

Applying design thinking to public health research: a Real Talk case study

Liz Chen, MPH, PhD

Co-Founder, MyHealthEd, Inc.

October 7, 2019

Who am 1?

TEACHFOR AMERICA



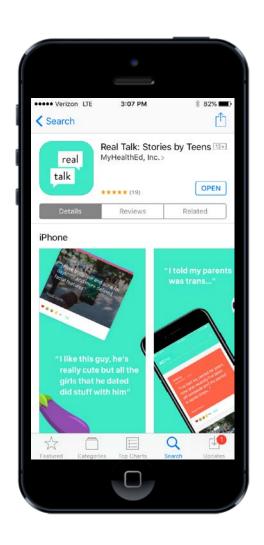








What is Real Talk?



Real Talk is a mobile app for teens ages 13-15 that uses real stories by real teens to convey relevant and credible information about sexual health.

Users can browse, search, and share stories and access linked high-quality online resources within the app.









Overview

Today, I will:

- Present an overview of design thinking;
- Describe our design thinking approach for developing our Real Talk app with teens; and
- Offer some opportunities for innovation.



DESIGN THINKING OVERVIEW

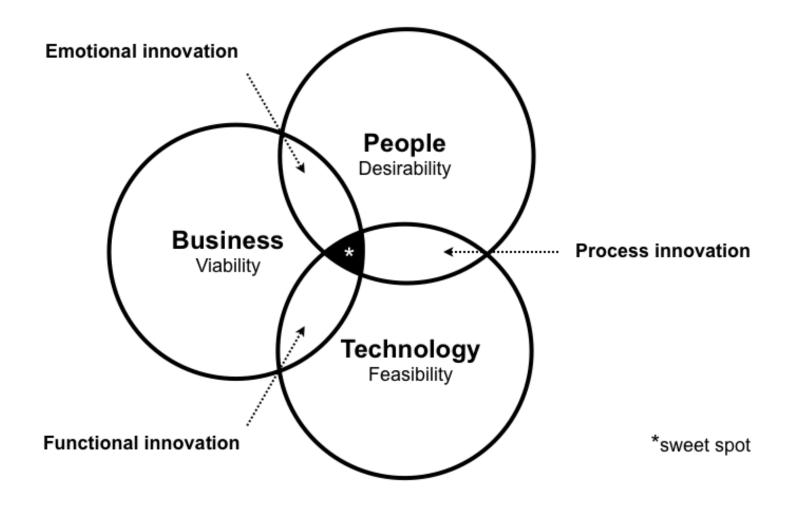
What is design thinking?

"Design thinking is a **human-centered** approach to innovation that draws from the designer's toolkit to integrate the needs of <u>people</u>, the possibilities of <u>technology</u>, and the requirements for <u>business success</u>.

—TIM BROWN, CEO OF IDEO



What is design thinking?





What is design thinking?

Design thinking is:

- an approach/process
- a set of methods; and
- a set of mindsets.







What is the design thinking approach?

INSPIRATION

I have a design challenge.

How do I get started? How do I conduct an interview? How do I stay human-centered?

IDEATION

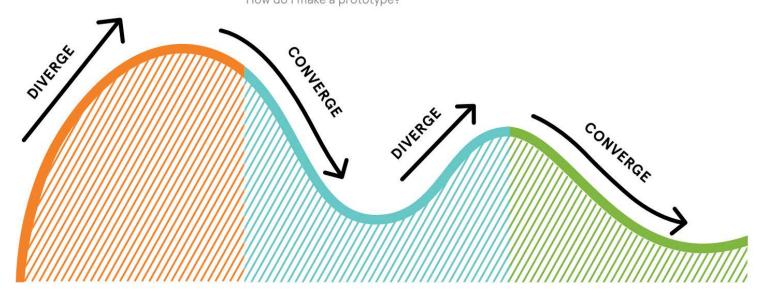
I have an opportunity for design.

How do I interpret what I've learned? How do I turn my insights into tangible ideas? How do I make a prototype?

IMPLEMENTATION

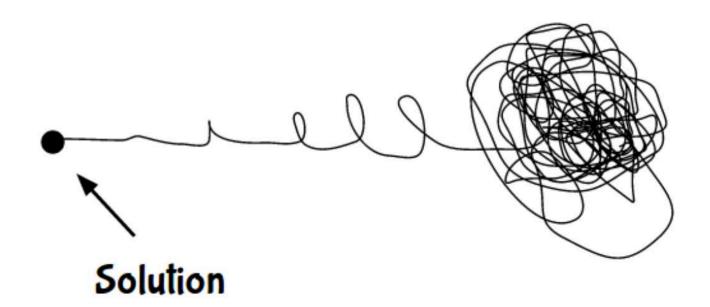
I have an innovative solution.

How do I make my concept real? How do I assess if it's working? How do I plan for sustainability?



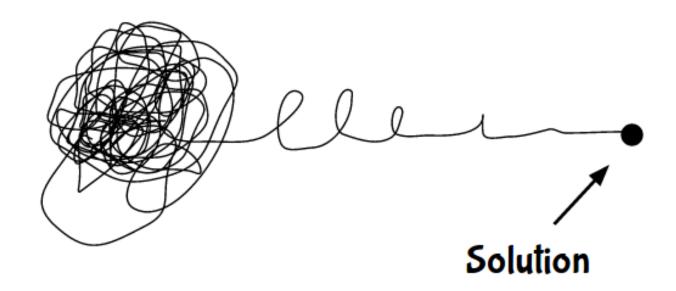


Traditional problem solving





Design thinking





What are the design thinking methods?







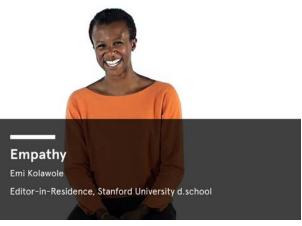




What are the design thinking mindsets?

- 1. Creative confidence
- 2. Make it
- 3. Learn from failure
- 4. Empathy
- 5. Embrace ambiguity
- 6. Optimism
- 7. Iterate, iterate, iterate







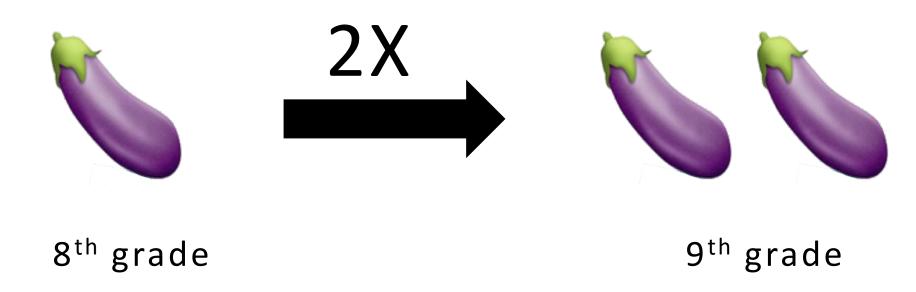
THE DESIGN CHALLENGE



How might we develop a technological solution for teen pregnancy?

Our specific design challenge

How might we increase access to high-quality, comprehensive sexual health education to teens ages 13 to 15 across the U.S.?





Initial Idea



Sex ed mobile app for schools

- Facts/stats
- Tests/quizzes
- Q&A



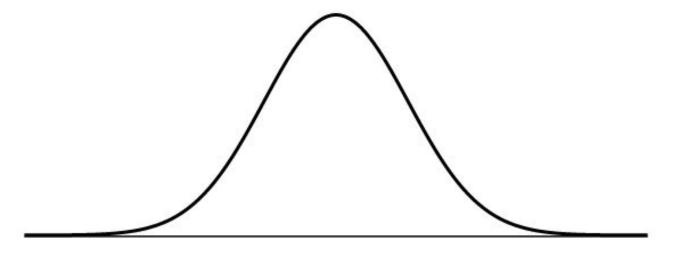
Inspiration

The purpose of the Inspiration Phase is to learn directly from the people you're designing for. You immerse yourself in their lives in order to deeply understand their needs.



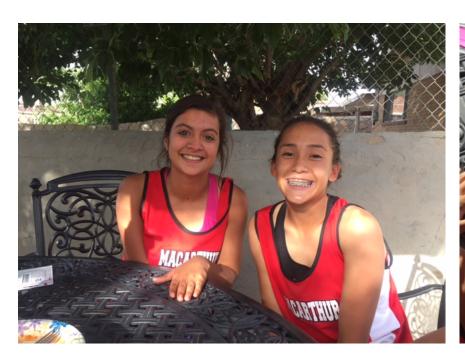
Method #1: Extremes and mainstreams

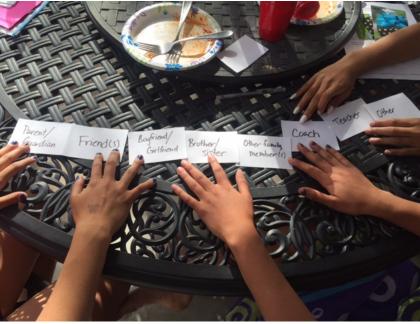
An idea that suits extreme users will nearly certainly work for the majority of others.





Method #2: Card sorts







Inspiration

Key findings:

- Schools are <u>not</u> a preferred place to learn about sex and relationships
- Teens care about privacy, source credibility, and safety
- They get their info from peers, Google, and porn
- Teens prefer to use smartphones instead of computers to access Google and porn



Ideation

The purpose of the Ideation

Phase is to identify opportunities

for design and to prototype

(i.e. test) possible solutions with

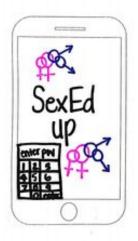
real intended users.





Method #3: Co-creation session

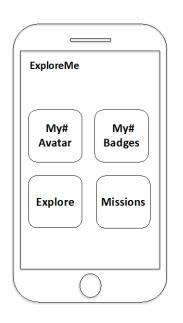
How might we...share facts and stories about sex and relationships with teens ages 13-15?

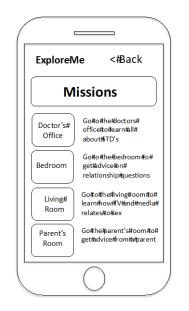


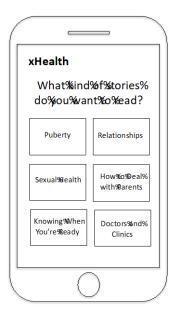




Method #4: Rapid prototyping









ExploreMe vs. xHealth



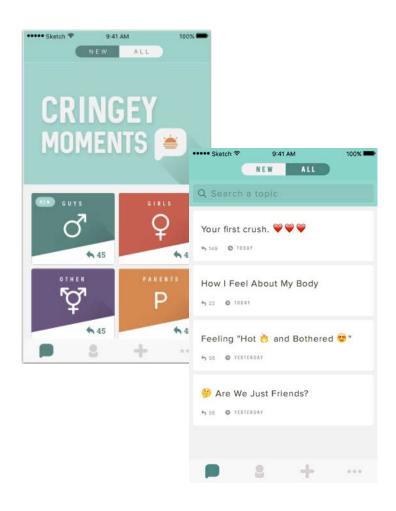
Ideation

Key findings:

- Teens want to know that they're not alone
- Teens want to read stories (not facts)
- Teens want to read text message convos instead of prose
- Teens like reading stories from different perspectives



The purpose of the Implementation Phase is to turn your idea into reality and to test it in the real world.





Method 5: Live prototyping







Method 6: Pilot

Key findings for web prototype Pilot Test #2 (5 days, 10 users):

- The average user session lasted 4 min, 56 sec
- Most user sessions (55%) occurred after school (3 pm 7 pm) and before bed (7 pm – 12 am)
- Users viewed an average of 4.16 stories per session
- 30% of users used the search bar

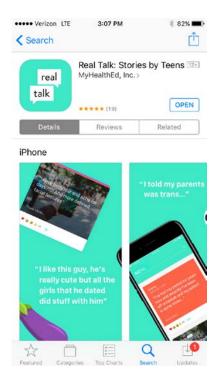


Key findings:

- The name of the app matters
- The App Store description matters
- Teens wanted to browse stories easily (like Instagram)
- Teens wanted to continue to inform decision-making (Teen Advisory Board formation)



We released the beta version of our Real Talk app in the iTunes App Store in September 2017.

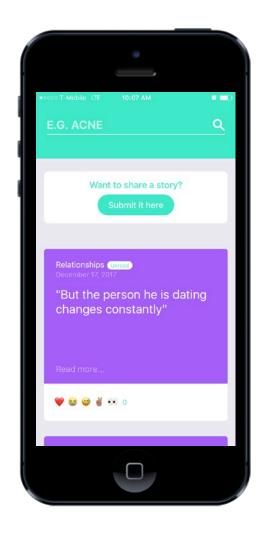


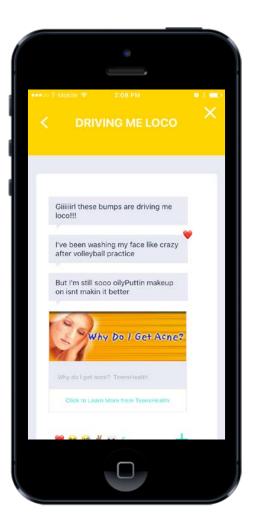
Available features:

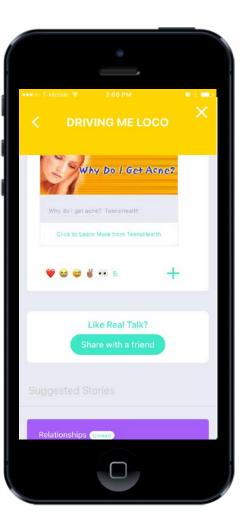
- Read stories
- Search stories
- Click on links to learn more
- Submit stories













Current updates (as of 10/7/19):

- 14,500+ users with users in all 50 states and 100+ countries
- Total stories read in-app: 161,943
- Total resources accessed in-app: 8,989
- 73%+ of users found Real Talk stories helpful
- 66% users learned something new in reading their first 10 stories



Partners and supporters



This opportunity is made possible by Grant Number TP2AH000023-01-00







OPPORTUNITIES FOR INNOVATION

How might we create funding opportunities...

- Where populations and health problems are identified but the solutions are less prescribed?
- That expect meaningful engagement with intended audiences in all stages of solution design, development, and implementation?
- That require multiple iterations of proposed solutions and real world testing?
- That foster greater collaboration (instead of competition) among grantees?

Got questions? Email Liz at liz@myhealthed.org.



References

IDEO.org. (2015). *The Field Guide to Human-Centered Design*. Retrieved from http://www.designkit.org/resources/1

NC Department of Public Instruction. (2018). N.C. Youth Risk Behavior Survey (YRBS). Retrieved October 30, 2018, from http://www.nchealthyschools.org/data/yrbs/



APPENDIX

Real Talk logic model

Inputs	User Activities	Outputs	Short-Term Outcom	es	Mid-Term Outcomes	Long-Term Outcomes
Curated stories about sexual health topics aligned to national standards External online sexual health content (e.g., Sex, Etc., Amaze.org) In-app story submission portal In-app search and story reaction function Technology Personnel	 Read stories React to stories Search for additional stories Access additional linked resources Submit stories 	 # of users # stories read # external links clicked Time spent on external links # stories submitted # of app / content shares 	Increased knowledge about sexual health topics More positive attitudes towards sexual risk reduction Increased perceived norms supporting sexual risk reduction More positive outcome expectations regarding sexual risk reduction	 Increased communication with parents, peers, and partners about sexual health topics Increased self-efficacy for refusing sex and/or establishing consent 	 Delayed sexual initiation Fewer sexual partners Increased condom use Increased contraceptive use 	Reduced teen pregnancy rates Reduced STI rates





Innovation Next Accelerator

the campaign to prevent unplanned pregnancy

01/2016-08/2016 Phase 1

- 10 teams of three selected o join Cohort 1
- 10 teams were awarded \$80K (Inspiration)
- 10 teams provided with IDEO training
- 10 teams participated in Pitch Day and put forth one idea to launch
- 5 teams selected to move forward to develop MVP

11/2016-05/2018 Phase 2

- 5 teams received \$325K to develop MVP by May 2018 (Ideation, Implementation)
- 5 teams provided with IDEO training and ongoing technical assistance for design thinking
- 5 teams delivered MVPs to Power to Decide



Design thinking & Community-based participatory research

	Human-Centered Design	Both	Community-Based Participatory Research
Values	EmpathyCreativityDelight	Co-creation	Relationship-buildingShifting power dynamics
Purpose	Generating actionScalable solutions	 Engages users/partners in all stages Provides a benefit to intended stakeholders 	 Generating research for future action Localized, contextual solutions
Process	 Short timeline Rapid iteration cycles with low fidelity prototypes Focus on individual extreme users Transdisciplinary team 	 Systematic Flexible/adaptable Generalizable Iterative Requires training to execute Clients/partners sustain efforts at project conclusion 	 Long timeline Focus on communities Interdisciplinary team
Outcomes	 Primary outcome is product/service Sole ownership of product/service 	Bidirectional knowledge exchange	 Primary outcome is research/knowledge Co-ownership of research/knowledge Capacity building

