CURIOSITY UNLEASHED

STEM ACTION CENTER

U · T · A · H

EAC Presentation

June 17, 2014

UTAH LIFE ELEVATED

Utah Governor's Office of Economic Development

STEM Center's Objectives

- Partner with STEM stakeholders
  - Improve math proficiency in K-16
  - Enhance high quality professional development
  - Support teacher preparation
  - Build career pathways
  - Improve applied STEM opportunities
  - Engage and inform students and community

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HB 139 Funding

The bill includes funding in the amount of $10,000,000 ($8,500,000 one time and $1,500,000 ongoing)

The **one time** funds will be allocated:

- **$5,000,000** to provide **math digital learning** deployment to **grades 6-8** and related professional development to support mathematics instruction; and
- **$3,500,000** to provide **math digital learning** deployment to prepare secondary students for college mathematics courses and related professional development to support mathematics instruction

The **ongoing** funds will be allocated:

- **$1,500,000** to establish the STEM Action Center

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HB 150 Funding

The bill includes funding in the amount of $20,000,000 ($15,000,000 one time and $5,000,000 ongoing).

The **one time** funds will be allocated:

- **$5,000,000** to provide STEM education high quality **professional development;**
- **$3,500,000** to support STEM education **middle school applied science initiative**;
- **$5,000,000** to support **high school STEM certification**;
- **$1,500,000** to fund the develop the **STEM education endorsement and related incentive program**; and
- **$5,000,000** to fund grades K-6 **math digital learning** tools

The **ongoing** funding will be allocated:

- **$5,000,000** to support **K-12 professional development**

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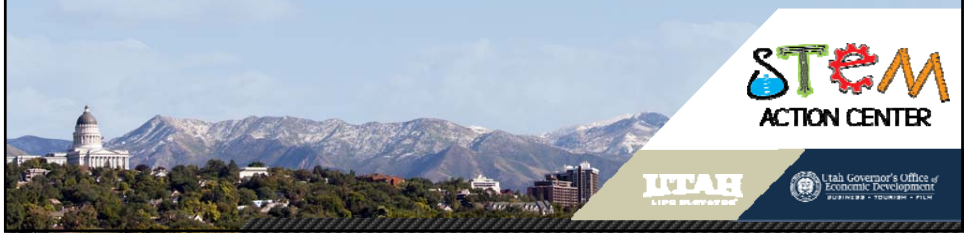
Applications for Math Technology

6-8th grade products

- Appropriated Funding: $5 million ($2.5M/yr)
- Requests:
  325 schools
  78,795 licenses
  $3,014,189/year

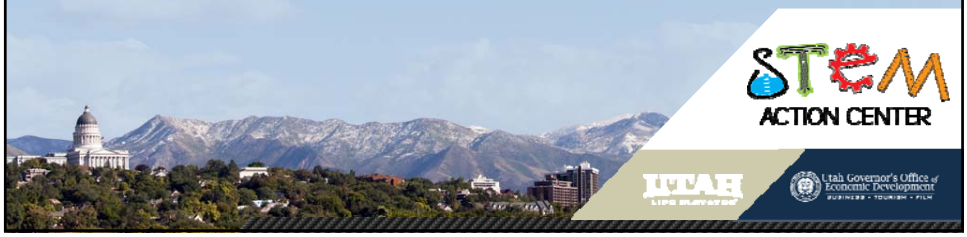
9-12th grade products

- Appropriated Funding: $3.5 million ($1.75M/yr)
- Requests:
  151 schools
  83,480 licenses
  $2,729,849/year



6-12 Math Technology Deployment

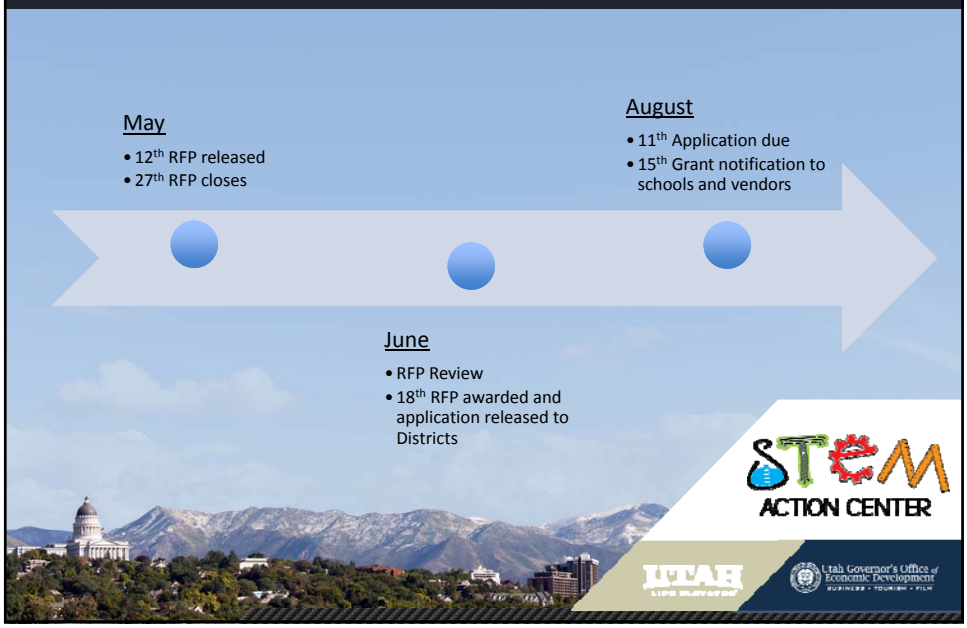
- Grades 6-8
  - 325 schools applied/served
  - 65,155 math product licenses
- Grades 9-12
  - 151 schools applied/served
  - 52,931 math product licenses



Sample Return on Investment Analysis

Product, Product Provider	Donated Licenses, Memberships, or Materials	Approximate Value of Donation	Approximate Cost Per Student	Average Effect Size	Cost-Effectiveness (SD) for every $10 per student
ALEKS®, ALEKS Corporation	1,739 students in 11 schools	$103,462.50	$59.50	0.36	0.06
ST Math®, MIND Research Institute	1,596 students in 8 schools	$153,000.00	$95.86	0.29	0.03
Think Through Math, Think Through Learning Inc.	2,152 students in 7 schools	$49,597.00	$23.05	0.05	0.02
Successmaker, Pearson Education	765 students in 4 schools	$49,500	$64.71	0.39	0.06

K-6 Instructional Math Technologies



STEM Endorsement

Fall 2014

- Initial courses selected

October

- Final course syllabi
- Teacher recruitment for first cohort

January

- First cohort starts

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Professional Development

June

- 6th RFP released
- 20th RFP closes

July

- Contracts awarded
- Grant available to Districts

August

- 10th Grants awarded to Districts

September

- Implementation

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Career and Technical Education

June
- 16th RFP released
  - 7th grade Engineering
  - 7th grade Information Technology
- 16th RFI released

July
- Contracts awarded

August
- Grant process with school districts

September
- Implementation

First Year Focus: 7th grade Introduction to CTE (Engineering and IT Standards) & 8th grade Exploring Technology

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High School STEM Certification

- Partnership with:
  - Higher Education
  - CTE
  - UCAT
- First meeting in June
- Grant Program released in Fall

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DWS Grant Partnership

- Alignment with support of student engagement
- Support both formal ("in class") and informal ("out-of-class") STEM activities
- Engage additional STEM stakeholders
  - Utah After-School Network
  - Identify best practices

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