

HARNESSING THE POWER OF PLAY FOR ADOLESCENTS TO LIVE HAPPIER & HEALTHIER LIVES

PROBLEMS WE ARE SOLVING

EVERY YEAR IN THE US: 2M+ ADOLESCENTS STRUGGLE WITH SUBSTANCE MISUSE 5M YOUTH HAVE AT LEAST 1 MENTAL HEALTH ISSUE 10M ADOLESCENTS CONTRACT AN STI

SCARCITY OF SUPPORT: 1: 491 SCHOOL COUNSELOR TO STUDENT 1:1381 SCHOOL PSYCHOLOGIST TO STUDENT

MILESTONES OF THE PLAY2PREVENT LAB \rightarrow PLAYBL

PLAYBL IS A BEHAVIORAL HEALTH COMPANY THAT MARKETS & DISTRIBUTES EVIDENCE-BASED SERIOUS GAMES THAT PREVENT & REDUCE ADOLESCENT RISK BEHAVIORS



VIDEOGAMES DEVELOPED & VALIDATED IN RCTS, LARGE FIELD STUDIES, AND 5 PILOTS

420K TEENS GIVEN LOGINS FOR THE GAMES

40K DOWNLOADS ON THE APP STORE

\$15M SUPPORT IN NIH & FOUNDATION FUNDING



PLAYBL SPUN-OUT FROM YALE P2P LAB, INCORPORATED, PAYING CUSTOMERS





MARKET

SERIOUS GAMES "HAVE AN EXPLICIT AND CAREFULLY THOUGHT-OUT EDUCATIONAL PURPOSE"

\$10.2B 40M



MARKET GROWTH IN 2023; COMPOUND **ANNUAL GROWTH RATE OF 23%**

ADOLESCENTS 10-20 YEARS OLD

SECONDARY & COMBINED SCHOOLS

42K



COMMERCIAL PAYORS

13K



FAMILIES

SCHOOL DISTRICTS

PRODUCTS: EVIDENCE-BASED GAME PORTFOLIO



MENTAL HEALTH AND OPIOID MISUSE

MENTAL HEALTH & WELLNESS

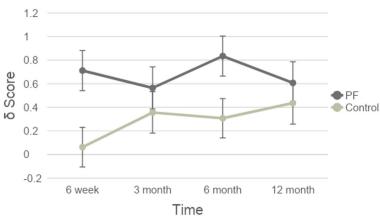
RISK REDUCTION/ HIV PREVENTION

SMOKING & VAPING

HEALTH ADVOCACY STI/HIV TESTING

EXAMPLES OF EVIDENCE BEHIND THE GAMES

Attitudes score: change since baseline



Overall: P = .04

Moth



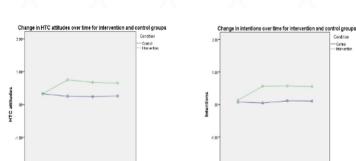


Table 3. Association of game play with gains in substance use knowledge.					
Substance use knowledge	В	SE	β	t 102	Р
3 Month					
Number of levels beaten	.31	0.06	.49	5.12	.001
Number of hours playing game	07	0.07	09	-1.00	.32
Baseline knowledge	.35	0.10	.28	3.47	.001
Age	.38	0.18	.16	1.85	.07
Month					
Number of levels beaten	.11	0.05	.18	2.19	.03
Number of hours playing game	02	0.05	03	-0.35	.71
3-month knowledge	.72	0.07	.74	10.23	.001
Age	13	0.13	06	-0.98	.33

Using Videogame Apps to Assess Gains in Adolescents' Substance Use Knowledge: New Opportunities for Evaluating

Erika Montanaro1", PhD (HK), M Paed De; Lvnn E Fiellin24, MD; Tamer Fakhouri34, MD; Tassos C Kyriakides4

Scores

(follow-up,

6 weeks), mean

(SD)

3.15 (0.81)

21.13(2.85)

0.11 (0.32)

2.19 (0.58)

Intervention Exposure and Content Mastery

Scores

3 weeks), mean

(SD)

3.28 (0.92)

21.13 (3.83)

0.22 (0.55)

2.30 (0.60)

PhD (HK), M Paed De: Lindsay R Duncan5, PhD (HK), M Paed De

Scores baseline, (post-gameplay,

Table 2 Evaluation of assessment validity

Intentions

Knowledge

Perceived

Behavior

Susceptibility Attitudes mean (SD)

2.81 (0.89)

17.44 (4.30)

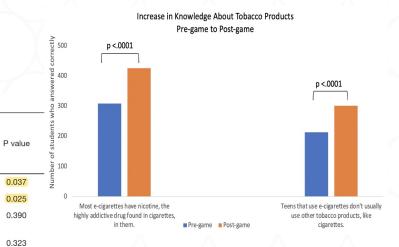
0.06 (0.24)

2.18 (0.77)

Pre-game to Post-game 500 p <.0001 400 300

Increase in Negative Beliefs About Tobacco Products





Effectiveness of a web-based tobacco product use prevention videogame intervention on young adolescents' beliefs and knowledge

^{EmHecitin} Videogame intervention to encourage HIV testing and counseling among adolescents Tyra Pendergrass¹, Kimberly Hieftje², Lindsay Duncan¹, Lynn Fiellin¹

¹Yale Center for Health and Learning Games, Yale School of Medicine, New Haven, CT, USA;²Department of Kinesiology and Physical

Number of

participants

tested for HIV

(baseline)

0

Number of

participants

tested for HIV

post-gameplay

3 weeks)

0

Number of

participants

tested for HIV

(follow-up,

6 weeks)

2

0.135

Kimberly D. Hieftje, Claudia-Santi F. Fernandes, I-Hsin Lin & Lynn E. Fiellin

MANUSCRIPT UNDER REVIEW

6 North

3 Months

Baseline 4 Weeks

EACH PLAYBL GAME PROVIDES EXTENSIVE HEALTH AND COST BENEFITS

RISK OF MISUSE



VALUE OF AVERTING 1 OPIOID USE DISORDER

AGE 16-19 (SOURCE: MURPHY, 2020)



\$390K HEALTHCARE SECTOR \$525K

TAXPAYER

\$3.45M

SOCIETY

OUR IMPACT

A Yale doctor is using a video game to fight the opioid crisis Washington Post

PROTECTING YOUTH MENTAL HEALTH

The U.S. Surgeon General's Advisory

HOW WE MAKE MONEY

SALES EFFORTS ARE DIRECTED AT EDUCATORS, SCHOOL ADMIN DURING SUMMER & FALL TO MEET FUNDING CYCLES; PIVOT TO CLINICS/PAYORS

PRICING BASED ON CUSTOMER TYPE:

INDIVIDUAL PRICING IF <500 USERS: HIGHER TIERED PRICING PER USER/PER GAME/YEAR

ENTERPRISE PRICING: TBD

FOR ACCESS TO: UNLIMITED GAMES USER DATA TECH SUPPORT

B2G

B2B

CUSTOMERS TO DATE

\$

TOTAL # OF CUSTOMERS TO DATE: 11

TOTAL # OF SUBSCRIPTIONS: 422

TOTAL REVENUE SINCE SALES EFFORTS IN AUGUST 2022: \$6800

ONGOING NEGOTIATIONS:

- CDC (~ 1,000 ORGS AROUND THE COUNTRY
- NEW CHARTER SCHOOL ORGANIZATION
- BOYS & GIRLS CLUBS
- CIGNA (EVERNORTH)
- KAISER PERMANENTE



CURRENT TEAM



LYNN E. FIELLIN, MD

FOUNDER FOUNDING DIRECTOR, P2P LAB YALE PROFESSOR, MEDICINE, CHILD STUDY CENTER, PUBLIC HEALTH



ANUSHA RAJA, MD, MBA

VICE PRESIDENT, OPERATIONS PHYSICIAN, VANDERBILT UNIVERSITY MEDICAL CENTER



BUSINESS DEVELOPMENT CONSULTANT FORMER EDUCATOR



ADVISORS

ELIZABETH CHO-FERTIKH, PHD CO-FOUNDER, MEDA ANGELS



ROBERT GEHORSAM EDTECH, GAMES ENTREPREUNER & EXECUTIVE



JOSEPH SOUTH, PHD CHIEF LEARNING OFFICE, ISTE STEPHANIE J. HULL, PHD PRESIDENT/CEO, GIRLS, INC.

NON-DILUTIVE FUNDING: YALE BLAVATNIK AWARD

• FUNDED: \$200,000:

- PHASE 1: COMPLETED, \$60,000
 - DATA DASHBOARD WITH DELOITTE (USER ENGAGEMENT DATA)
 - CUSTOMER DISCOVERY SURVEY

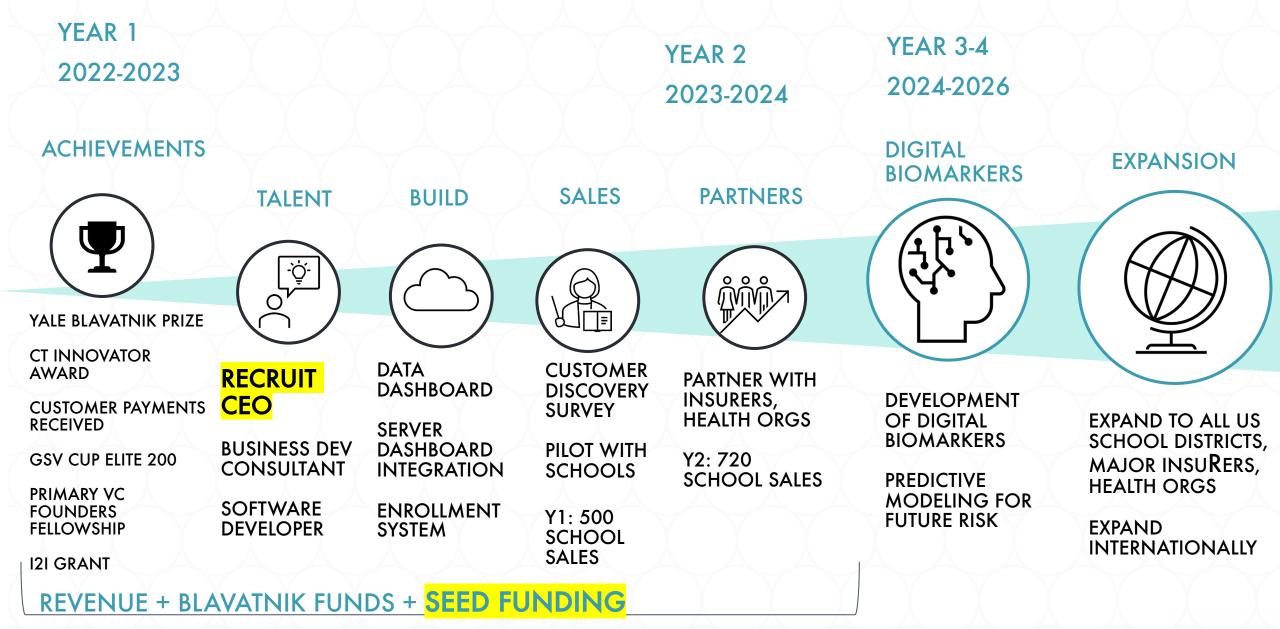
• PHASE 2: \$60,000

- DATA DASHBOARD <-> SERVER INTEGRATION: COMPLETED
- USER PILOTS WITH 3 SCHOOLS: PENDING

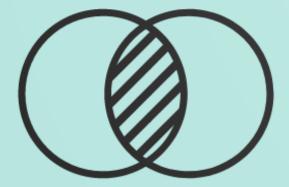
• PHASE 3: \$80,000

 DEVELOP "CLOSED LOOP" ENROLLMENT SYSTEM TO COLLECT CUSTOMER ENROLLMENT METRICS AND OPTIMIZE DELIVERY OF GAMES DASHBOARD: PENDING

MILESTONES









HARNESSING THE POWER OF PLAY FOR ADOLESCENTS TO LIVE HAPPIER & HEALTHIER LIVES

The New York Times



The Washington Post



National Institute on Drug Abuse



