Improving Student Performance:
Science-based technology that is increasing academic success

Challenges Facing Utah Students

Educational Environment
- 18% of UT students don’t graduate on time
- UT students rank 32nd in the nation on the ACT
Educational Environment

In 2015, over 60% of high school graduates showed a lack of college readiness.

“The needle is barely moving on college and career readiness, and that means far too many young people will continue to struggle after they graduate from high school.”

– Jon Whitmore, ACT Chief Executive Officer

Educational Environment

“The number one concern of incoming high school graduates is that they are not good enough and not ready to succeed in college.”

– Clark Gilbert, President of BYU-I

Educational Environment

Teachers are doing their best, but they are being pushed beyond their capacity to be effective.
Educational Direction

Finding suitable career options.

- Aptitude
- Salary ranges
- Educational requirements
  - Cost
  - Time

Online Learning

The educational landscape is rapidly changing.

- Technology
- Passive learning
- Active learning

Global Job Market

Students are not prepared to compete in a global job market.
Global Job Market

The Utah talent pool is insufficient to meet the local market demand.

My Involvement

- Weber State University, National Advisory Board – 16 years
- Education First – 3 years
- Prosperity 2020 – 3 years
- Junior Achievement – 2 years
- Keynote Speaker: SLCC, U of U, WSU, LDSBC, Harvard University

Global Job Market

The world will fill the positions we don’t fill ourselves.

- 2013 – U.S. had 1.3 million college grads.
  - India - 5.6m grads.
  - China - 6.6m grads. (2014)
Global Education Ranking

1. South Korea
2. Japan
3. Singapore
4. Hong Kong
5. Finland
6. UK
7. Canada
8. Netherlands
9. Ireland
10. Poland

Global Education Ranking

U.S. Ranking out of top 40 countries:

- 17th in educational performance
- 24th in literacy
- 54th in education expenditures

The Solution?
Effective teachers, counselors, and technology
(and more money...)

Technology
• Cost effective
• Broad Reach
• Measurable impact on performance
The Growing Chasm

eyeQ bridges the gap between students and online education.

Attributes of Skilled Readers

- **Fixation Time**: How long a reader pauses as they read each word.
- **Fixation Span**: How many characters a reader can see in clarity at a single glance.
- **Regression**: How frequently a reader has to go back and re-read the content to gain a basic understanding.

fMRI Results

**BEFORE**  

**AFTER**
Granger Elementary

Pre  Post  Improvement  Percentage

• Caucasian  41.5  51.5  10.0  24.0%
• Asian  47.8  52.7  4.9  10.7%
• Black  48.3  55.0  6.8  14.0%
• Hispanic  37.5  51.5  13.9  37.1%
• Polynesian  46.5  55.5  9.0  19.4%

Total  41.8  51.9  10.5  25.2%

25% OVERALL GROWTH

Total sample experienced enormous & significant improvements:
• All students outpaced Caucasian students at the post examination or closed the gap.
• Hispanic & Polynesian students outpaced Caucasian improvements.

Improvement in SAT Scores

Improvement in Scores for Math + Reading + Writing

Pre-Participian

Post-Participian

Mean Pre -1543.1
Mean Post 1911.3

-17.4% average improvement

Brigham Young University Results

Reading Speed

Comprehension

Effective Reading Speed

458% INCREASE IN READING EFFECTIVENESS
Thank you

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