# User Experience beyond digital tools

A case on Service Design for healthcare

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## Designing for the other 98%

M4ID

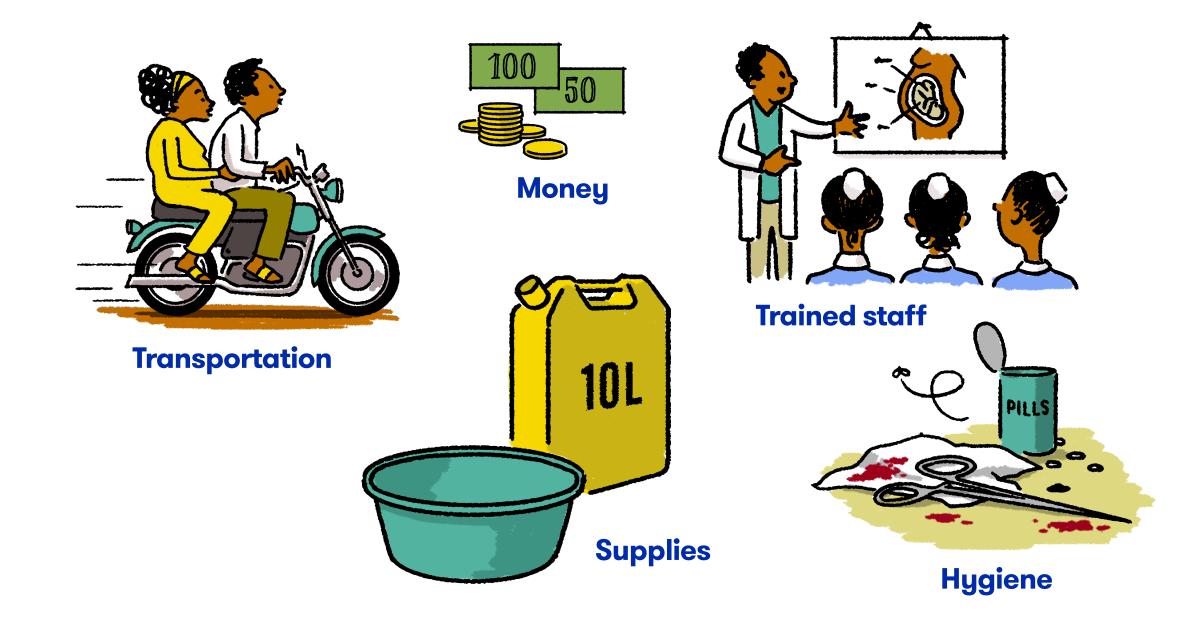
A HUMAN CENTRED DESIGN APPROACH
TO INNOVATIONS IN MATERNAL AND
NEW BORN CHILD HEALTH

Every day more than 800 women and 2700 babies die during birth



## 99% of these deaths happen in low resource settings

## 98% of these deaths are preventable





Traditional myths and beliefs



**Fear of stigmatization** 



Disrespect & abuse



Lack of male involvement

## Why Service Design?

### **Human Centered Design**



















## Why HCD?

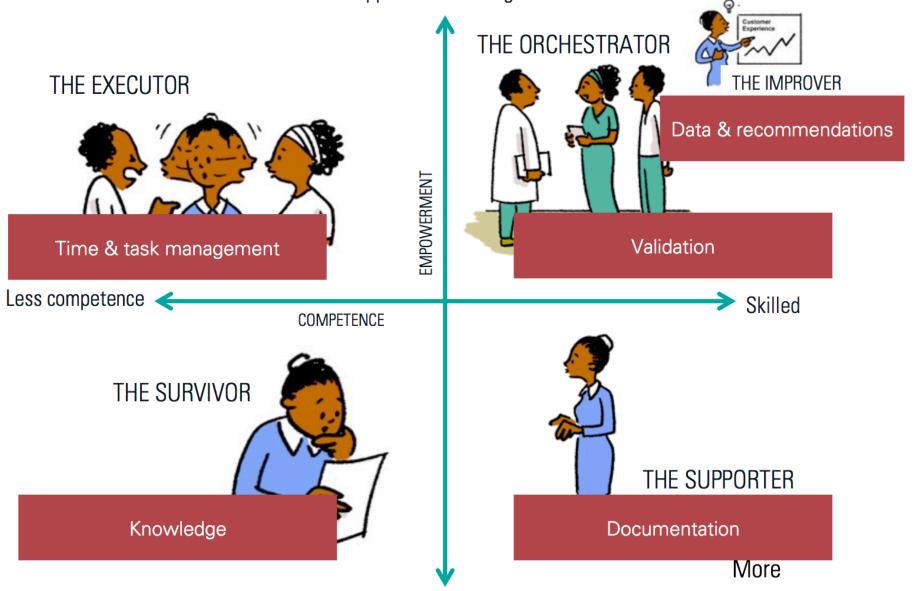
## Services are co-created situations

ANC has no narrative	Insight	Education of C-Section during pregnancy	Midwife
ANC has no narrative	Insight	ANC is about answering not asking questions.	
ANC h s no narrative	I sight	vomen anwser very short with a yes or a no	Men
ANC has no arrative	Insight	before	Men
ANC has no narrative	Insight	No conection of pregnancy test with ANC	Men
ANC has no narrative	Insight	For the 1st baby, a woman came as soon as she knew she was pregant. With 2nd she at 3 months. She said, they can't know about baby yet. Only after 5 months.	
	Insight	Power of family: ANC was overall total dissapointment but she still went 8 times because her	
ANC has no narrative	_	mom and husband asked to	Woman
	Insight	Empowered women feel that ANC is a process designed for health system's needs. Not for	
ANC has no narrative		their needs.	Woman
ANC has no narrative	Insight	Primary health centers should do better work with early recognition of risk cases and book them in advance for referal hospitals. Now many delayed cases are unbooked high risk women (previous complications, scars, etc.)	Man
	Quote	"I didn't know you were suppose to come when you are pregnant"	
	_	,	
ANC has no narrative	Quote	making	
ANC has no narrative	Quote	"I don't know how many times I need to come to ANC"	
ANC has no narrative	Quote	learn more.	Doctor
ANC has no narrative	Quote	"In ANC they repeat the same information over and over again"	Doctor
ANC has no narrative	Quote	very small here. We loose some of them (women)	Woman
ANC has no narrative	Quote	midwifes answer that she doesn't know)	Woman
ANC has no narrative	Quote	the subject)	Man
ANC has no narrative	Quote	I don't want to risk my life (a reason to give birth in a PHC)	Man
ANC has no narrative	Opportunity	ANC objective is comunicating the potential risks and comunicating potential costs.	In-law, woma
		Preparing to leave: definining post-partum as an opportunity to educate and create a	
	Opportunity	• '	In-law, woma
ANC has no narrative	Opportunity	Add pregnancy test to ANC procedure to make women come earlier to ANC.	Husband
		Increase the knowledge of the decreased mortality dates and reasons behind it due to	
		facility based care: Influence the older women (in-laws) about the the benefits of	
		frequent care (ANC) and facility based birth. Change their image, that formerly women	nl .

### Empowered, User Profiles support from colleagues THE ORCHESTRATOR THE EXECUTOR THE IMPROVER **EMPOWERMENT** Less competence -Skilled COMPETENCE THE SURVIVOR THE SUPPORTER Lack of empowerment

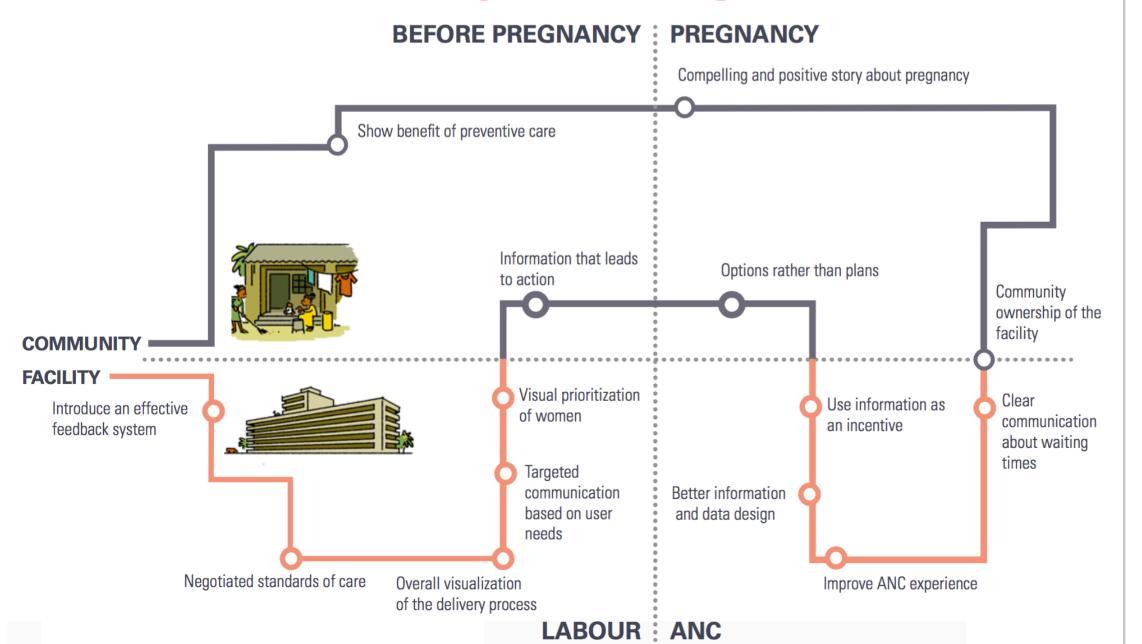
### TOP FEATURES

Empowered, support from colleagues



Lack of empowerment

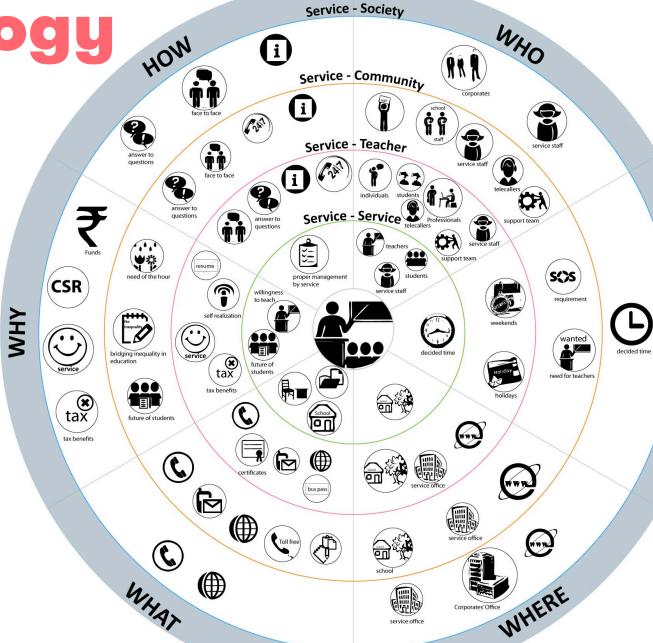
### A service is a journey



## Service Blueprint

Check-in for a reg									
ocation	arrival								
voman's ourney	the woman arrives	the woman place the finger in the reader	the woman is welcomed, sees her profile and continues with the check-in	answer the four urgency assessment questions					
INE OF INTERACTION									
	show how to scan the finger + offer the possibility to look up by name, DOB, MRN	scaning	show welcome message, profile and continue + possibility to edit the profile (some of the content)	shows the four urgency assessment questions	if all questions are negative: show, the current time (arrival time), provide astimated waiting time and what's next	done			
nidwife's nteraction on tage			checks how complete is the profile						
INE OF VISIBIL	ITY								
nidwife's nteraction ackstage	sets up the arrival								
	login/switches user - starts arrival (?)				possibility to edit client profile				
Deliver UI at all me	call for help/emergency - switch user - overview of the facility (access to waiting list) - settings: notifications on/off (select which ones, clinical deciso								
INE OF INTERN	NAL INTERACTIO	NS							
otifications					notify waiting time after XXmin "Maria has been waiting XXmin"	notify on other tablets that a client just arrived			
neassurabe ndicators	record the midwife at arrival			record risk type	record time of arrival				





### ANALYSIS PROCESS

The analysis process has followed a process with different activities:

1 2 3









## Transcript and notes analysis

Analysis of individual notes through discussion and workshops. Transcript review to gather quotes, insights and opportunities.

**Insight Analysis** 

Mapping of insights, quotes, themes and opportunities in workshops. Trying of different approaches to filter content, e.g. Insights by step in the journey, type of behavior, stakeholder,

### Cluster insights and identify themes

Cluster insights to identify key areas that will be translated in themes. Ideation of themes to convey key message within each theme.

#### Define opportunities

Mapping of opportunities to address the themes.
Build a strategy to build Key Change Indicators and cluster opportunities based on these.

## PREGNANCY & DELIVERY LACK A NARRATIVE

Purely clinical process

Weak macro view of the pregnancy
No compelling story around pregnancy
Weak practice of explanations
Fragile link to cultural references

"I attend ANC but I never go before the 7th month. Once I went early and later my baby died, so going early is not good."

Mother

"I don't see the point of going if I feel normal. Doctor only touches me and examinations are painful."

Mother

"I was feeling fine and I knew what drugs to take, so I only went to ANC for the first time at the 7th month to get my antenatal card."

Expectant Mother

#### PREGNANCY & DELIVERY HAS NO NARRATIVE

#### **KEY OPPORTUNITIES**



#### **BUILD A COMPELLING AND POSITIVE STORY**

Connect ANC, labour and delivery and PNC to a holistic service experience. Give a clear purpose and motive for each visit and explain the steps involved in the process.



#### **IMPROVE ANC SERVICE AND PROCESS**

Introduce a more structured and efficient process for ANC to support high volume and better understanding need for individual needs (peer to peer, groups, task sharing).



#### **USE INFORMATION AS AN INCENTIVE**

Create **curiosity** and a positive perspective of pregnancy (visualizing the development of baby) to foster engagement of women their own pregancy and labour.

#### INSPIRATION FOR DESIGN

- Create roles for men and women to better share responsibilities.
- Use stories to give explanations and discussion topics to demystify pregnancy for men.
- Use cultural perceptions of delivery to motivate women to attend (ANC makes you stronger)
- Strengthen factual knowledge to uncover harmful traditions and believes.
- Utilise the need for pregnancy confirmation as the first step in ANC.
- Different ANC experience for first timers and multigravidas.
- Women as storytellers
- Visualize and explain the journey through labour in the facility and explain locations, staff and processes.



## **Design Drivers**

## Service Experience

WELCOME & ASSESS

**Arrival** 

- Feel accepted and expected
- Quick link to emergency care

CLARITY & PREFRENCE

**Admission** 

- Understand the condition and redirect
- Prioritization

PROGRESS AND ALERT

Labour

- Be active and feel relaxed
- Alert ICE
- Be prepared for delivery

ACTION & BONDING

**Delivery** 

- Empowered to be active
- Knowing that procedures are followed

REST &

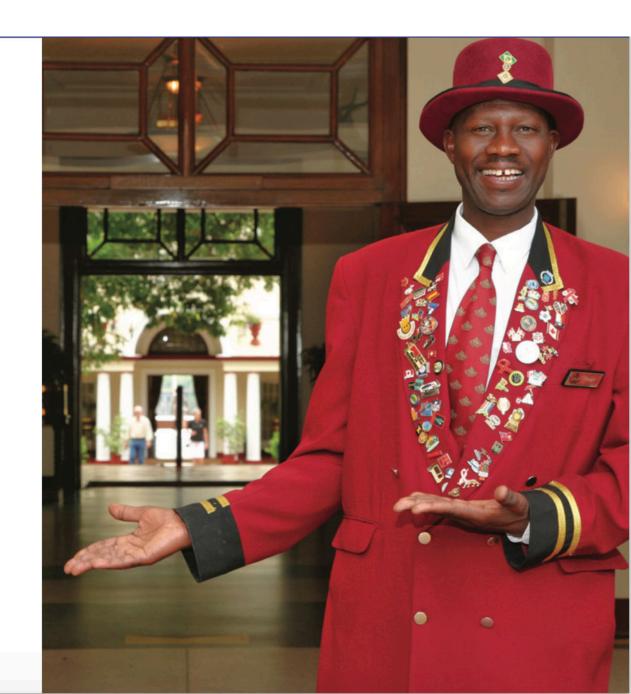
Postpartum & Discharge

- Relax but follow on bleeding
- Breastfeeding
- Birth registration
- Appreciation



## Arrival The power of welcome

- Make the couple feel accepted and expected
- Give them the feeling that this is a place for them
- Use physical objects to give them the feeling of belonging, service and entitlements
- Provide an overview
- Support a quick assessment to understand urgency

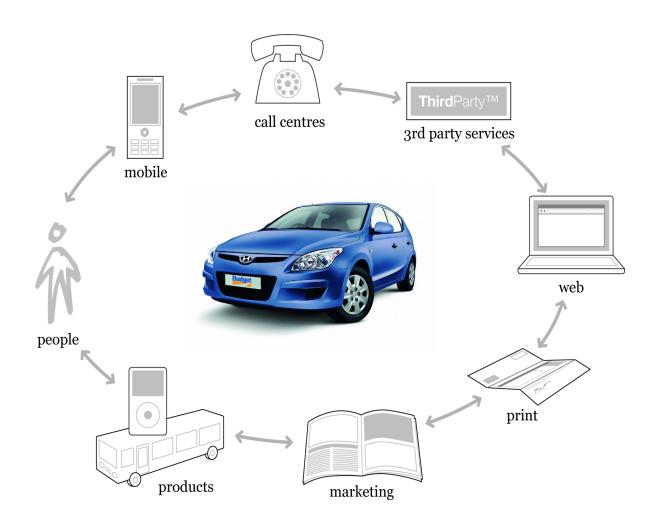






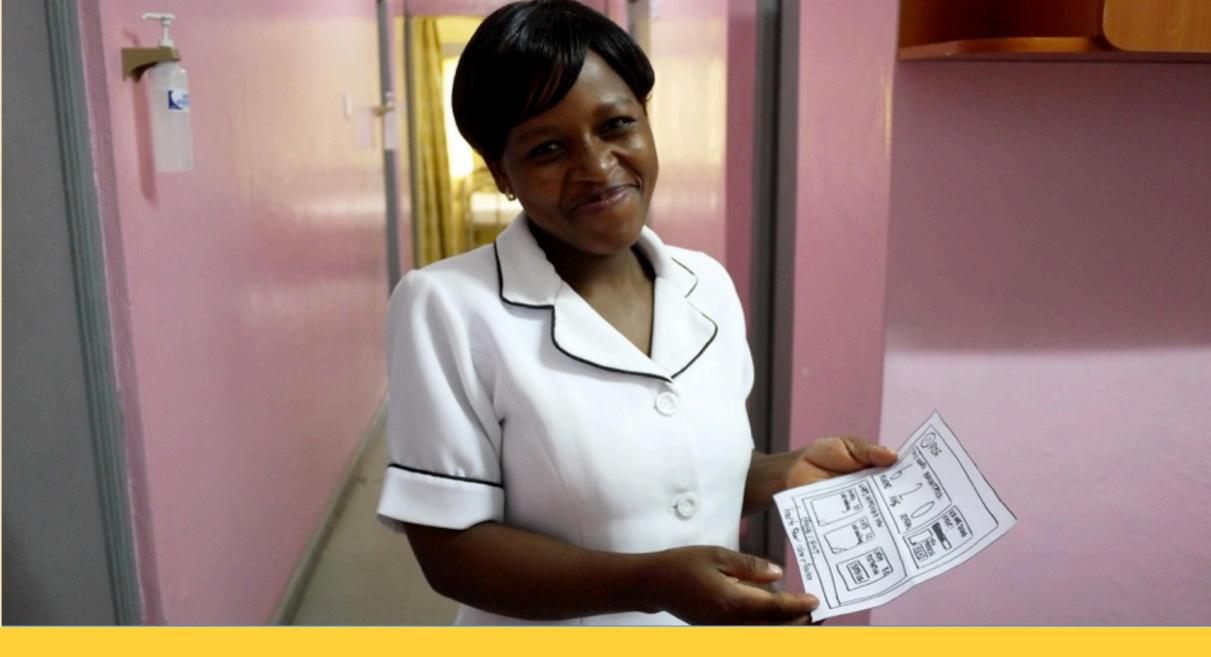
## Design makes a service tangible

### **Service Touchpoints**



**Everything is a service** 





Digital tools to support midwives in intrapartum care



## Design Driver 1

At the heart of the Service Ecosystem





























- Clients
- Staff
- Arrival
- Admission:
- Labour
- Delivery
- Post-Partum
- Referral

Manage staff

Inventory

Settings

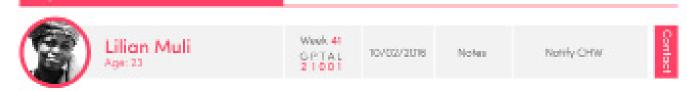
Search for clients or add a new.





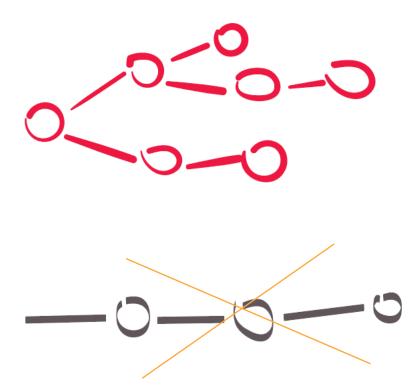
Waiting		PRESENTA EX	RRESERVING COMPLANTS	POTDITIAL COMPLICATION	WINE	ACRETY LEVEL	
	Edda Gachukia Age: 27   Birth C.: Nick Mwasiki	Week 32 GPTAL 20010	Contractions	•	00:18	L4 comin	Next
2	Caroline Mutoko Age: 20   Birth C: Kwame Bonsu	Week 30 GPTAL 10000	Contractions Water broken Headache	•	00:15	L3 aomin	Next
	Moipei Quartet Age: 25   Beth C.: Lwarda Jawar	Week 39 GPTAL 31102	Contractions	R	00:05	L4 60min	Next

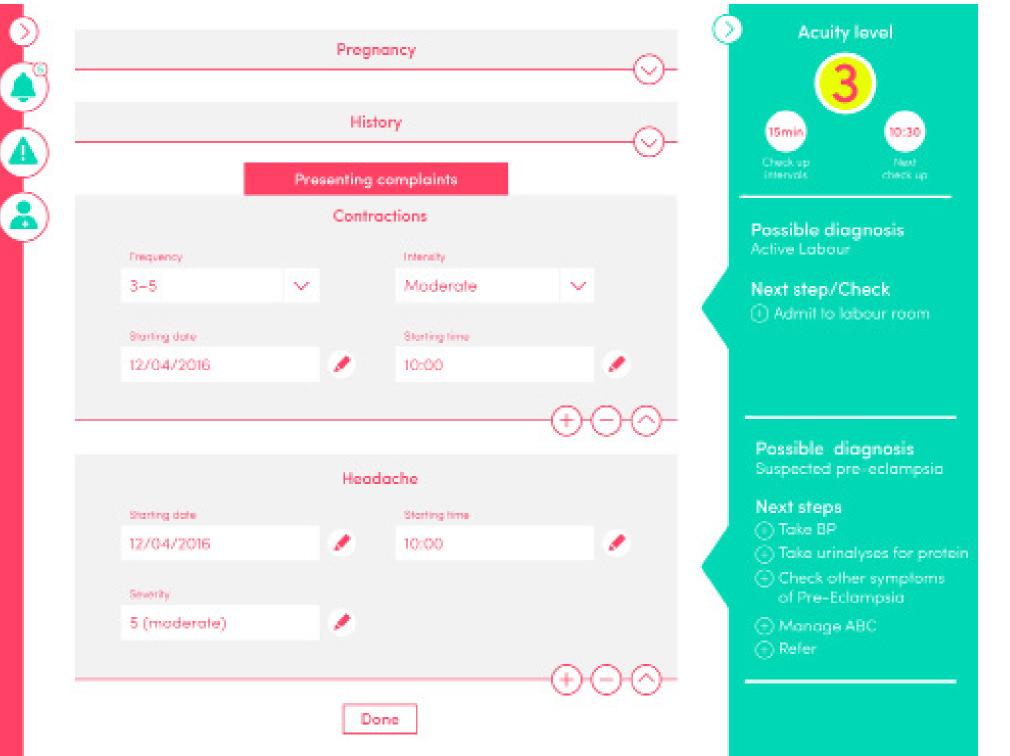




## Design Driver 2

The UX supports intuitive workflow





## Design Driver 3

It's the midwives choice













Susana

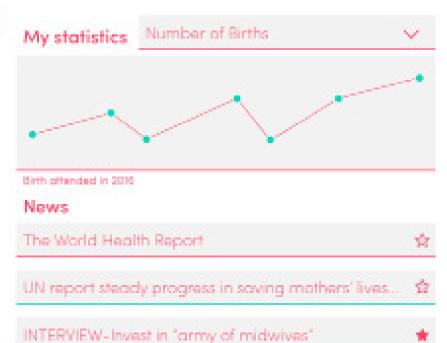
46567726

Yes #

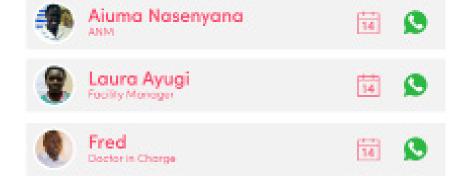
Midwife

5 Years of service

Log out







#### **Facility Reports**

May 2016 - Monthly birth report

May 2016 - Referrals

#### Team chat

Dr. Fred, I just received Caroline. This is her profile. Please take a look.

Science IS-Of



The tool recommends to refer. Should 1?

Name of Street

Hello Susana, Are the headaches chronic or occurred suddenly?

Ot Fled ISSS

Reply





## #BirthInProgress



## Thank you

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