HCD EXCHANGE

Dash Master Gaming Report HCDExchange

Jan 7, 2021

Image Credit: Yagazie Emezi/Getty Images/Images of Empowerment

OUR VISION

The HCDExchange is a *community of practice* dedicated to **advancing learning, evidence, and practice** in human-centered design and adolescent sexual and reproductive health (HCD+ASRH). We work in Sub Saharan Africa and Southeast Asia.

Together we explore, test, document, and evaluate this field, while supporting each other and sharing what we learn.

We do this through an active community of practice, centered on youth and powered by a supportive infrastructure.

OUR HYPOTHESIS

Ċ.

The HCDExchange's hypothesis is that the use of Human Centred Design (HCD) can strengthen Adolescent Sexual Reproductive Health (ASRH) strategies, interventions, and policies, and can help us involve and reach youth with appropriate and effective solutions.

As the use of HCD in ASRH grows, funders and practitioners seek to document further evidence and better understand the dynamics of human-centered approaches to improving youth sexual health.

The HCDExchange aims to catalyze the learning and evidence generation for the HCD+ASRH field.

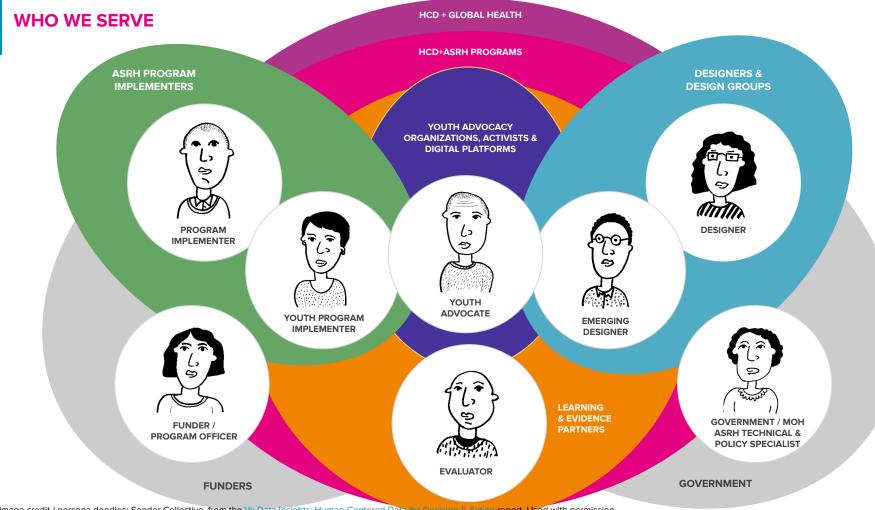


Image credit / persona doodles: Sonder Collective, from the Vx Data Insights; Human-Centered Data Vx Decision & Action, report. Used with permission.

Background

For the past 6 months (July 2020 to December 2020) HCDExchange has been using the Atingi platform to roll out health games amongst youth in Sub Saharan Africa and Southeast Asia with the goal of increasing learning around ASRH and HCD and to tracking the knowledge increase.

Our target was about 7,000 adolescents and youth aged between 14 and 30 years in both Sub Saharan Africa and Southeast Asia. In order to attain this target, HCDExchange used the following strategies:

- Created content for the monthly games based on the monthly guideline themes by WHO/ASRH 2020.
- Leveraged on HCDExchange' network composed of 9 implementing partners who are youth-led or run programs in Sub Saharan Africa and Southeast Asia.
- Developed an incentivization strategy and mechanism to engage adolescents and youth and increase the retention rate of gamers over the 6 month period.
- Measured and monitored knowledge acquisition over time using an embedded analytics platform on the yeepa gaming.
- Used social media platforms and networks of HCDExchange to disseminate and extend the reach and impact of these games.

Ċ.

Gaming Partners

A. Sub Saharan Africa:

Kenya: <u>Youth in Action (Y-Act)</u> is an initiative of Amref Health Africa that aims to mentor, support and increase the capacity of youth advocates to transform youth policy and projects in the areas of Sexual Reproductive Health Rights (SRHR) in Kenya.

Kenya: <u>Maisha Youth</u> is a virtual movement working to inspire and empower young people to make informed decisions that lead them to living healthy productive lives, and being the agents of change in their families, communities, and countries.

Ethiopia: <u>Big Dream</u> is a Youth Led NGO working to advance awareness on quality education, youth empowerment, healthy living and green activism.

Namibia: Deluded Bros Inc is a Namibian initiative that prides itself in using creative arts and popular culture.

Tanzania: <u>Restless Development</u> has been operating for over 25 years working across 18 regions including rural and urban areas. Their vision is to ensure that young people are transforming their societies supported fully by their governments, their communities, businesses and civil society institutions. In 2019, they empowered 31,688 Change-makers (15,103 males, 16,585 females) to lead development and change in their communities.

Namibia: <u>Outright Namibia</u> is one of the regional offices of Outright International, working to represent the voices of LGBTI people.

Cameroon: <u>MenEngage Africa</u> is a chapter of the larger MenEngage Africa Alliance seeking to provide a collective voice on the need to engage men and boys in gender equality.

Gaming Partners

B. South East Asia

India: <u>Restless Development</u> has been operating in India for over 30 years. Their vision is to empower adolescents and youth and to address SRHR issues. In 2015, through their **not so young** campaign they reached more than 180,000 young people in urban and rural communities.

India: <u>The YP Foundation</u> is a non-profit organization that aims to empower young people to access critical information about their health, education, and rights in order to enable them to analyze and use this information for their development and to become successful advocates for rights of other youth. Since initiation in 2002, the organization has worked directly with over 6500 young people across its programme divisions using peer led methods of implementation and community engagement.



Learning Objectives

To create awareness and build knowledge in ASRH and HCD for young people in Sub-Saharan Africa and Southeast Asia.



Gaming Platform & Design

Powered by yeepa, HCDExchange health gaming was made possible through <u>www.atingi.games</u> platform on a monthly basis and designed according to the monthly theme or topic per WHO guidelines.

Instructions for Gaming

- First time gamers were required to register their credentials to the platform with unique registration codes provided for each region/network or group.
- 2. Details provided were name, nickname, phone contact, region and email address.
- 3. Email confirmation was sent for a successful registration process.
- 4. For consequent logins, the gamers had to put in their login credentials provided during the initial registration process.

Gaming Design

We launched each game in 2 levels. As a strategy to gain traction for gaming and retain youth in the platform, we held 2 live gaming sessions on the last Friday of August and September 2020. The sessions were live streamed on our YouTube Channel and Facebook page.



Month	Торіс	Level	Date Launched
July	HIV/AIDS	Level 1: HIV Prevention Level 2: HIV Care	27th July 2020
August	Youth Powered Design	Level 1: Human Centered Design Level 2: Youth Powered Design for ASRH	12th August 2020
September	Teen Pregnancy Prevention	Level 1: Teen Pregnancy Prevention Level 2: Contraception	25th September 2020
October	Comprehensive Sexuality Education	Level 1: Comprehensive Sexuality Education	14th October 2020

÷.

Content Development

- The content of the games were developed collaboratively with the gaming partners and the Youth Leadership Hub*.
- HCDExchange trained the gaming partners on how to develop the content and once games were completed we uploaded them to <u>www.atingi.games</u> platform

Social Media Strategy

- Social media posts were released a week prior to the launch of monthly games. Upon the launch, 2 reminder posts were shared twice a week.
- Short video clips from the Youth Leadership Hub were disseminated on HCDExchange social media.
- Gaming partners also advertised on their social media platforms for wider reach.

Incentivization Mechanism

Ċ.

Our incentivization strategy recognised gamers for each game that was based on the best overall player who had the highest success score and yeepa index. This was reflective on their frequency of gaming.

The Bi-weekly prizes were in the form of airtime (data) of \$20 (Ksh.2,000) incentivizing the youth to keep playing. Through an HCD process, the HCDExchange Team, Youth Leadership Hub and the gaming partners iterated on the prize mechanism to accommodate the geographical variance of the gamers.

* group of youth who guide and work alongside the HCDExchange Secretariat to advance the community, ensuring meaningful youth engagement.

GAMING RESULTS

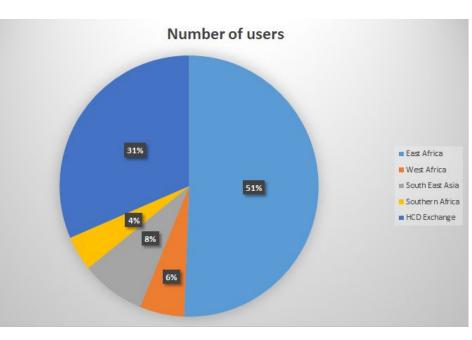
Youth Powered Design Game

Learning Objectives: Level 1 and 2 comprised of about 100 questions and had the following learning objectives:

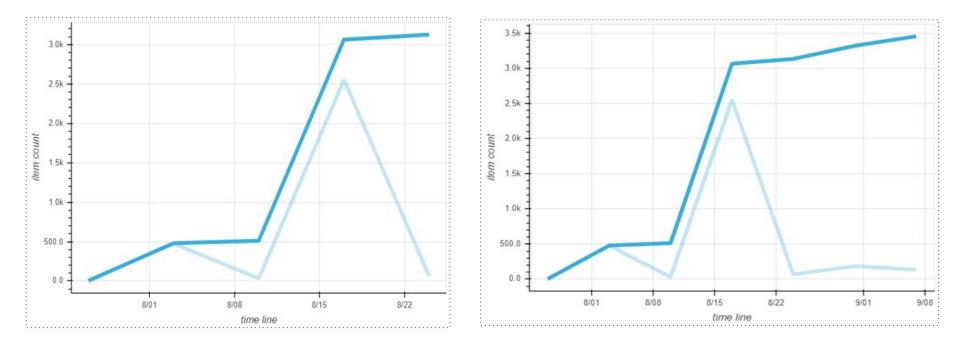
- To enable gamers to apply design thinking to mitigate challenges faced by youth including Gender Based Violence (GBV) and HIV prevention
- 2. **To process the extent of GBV and HIV** prevalence and challenges in their communities

Ċ.



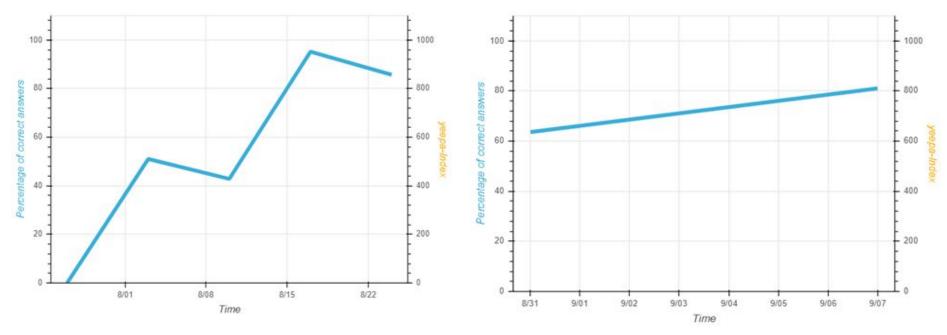


Platform Usage Youth Powered Design Game



Since its launch, questions of the DASH Master – Youth Powered Design Level 1 game has been played over 3000 times Since its launch, questions of the DASH Master – **Youth Powered Design Level 2 game has been played over 3500 times**

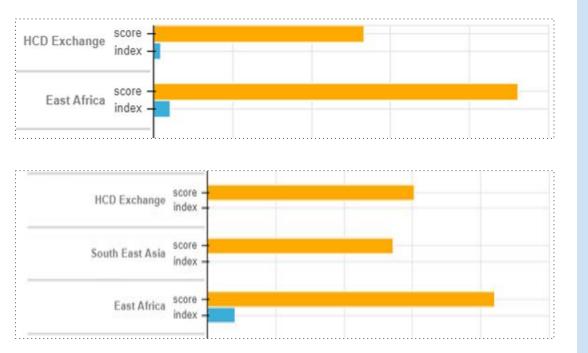
Knowledge Index Youth Powered Design Game



The percent of correct answers has been on a steady rise for Level 1 reaching an **average of about 85%**

The percent of correct answers has been on a steady rise for Level 2 reaching an **average of about 81%** from 63%

Knowledge Index Youth Powered Design Game



For group performance, enough data was generated for HCDExchange, South East Asia and East Africa groups:

East Africa – 84% success score and an average yeepa index of 81 HCDExchange – 60% success score South East Asia – 54% success score

How Well Were Questions Answered in Level 1? Youth Powered Design Game

ITEMS						CB	•
D	Question-T	ext		S	core Diff	. Dur.	Max
903		s NOT a pre-condition for youth engagement?	~	62	2.7%	7.5s	68.1%
904		e core elements of youth engagement? (Multiple	~	6	5.7%	8.9s	50.0%
	\$ 910	True or false: Consent can be withdr at any time in a sexual act	awn	~	98.0%	5.6s	98.0%
	6 871	In what areas in your life can design thinking be applied?		~	98.1%	5.0s	98.1%
	6 879	True or false: Women can be perpetr of gender based violence	ators	~	98.2%	5.5s	100.0%
	6 883	If you were to apply to design thinkin tackle HIV prevalence and incidence what particular areas would you foct or think would have the most impact	us on	×	98.3%	6.1s	53.4%
	6 881	True or false: 'Men can be victims of gender based violence too'		~	100.0%	6.1s	100.0%

The gamers scored lowest on questions around meaningful youth engagement.

The gamers answered correctly and scored highest on true/false questions around gender based violence and consent.

How Well Were Questions Answered in Level 2? Youth Powered Design Game

Design thinking level 2 Filter: All Questions

ITEMS				C 🛛 🛢	2
ID	Score	Diff.	Dur.	Max	
0 1164	28.6%		9.2s	50.0%	
What is the offi in UN processe	cial UN body mandat s?	ed to create spa	ce for young peo	ple to participate	~
O 1139	37.0%		16.1s	37.0%	
0 1132					
	llowing is NOT an ef	fective character	istic of public me	essaging around	~
Which of the fo	llowing is NOT an eff 39.1%	fective characteri	istic of public me 12.4s	ssaging around 52.2%	~

For Level 2, the gamers answered least correctly on scenario questions around meaningful youth engagement, public message and mandated bodies responsible for youth participatory processes.

Responses to Survey Questions: Level 1 Youth Powered Design Game

Survey questions to help gauge knowledge background of gamers

50.0%

868

Have you ever taken an HCD/Design thinking course or class?

Overall result	%	Count	Given Answer
	50.0%	8	Yes
	50.0%	8	No

2 871		100	100.0%		
In what areas in your life can design	n thinking be applied?		igned to help gamers articulate where their knowledge		
Overall result	%	Count	Given Answer		
	0.0%	0	Your work/professional life		
	0.0%	0	Your personal life		
	0.0%	0	Your hobbies		
	100.0%	10	All areas of your life		

Responses to Survey Questions: Level 2 Youth Powered Design Game

O 1134

80.0%

Have you ever been non meaningfully engaged by an organization?

Overall result	%	Count	Given Answer
	80.0%	8	Yes
	20.0%	2	No

1135

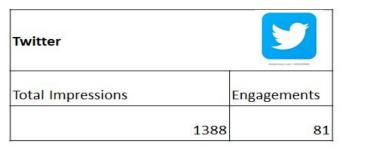
50.0%

What channels do you use most frequently for advocacy around sexual reproductive health?

Overall result	%	Count	Given Answer
	50.0%	5	Social Media
•	10.0%	1	Physical campaigns
	0.0%	0	Online events
	40.0%	4	Creative arts
	0.0%	0	Offline engagements

Questions to help gamers decide which mediums to use for youth programming

Social Media Analytics Youth Powered Design Game



Instagram	Ø
Stories Reach	325
Post Reach	275

Facebook Live Gaming Session	f
82 people reached	
39 Likes, comments and shares	

GAMING RESULTS

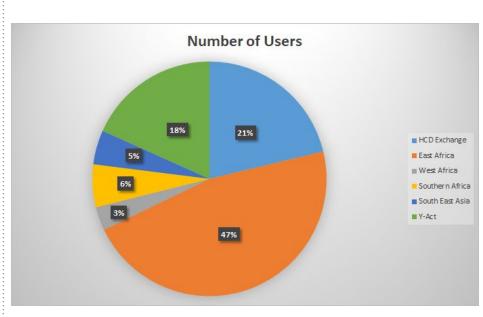
Teenage Pregnancy Prevention Game

Levels 1 and 2 comprised of about 120 questions and had the following objectives:

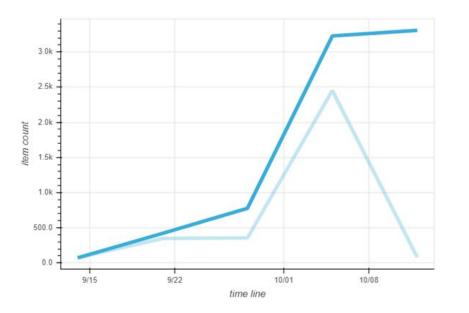
- 1. To provide more information about contraceptive methods
- 2. To understand the impact of teen pregnancies on youth
- 3. To identify the causes and impacts of adolescent pregnancy
- 4. Safe abortion practices
- 5. To enable partners work around teen pregnancy prevention

Ċ.

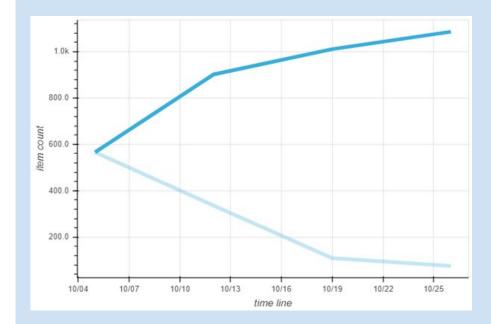
Registration by cohort – 15th Sept to 19th Nov 2020



Usage Teenage Pregnancy Prevention Game

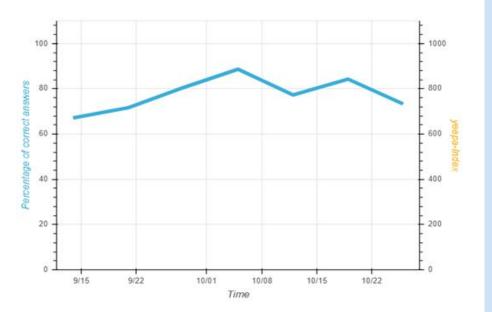


Since its launch, questions of the DASH Master – **Teen Pregnancy Prevention Level 1 has been played over 3000 times**

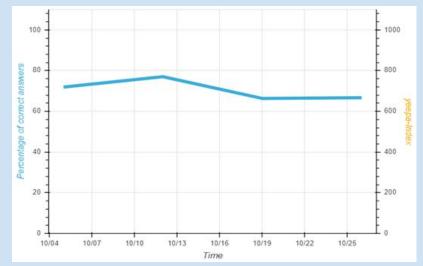


Since its launch, questions of the DASH Master – **Teen Pregnancy Prevention Level 2 game has been played over 1000 times**

Knowledge Index Teenage Pregnancy Prevention Game



The percent of correct answers for Level 1 has increased from 67% to an average of 73%



The percent of correct answers for Level 2 has decreased 71% to 66.7%

How Well Were Questions Answered for Level 1? Teenage Pregnancy Prevention Game

Which doesn't a	apply to the cause of teenag	e pregnancy ?		\sim
0 1592	79.0%	6.5s	79.0%	
What is the BES	ST way to advocate for safe	contraceptive methods fo	r young girls?	\vee
0 1582	79.4%	6.7s	79.4%	
Which one is N	OT a health problem or com	plication related to teenag	ge pregnancy?	\vee
O 1595	79.4%	5.4s	79.4%	
Home pregnand refers to ?	cy tests (HPTs) work by dete	ecting the presence of hCG	G in the urine. hCG	v
O 1564	79.7%	4.9s	79.7%	

The gamers answered questions around the causes, complications and testing for teenage pregnancy least correctly for Level 1

True or False: F	oor parental guidance contri	butes to teen pregnancy.		V
O 1603	97.0%	5.0s	94.0%	
Do you think he your experience	alth workers treat teen parer ?	nts differently than older p	parents based on	V
O 1604	98.7%	6.4s	32.9%	
What advice w	ould you give to a teen who is	a convertive but offici	dan anthran shorts	
	dians? Select the answer that			v
				~
parents or guar 9 1602	dians? Select the answer that	it is most appropriate to y 6.3s	you	× ×
parents or guar 9 1602	dians? Select the answer the	it is most appropriate to y 6.3s	you	~

The gamers answered questions around role of parents and health workers most correctly for Level 1

How Well Were Questions Answered for Level 2? Teenage Pregnancy Prevention Game

ID	Score	Diff.	Dur.	Max	
O 1608	100.0%		5.8s	100.0%	
What does SRH	IR stand for?				\sim
O 1609	93.3%		3.9s	93.3%	
SRHR affects b	oth male and female				\sim
O 1610	91.7%		6.3s	91.7%	
Which of the fo	llowing is NOT a spe	ciality of HCDex	change?		\sim
O 1611	76.7%		7.8s	76.7%	
Which one is no	ot an activity in the id	leation stage in o	lesign thinking?		\sim
0 1612	74.3%		5.8s	74.3%	

ID	Score	Diff.	Dur.	Max	
O 1659	0.0%		8.2s	60.0%	
What is the cur	rent prevalence rate	of teenage pregn	ancies in Africa?		V
0 1676	0.0%		15.1s	50.0%	
What are some	of the barriers to leg	islation of sex e	ducation in public	c schools globally?	~
0 1642	16.7%		10.6s	41.7%	
	tended pregnancies eloping countries	occur each year	among adolesce	nts girls aged 15-	~
0 1635	25.0%		22.1s	25.0%	

The gamers answered questions around SRHR, design thinking (repeat question) and HCDExchange correctly

The gamers did not understand well the questions around statistics of teen pregnancies and legislation in schools globally

	Responses to Survey Questions: Level 1 Teenage Pregnancy Prevention Game	Survey questions to help gauge awareness of products and services availability commonly used by youth
0	1575	91.7%
W	/hich contraception method is most used by youth in your country?	^

Overall result	%	Count	Given Answer
	0.0%	0	Oral pills
	91.7%	11	Male condoms
	0.0%	0	Female condoms
1 · · · · · · · · · · · · · · · · · · ·	8.3%	1	Emergency contraception
	0.0%	0	Other
	0.0%	0	I don't know

Responses to Survey Questions: Level 1 Teenage Pregnancy Prevention Game

Survey questions to help gauge awareness of products and services availability

0 1596

During your teenage years, were you aware of contraceptive methods available to you?

Overall result	%	Count	Given Answer	
••••••••••••••••••••••••••••••••••••	29.4%	5	Yes	
	29.4%	5	No	
	41.2%	7	Just a little	
1601Have you ever thought about	how a pregnancy would affect your life r	ight now?	93.8%	Survey questions to help gauge vulnerabilities of youth and awareness of associated risky behaviours

41.2%

Overall result	%	Count	Given Answer
	93.8%	15	Yes
1	6.3%	1	No

Responses to Survey Questions: Level 2 Teenage Pregnancy Prevention Game

eenage Pregnancy Prevention Gar	ne		Survey questions to help build awareness of youth about the gaming
@ 1668	_	100.0%	partners' work and the programming available
Deluded Bros Inc uses comic books to inf	orm people on Socio-economic issues		to them
0			0

Overall result	%	C	Count	Given Answer
	100.	0% 8	1	Yes
	0.0%	0)	No
@ 1669				Survey questions to help youth to critically think about and foster
If you were to be given a position Overall result %	their agency in making changes in their communities			

overan result		oount	on christen
	12.5%	1	Legislation tailored to care and develop young adolescents
	50.0%	4	Come up with programs and initiatives that call for active youth participation in our communities
	37.5%	3	Create safe spaces for young adoloscents to air and discuss their daily struggles.

 Responses to Survey Questions: Level 2
 Survey questions to help gauge the types of challenges in different countries and their prevalence

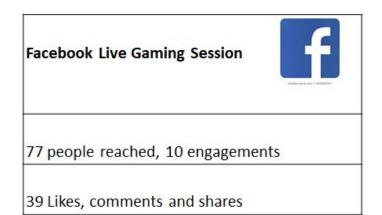
 1136
 27.3%

 What is the most pressing adolescent sexual reproductive health issue in your country?

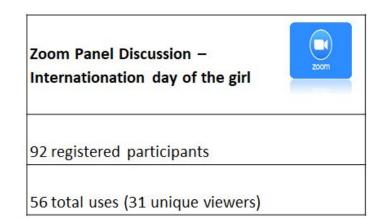
Overall result	%	Count	Given Answer
	27.3%	3	Teen pregnancy
	18.2%	2	Sexual and Gender Based Violence
	18.2%	2	Limited access to family planning
	18.2%	2	HIV/AIDS Prevalence
	18.2%	2	Unsafe abortions
	0.0%	0	None of the above

Social Media Analytics Teenage Pregnancy Prevention Game

Twitter		Altered Jay + KERNE
Total Impressions		Engagements
	3012	104



Instagram	Ø
Stories Reach	311
Post Reach	394



GAMING RESULTS

Comprehensive Sexuality Education Game

Comprehensive Sexuality Education (CSE) game had the following learning objectives:

- To provide an understanding about CSE, best 1. practices, sources of CSE and why it is important
- 2. To provide practical examples on how we can use HCD as an approach to advance CSE



Ċ.

Play Measure



O DASH MASTER: Teen Pregnancy Prevention Level 1

Eager to learn about designing contraceptives as a tool and being able to use your voice and knowledge to reduce teen pregnancies? This is the game for you!



O DASH MASTER: Teen Pregnancy Prevention Level 2

This level is all about understanding the impact of teen pregnancies, spotlight the work partners are doing around teen pregnancy prevention and how we can apply design thinking to reduce consequences and incidence of teen pregnancy



O DASH MASTER: Youth Powered Design

Do you want to know how you can apply design thinking to improve health outcomes? Play this game to learn more about the grappling challenges of GBV and HIV that youth frequently face, and how design thinking can mitigate these

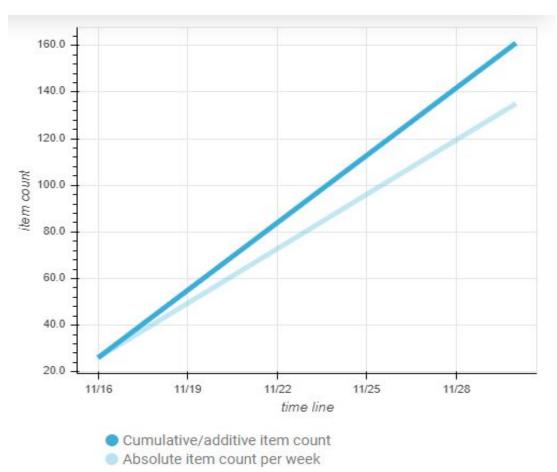


O DASH MASTER: Youth Powered Design LEVEL 2

This level is all about applying the design thinking skills you learned in level 1, and seeing how to meaningfully engage youth and participate in advocacy and public campaigning around ASRH

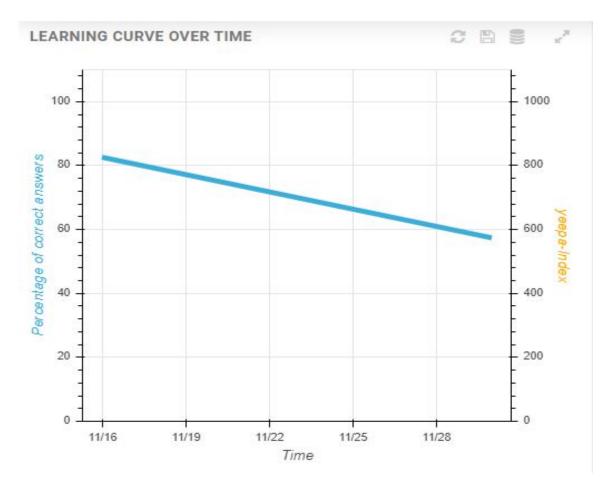


Usage Comprehensive Sexuality Education Game



Since its launch, Dash Master Comprehensive Sexuality Education has been played over 160 times

Knowledge Index Comprehensive Sexuaiity Education Game



The percentage of correct answer for Comprehensive Sexuality Education has decreased from 85% to 59%

How Well Were Questions Answered for Level 1? Comprehensive Sexuality Education Game

What is CSE?				\sim
@ 1803	100.0%	3.0s	100.0%	
In what ways	does CSE reduce Gende	er Based Violence?		×
@ 1805	100.0%	2.8s	100.0%	
What are som	ne of the topics that CSE	E cover?		\sim
@ 1806	100.0%	4.6s	100.0%	
What other na	ames does CSE go by?			\sim
@ 1807	100.0%	21.1s	100.0%	
Comprehensi	ive sexuality education r	nust do the following	EXCEPT:	\sim
@ 1839	100.0%	2.8s	100.0%	

The gamers answered questions around the value and importance of Comprehensive Sexuality Education most correctly

A team of youth programmers brainstormed ideas to include on the CSE curriculum. Which design thinking stage does this fall under

@ 1846	66.7%	3.7s	66.7	7%
Which of the a CSE curric	e following are relevan ulum?	t sources of inspirati	on when des	signir
1847	50.0%	14.9s	50.0)%
	e are practical ways of n designing campaigns		uth-adult	~
@ 1886	25.0%	4.4s	75.0%	
Which of the f a CSE curricul	ollowing are relevant so um?	urces of inspiration wh	en designing	~

The gamers answered questions on developing a framework for implementing CSE using design thinking least correctly

Responses to Survey Questions: Level 1 Comprehensive Sexuality Education Game

Survey questions to help to identify the motivators and factors that would contribute to an effective implementation of CSE

0 1784				100.0%			
Does religio	on contrib	ute to CSI	Ξ?			^	
Overall res	sult		%	Count	Given Answe	er	
			100.0%	2	Yes	Survey questions to helps program	
			0.0%	0	No	implementers identify areas of for for effective youth programs	
O 1881				50.0%		·	
Imagine th	i <mark>at you</mark> are	e part of a	youth task force assigned to conduct HCD	processes to improve CSE for yo	outh in your community.	What areas would you focus on?	
Overall							
result	%	Count	Given Answer				
	0.0%	0	a.) Work with the Ministry of Education to	incorporated youth friendly CSE	curriculum for school g	joing children	
1	50.0%	1	b.) Work with the Ministry of Health for mo	pre gender focused programmir	ng for youth to reduce ra	tes of unintended pregnancies, STIs etc.	
	0.0%	0	c.) To build community programs for yout	n that help improve agency of yo	outh both in and out of s	school	
	50.0%	1	d.) To partner with churches and other reli improving social economic and health out		nd fake news about cont	traception etc. that serve as barriers to	

Social Media Analytics Comprehensive Sexuality Education Game

Twitter	Y	Instagra
Impressions	Engagements	Stories
378	30	Post rea
410	16	Facebo
175	6	
425	29	82 peop
1388	81	39 Likes

Instagram	O
Stories reached	325
Post reach	275

Facebook Live Gaming Sessions	f
82 people reached	
39 Likes, comments and shares	

KEY GAMING HIGHLIGHTS

- We've launched **4 health games**; HIV prevention and care, Youth Powered Design, Teenage Pregnancy Prevention and Comprehensive Sexuality Education within 6 months in 2020
- To **extend the impact of gaming**, we launched the Youth Powered Design Game and Teenage Pregnancy Prevention Game on International Youth Day 2020 and World Contraception Day 2020 respectively
- We have been working with the **following 9 partners** to implement gaming and incorporate it into their programming on ASRH: YP Foundation, MenEngage Africa, Y-ACT, Deluded Bros Inc, Big Dream, Outright Namibia, Restless Development (India), Restless Development (Tanzania), and Maisha Youth
- Over 280 gaming questions have been played over 10,000 times
- Youth Powered Design game had the highest knowledge index of 85% having been played over 3500 times
- We successfully incorporated gaming into different modalities (webinar on the International Day of the Girl 2020 in partnership with Amref Health)
- Geographically, East Africa had the highest number of active players and registered users

LESSONS LEARNT

- Consistent engagement with gaming partners and stakeholders contributes to their commitment and coordination into the program
- Beta testing for each gaming level allows the programmers identify weak points and undertake iteration before each launch
- Gaming is most cost effective when integrated into existing workshops, trainings, programmes and curriculum
- Key motivators and incentives highly vary by demographic, affecting usage and retention
- Implementers and managers must include resource requirements to maintain, motivate and scale-up the use of gaming in the dramaturgy and implementation plan
- Offline access to the platform is key for reaching vulnerable and at-risk gamers from remote and low-resource settings

 Implementing HCD process is important in identifying the gaming personas and addressing their gaming needs, motivations and aspirations.
 We undertook a HCD process and these were the gaming personas identified:



Gaming enthusiast - A gamer in the true sense. Always the first to test out new games (early adopter) and has an appetite for winning!



Curious Dabbler - Curious at first, this person wants to know the latest and tries everything; however, he/she is quick to fall off the bandwagon.



Indifferent Disbeliever - Not convinced that knowledge can be acquired through gaming.



Ċ.

Vulnerable In-access - Due to lack of access to technology they are hard to reach through gaming.

NEXT STEPS & APPLYING LESSONS LEARNED

- Transitioning implementation of gaming to partners who closely work with the personas
- Considering off-line modalities and other dissemination methods to reach the vulnerable demographic to make a bigger impact
- Re-designing gaming dramaturgies for different use cases to include iterative and continuous HCD processes as well as deliberate, contextualized incentive mechanisms
- Realizing that gaming may not provide a generic solution to all partners; thus, considering engaging them individually to deliberately meet their needs and concerns
- Changing the strategy to identify our gaming personas and their key motivations
- Identifying a tool to measure the impact of these games beyond the platform





THANK YOU

For enquiries and feedback email: <u>magc@hcdexchange.org</u>

Image Credit: Yagazie Emezi/Getty Images/Images of Empowerment