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Diving through swirls: Experiences with establishing electronic data systems for maternal and child health in Sub-Saharan Africa

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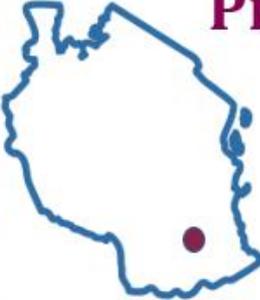
Karolinska Institutet, Sw & London School of Hygiene & Tropical Medicine,
UK

What I am presenting

- 2 projects
- Some issues
- Some swirls



The ONGEZA Project



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IFAKARA HEALTH INSTITUTE



Shifo



ALERT



European Commission's Horizon 2020 (No 847824) under a call for Implementation research for maternal and child health.



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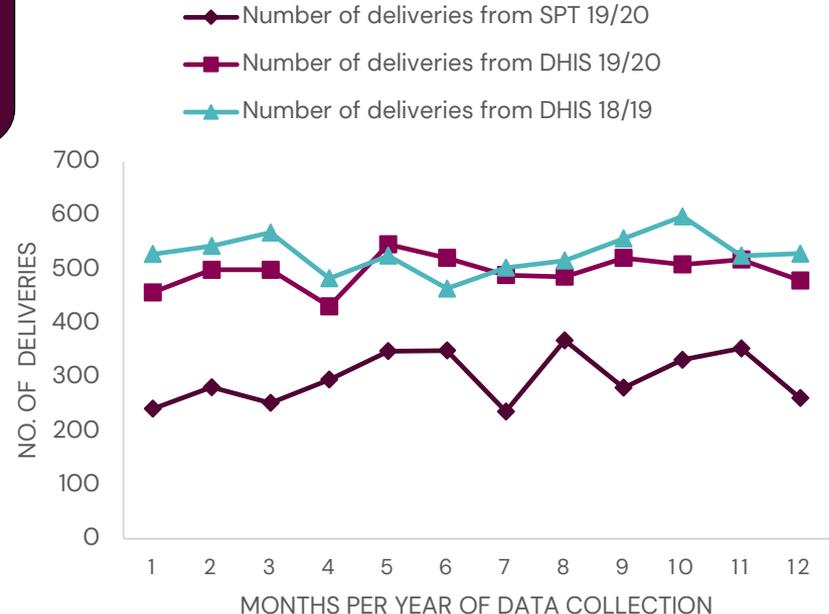


ONGEZA: What are our findings?

You know, with SPT you just tick. There is no need to write much. You can spend time with your client while ticking the form (FGD3post-intervention)

- Well-appreciated
- Improves accountability
- No additional time burden

- BUT: the Pilot Project could not show good data quality



A perinatal e-registry implemented in 16 hospitals in 4 countries



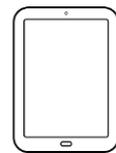
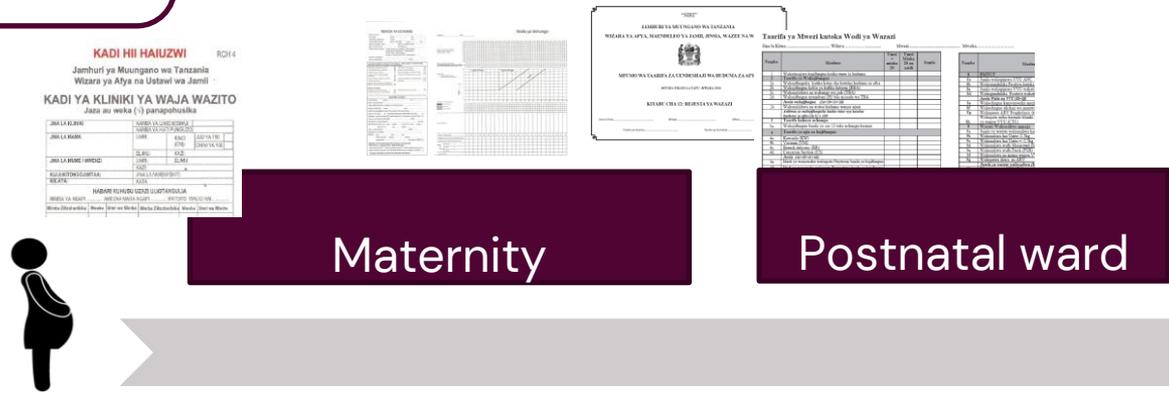
Mother-held ANC card

Labour ward documentation

Postnatal ward documentation



Data clerk or health provider compiles and enters into a tablet-based application

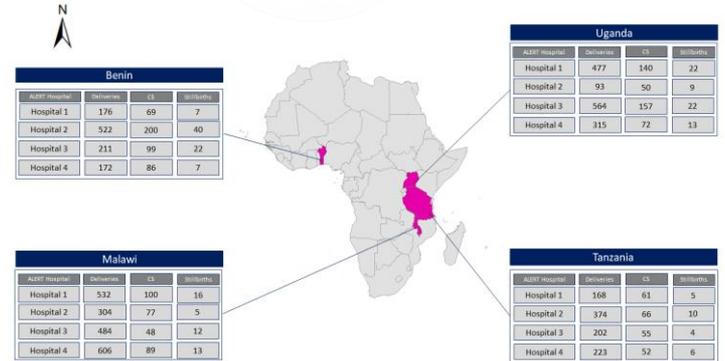


4 countries PLUS GDPR

– 6 ethics application, 4 x yearly renewal



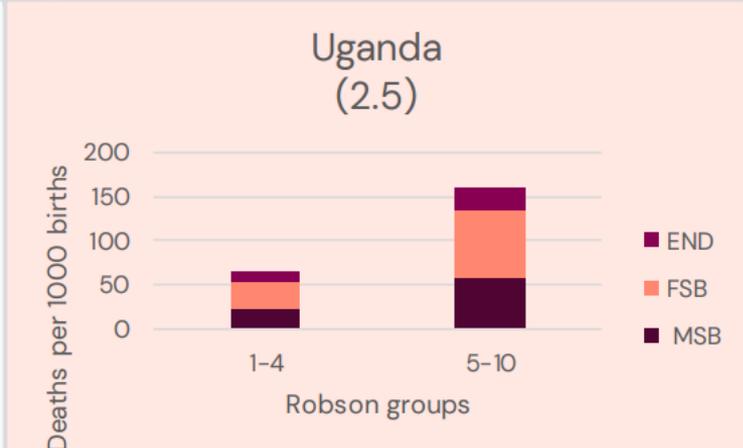
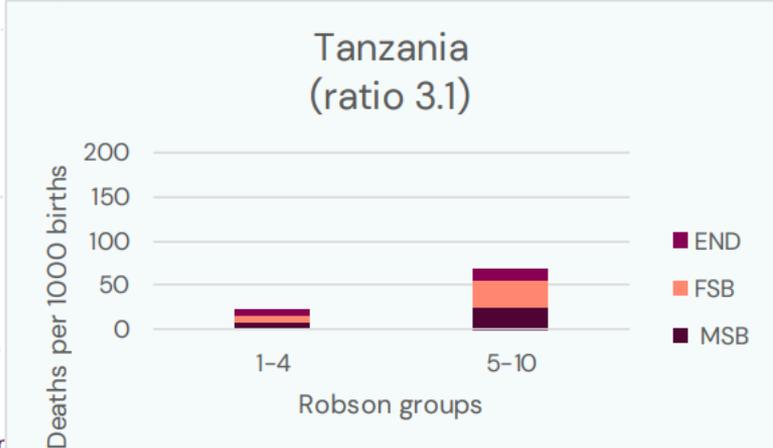
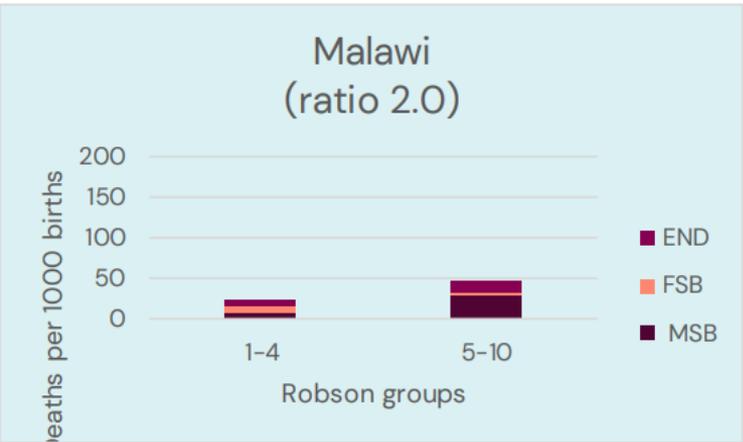
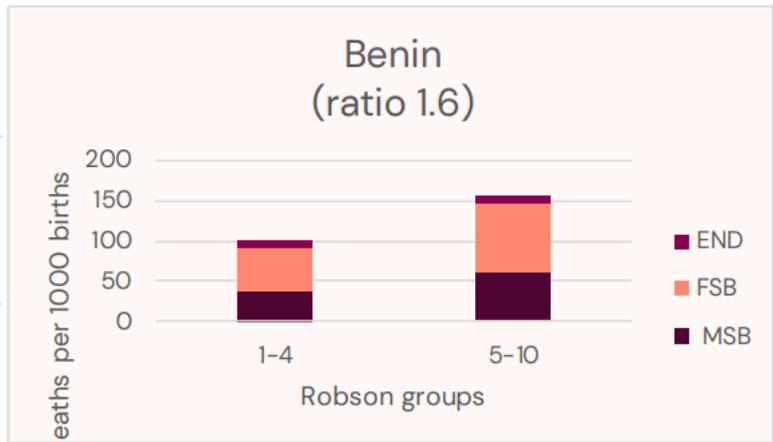
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– EC demands data management according to GDPR

- <|> data ownership (safety)
- <|> data use

Perinatal mortality across countries



Problems with data..

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45. Status of baby 1 at day of discharge or referral or day 7	outcome					.	Total
	maz still	fresh sti	1dayNN	alive at			
1. Alive	2	3	31	16,305	1	16,342	
2. Alive and referred	0	1	0	36	0	37	
3. Died within 24 h	169	273	74	48	2	566	
4. Died after 24 h	10	3	9	36	0	58	
5. Unknown	101	68	41	367	6	583	
.	5	9	8	8	115	145	
Total	287	357	163	16,800	124	17,731	

What does it take



The basis

- Partners
- Research team
- Stakeholder management
- Agreements



The innovation

- The right innovation at the right place and the right time

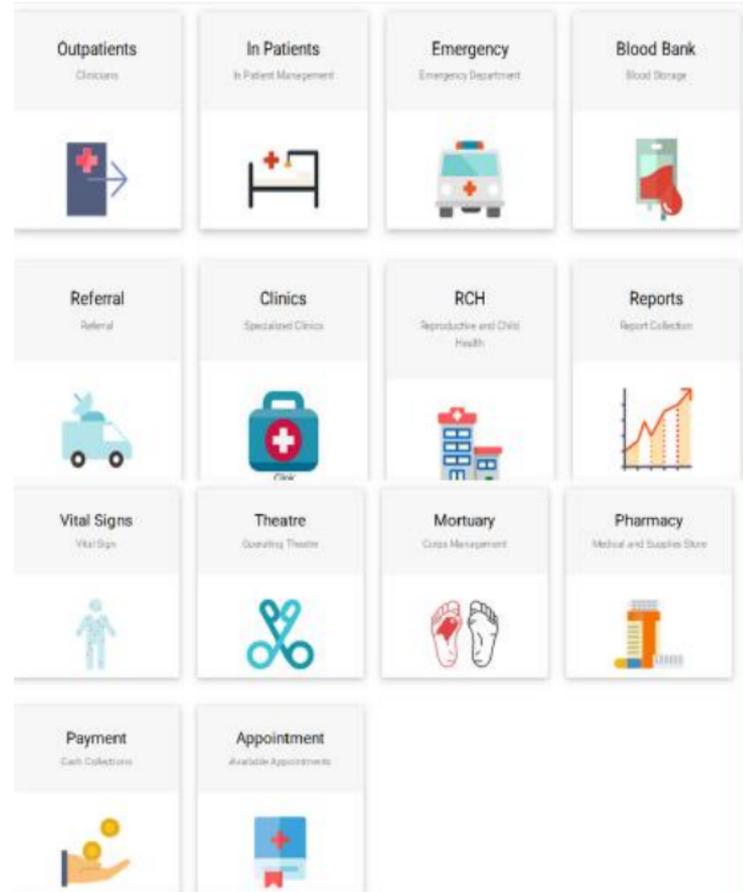


The Implementation

- Skills/competences & attitude of primary users
- Data literacy
- Funding to work with barriers

■ The system incorporates various core functionalities/modules to serve the purpose:-

- Electronic Medical Record (EMR),
- Laboratory Information System
- Tracking and Inventory of Medical Supplies
- Billing and Revenue Collection
- Practitioner Performance Tracking
- Reporting (MTUHA Forms)



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The swirls

- Stakeholder management – Northern Research institutions are detached from policy discussions
- Legal issues / GDPR **vs** decolonialization
- Data ownership & protectionism **vs** fruitful use of data
- Clinical training / carefulness in documentation
 - Pragmatism vs high quality
- Capacity to analyse / data use **vs** budget and capacity within teams





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