

# Adaptive Learning Market Acceleration Program RFP Q&A Webinar

Session for Institutions  
March 29<sup>th</sup>, 2013



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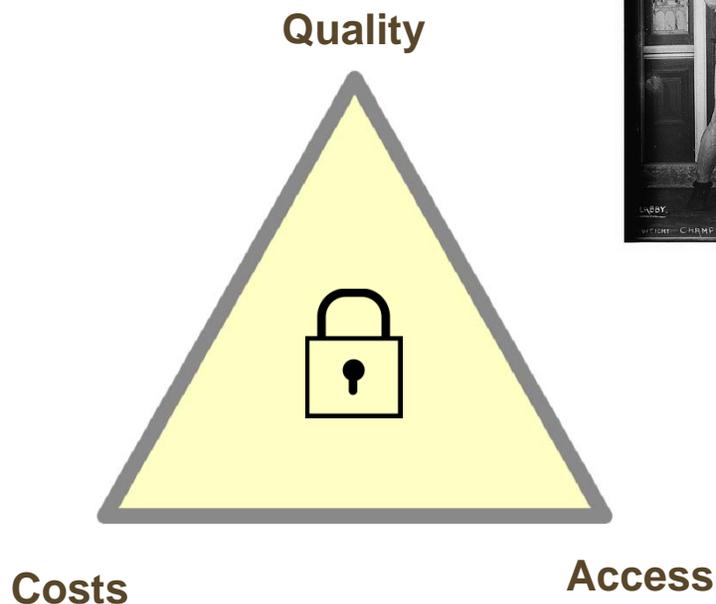
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# Webinar Agenda

- **Adaptive Learning Market Acceleration Program RFP Overview**
- **Question and Answer**

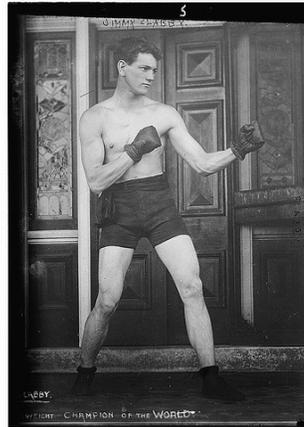
***Note: This webinar is being recorded and a link to the recording will be posted to the RFP page.***

# Can the Personalized Learning Loop Defeat the Iron Triangle?

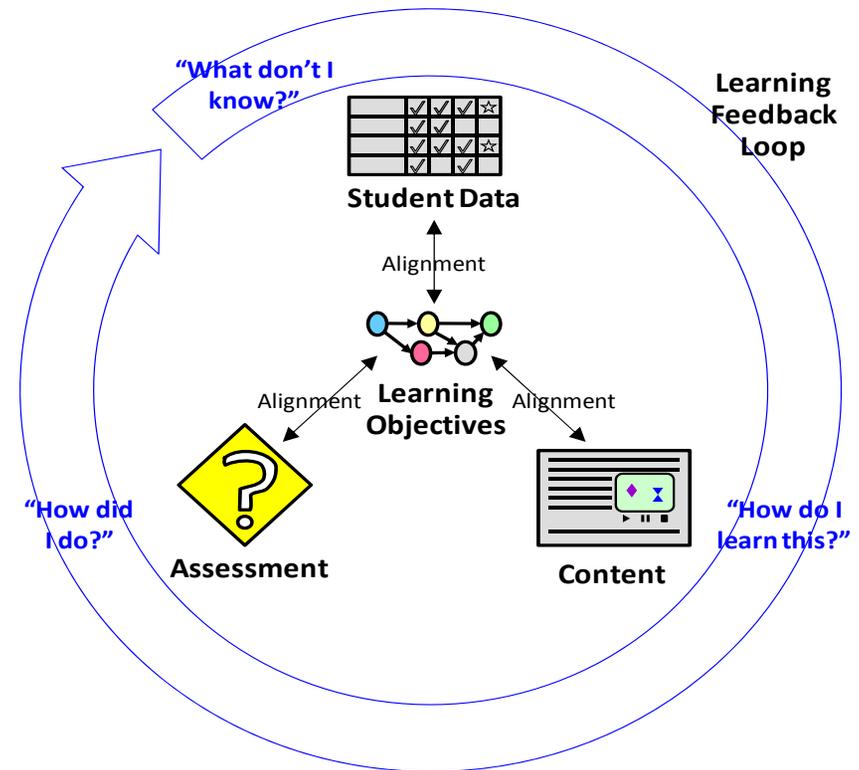


**The Iron Triangle**

(see <http://www.publicagenda.org/pages/the-iron-triangle>)



**-VS-**



**The Personalized Learning Loop**

# Benefits of Personalized & Adaptive Learning

*We believe that well implemented personalized & adaptive learning has the potential to dramatically improve student outcomes*

## Potential Pedagogical Benefits\*

- ✓ **Formative Evaluation (d=.90)**
- ✓ **Acceleration (.88)**
- ✓ **Effective Feedback (.73)**
- ✓ **Meta-cognition (.69)**
- ✓ **Mastery Based Learning (.58)**
- ✓ **Concept Mapping (.57)**
- ✓ **Interactive content (.52)**

800+ meta analysis on achievement

Standard deviation is effect size where  $d = 1.0$   
(i.e. improvement of learning by at least 50%)

Average effect size  $d=.40$

When  $d$  is  $> .40$   
*excellent* achievement gains

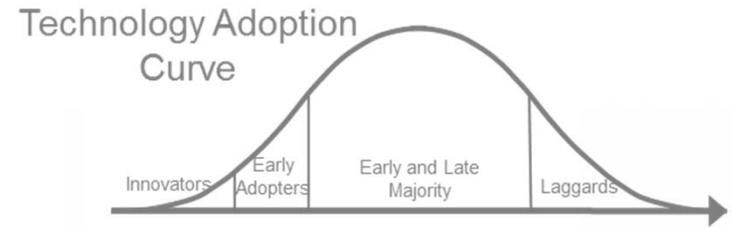
\*Source: John Hattie's *Visible Learning*

# An Emerging Evidence Base:

- **Research on mastery based learning and digital tutors** – Bloom’s 2 sigma findings (B. Bloom, 1984); recent research that argues intelligent tutors are now nearly as effective as 1:1 human tutors (K. Van Lehn, 2011).
- **Randomized controlled study by ITHAKA** conducted with six public universities w/ statistically reliable control and treatment groups, found no difference in learning between the blended and face to face groups, with OLI students completing approximately 25% faster.
- **Previous research by CMU** of CMU students documented that students achieved the same or better learning outcomes on an independent third party assessment while completing the course 50% faster.
- **Knewton / ASU partnership** on re-designed emporium and mastery based math courses – pass rates increased by 18% and withdrawals dropped by more than 47% -- reducing drops to ~240 and saving ASU an estimated \$12,000,000 in lost tuition.
- **Cal State Northridge (Next Generation Learning Challenges Wave 1 winner)** - a 67% increase in Math 103 pass rates (from 45% to 75%).

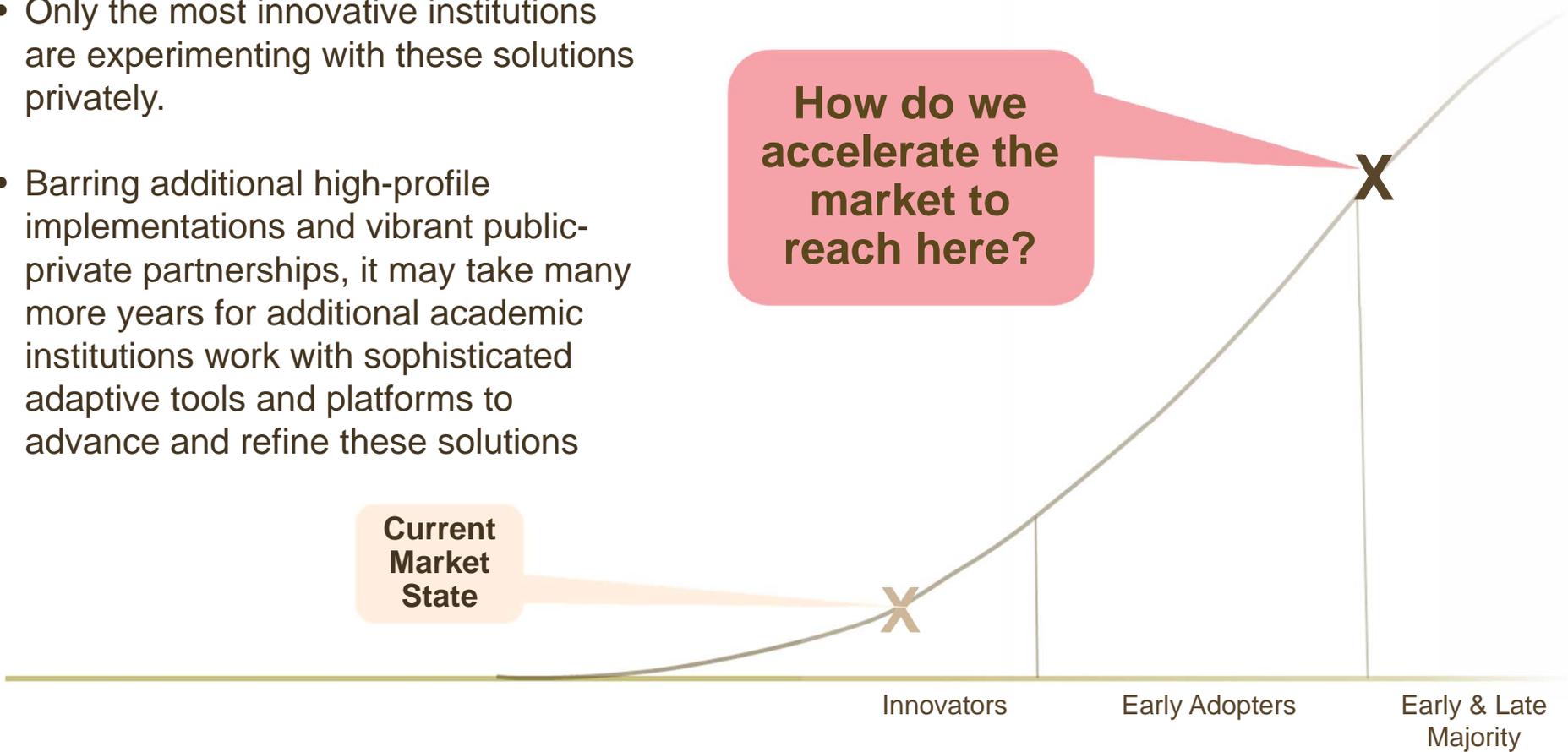
# The Adaptive Learning Market

- The adaptive learning market in post secondary education is diverse, yet embryonic.
- Only the most innovative institutions are experimenting with these solutions privately.
- Barring additional high-profile implementations and vibrant public-private partnerships, it may take many more years for additional academic institutions work with sophisticated adaptive tools and platforms to advance and refine these solutions



**How do we accelerate the market to reach here?**

**Current Market State**

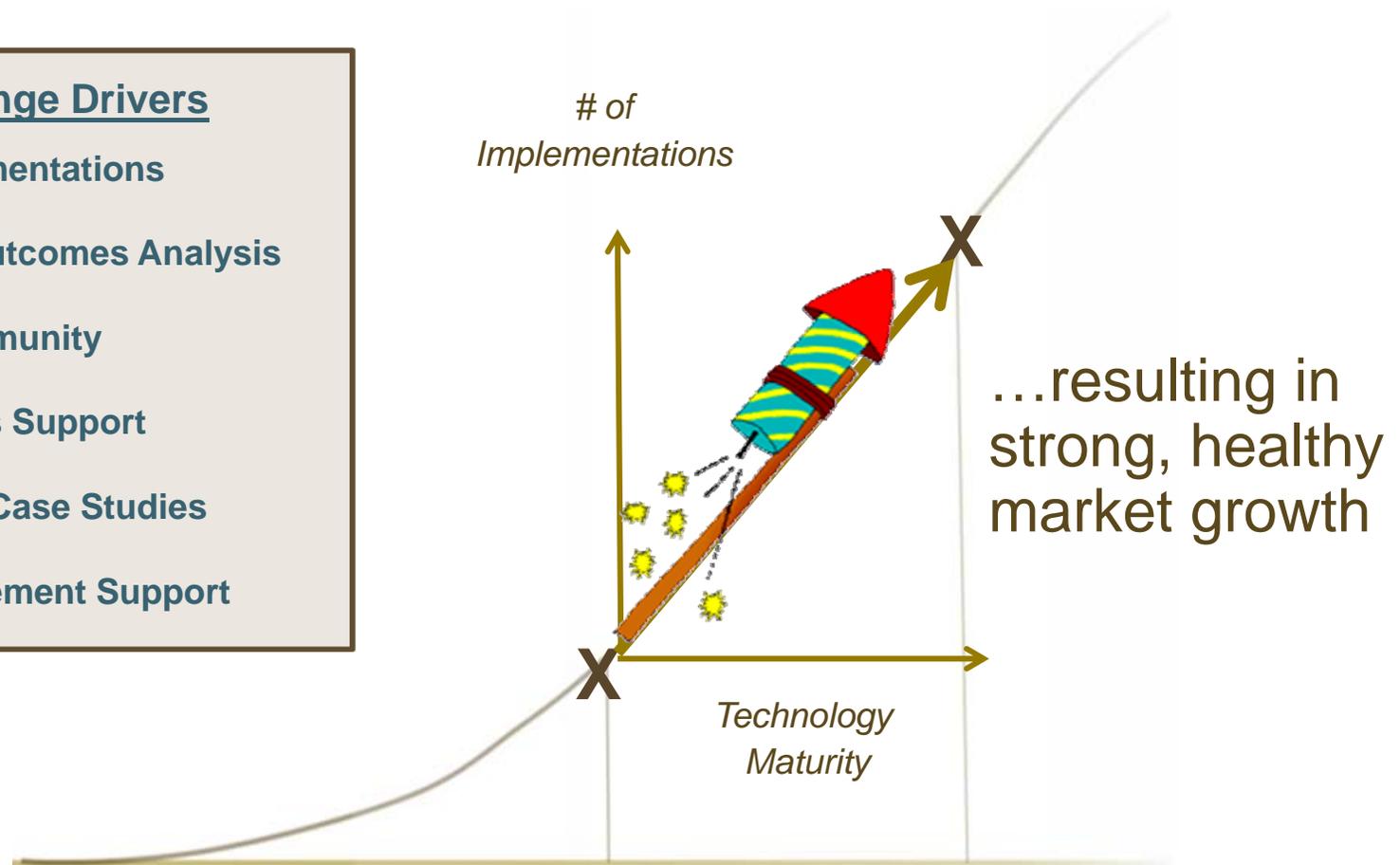


# Accelerating Market: Change Drivers

Our strategy to accelerate the adoption of Adaptive Learning in higher education is to invest in **market change drivers**...

## Market Change Drivers

- Exemplar Implementations
- Research and Outcomes Analysis
- A Learning Community
- Communications Support
- Implementation Case Studies
- Program Management Support



# Adaptive Learning Market Accelerator Program

## Program Facts

- 10 'exemplar implementations' of adaptive courses to be selected
- Implementations require generally available adaptive learning solutions
- Use of 'lightweight' research methodology to be employed to measure and understand student outcomes
- Cost, savings and other qualitative data to be captured and reported
- Course delivered for 3 consecutive semesters with > 500 total students.
- Gateway courses & large Pell grant recipient populations preferred.
- Program duration 24 months

**Completed proposals due *Tuesday, April 30 at 3:00 PM PT***

# Adaptive Learning Market Accelerator Program

## Foundation Funding

- \$100K implementation cost offset grant per implementation
- Foundation-funded program & project management to track and drive on-time readiness
- Foundation-funded research partner to provide oversee data collection & analysis
- Foundation-funded partner to draft detailed implementation case studies for broader dissemination
- Foundation-funded campaign to share key findings and learning

**Completed proposals due *Tuesday, April 30 at 3:00 PM PT***

# Question & Answer

- **Please submit your questions via webex chat**
- **Questions and answers will be transcribed and posted to the FAQ on the RFP site**
- **This webinar is being recorded and a link to the recording will be posted to the RFP page.**

# Thank you for your interest.

- **See the FAQ located on the RFP description page**
- **The questions and answers from this meeting will be posted on the RFP description page**
- **Please email additional questions to [adaptive.learning@gatesfoundation.org](mailto:adaptive.learning@gatesfoundation.org)**