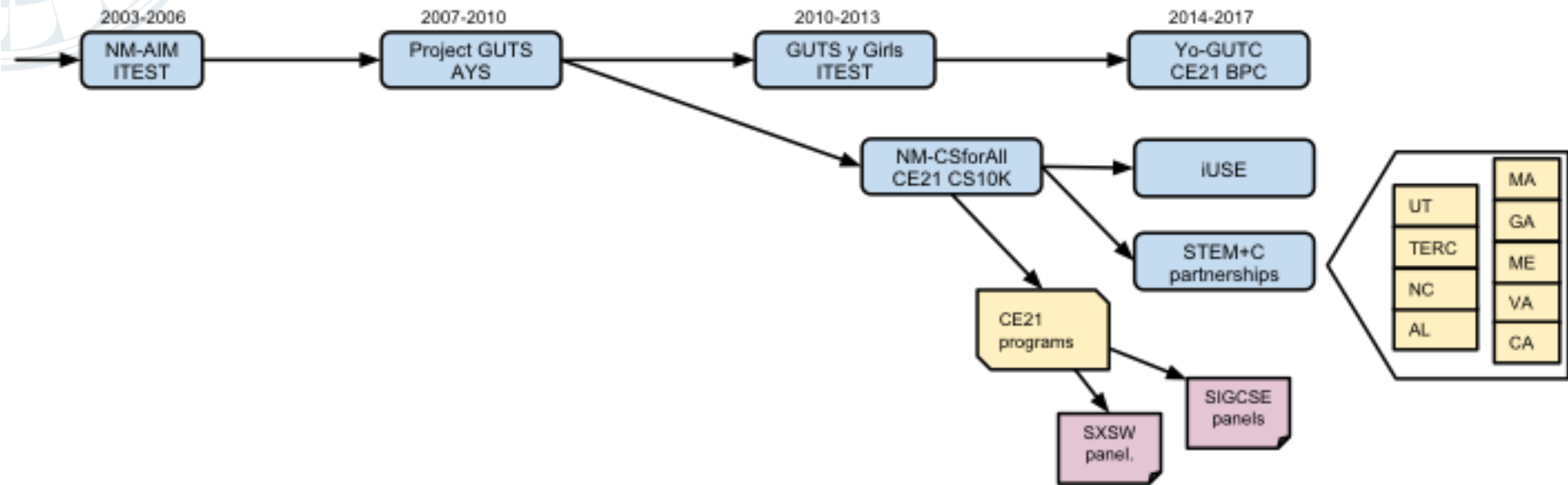
Project GUTS dissemination





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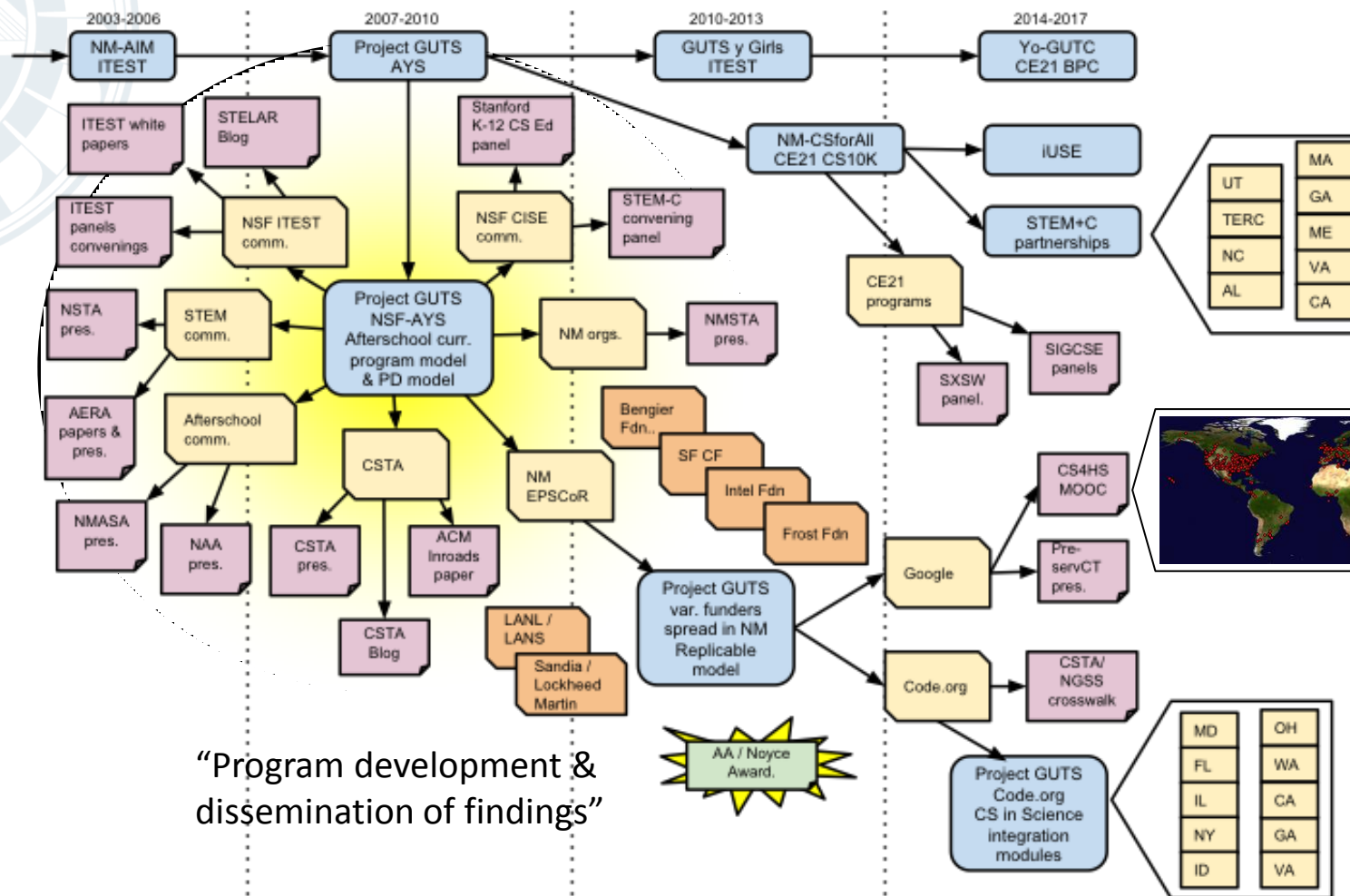
Project GUTS dissemination





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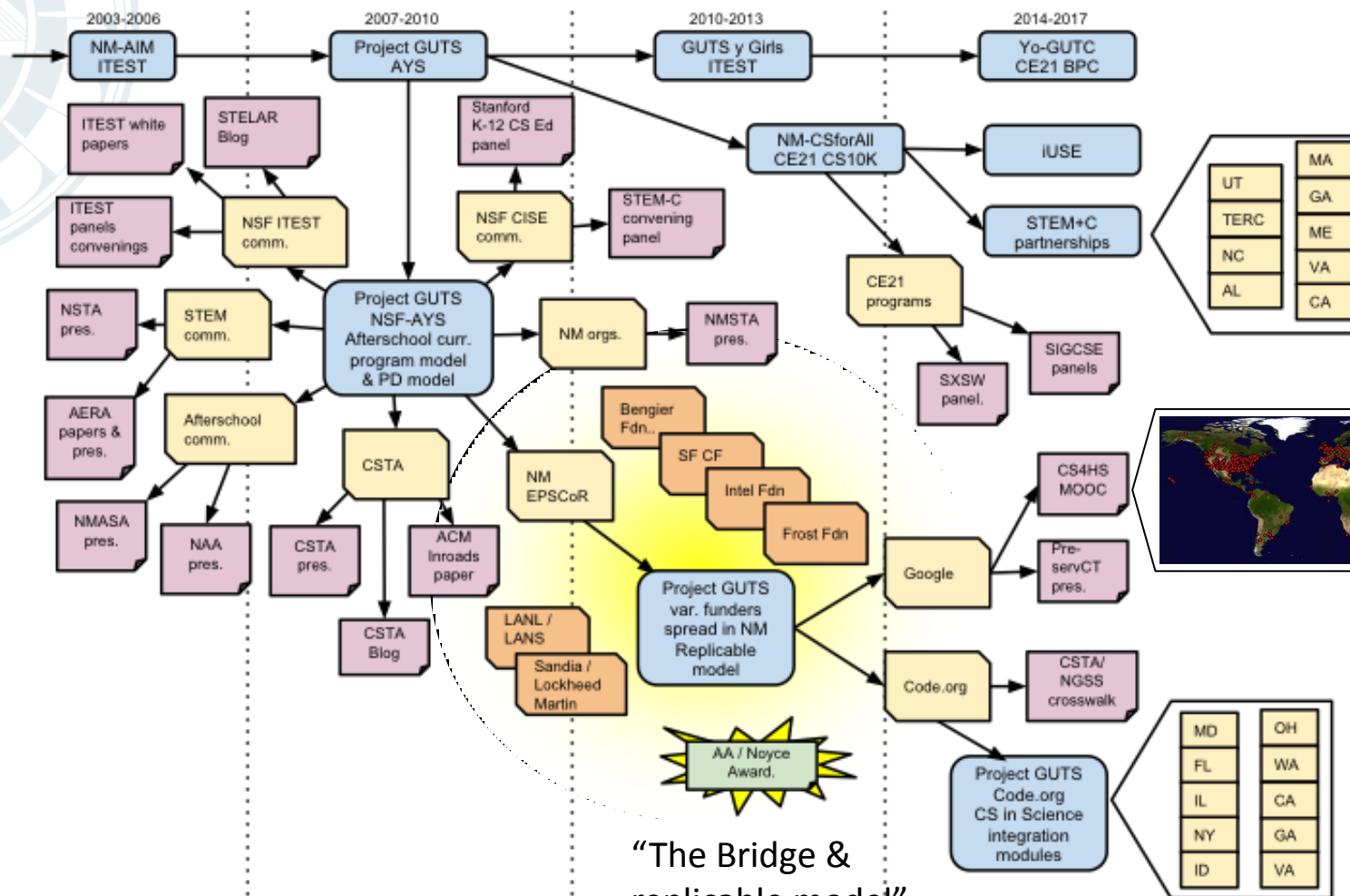
Project GUTS dissemination





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Project GUTS dissemination

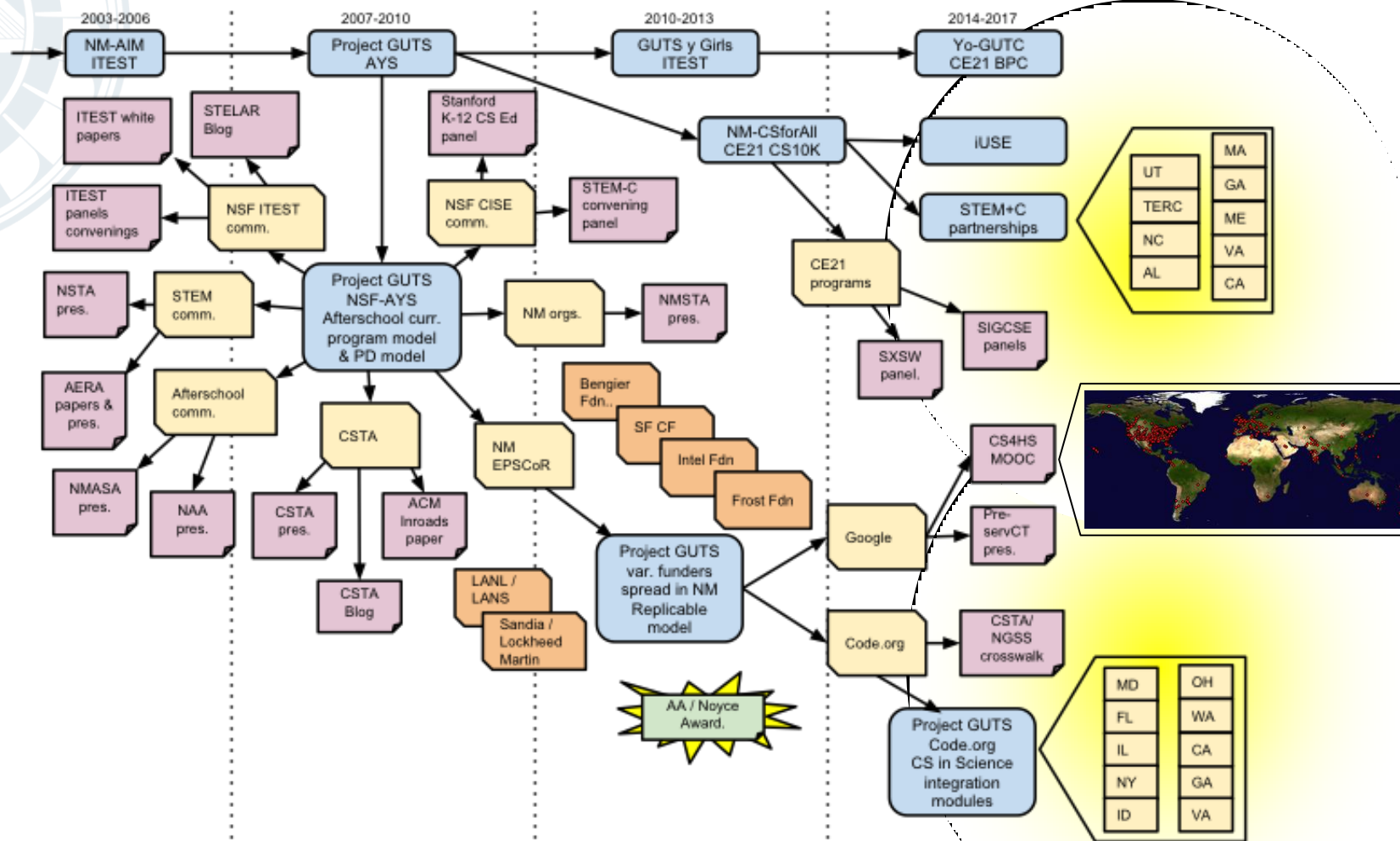


“The Bridge & replicable model”



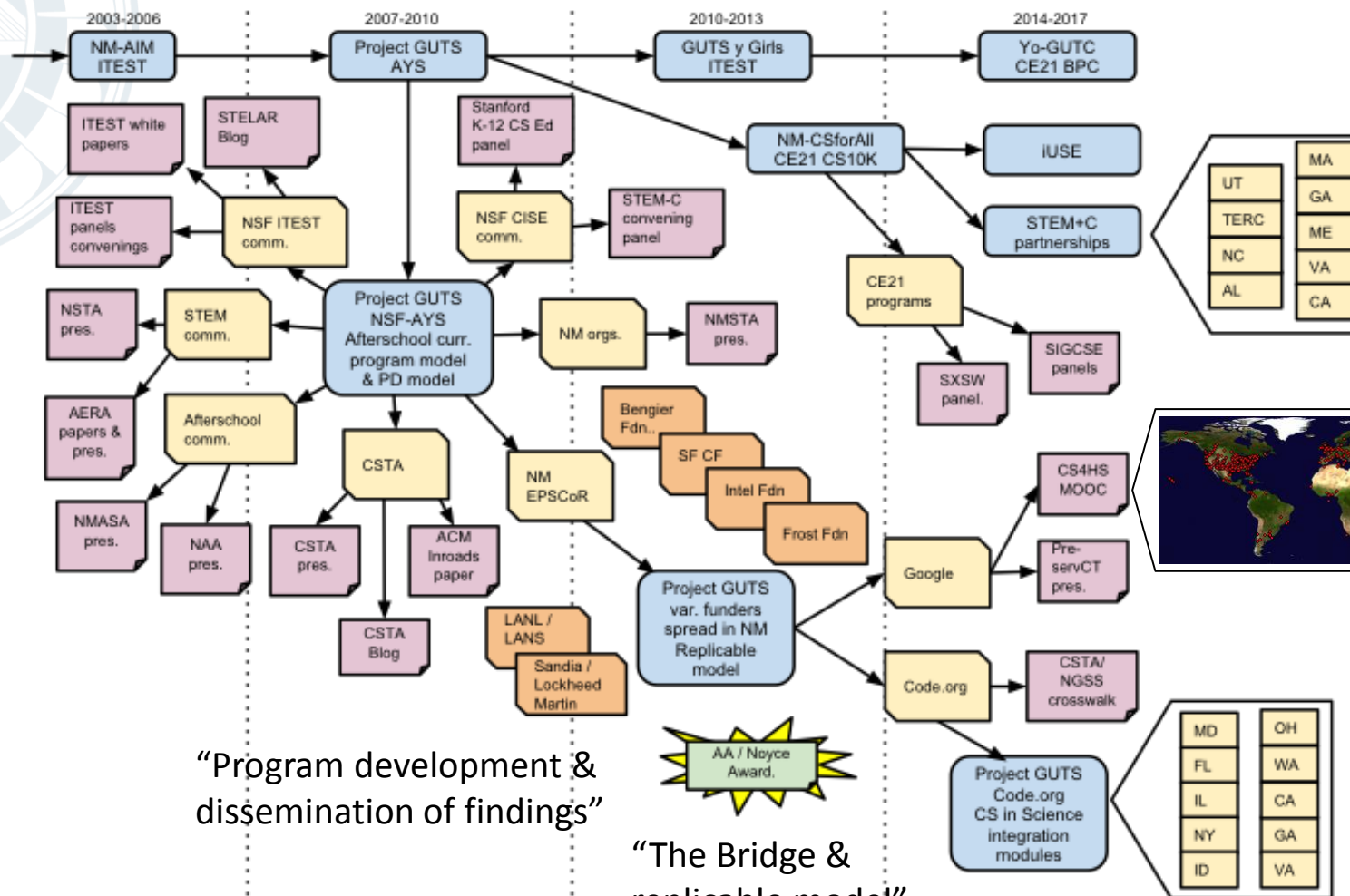
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Project GUTS dissemination



“Diffusion of innovation”

Project GUTS dissemination

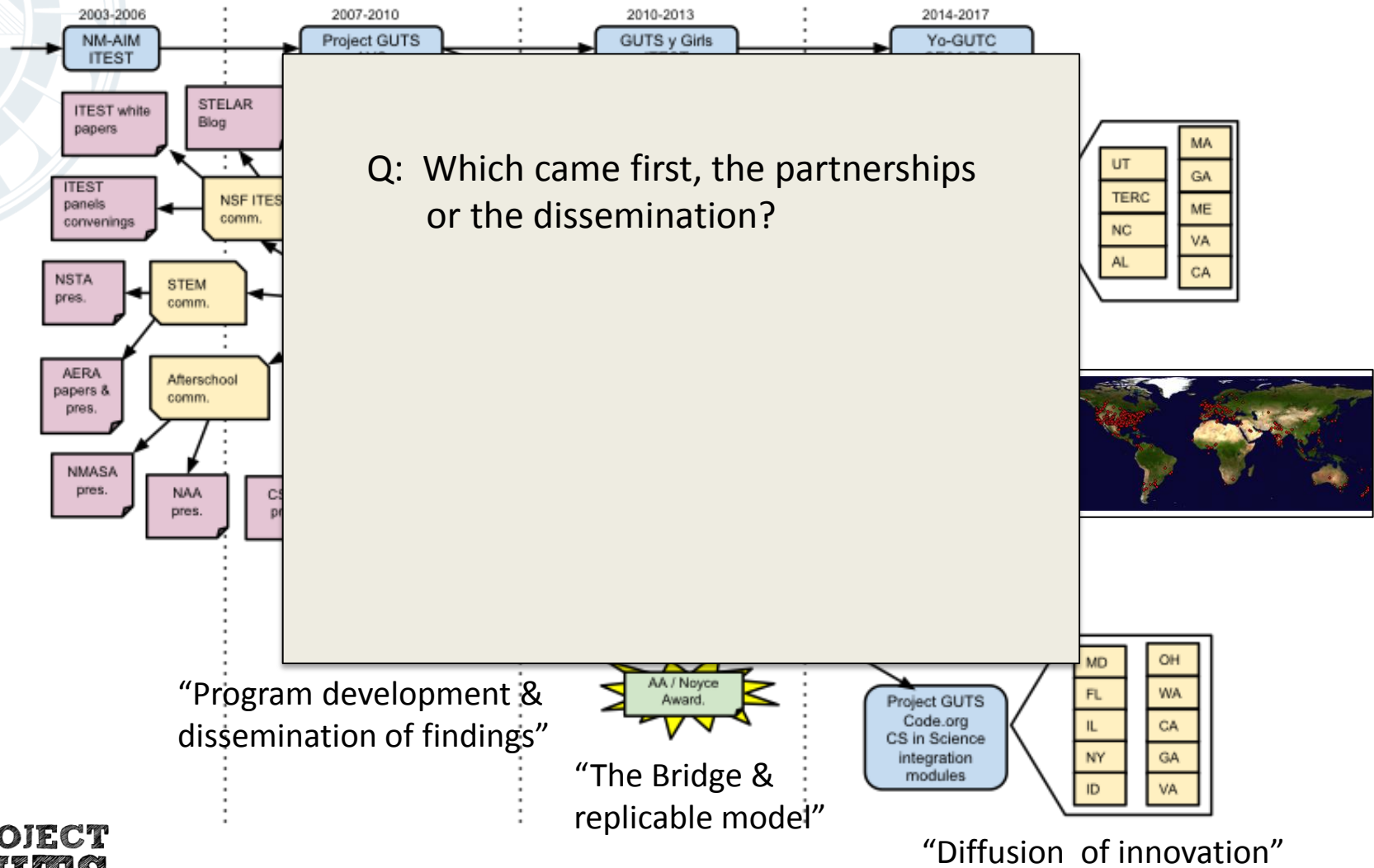


“Program development & dissemination of findings”

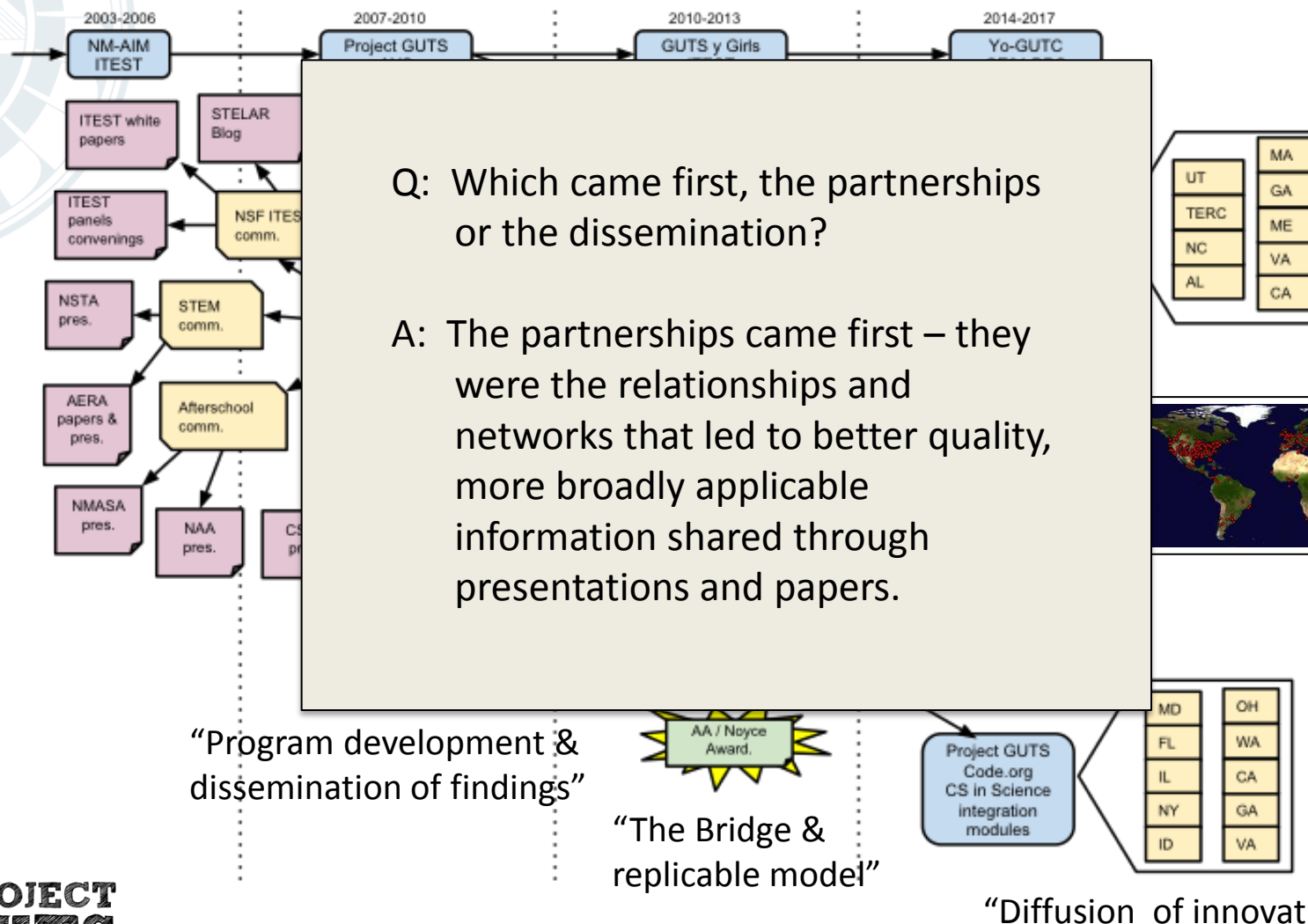
“The Bridge & replicable model”

“Diffusion of innovation”

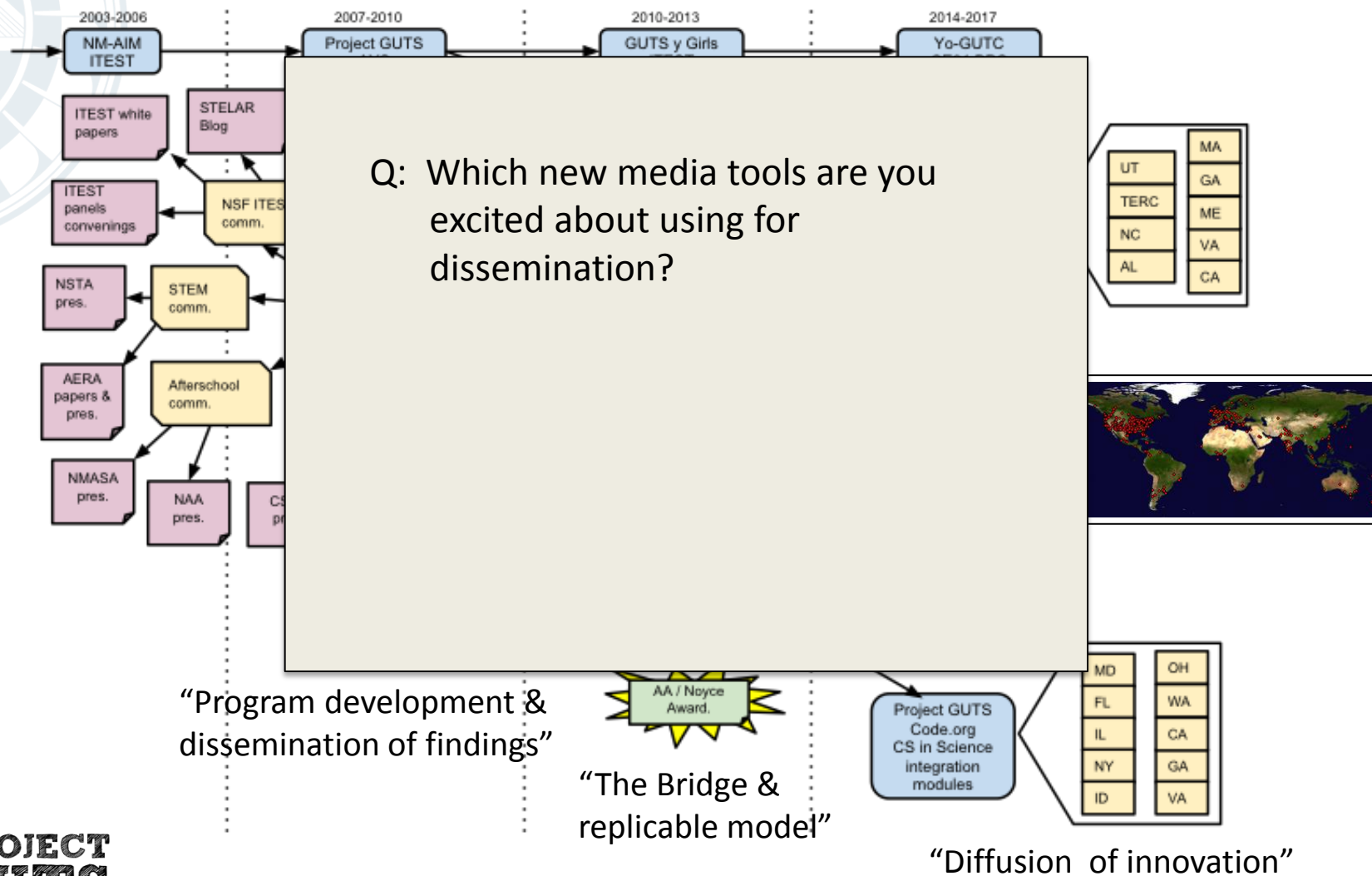
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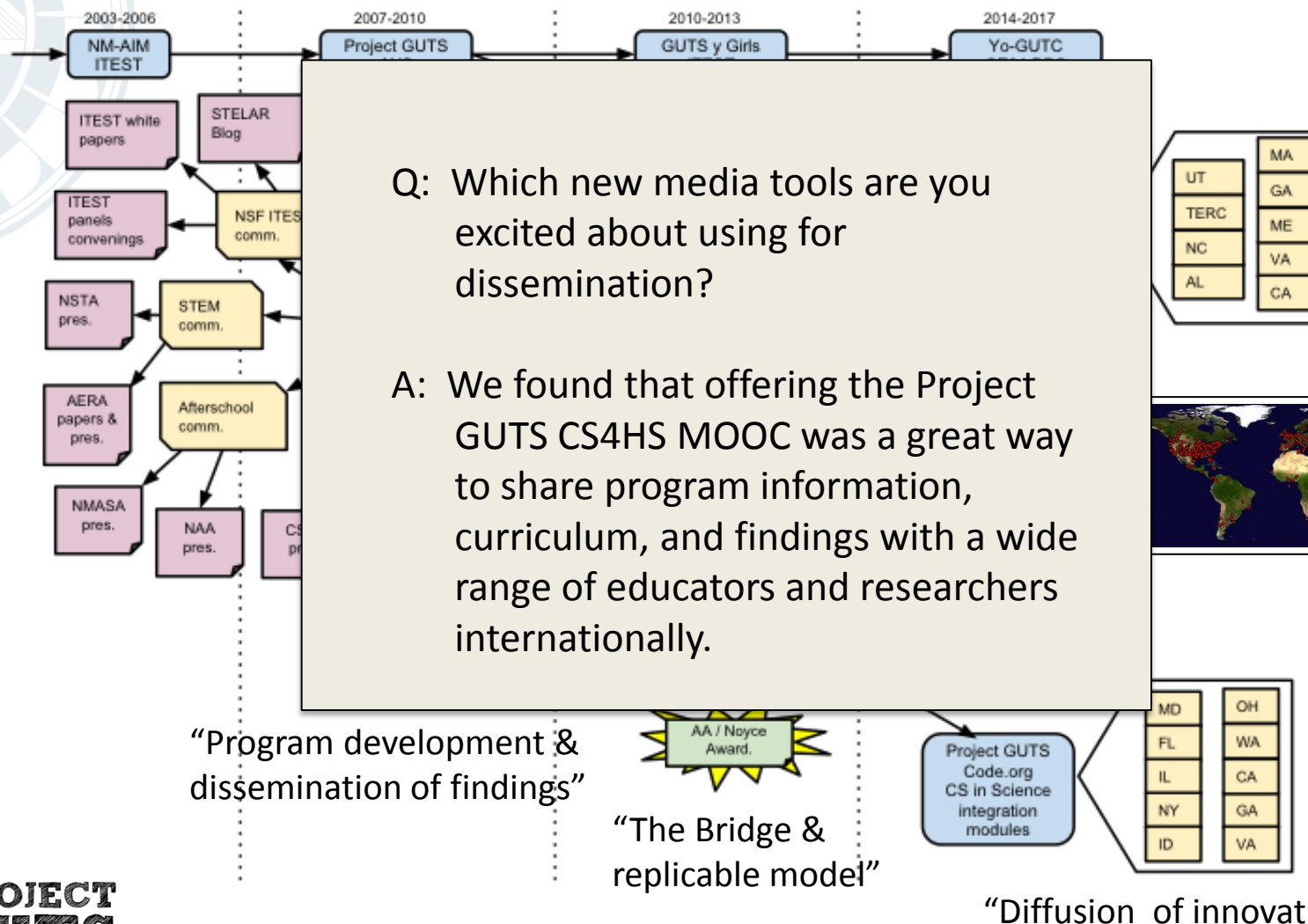
Project GUTS dissemination



Project GUTS dissemination



Project GUTS dissemination



Project GUTS dissemination

- **Dissemination**
 - Partnerships
 - Papers and Presentations
 - Opportunities for growth and diffusion of innovation later
 - Human network (people spread the word)
- **Shift and adapt**
 - Spread from OST to IST with Code.org
 - Integrated into other program's formats
- **Diffusion of Innovation**
 - Refined, streamlined curriculum
 - Tested PD that suits teachers' needs
 - Documented coherence with Standards
 - Partners with distribution channels



Thank you!

Contact: Irene A Lee, Santa Fe Institute
lee@santafe.edu
projectguts.org @projectguts
code.org/curriculum/mss





Strategies for Project Dissemination

**An Example from the Next
Generation Preschool Math
(NGPM) Project**

44

Ashley Lewis Presser, Ph.D.

NGPM Project Goals



- NGPM seeks to **promote early math learning** by:
 - Supporting **children's understanding of content** in order to improve readiness for subsequent math learning, particularly for at-risk children
 - Using **tablets** in digital learning centers with a small number of devices (4-5),
 - Integrating digital **with non-digital activities** (1:5 ratio);
 - Providing **professional and technical support** materials for preschool educators.

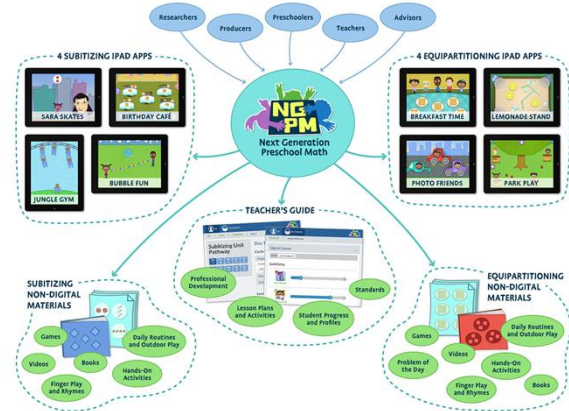
NGPM Intervention

- Six Week Intervention
 - Two Units (3 weeks each): Subitizing & Equipartitioning
 - Based on learning trajectories (Clements & Sarama, 2009; Confrey et. al, 2009)
- Each unit includes
 - 4 Digital Games
 - Non-digital activities
 - Digital Teachers Guide
- In Person Teacher Professional Development



Consider What To Share

1. NGPM Curriculum
 - Digital iPad Game
 - Non-digital Classroom Activities
 - In Person Teacher Professional Development
2. Research Findings
3. Development of the Student Assessment
4. Lessons Learned about the Collaborative Design-Based Research Process



Consider Potential Audiences

1. Researchers
2. Teachers
3. Parents
4. Children
5. Public



Dissemination Venue by Audience

	Researchers	Teachers	Parents	Children	Public
App Stores	X	X	X	X (experience games)	X
Websites	X	X	X	X (experience activities)	X
Journal Articles	X	X			
Conferences	X	X			
Newspaper/Social Media	X	X	X		X
Other (NSF Video Competition)	X				

For Example: A Wide Variety of Conferences

- American Education Research Association (AERA)
- Society for Research on Child Development (SRCD)
- National Council of Teachers of Mathematics (NCTM)
- South by Southwest (SxSW)
- Head Start: Teacher and Research Conferences
- American Evaluation Association & Local Evaluation Associations
- Society for Research on Educational Effectiveness (SREE)
- Society for Information Technology and Teacher Education (SITE)
- International Society for Technology in Education (ISTE)
- International Design for Children (IDC)

1. Sharing the NGPM Curriculum: Digital Games



- Digital iPad Game
 - Published games in app store
 - Posted videos with game demonstrations (1 minute long) on the blog
 - Received award for one game
(<https://www.graphite.org/top-picks/best-edtech-of-2014>)
 - One measure of success is # of downloads

Sharing the NGPM Curriculum: Digital Teachers Guide

- Digital Teachers Guide Website includes:
 - Non-digital Classroom Activities
 - Math Content
 - Teaching Tips



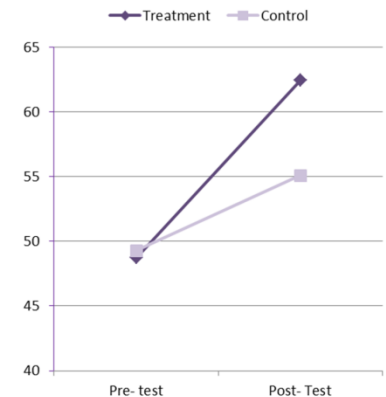
Sharing the NGPM Curriculum: In Person Professional Development

- Hope to create videos of parts of the PD to supplement the digital teachers guide



2. Sharing Research Findings

- Researcher Audience
 - Journal Articles for experimental study
 - Short video presentation (NSF video competition)
- Teacher Audience
 - Article in Teacher Journal
 - Website with Curriculum
 - Apple store
 - PD videos
- Both Audiences
 - Conference presentations

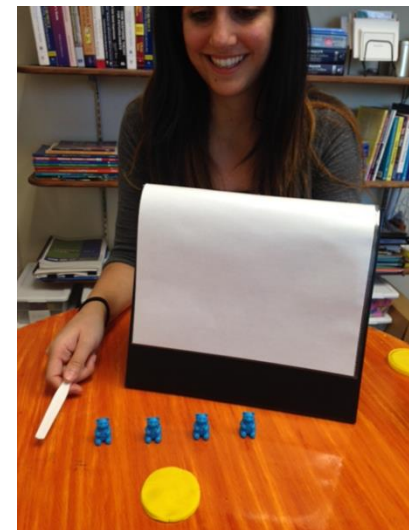
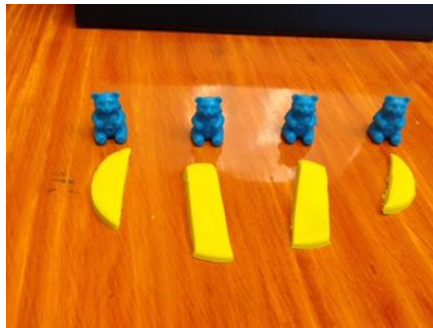
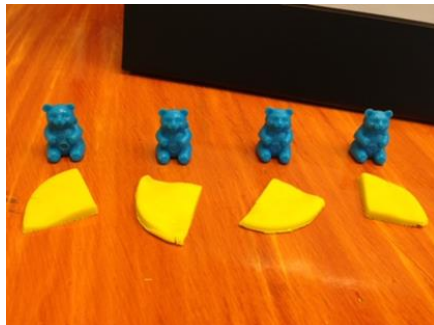


Sharing Research Findings

- Parent Audience
 - Apple store, blog posts
- Children
 - Experience games & activities themselves
- Public can access
 - Games & Activities
 - Newspaper article
 - Social Media
 - All published work

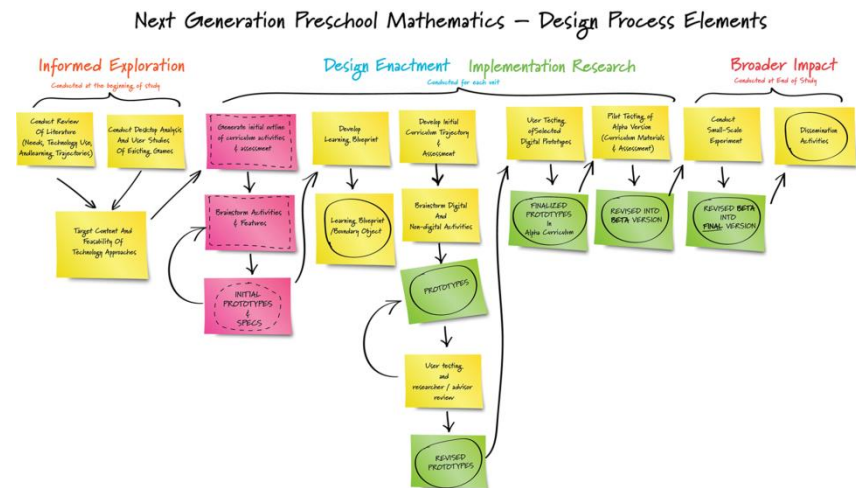
3. Sharing the Development of the Student Assessment

- Researcher Audience
 - Journal Articles on development and piloting
 - Conference Presentations
 - Possible blog post on an evaluation or research focused blog
 - Short video presentation
- Future area for work



4. Lessons Learned about the Collaborative Design-Based Research Process

- Researcher Audience
 - Journal Articles on our collaborative, design-based research and development process
 - Conference Presentations
 - Possible blog post on an evaluation or research focused blog
 - Social Media
 - Short video presentation
- Future area for work



Final Notes on Dissemination

- Balance between creating something innovative and capturing that program in such a way that it can be scaled up.
 - Think about scale up early and often.
 - Have intervention documented in sharable way
- It can be a challenge to maintain websites and apps after the conclusion of the grant. Try to plan for how to sustain these types of dissemination efforts.
- Finally, dissemination plans should be flexible enough to jump in on unexpected opportunities!

More NGPM Project Information

<http://first8studios.org/>

<http://nextgenmath.org/>

<http://cct.edc.org/projects/next-generation-preschool-math>

<http://www.sri.com/work/projects/next-generation-preschool-math>



This research was funded by the National Science Foundation (DRL-1119118). Any opinions, findings, conclusions, or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.



Challenges of **Scaling** Funded Research Projects

David Reider
Education Design, INC

www.educationdesign.biz

scalability

Ability of a system, network, or process to handle a growing amount of work or be enlarged to accommodate that growth.

-Up: Vertical; add more resources to a node

-Out: Horizontal; add more nodes to the system

Is Scale-up the wrong way to think about things?

three project cases to think about

- **CompuGirls (ASU)** Scale-Up, 2012-2017
 - AZ, CO, CA
- **GRACE (EMU)** (MYTC Scale-Up), 2014-2018
 - MI
- **ITSI (Concord)** Scale-Up, 2009-2015
 - VA, KS, IA, AK; CA, PA



scale-up framework

(Dede, et al. 2003, 2007)

Microsoft

◀ REPLAY THE SCALING INTRO

▶ SKIP AHEAD TO THE INTERACTIVE FRAMEWORK

The Scaling Framework

◀ BACK

NEXT ▶

DIMENSIONS OF SCALE	DEPTH	SUSTAINABILITY	SPREAD	SHIFT	EVOLUTION
POWER OF DIMENSION	EVALUATION AND RESEARCH	ROBUST DESIGN	REDUCING NEEDS FOR RESOURCES AND EXPERTISE	MOVING BEYOND BRAND TO CO-OWNERSHIP	RETHINKING THE MODEL
TRAPS TO AVOID	TRAP OF PERFECTION	TRAP OF MUTATION	TRAP OF OPTIMALITY	TRAP OF ORIGINATION	TRAP OF UNLEARNING
ROLE OF TECHNOLOGY	CREATING POWERFUL LEARNING	MEETING SPECIAL NEEDS	PROVIDING EFFICIENCIES AND SUPPORTS	ADAPTING AND SHARING	STUDY OF ADAPTATIONS
NEXT STEPS TO EXPLORE	UNDERSTANDING EFFECTIVENESS	COPING WITH DIFFICULT SETTINGS	DEVELOPING "LIGHT" VERSIONS	FOSTERING CO-DESIGNERS	EVOLVING DESIGN ASSUMPTIONS

scale-up framework

critical components for scale-out

DEVELOPING
"LIGHT"
VERSIONS

TRAP OF
OPTIMALITY

MOVING BEYOND
BRAND TO
CO-OWNERSHIP

ADAPTING AND
SHARING

REDUCING NEEDS
FOR RESOURCES
AND EXPERTISE

scale-up framework

critical missing components



Costs

critical missing components: costs

Costs: \$

**Costs:
Opportunity**

Costs: Time

**Costs:
Curricular**

**Costs:
Personal**

conflicts of design:

agency funded vs. market-based

AGENCY SUPPORTED (low scale)

market model:

- proof of concept
- singularly distributed

MARKET BASED (high scale)

market model:

- proven concept
- widely distributed

conflicts of design: participant costs

agency funded (low scale) vs. market-based (high scale)

AGENCY SUPPORTED (low scale)

- average cost: \$765/student
- range of: \$400/student to \$8900/student

MARKET BASED (high scale)

- needs to be on par with that of a textbook or other similar costs (<\$100/student)

conflicts of design: implementation costs

agency funded (low scale) vs. market-based (high scale)

AGENCY SUPPORTED (low scale)

- fully supported, \$ costs absorbed
- ask participants to take stipends, equipment
- offer training for free
- participants still need to invest (cost) time, curricular coverage, comfort

MARKET BASED (high scale)

- out of pocket or institutional costs (actual)
- pay for equipment
- pay for training
- participants still need to invest (cost) time, curricular coverage, comfort

conflicts of design: skill sets

academic vs. business

ACADEMIC (low scale)

- school-based, educational
- value of research
- departmental scope
- non-profit or spend-down

BUSINESS (high scale)

- targeted marketing
- value of management
- organizational scope
- profit-minded

conflicts of design: program elements

academic vs. business

ACADEMIC (low scale)

- professional training
- multiple outcomes
- multiple subjects
- specialized technologies
- high research impact

BUSINESS (high scale)

- standalone training/DIY
- singular outcomes
- single subject
- existing technologies/platforms
- low research impact

conflicts of design: access

academic vs. business

ACADEMIC (low scale)

- provided technologies
- supported access (IT, help)
- provided materials

BUSINESS (high scale)

- need to own
- unsupported
- consumer acquired materials

problems identified in ITEST projects to scale out

problems

problem of gravity problem of message problem of audience

problem of capacity problem of funding problem of access

case: ITSI-SU, MYTC

problem of gravity

- after one-year support and research, many classes return to business-as-usual
- evaluation findings favorable
- usage costs too high
 - prep time
 - lesson time longer than traditional model
 - shifts of practice demands: didactic toward inquiry
 - time away from test-preparation

case: **ITSI-SU, MYTC**
solutions to problem of gravity

- support classroom work in successive years
- support with local staff on the ground
- lessen the optimality, allow **light** implementations
- fewer components required
 - fewer assessments
 - improving technologies (i.e. probeware, html 5)
- master teacher network
- continue into new grants (MMW, GRACE)

TRAP OF
OPTIMALITY

DEVELOPING
"LIGHT"
VERSIONS

case: ITSI-SU, CompuGirls

problem of message

- targeting grades 1-12, SPED
- all STEM subjects (physics, chem, gen science, math, etc.)
- computer-based simulations & modeling
- probeware data input
- inquiry-based science learning
- online PD for teachers with video documentation

case: ITSI-SU

solutions to problem of message

TRAP OF
OPTIMALITY

- lessen the need for all elements

DEVELOPING
“LIGHT”
VERSIONS

- allow light implementations
- focus on the strongest subject area response
 - gen science, env science
- focus on the strongest grade level response (middle school)
- adapt and share, requires a retuning of the message
 - “It’s about learning science with probes and real data”
- continue into new grants (MMW), more tightly targeted

case: GRACE

problem of access

- inner-city, urban population with low technology access
- access to STEM jobs and college a faraway vision
- PD difficult for teachers in urban schools
 - transportation, time, other conflicts
- schools have low access to adequate technologies
 - multiple & uneven platforms
 - underpowered
 - low bandwidth or firewalls
 - no IT support
 - tight institutional regulations on technology access and use

case: GRACE

solutions to problem of access

- entirely online technology platform, no need for individual platform specifics
- OST model using personal mobile technologies
 - (high penetration in low income populations >90% smartphone)
- GRACE project statewide: different contexts and different solutions
- Hybrid (f2f + online) PD to lessen barriers to participation

ADAPTING AND
SHARING

case: GRACE, ITSI, CompuGirls
problem of audience

- in-school grades or after-school?
- STEM only or social-studies (GIS)?
- girls to learn technology or girls needing to tell their stories?
- geographic tool or social-science tool?
- urban, rural, suburban contexts, who responds best?

case: GRACE, ITSI, CompuGirls

solutions to problem of audience

- partnering with professional GIS organization (mapping professionals) to identify participants and communities
- partnering with publisher (Select Media) to define audience
- different levels of participation define different audience types
 - (slight interest to internship)
- partnering with local organizations to define audience
 - (MIVU, Boys & Girls Club, Oakland Public Library)



ADAPTING AND
SHARING

case: GRACE, CompuGirls

problem of capacity

- many demands for implementation
- rotating staff
 - academic department: temporary positions, work study, post-docs, researchers leaving
- different contexts of implementation
 - in-school, OST, 2-week, 5-week models, etc.
- multiple different projects around the same product
 - ITEST-SU, NRI, REU, GSE, requiring different research and implementation agendas
- continued focus on research, need for operations

case: **GRACE, CompuGirls**
solutions to problem of capacity

- establishment of a center or institute, non-profit to address growth of program
- lessen emphasis on research, increase operations
- professionalize the staff, hire from outside
- establish regional POCs, no longer just manager or PI

TRAP OF
OPTIMALITY

case: ITSI, GRACE, CompuGirls
problem of funding

- post-project, no support
- new demands require personnel and materials
- simply maintaining a website with free materials and curriculum costs
- newly developed technologies need to be updated

case: ITSI, GRACE, CompuGirls

solutions to problem of funding

- partnership with distribution and scale organization
 - publisher (Select Media)
 - training organization (MIVU)
- lessen emphasis on research, increase operations
- professionalize the staff, hire from outside
- establish regional POCs, no longer just manager or PI

MOVING BEYOND
BRAND TO
CO-OWNERSHIP

ADAPTING AND
SHARING

TRAP OF
OPTIMALITY

to recap

- There is a body of research on bring projects to **scale**
 - read up, identify elements that are core to your project's scaling
 - scaling **up** or scaling **out**?
- There are multiple types of **costs** to scaling
- There are fundamental **conflicts** between the support models
 - What works for one may not (will not?) work for the other
- Our community must reference and partner with the **business** community

to recap

- You are **way ahead** of traditional business development process
 - typically you need to raise \$, after proven model works
 - here you're given \$1M to try out an idea, you only need endure the proposal process
 - think of scaling as a design component, not an final year activity
- Projects have been **successful** in negotiating several of these factors
 - Should be identified at the proposal stage
 - Should be acted on as early as Year 1



Challenges of **Scaling** Funded Research Projects

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Q & A

THANK YOU!

Please remember to fill out the evaluation survey:

https://edc.co1.qualtrics.com/SE/?SID=SV_3sifHzCA1UhoRNj