

excl in education

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Now more than ever black lives and marginalized youth are perfectly timed to Excl's objectives of delivering social impact to the forgotten students of inner cities with online supplemental learning.



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Photo by [National Cancer Institute](#) on Unsplash



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Introduction

Excl is an online educational framework leveraging open source tech providing 3 unique solutions.

An adaptive content rich learning environment that pairs students to the best teachers, offers incentivized learning, while tracking progress to steward mastery.

1 PROBLEM
Quality education in public schools is failing and the teacher-student relationships are not being fostered.

SOLUTION
Excl matches students to the best teachers in real-time. With a multi-factor analysis, Excl's inference engine weights preferences and input data resulting in a filtered set of teachers.

The student ultimately has the power of choice, by previewing lessons from the suggested set, then selecting the teacher that resonates best.

Students optimally find their teachers and vice versa.

2 PROBLEM
Poverty, trauma and absentee parents create stresses dampening motivation for academics. Teachers face rigid curriculum and poor salaries.

SOLUTION
Excl's patented method of incentivization aims to spark humans natural desire for self-determination by allowing control over learning. Students set a long-term goal to earn from a selection of prizes, while daily acknowledgments shape motivation with small rewards keeping them engaged. Teachers broadcast their unique teaching approach and gain royalties for views and student outcomes.

3 PROBLEM
Mastery is not being achieved. Unengaged teachers coupled with lost students are contributing to the current dilemma.

SOLUTION
Our pedagogy is embracing mastery-learning with a knowledge based expert system. Input data is analyzed from real-time lesson interactions, that reassess progress and enhances learning - making it an adaptive learning environment.

The goal is to unlock human potential with instructive strategies that match individual needs in the inner city.



Seeds of Change



Photo by [Sam Balye](#) on Unsplash

ANXIETY

1

Everybody fears Math!

93% of adult US-Americans have math anxiety
- [THCB, Dove Press, 2018](#)

82% Blacks & 83% of Latinos below proficiency in 4th grade Math
Anxiety blocks concentration, effects working memory & creates discomfort
- [Measure of America, 2015](#)

70+ careers gone
Fear of math closes doors
- [SIAM, 2020](#)

I wanted to change that.



BROKEN

2

The education system seemed broken, rewarding mediocrity vs. quality

A "D" is now a passing grade at LAUSD for college prep
- [89.3 KPCC, 2015](#)

90% of incoming students are unprepared to take college math, 75% for English (LACCD)
- [Measure of America, 2015](#)

Poor Students are Stuck with Worst Teachers
- [ASSOCIATED PRESS, 2017](#)

I wanted to change that.



DROPOUTS

3

Too many students were dropping out due to disengaged teachers.

1.2 million students drop out falling into a cycle of poverty, unemployment, and violence
- [educationdata.org, 2020](#)

Nearly 83% of incarcerated persons are also high school dropouts
- [educationdata.org, 2020](#)

US high school graduation rates are under investigation
- [Brookings Institute, 2018](#)

I wanted to change that.



MASTERY

4

And too many students were graduating without true mastery.

7% of African Americans, 12% of Latinos and 32% of White students proficient in Math
- [Wall Street Journal, 2016](#)

Proficiency is over exaggerated
- [AIR, 2014](#)

32% of poverty stricken youth pursue a 4yr program, but only 10% graduate
- [educationdata.org, 2017](#)

I wanted to change that too!



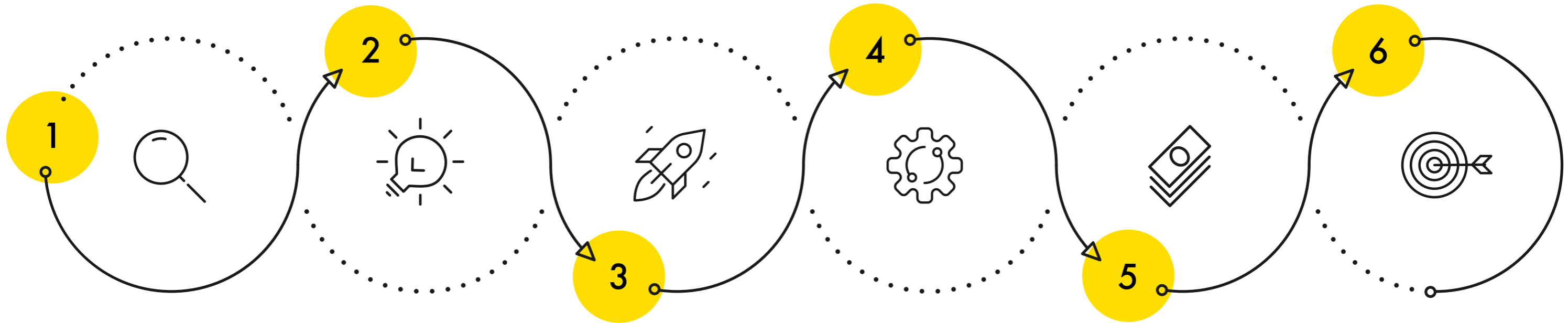


Product Use Case





Traction to Date



THE START **SECURING IDEA** **TESTING IDEA** **NETWORKING** **PATENT GRANTED** **ONGOING**

STARTED RESEARCH

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Began researching the fundamentals for the Excl system.

Noticed an emerging trend for remote learning, started meeting with edu. leaders in LAUSD to introduce Excl.

PATENT PENDING

.....

Excl granted status of "Preferred Provider" by CA Ed. Tech K-12 Voucher Program.

Worked on scoping and modeling fundamentals of the system to apply for patent "Method of Teaching".

RESEDA H.S. SURVEY

.....

Inner city ethnically diverse 9th graders tested at 48% proficiency for pre-algebra

After watching a series of Excl videos on Algebra, a 30% increase in proficiency was achieved - with no loss of learning after a 4 month follow up.

Statistical significance exceeded 99.9% effective.

PUBLIC & PRIVATE SECTORS CONTACTED

.....

Met with educators & union officials but simply too disruptive & innovative!

Met with VP of Marketing, Magic Johnson Enterprises, had deep interest in Excl. Requested a Beta.

Met with VP of Education, Apple Inc. Very interested, requested a Beta.

PATENT & TRADEMARK GRANTED

.....

Continued to garner support from edu. world: former CA Supt. of Public Ed, and learning Specialists of all levels. Ready to be activated.

WENT TO WASHINGTON, D.C.

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Pitched Excl in Wash. D.C. to Tom Borck, Legislative Dir, and Brad Thomas, Sr. Ed Policy Advisor, authors of the 2013 Student Success Act.

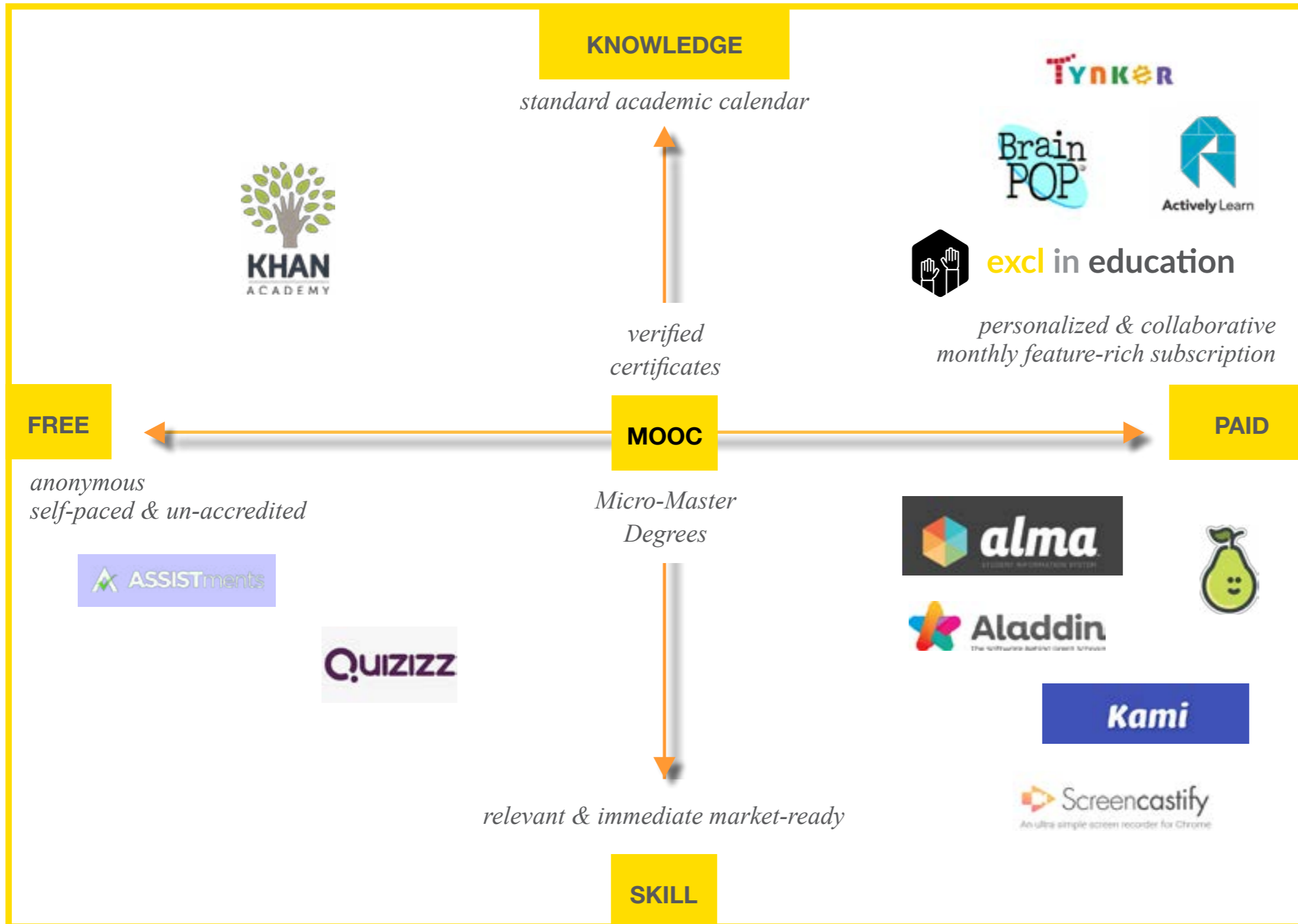
TOM: "I like everything about your system, I've never seen anything as comprehensive and 'outside the box'..."
BRAD: "Excl in Education ... definitely worth pursuing on a large scale".



Our Niche in the Marketplace



Excl will be focusing on the under-served of the inner city



We're disruptors of bad education

Excl is NOT replacing teachers. We assist teachers with time-consuming tasks of remediation.

We holistically match students to teachers

Lost students don't know where to start. We provide real-time assessment & match them with the best teachers.

We provide higher quality for this niche market

Students finally get properly placed and learn mastery, not just earn a grade.

We're math anxiety experts

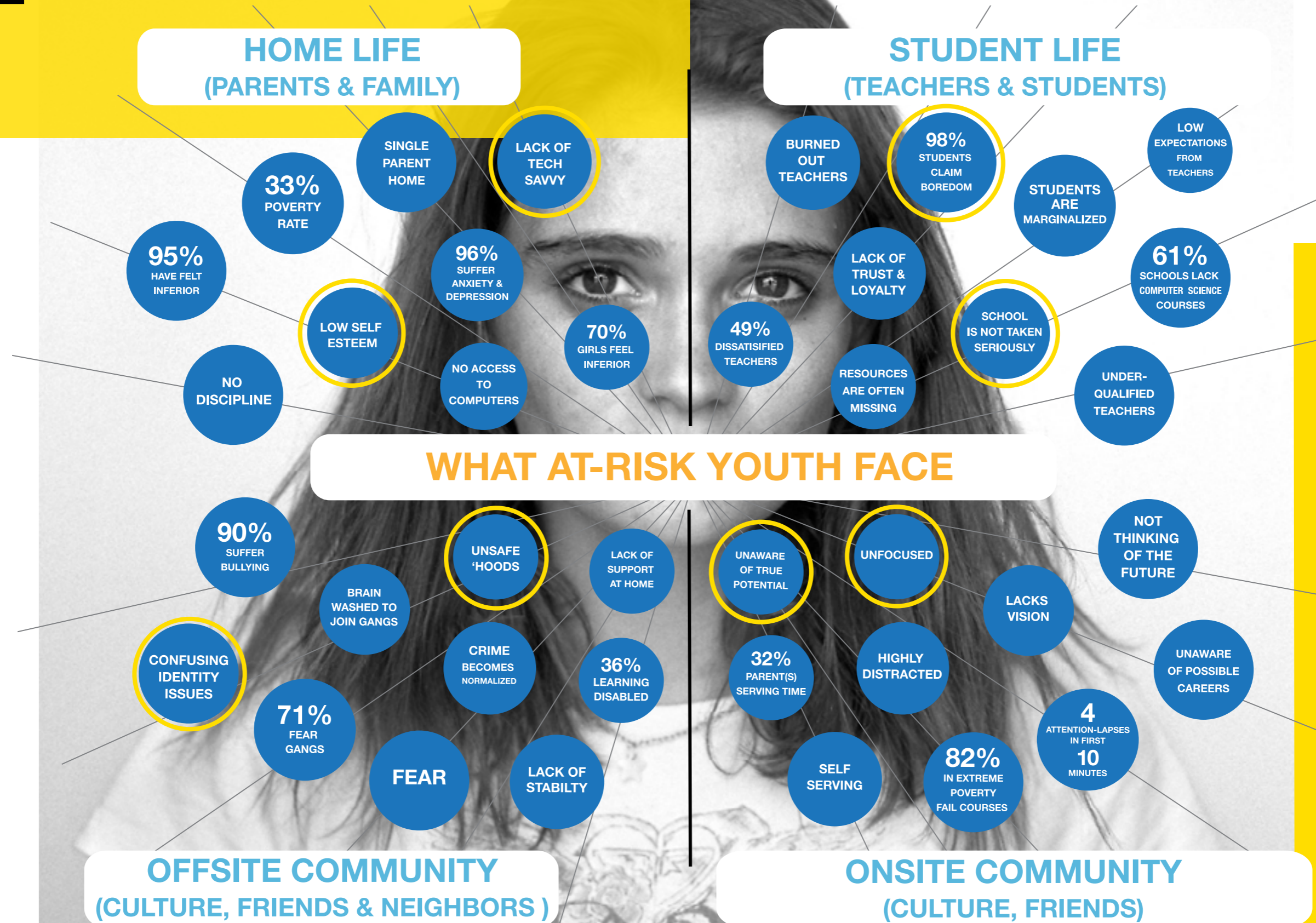
40+ yrs teaching this market. We intuitively know how to reach this demographic.

We're experts in remediation

CA AB-705 has defunded remediation past grade 12, despite the bill's own acknowledgment that 75% are under prepared, creating an immediate need.



Our Target Market



OUR TARGET MARKET "AT-RISK YOUTH" 55% of US

An at-risk youth is a child who is less likely to transition successfully into adulthood. Success can include academic success & job readiness, as well as the ability to be financially independent.

It also can refer to the ability to become a positive member of society by avoiding a life of crime.



We're concentrating our efforts with laser focus. Click on the highlighted items to discover!

Provided stats citations: 1, 2, 3, 4





Financial Discipline



CURRENT EVENTS

LA Mayor Eric Garcetti, City Officials Cutting \$100 Million-\$150 Million from LAPD Budget, Funds to be Reinvested in Communities of Color

[Washington Post](#)

'Defund the police' gains traction

[CA AB-705](#)

Defunds remediation in Community Colleges

[CA AB-1935](#)

Subsidizes Remediation Education to Hire 3rd Party Vendors

The pendulum of spending is changing

Government is hearing the demands of the people and will be redirecting funds to youth jobs, health initiatives and community 'peace centers' to communities at risk.

Excl will join the effort to steward children to these centers for safe and effective learning. The cost savings to Excl will be increased brand awareness.

The removal of remediation by CA AB-705 has created an immediate need, which CA AB-1935 has filled. This creates a financial opportunity for Excl.

Curricula & Content

Our staff of seasoned Math experts will construct course content and curriculum at a cost savings to school districts. District experts will determine their specific curriculum from our provided library.

This allows for easy integration into any education system in the United States.

Leveraging Open Source

Leveraging open source software (e.g. Canvas LMS) our application facilitates development and controls costs from the start.

Existing libraries of machine learning algorithms will also be utilized for faster development and integration.



A Test of Time

I LOVE TEACHING MATH

GOT HOOKED W/ 2 INCREDIBLE CALCULUS PROFS & CHANGED MAJORS
 1967 - A.A. in Mathematics, East LA College, Recipient of best Math Student Award

KEPT GOING, EARNING A BS & MS
 1969 - B.S. in Mathematics, Cal State LA
 1973 - M.S. in Mathematics, Cal State Northridge

HELPED PEOPLE OVERCOME MATH ANXIETY
 1978 - Papers published: 'Overcoming Math Anxiety'
 1978, 1979, 1980 and 1981: Began Speaking Engagements

STARTED TEACHING COLLEGE MATH
 1976 - '99 - Professor of Mathematics, West LA College

GOT TEACHER OF THE YEAR AWARD
 1984 - '85 - West L.A. College

BECAME VICE CHAIR, MANAGED 40+ TEACHERS
 1986 - '92 - Math/Science Division West L.A. College

BEGAN TEACHING AT PIERCE COLLEGE
 1999 - '15 - Prof. of Mathematics
 1999 - '03 - Dir. Distance Learning
 2003 - '04 - Chair of Mathematics

STARTED WORKING IN PRIVATE SECTOR
 1999 - '00 - Lead Educator for OmniKron Software Corp.

STARTED MY OWN GIG
 2008 - PRESENT
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I became great because of two outstanding math professors. It was amazing to be in their presence. That experience taught me the difference between average teachers and those that give their subject's soul.



Founder Statement



As an educator for over 40 years, there are few events that inspire me more than to see the "lights" go on in a student's mind.

- Allen Epstein



I am firmly convinced that culture is the greatest motivator of learning

As a child of immigrants with limited education, my family encouraged me to be the first to go to college and achieve great success. That became my mantra.

As an educator for over 40 years, there are few events that inspire me more than to see the "lights" go on in a student's mind. Especially when you know of their trials and tribulations. All it takes are the right words to establish a foundation on which to build.

I've been lucky to witness those "lights" go on thousands of times - an exceedingly rewarding experience.

Now, through Excl, I wish to leverage new technology and innovate change to teaching, delivering that same "knowing" feeling to the under-served of the inner city.

A group whose praise I value most.

Allen Epstein
 Founder



Our Team

A collective with more than 100+ yrs of teaching experience.



Photo by [Priscilla Du Preez](#) on Unsplash



Allen Epstein
President

- Mathematics Professor & Pedagogy Architect
- Innovator & Entrepreneur
- Math Anxiety Expert, focused on foundational confidence



Holly Epstein
Chief People Officer

- Excellent correspondence & coordination support
- Solves complex technical problems judiciously
- Hands on operational day-to-day support



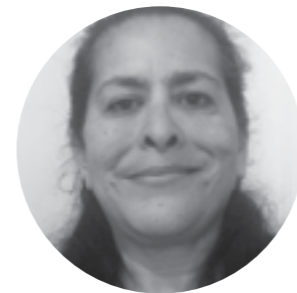
Larry Diehl
CTO

- Seasoned technical & business strategist
- Successfully developed & executed profitable SASS to market
- 38+ yrs with C, C++



Bob Hart
Senior Back-End Dev

- Computer Science Prof
- Solves and executes complex problems
- 20+ yrs with C++, SQL and Python



Anna Mendoza
Product Owner, Dev

- Strong creative & branding storytelling
- Focused on human centered design
- 15+ yrs Full-Stack Dev JS, React, Ruby, RonRails



Michele Kohse
Sr. Designer, Video Prod

- Strategic problem solver
- 20+ years in advertising, & film production
- Research & concept driven for creative results on-time and on-budget



Data Scientist
Positions Open

- Looking: Statistical Programmer
- Looking: Well-rounded Software Engineer in OOP
- Looking for: Machine Learning Specialist

WE ARE:

Tenacious / Tons of Grit / Shaping the Future of Children / Full-Stack Developers
Strategists / Disruptors of Bad Ideas in Education / Passionate to Empower
1st Generation Americans / Creative Technologists / Connected to the
2nd largest educational network in the country / Transforming Education





Parting Thoughts

By 2030, 46% of our current workforce could be replaced by machines, says [Kurt Snibbe](#).

Machines will take the jobs from the least prepared. Only a strong foundation in the 3 Rs could avert these losses. Together, we can deliver a strong and positive response to help restore the culture of learning to our society.

We look forward to a partnership that, based on our financial estimates, would be advantageous for us all.

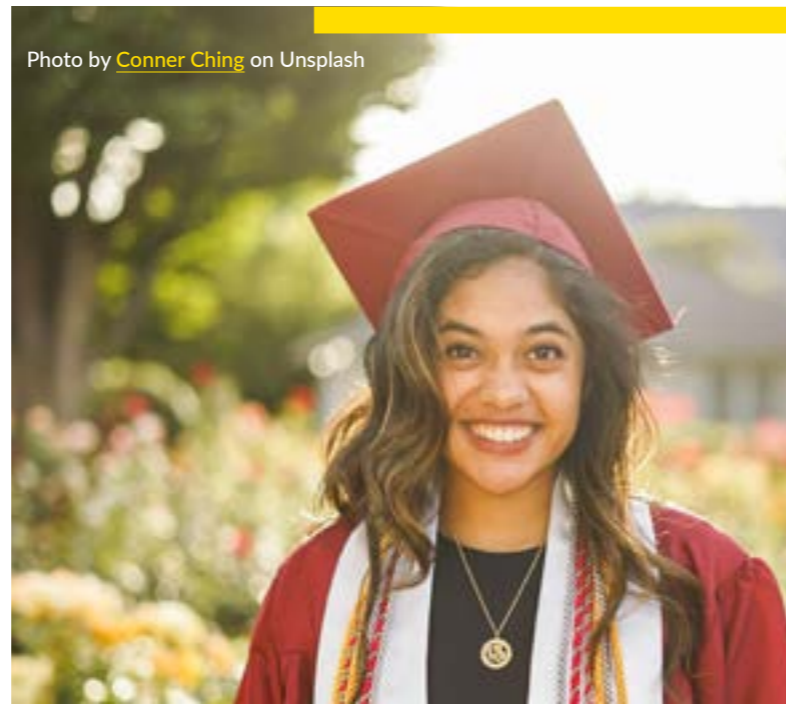


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THANK YOU