

Covid Vaccines Acceptability Insights Introduction

Johnson & Johnson Global Public Health

Coronavirus 2019-nCov novel coronavirus

Introductions

Johnson & Johnson

- **Jason Betik**, GPH Consumer Strategy and Innovation Global Lead
- **Lauren Marks**, Global Strategic Partnerships Lead
- **Regeru Njoroge Regeru**, GPH Vaccines SSA Implementation & Program Management Lead
- **Janice April**, Insights & Intelligence Manager Vaccines, Africa
- **Jeffrey Doering**, Global Lead, Data Science & Strategy
- **Caroline Baratz**, Global Strategic Partnerships Manager, Digital Health
- **Diana Irungu**, Strategy Lead, Vaccines
- **Grace Humwa**, Vaccine Country Implementation and Access Manager
- **Leah Meadows**, Insights & Experience Strategy Senior Manager

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- **Dr. Catherine Lengewa**, Technical Director
- **Philip Kinyota**, Associate Technical Director
- **June Ndungu**, Program Manager
- **Audrine Mikhala**, MEAL Manager
- **Roggers Kinoti**, MEAL Officer
- **Nicole Anyika**, MEAL Support
- **Hellen Collette**, MEAL Support

Nairobi Metropolitan Services

- **Lillyan Mutua**, Health Promotion Lead

Development partners

- **Kim Case** (USAID)
- **Irene Angwenyi** (USAID)
- **Justin Williams** (CDC)
- **Maureen Ngesa** (MSP)
- **Nancy Nyagoya** (MSP)
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- **Ranelle Sykes** (MSI)
- **Norah Ochiel** (MSI)

Boston Consulting Group

- **Tristan Hunt**, Principal
- **Marina Tan**, Consultant
- **Zahra Asghar**, Associate

Agenda

- | | | |
|----------|---|--|
| 1 | Welcome | Group 15 min |
| 2 | Our Insights + Opportunity Use Cases | Jason Betik + Janice April 45 min |
| 3 | Zooming into Nairobi | Jeff Doering 20 min |
| 4 | Discussion + Next Steps | Group 40 min |

Through a dedicated
**Global Public Health
(GPH)**

organization, we are a team of innovators who put the world's most vulnerable at the heart of everything we do—measuring our success in lives improved.

170+
person team across
26
countries

End-to-end
organization

- Research & Development
- Strategy & External Affairs
- Field-based teams

100+
partners to
deliver impact

250 million+
lives impacted
in 2021

**Executive-
level
leadership**

**Leverage full
capabilities
and resources**
of Johnson & Johnson



Our Mission

Make relevant innovations that
save lives, cure patients and prevent disease
available – affordable – accessible
for the world's most vulnerable & underserved populations.

Vaccine Uptake: Strengthening Vaccine Confidence

Vaccines do not guarantee vaccinations: As COVID-19 vaccines become more widely available, we must strengthen vaccine confidence to improve vaccine uptake.



J&J GPH is conducting **unbranded research** to improve understanding of vaccine confidence across Sub Saharan Africa and how it is changing over time. This research does not include any information about the J&J vaccine, nor any other vaccines from other manufacturers.



Vaccine Confidence Research is in service of **Vaccine Confidence Campaigns and Risk Communication Plans**. Donors and NGOs can use this research to increase the effectiveness of their Campaigns.

ILLUSTRATIVE EXAMPLES OF RESEARCH:

WHY
people aren't getting vaccinated



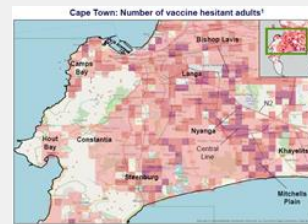
Insights Report, based on WHO/SAGE 3Cs model

WHICH
Population segments are most resistant

	Segment 1	Segment 2	Segment 3	Segment 4	Segment 5
% of population	10%	10%	10%	10%	10%
Summary	Consistent of COVID threat and vaccine benefits. Demand for quick rollout driven by social responsibility to protect their community.	Consistent of COVID threat, but skepticism about vaccine safety and efficacy inhibits perceived benefit and quick uptake.	Strongly skeptical of COVID threat and of COVID vaccine. Misinformation in the vaccine's progress and effectiveness leads them not to accept vaccine solution. If at all.	Consistent of COVID threat and benefits of a vaccine. Not motivated by vaccine benefits. Could benefit strongly if the process would ease vaccine entry.	Not convinced of the threat of COVID as a disease and that individuals need a vaccine, but are hesitant to accept. Could be persuaded by social norms and strong messaging.
Understood the value of COVID vaccine	Highly likely (85% willing)	Neutral (60% willing)	Highly unlikely (15% willing)	Highly likely (85% willing)	Highly unlikely (15% willing)
Willing to accept COVID vaccine	As soon as possible	Not at least 6-12 weeks	Never	As soon as possible	Not at least 6-12 weeks
Perceived ease of getting the vaccine	Very easy	Fairly easy	Fairly easy	Not reported at all sites	Fairly easy
COVID disease perception	High perceived risk and severity	High perceived risk and severity	Low perceived risk and severity	High perceived risk and severity	Low perceived risk and severity

Attitudinal/Behavioral Segmentation

WHERE
to focus geographically within country



Geospatial Mapping of the 3Cs

WHAT
to say to change attitudes and behavior

“Getting the vaccine is like getting a sturdy umbrella and overcoat during a rainstorm. It makes sure that you avoid the worst of it. The idea is to keep you safe and dry from the rain”

Message Testing

WHO
should the communication come from



Influencer Plan

In our commercial business, campaigns are now highly targeted and relevant for specific audiences through precision marketing.

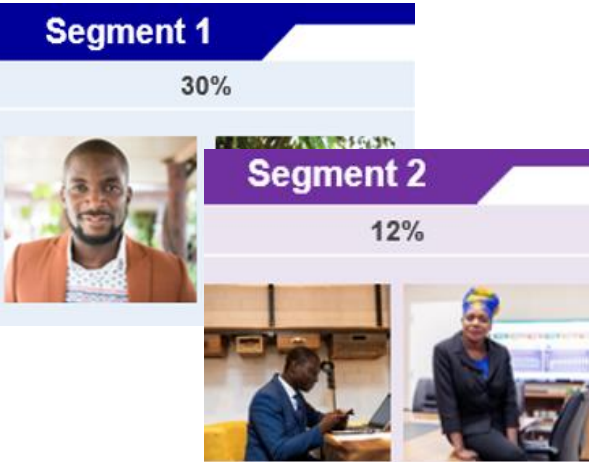
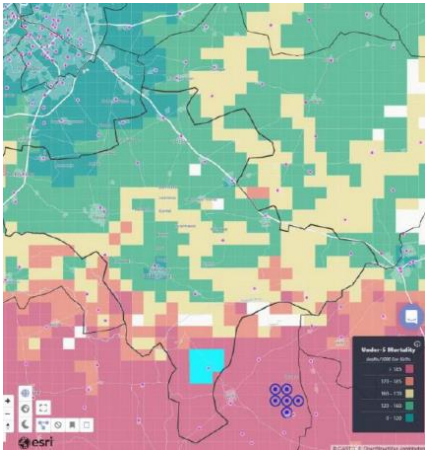
Our intention is to share J&J's commercial tactics to benefit the global public health community and to invest in disseminating actionable, data-based insights.

Precision marketing...



...can drive impact in global public health

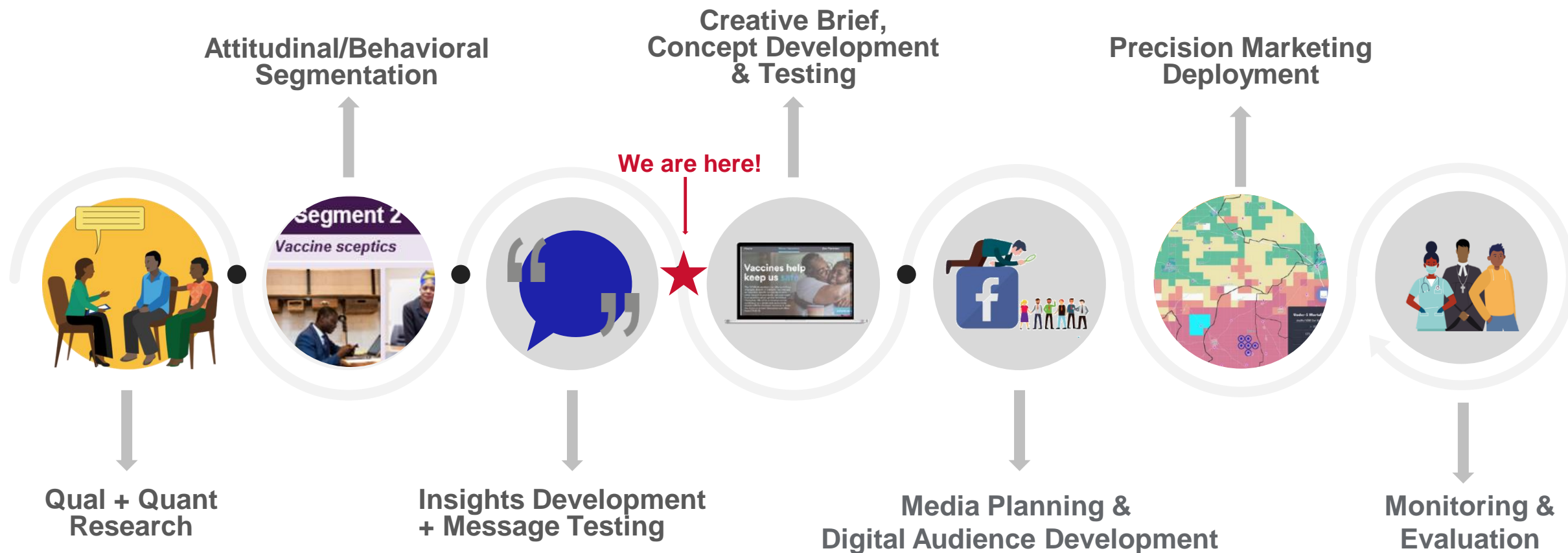
Many global health SBC campaigns start by targeting demographics. Complementing this with **advanced consumer analytics** that overlay attitudes & behaviors across geographies can help **target and tailor relevant communications.**



Attitudinal/Behavioral Segmentation can serve as a springboard for targeted creative development, testing and communication execution with advanced analytics

 Check in:

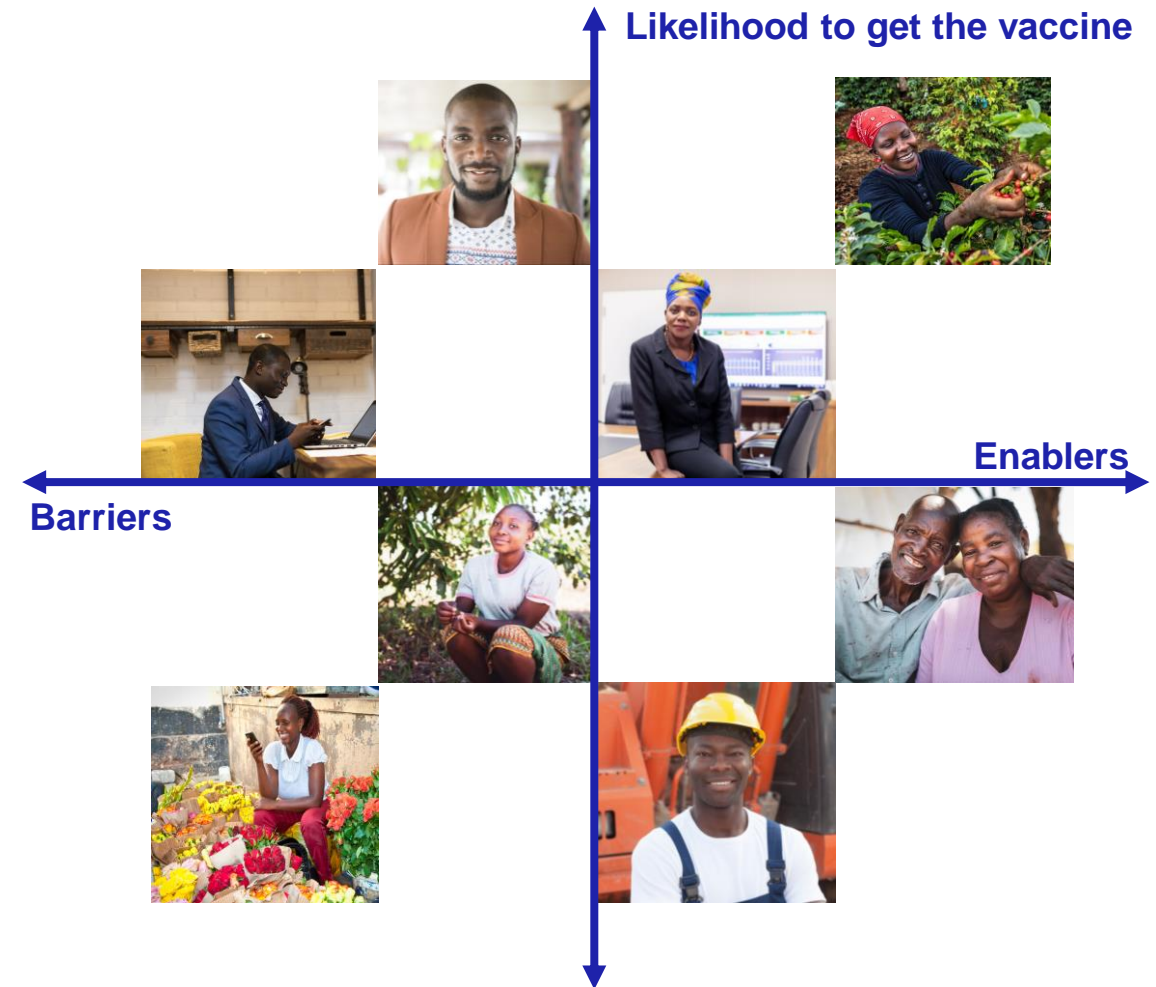
Where are you in the creative development process?



We used statistically robust segmentation to identify groups of vaccination attitudes and mapped what messaging works, from whom, and where.

We aim to understand the enablers and barriers **along the spectrum** of those who will take the COVID vaccine, those who will never take the vaccine, and those who are undecided, as well as the proportion of these groups per country.

Especially for the undecided, we want to understand **what their reasons against vaccinating are**, and **engage them** in a conversation on issues that matter to them – speak to them based on their real values and concerns.



The data behind it (in partnership with IPSOS MORI + fraym)

Segmentation

Vaccine awareness, uptake, attitudes, beliefs, drivers, barriers, optimal communication channels **Kenya**, **Zambia**, and **Nigeria**

- Over **n=800** per market
- Sampling quotas:
 - 50/50 male and female split
 - 33/33/33 split across low, medium and high poverty using Poverty Index scores
 - At least 10% self-reporting one or more comorbidities
 - Regional sampling proportional to country population

Fieldwork conducted between August to September 2021

Respondents recruited using Ipsos' database of individuals 18+

Interviewers conducted 30-minute computer-aided telephone interviews

Message Testing

Force-choice experiment of messages, ideal messenger, and likelihood to impact behavior in **Kenya**, **Zambia**, and **Nigeria**

- Over **n=800** per market
- Similar sampling quotas to segmentation
- Must not have received the COVID-19 vaccine before
- Must not always avoid personal vaccinations

Fieldwork conducted between November to December 2021

Interviewers conducted 30-minute computer-aided telephone interviews with conjoint analysis

Geospatial Mapping

Geospatial mapping of vaccine attitudes, media consumption, demographics, language, socioeconomics, communications, media, and health centers in **Kenya**, **Zambia**, and **Nigeria**

- 2021 Fraym Kenya field survey (May 2021)
- WHO health facilities mapping¹
- Malaria Atlas Project walking and driving times to health facilities²
- Uses artificial intelligence and machine learning with proprietary software FUSEfraym™



The segments reinforce the **WHO/SAGE** recommendations of the 3 C's Framework (**Confidence, Complacency, Convenience**) for vaccine engagement, with the backing of demographic data

A snapshot of the segments

👋 Check in:

- Does this resonate?
- As you think about your target pops, which segment(s) might you target first?

Challenges aligned to WHO 3C Framework

Convenience

Practical barriers to access

Confidence + Complacency

perception of low risk and disease severity

Confidence

Trust in safety and efficacy

Confidence Complacency Convenience



“If there’s anything I can do to protect myself, I’ll do it!”

“In theory I would get it, but I’m uncertain about logistics.”

“I’m not against it, I just don’t think I need it. I’ll wait and see.”

“I know it’s important, but I want to wait and see if it’s safe.”

“I don’t trust it and don’t need it. Stop telling me to get it.”

% of Kenya population
[Global %]

30%
[24%]

38%
[19%]

15%
[20%]

12%
[25%]

6%
[12%]

Segment # **1**
Johnson & Johnson

4


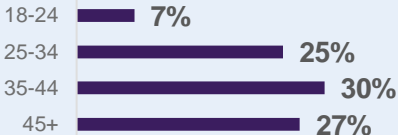


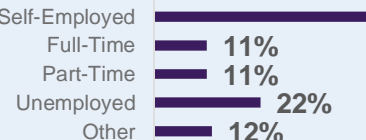
5

2

3

Meet the **Confident Enthusiasts** in Kenya (Segment 1 Teaser)

Segment 1 Overview	
Summary	Convinced of COVID threat and vaccine benefits. Would be quick adopters driven by social responsibility to protect their community.
% of Kenya population [multi-country %]	30% [24%]
Likelihood to take a COVID-19 vaccine	Very High
Speed of uptake	As soon as possible
Perceived ease of getting the vaccine	Very easy
COVID disease perceptions	High perceived risk and severity

Demographics	
	
Gender	♂ 53% ♀ 47%
Age	
Urban/ Peri-urban/ Rural	
	28% 10% 62%
Poverty Index	
	30% 36% 34%
Employment Status	


Optimal Messages + Messengers (Global)			
Information Channels (Top 3)	 Radio 95%	 TV 85%	 Social media 69%
WHAT to say to change attitudes and behavior	WHO should communicate	HOW the messages reach them	
			
Control messages: Messages that have already been circulated by the WHO/Health officials	Experts: Doctors, Nurses, Pharmacists, Community Health Workers, Govt Officials, WHO Officials	Expert/Non-expert messages: Messages developed by a creative agency, delivered either by a medical/health expert or layperson (non-expert)	
		Non-Experts: Family and Friends, Religious Leaders, Community Leaders, Celebrities	

Meet the **Enthusiastic Pragmatists** in Kenya (Teaser)

Segment 4 Overview

Summary	Convinced of COVID threat and merits of a vaccine, but inhibited by practical barriers. Cost-benefit analysis of the process could cause uptake delay.
% of Kenya population [multi-country %]	38% [19%]
Likelihood to take a COVID-19 vaccine	High
Speed of uptake	As soon as possible
Perceived ease of getting the vaccine	Not easy/not at all easy
COVID disease perceptions	High perceived risk and severity

Demographics

													
Gender	♂ 55% ♀ 45%												
Age	<table border="1"> <tr><td>18-24</td><td>9%</td><td>31%</td></tr> <tr><td>25-34</td><td></td><td></td></tr> <tr><td>35-44</td><td></td><td>35%</td></tr> <tr><td>45+</td><td></td><td>25%</td></tr> </table>	18-24	9%	31%	25-34			35-44		35%	45+		25%
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Employment Status	<table border="1"> <tr><td>Self-Employed</td><td>44%</td></tr> <tr><td>Full-Time</td><td>6%</td></tr> <tr><td>Part-Time</td><td>11%</td></tr> <tr><td>Unemployed</td><td>27%</td></tr> <tr><td>Other</td><td>12%</td></tr> </table>	Self-Employed	44%	Full-Time	6%	Part-Time	11%	Unemployed	27%	Other	12%		
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Other	12%												

Optimal Messages + Messengers (Global)

Information Channels (Top 3)	 Radio 93%	 TV 80%	 Social media 62%
WHAT to say to change attitudes and behavior	WHO should communicate	HOW the messages reach them	
			
Control messages: Messages that have already been circulated by the WHO/Health officials	Expert/Non-expert messages: Messages developed by a creative agency, delivered either by a medical/health expert or layperson (non-expert)		
Experts: Doctors, Nurses, Pharmacists, Community Health Workers, Govt Officials, WHO Officials	Non-Experts: Family and Friends, Religious Leaders, Community Leaders, Celebrities		





Meet the **Vaccine Ambivalents** in Kenya (Teaser)

Segment 5 Overview

Summary	Not convinced of the threat of COVID as a disease and lack motivation to seek a vaccine, but few barriers to uptake. Could be moved by social norms and strong messaging.
% of Kenya population [multi-country %]	15% [20%]
Likelihood to take a COVID-19 vaccine	Moderate
Speed of uptake	Wait at least 6-12 months
Perceived ease of getting the vaccine	Fairly easy
COVID disease perceptions	Low perceived risk and severity

Demographics


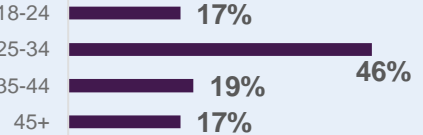


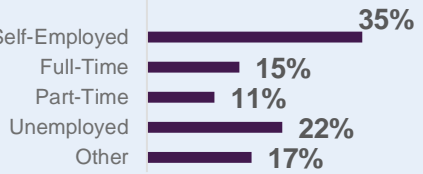
	 															
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Urban/ Peri-urban/ Rural	<table border="1"> <tr><td>Urban</td><td>41%</td><td>8%</td><td>51%</td></tr> <tr><td>Peri-urban</td><td></td><td></td><td></td></tr> <tr><td>Rural</td><td></td><td></td><td></td></tr> </table>	Urban	41%	8%	51%	Peri-urban				Rural						
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Self-Employed		36%														
Full-Time	6%															
Part-Time	10%	37%														
Unemployed																
Other	11%															

Optimal Messages + Messengers (Global)

Information Channels (Top 3)	 Radio 89%	 TV 81%	 Social media 58%
WHAT to say to change attitudes and behavior	WHO should communicate	HOW the messages reach them	
			
Control messages: Messages that have already been circulated by the WHO/Health officials	Expert/Non-expert messages: Messages developed by a creative agency, delivered either by a medical/health expert or layperson (non-expert)		
Experts: Doctors, Nurses, Pharmacists, Community Health Workers, Govt Officials, WHO Officials	Non-Experts: Family and Friends, Religious Leaders, Community Leaders, Celebrities		

Meet the Vaccine Skeptics in Kenya (Teaser)

Segment 2 Overview	
Summary	Convinced of COVID threat, but scepticism around vaccine safety and efficacy inhibits perceived benefit and quick uptake.
% of Kenya population [multi-country %]	12% [25%]
Likelihood to take a COVID-19 vaccine	Moderate
Speed of uptake	Wait at least 6-12 months
Perceived ease of getting the vaccine	Fairly easy
COVID disease perceptions	High perceived risk and severity


Demographics	
	
Gender	♂ 42% ♀ 58%
Age	
Urban/ Peri-urban/ Rural	 38% 10% 53%
Poverty Index	 20% 35% 44%
Employment Status	

Optimal Messages + Messengers (Global)			
Information Channels (Top 3)	 Radio 92%	 TV 86%	 Social media 71%
WHAT to say to change attitudes and behavior	WHO should communicate	HOW the messages reach them	
			
Control messages: Messages that have already been circulated by the WHO/Health officials Experts: Doctors, Nurses, Pharmacists, Community Health Workers, Govt Officials, WHO Officials	Expert/Non-expert messages: Messages developed by a creative agency, delivered either by a medical/health expert or layperson (non-expert) Non- Experts: Family and Friends, Religious Leaders, Community Leaders, Celebrities		



Meet the COVID Cynics in Kenya (Teaser)

Segment 3 Overview	
Summary	Strongly hesitant of COVID threat and a COVID vaccine. Mistrust in the vaccine's purpose and advocates means they will be slow to vaccine adoption, if at all.
% of Kenya population [multi-country %]	6% [12%]
Likelihood to take a COVID-19 vaccine	Very Low
Speed of uptake	Never
Perceived ease of getting the vaccine	Fairly easy
COVID disease perceptions	Low perceived risk and severity

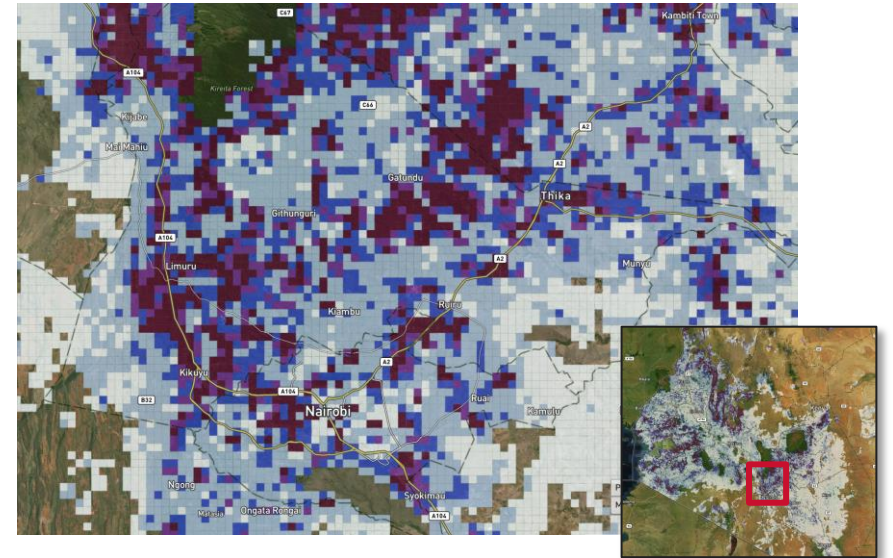
Demographics													
													
Gender	♂ 62% ♀ 38%												
Age	<table border="1"> <tr><td>18-24</td><td>20%</td><td>38%</td></tr> <tr><td>25-34</td><td></td><td></td></tr> <tr><td>35-44</td><td>27%</td><td></td></tr> <tr><td>45+</td><td>16%</td><td></td></tr> </table>	18-24	20%	38%	25-34			35-44	27%		45+	16%	
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Optimal Messages + Messengers (Global)			
Information Channels (Top 3)	 Radio 96%	 TV 78%	 Social media 69%
WHAT to say to change attitudes and behavior	WHO should communicate	HOW the messages reach them	
<p>Getting the vaccine is like getting a sturdy umbrella and overcoat during a rainstorm.</p> 			
Control messages: Messages that have already been circulated by the WHO/Health officials	Expert/Non-expert messages: Messages developed by a creative agency, delivered either by a medical/health expert or layperson (non-expert)		
Experts: Doctors, Nurses, Pharmacists, Community Health Workers, Govt Officials, WHO Officials	Non-Experts: Family and Friends, Religious Leaders, Community Leaders, Celebrities		

Zooming into your target geographies



Similarly to epi mapping used to identify health disease hotspots, **we have mapped vaccine attitudes + media consumption patterns to the county level...**



... to target creative campaign strategies that will resonate the most in prioritized geographies.

We used geospatial machine learning methods to create a local understand of vaccination uptake barriers

Factors we're mapping: "3C's", attitudinal/behavioral segments, media consumption patterns

Data

This report leverages the 2021 Fraym Kenya field survey (May 2021)

Health facilities in sub-Saharan Africa were sourced from the World Health Organization.¹

Walking and driving time to health facilities were sourced from the Malaria Atlas Project.²

Methods

Machine Learning for Hyperlocal Mapping: The localized maps seen in this report were produced using the proprietary software FUSEfraym™. This software uses artificial intelligence and machine learning (AI/ML) to weave together survey data with satellite imagery and geostatistical datasets.



Potential ways to use this analysis:

- Concentrate communication campaigns and media spending in specific geographic areas
- Target specific messages to niche audiences in prioritized geographies
- Optimize vaccine distribution
- Service & Product Delivery Planning

3 Levels of Views

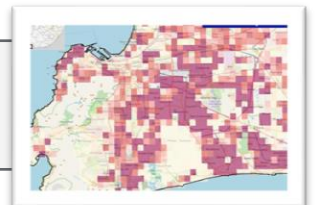
National

Patterns at the country level



Regional

Patterns at across counties



Local


Patterns at the Sq. Km



Ex. 1: Reaching ‘Vaccine Sceptics’ Near Nairobi

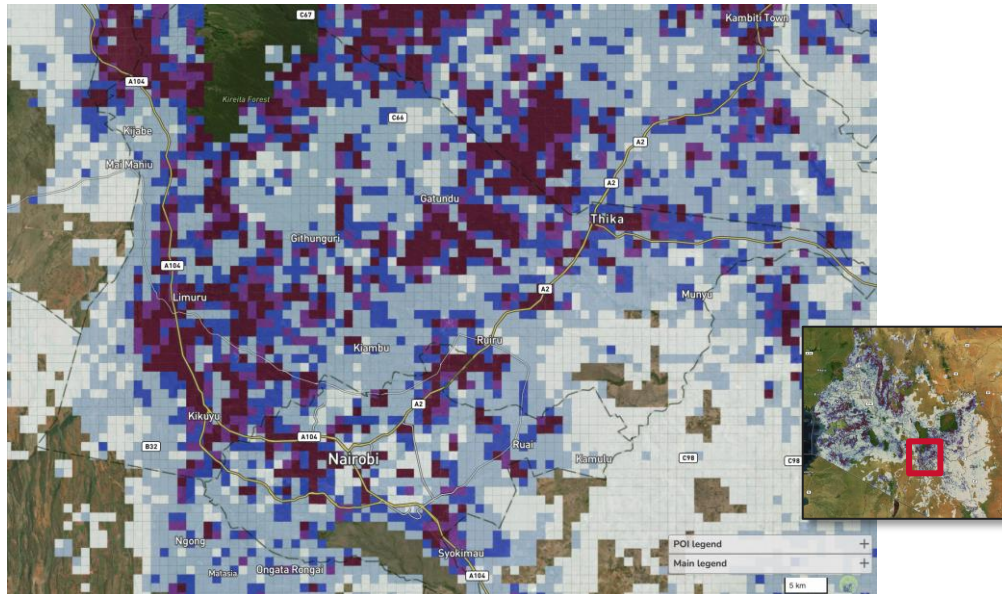
How do we reach those near Nairobi who are worried by Covid but have vaccine concerns?

WHO are we looking for?

Segment 2	
Vaccine sceptics	
	
Summary	Convinced of COVID threat, but scepticism around vaccine safety and efficacy inhibits perceived benefit and quick uptake.
% of population	25%
Likelihood to take a COVID-19 vaccine	Moderately low
Speed of uptake	Wait at least 6-12 months
Perceived ease of getting the vaccine	Fairly easy
COVID disease perceptions	High perceived risk and severity

WHERE do we find them?

People in the **vaccine skeptics** segment can be seen in greater numbers in the dark red squares on the map below, around the Nairobi area. They aren't focused in one place.



HOW do we reach them?

Media consumption patterns for Vaccine Sceptics around Nairobi can be seen in the chart below.

Given their heavy social media use, as well as their broad geographical distribution, a digital programmatic

RCCE campaign via WhatsApp and Facebook might be most effective to reach this group, using geolocations as target points.


Social Media		
Facebook Users %		53
Twitter Users %		20
Operanews Users %		20
WhatsApp Users %		61
TV News		
Al Jazeera %		10
BBC %		9
CGTN %		4
Citizen TV %		73
CNN %		10
Newspapers		
Business Daily Africa %		2
Daily Nation %		26
People Daily %		6

Putting it all together: In order to reach Vaccine Sceptics near Nairobi, leverage Facebook and WhatsApp platforms, targeting near the north and north-west part of the city.

Ex. 2: Finding ‘Enthusiastic Pragmatists’ Nationally

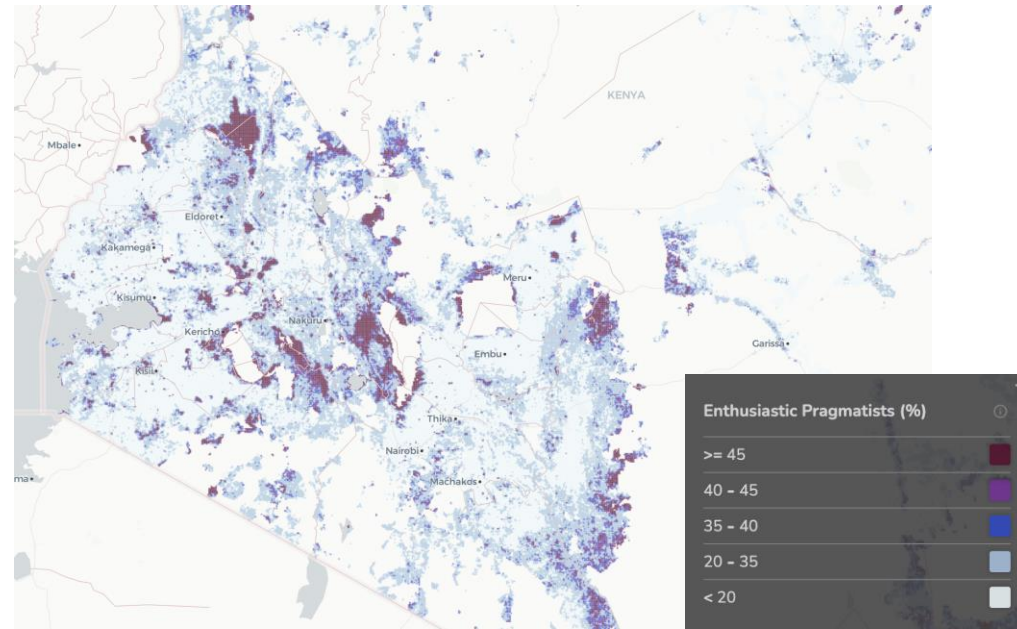
How do we reach those who *want* vaccines but don’t think they can get them?

WHO are we looking for?

Segment 3	
Enthusiastic pragmatists	
	
Summary	Convinced of COVID threat and merits of a vaccine, but inhibited by practical barriers. Cost-benefit analysis of the process could cause uptake delay.
% of population	19%
Likelihood to take a COVID-19 vaccine	High
Speed of uptake	As soon as possible
Perceived ease of getting the vaccine	Not easy/not at all easy
COVID disease perceptions	High perceived risk and severity

WHERE do we find them?

People in the **enthusiastic pragmatists** segment are disproportionately located around Nyandarua, Samburu, and Lamu.



HOW do we reach them?

There are more TV viewers – specifically of Citizen TV- in Nyandarua than any other single media channel. These viewers primarily speak Swahili.

Social Media

Facebook Users %	50
Twitter Users %	16
Operanews Users %	19
WhatsApp Users %	55

TV News

Al Jazeera %	6
CGTN %	3
Citizen TV %	72

Language

English %	0
Somali %	0
Swahili %	31

Putting it all together: In order to reach Enthusiastic Pragmatists in Kenya, try reaching people watching Citizen TV in Nyandarua country first.

Ex. 3: Understanding Complacency near Mombasa

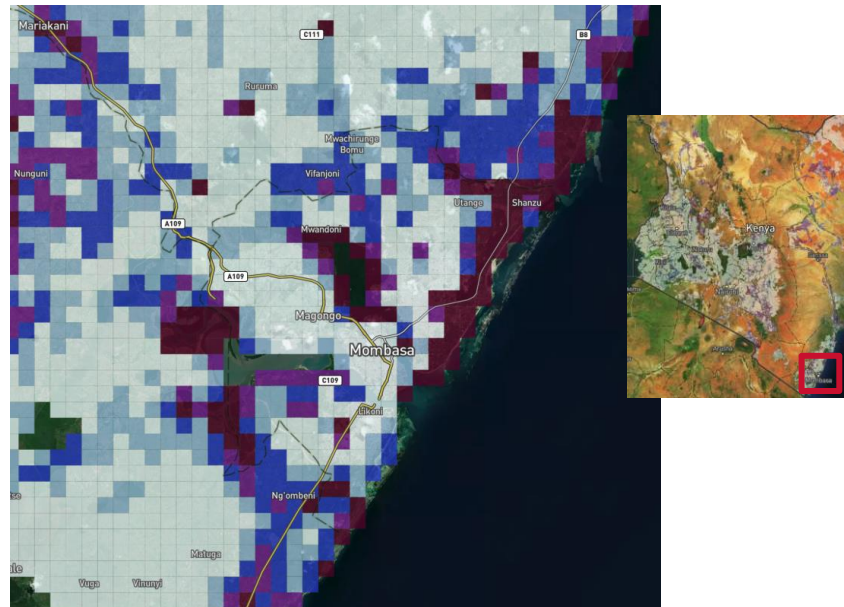
How do we reach those who *might* take a vaccine but don't see a risk in Covid, in Mombasa?

WHO are we looking for?

Segment 5	
Vaccine ambivalents	
	
Summary	Not convinced of the threat of COVID as a disease and lack motivation to seek a vaccine, but few barriers to uptake. Could be moved by social norms and strong messaging.
% of population	20%
Likelihood to take a COVID-19 vaccine	Moderate
Speed of uptake	Wait at least 6-12 months
Perceived ease of getting the vaccine	Fairly easy
COVID disease perceptions	Low perceived risk and severity

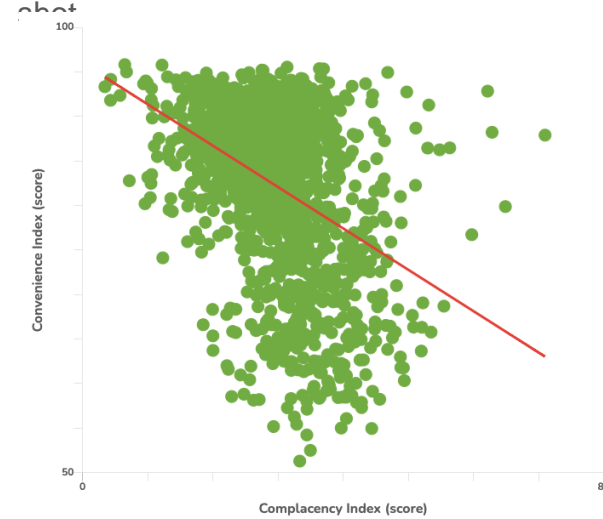
WHERE do we find them?

People in central Mombasa tend to be less complacent, whereas those in the suburbs – particularly to the south-east and east, tend to be more complacent.



HOW do we reach them?

Pop-up vaccination sites in the north part of Mombasa could be used to reach those in complacency 'hot spots' where the residents tend to be less motivated to travel for a shot



We also know that those who are more complacent in this neighborhood tend to have more convenience-related challenges, so pop-up clinics would serve them well.

Putting it all together: In order to reach complacent people near Mombasa, try in-person outreach in the Shanzu ward.

What's Next: Message Testing

Rigorous research to study which message (narrative language), messenger, gender of messenger, and media channel motivate each segment the most to vaccinate against COVID-19

- More than 2500 participants across three countries
- 60 messages were developed by Creative Agencies in Kenya, Nigeria, and Zambia that specifically addressed vaccine barriers

Messages shown to study participants

Expert messages:

Delivered by a medical/health expert, including a mix of messages developed by a creative agency and existing WHO/ public health messages

- Doctors
- Pharmacists
- Nurses
- Community Health Workers
- WHO Officials
- Government Officials

Non-expert messages:

Delivered by a lay-person, developed by a creative agency

- Family/Friend
- Religious Leader
- Community Leader
- Music or Sports Celebrity

Intent: Increase motivation to vaccinate against COVID-19

Our data show the most favorable combination of **what to say (message), **who** should say it (messenger), and **how** it should be sent (media / channel)**

How might this work complement your efforts?

Would you be interested in diving deeper
into these insights?

Let's discuss!