

mHealth + eHealth = meHealth

Supporting person-centric care in low and middle income countries (LMIC) using an open source health information exchange: **OpenHIE**

Co-presenters:

Derek Ritz & Justin Fyfe ecGroup Inc.

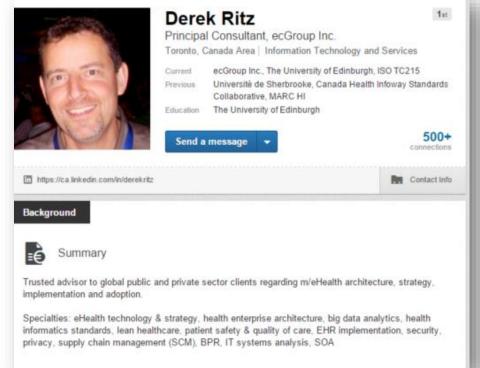


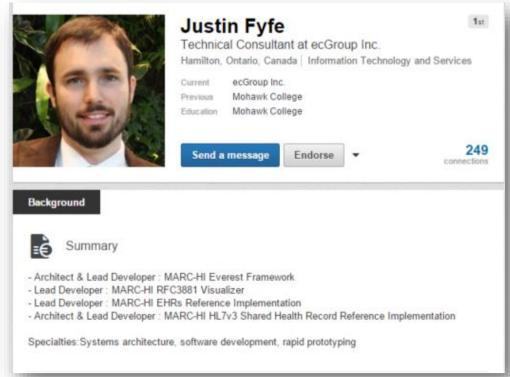
- □ Introductions
- ☐ The arc of the OpenHIE story
- ☐ An implementation example: the TZ "BID" project
- What's next for OpenHIE?



Your co-presenters





























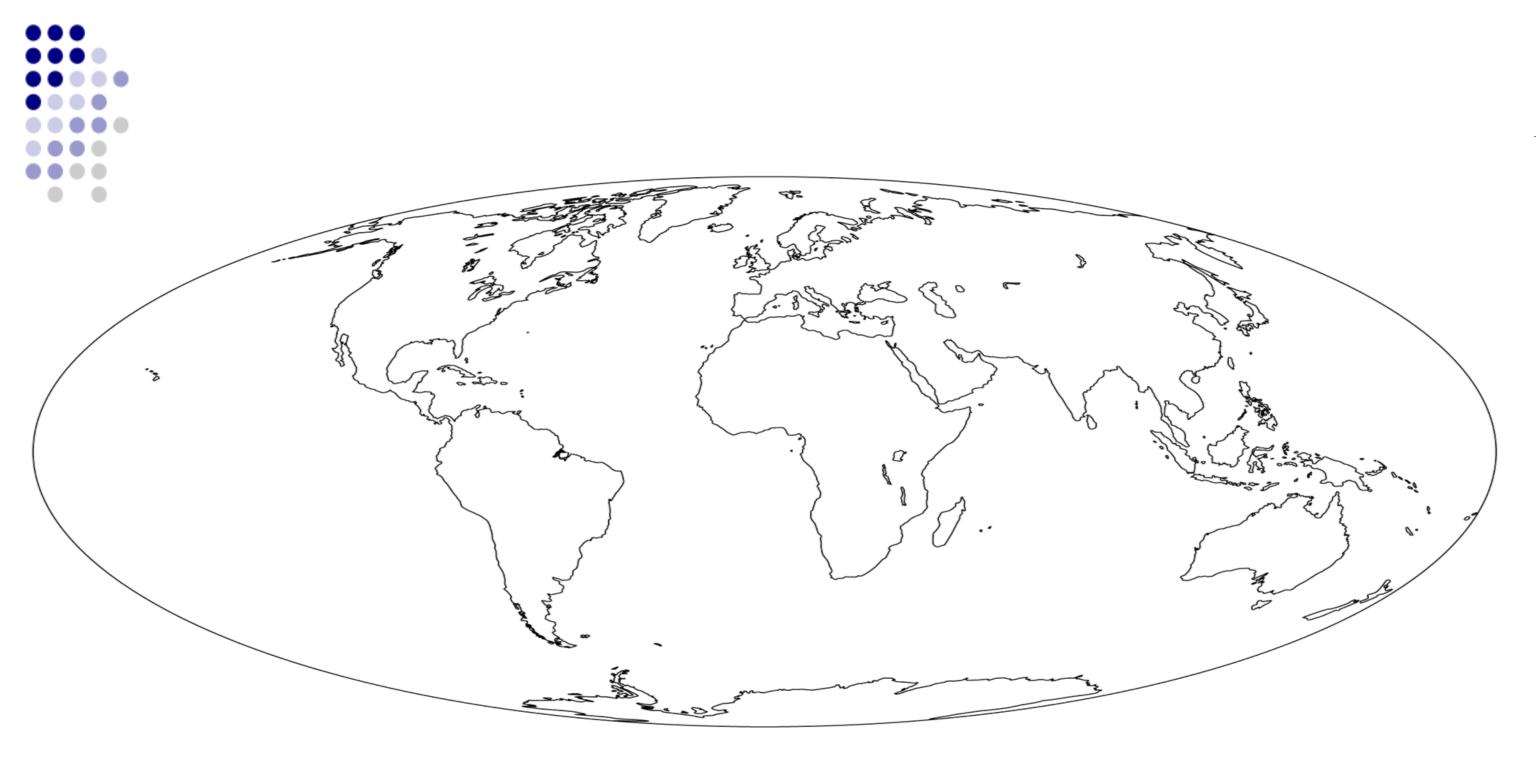


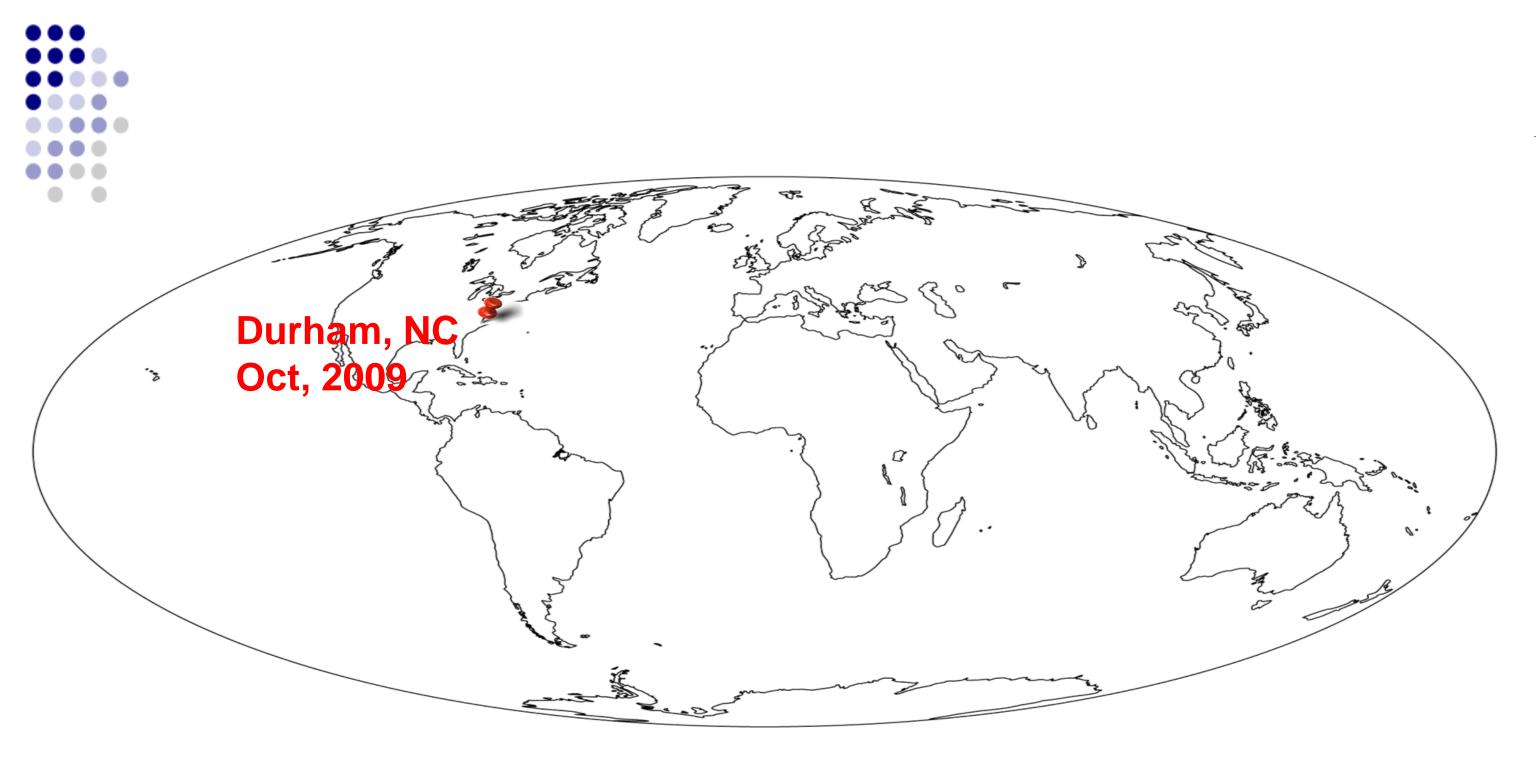


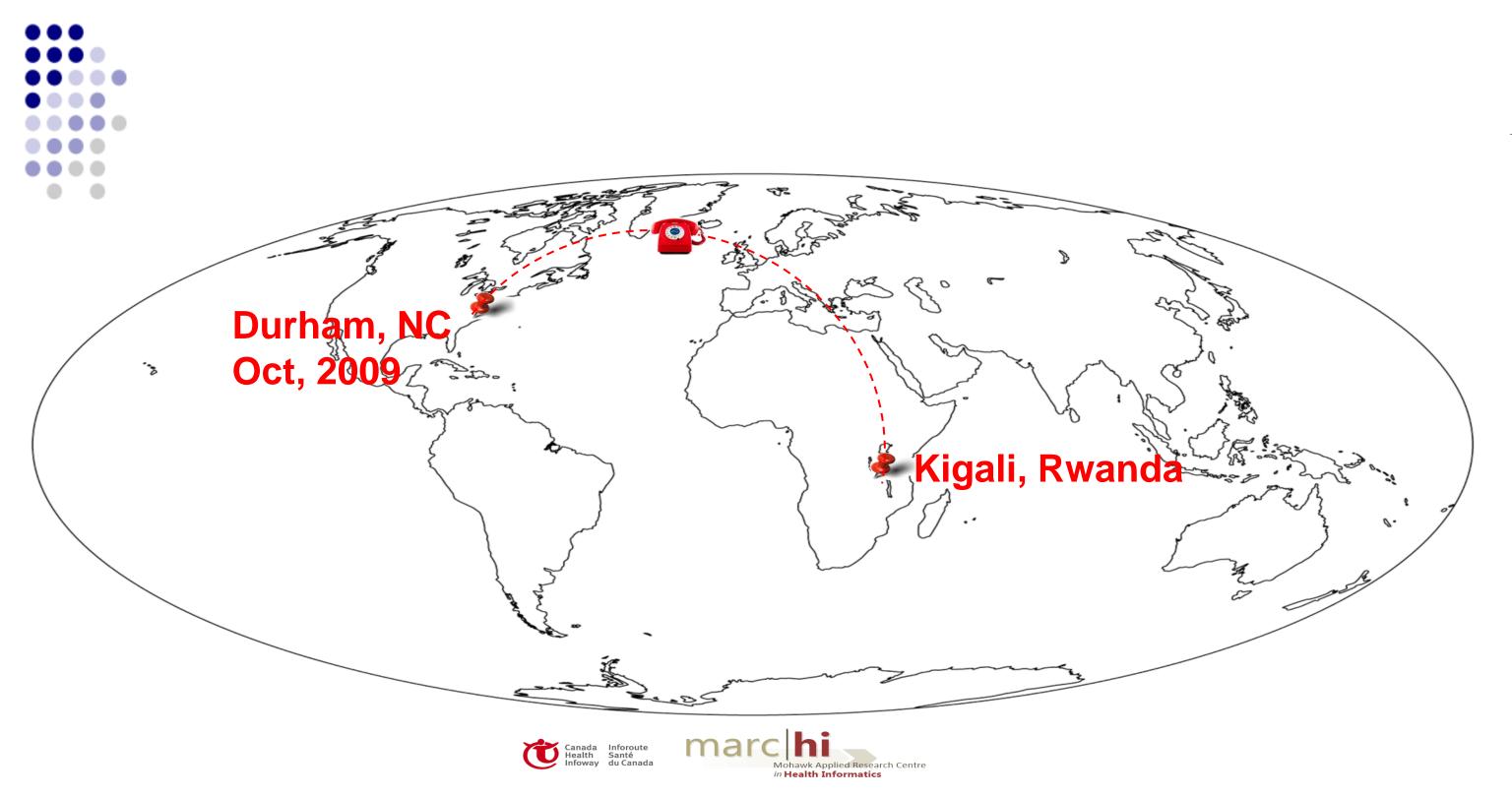


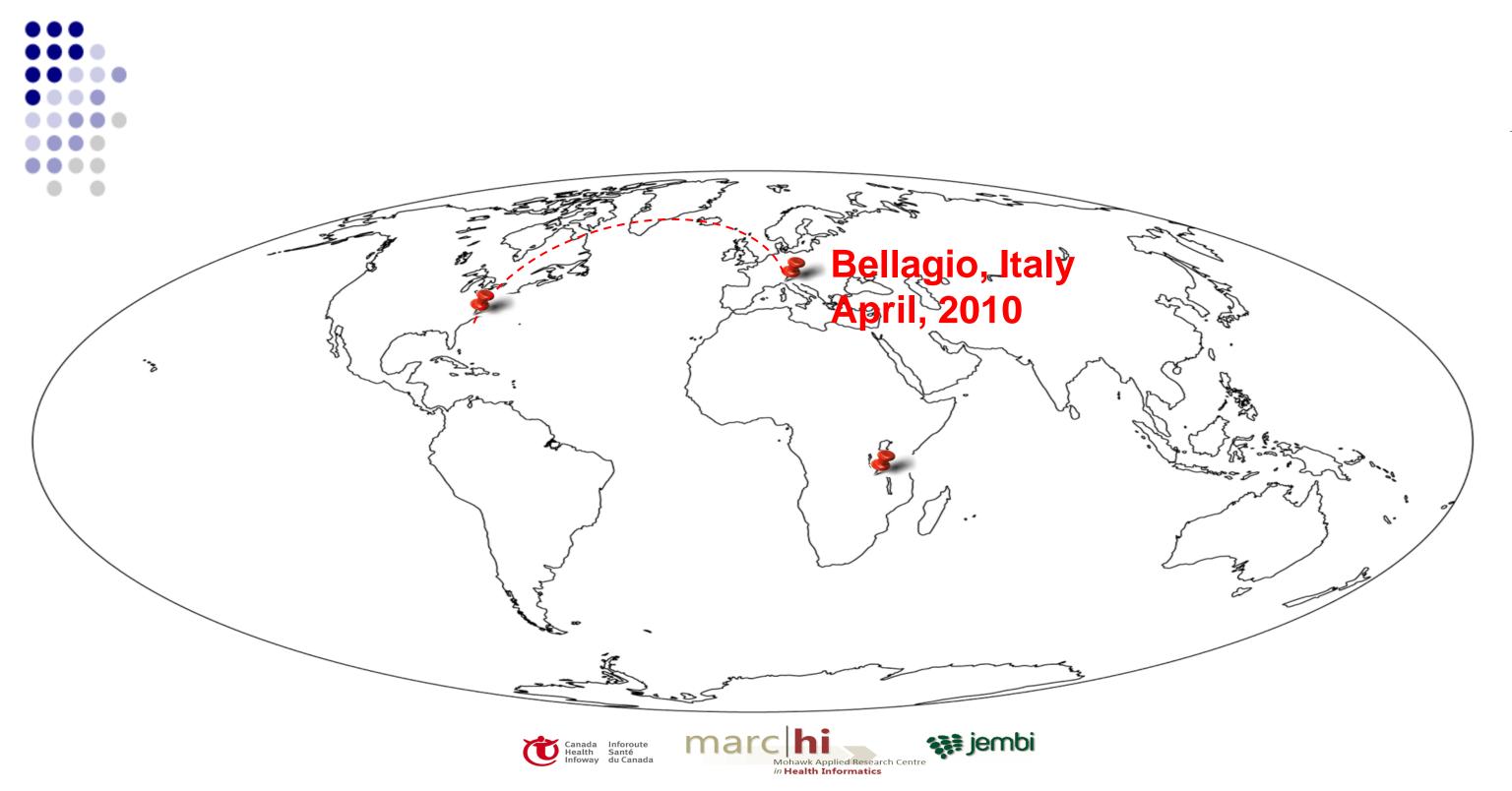
eHealth 2015, Toronto

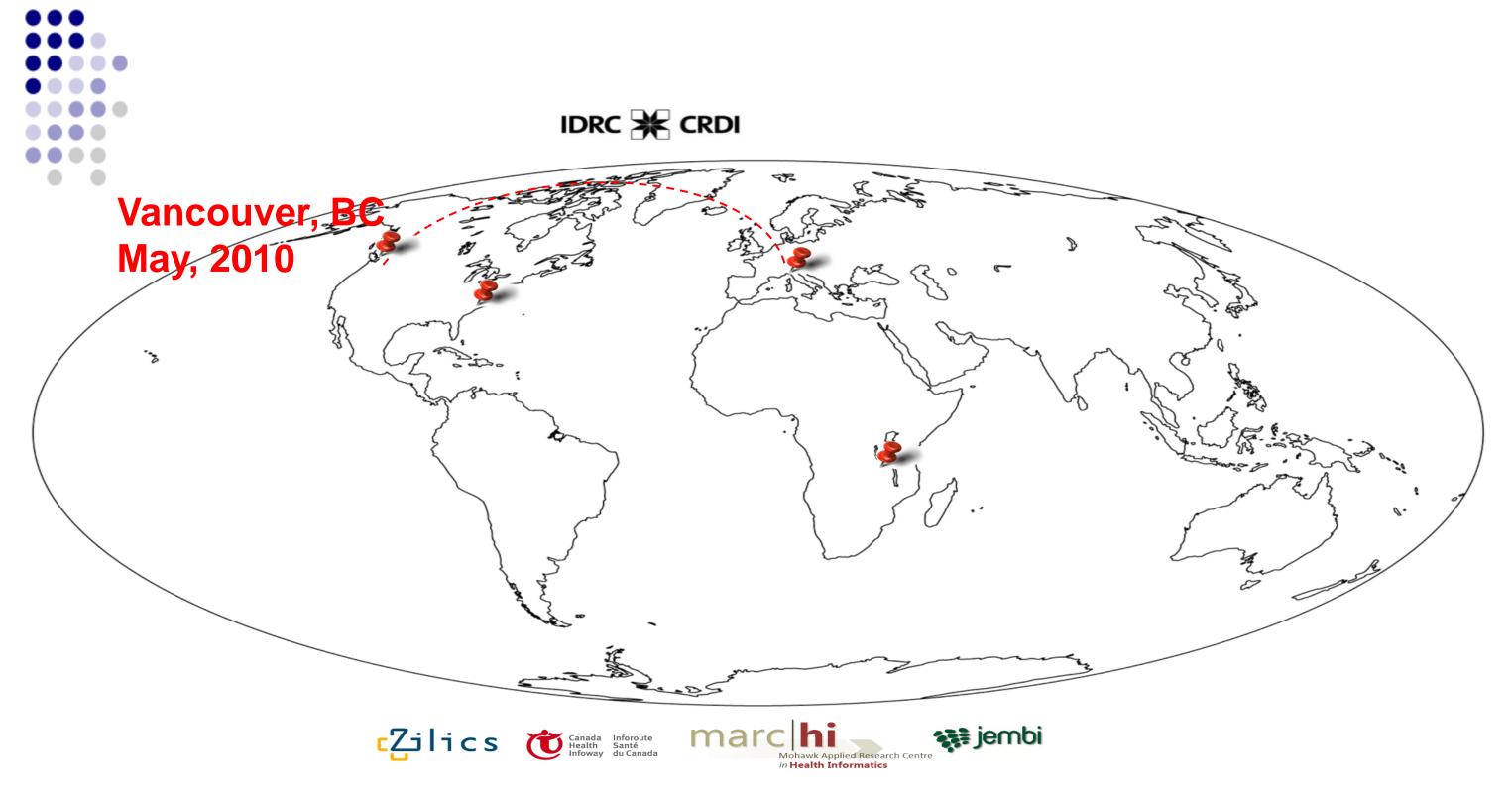
This story is about Mosa...

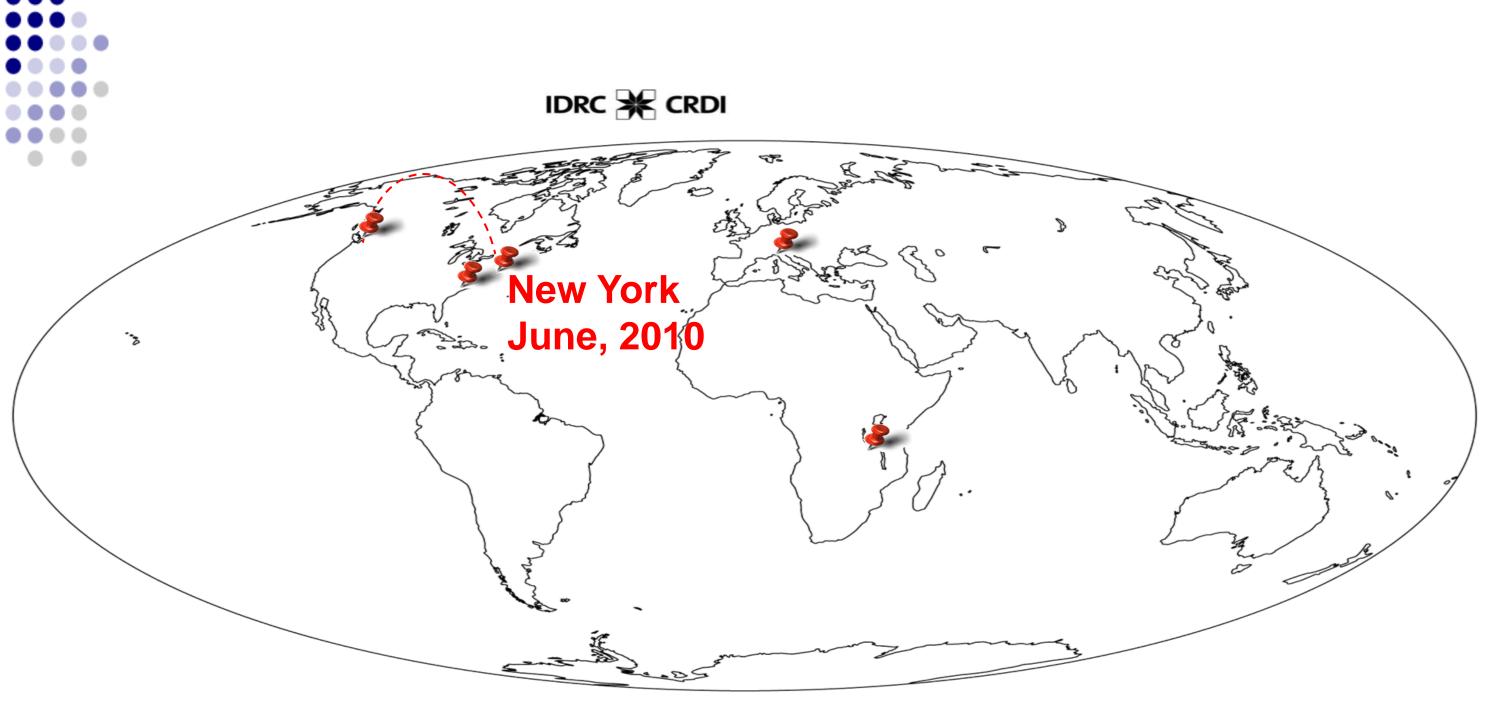


















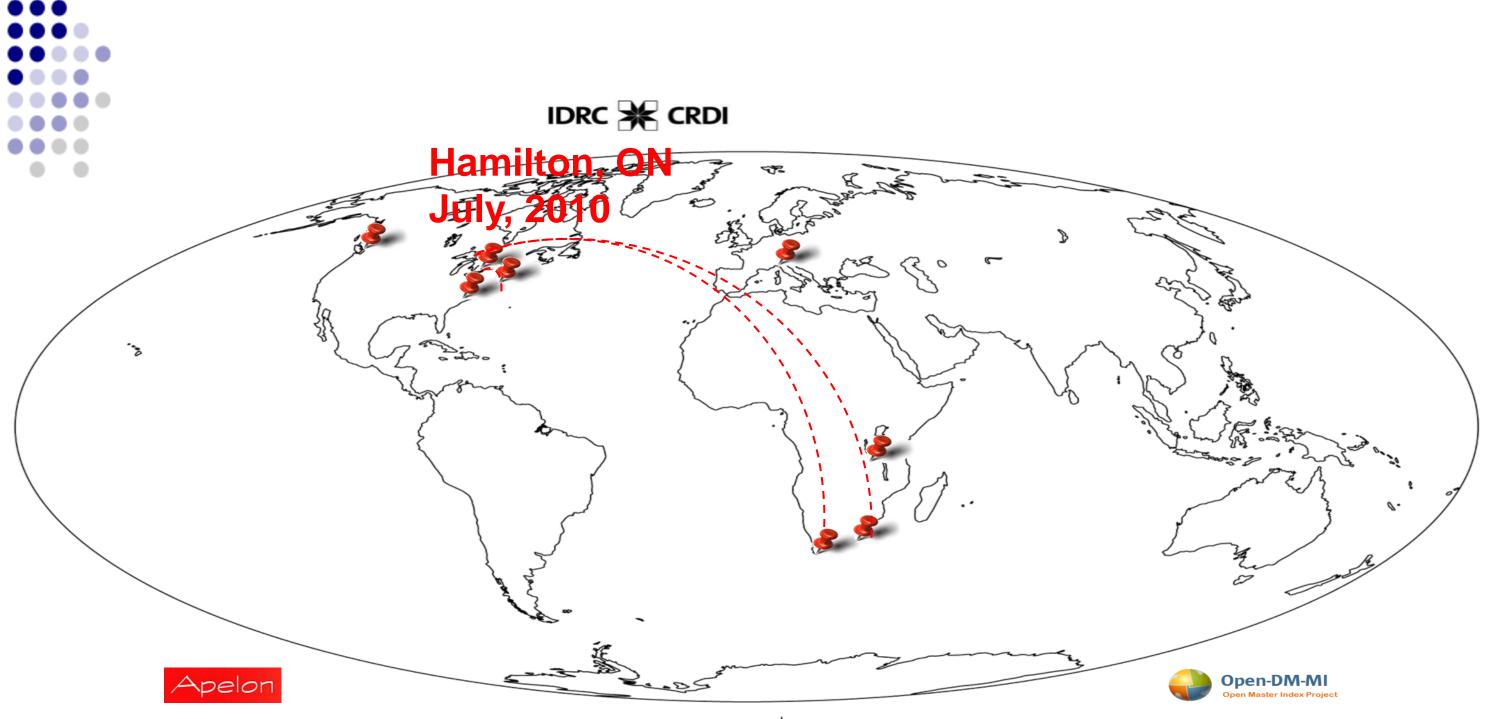


















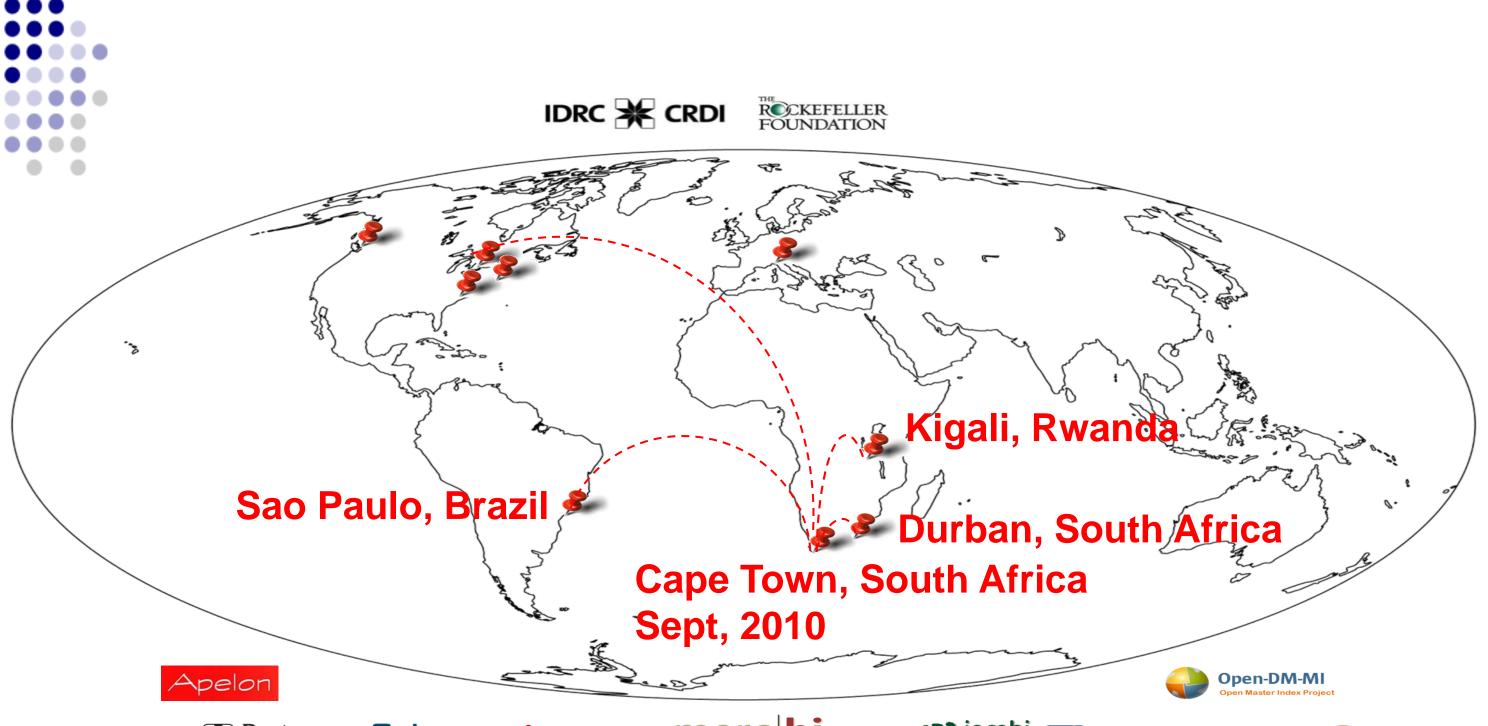


















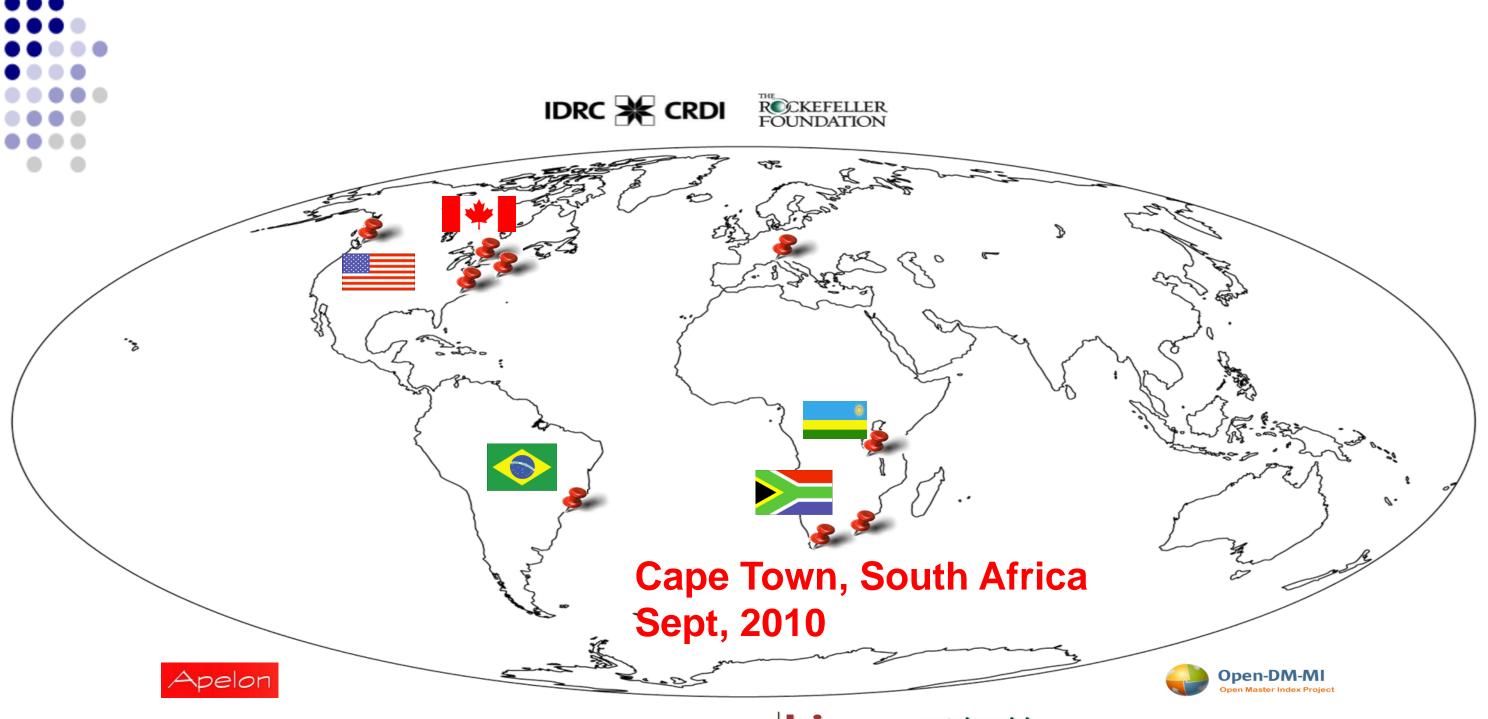


























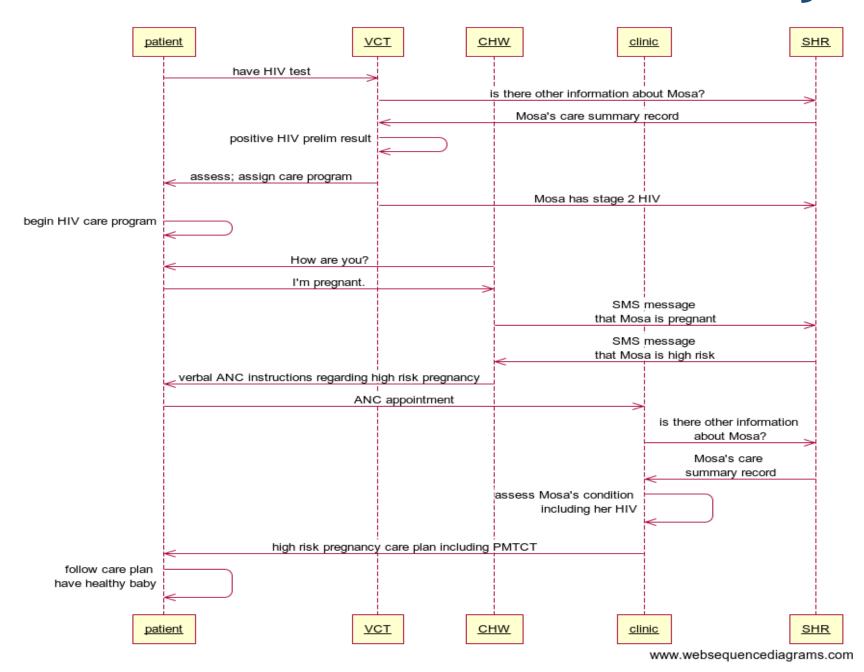




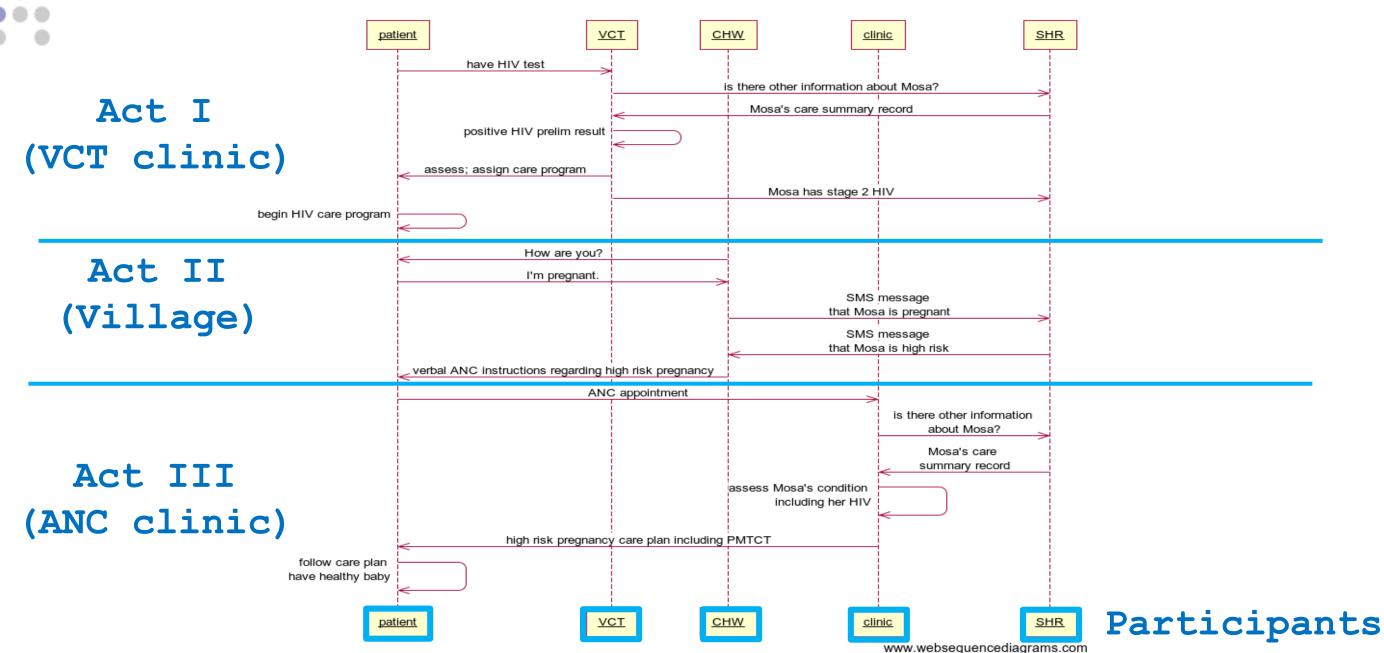
At the 2010 Medinfo Conference in Cape Town, we demonstrated how meHealth architecture could impact the life of Mosa and her baby.



Workflow for Mosa's Story

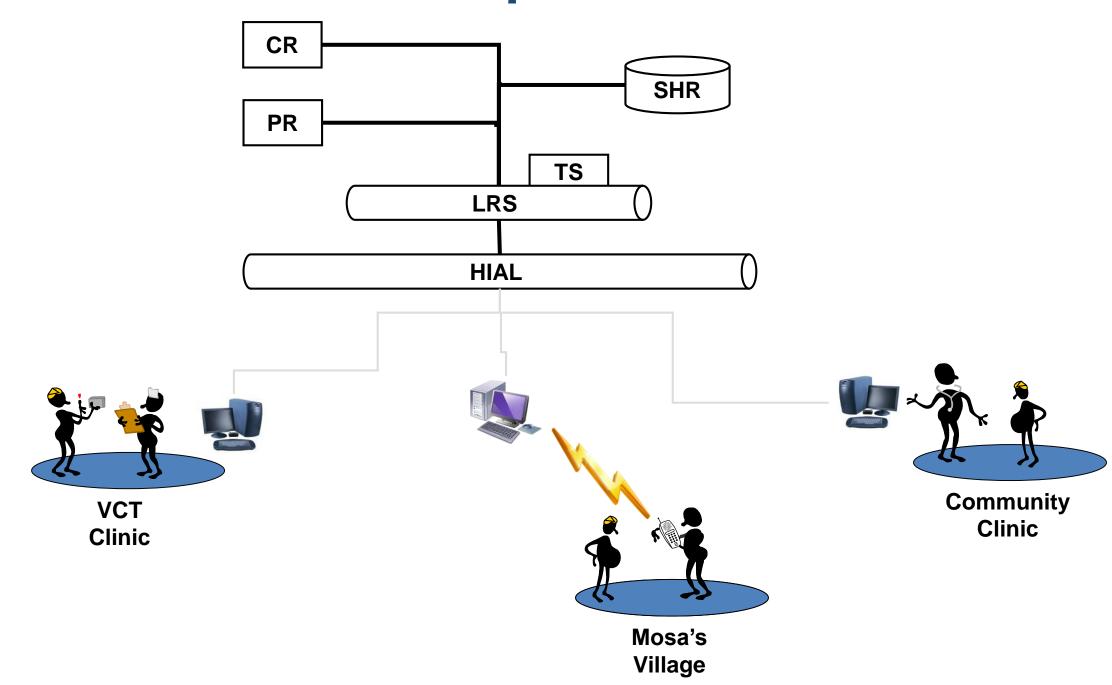


Workflow for Mosa's Story



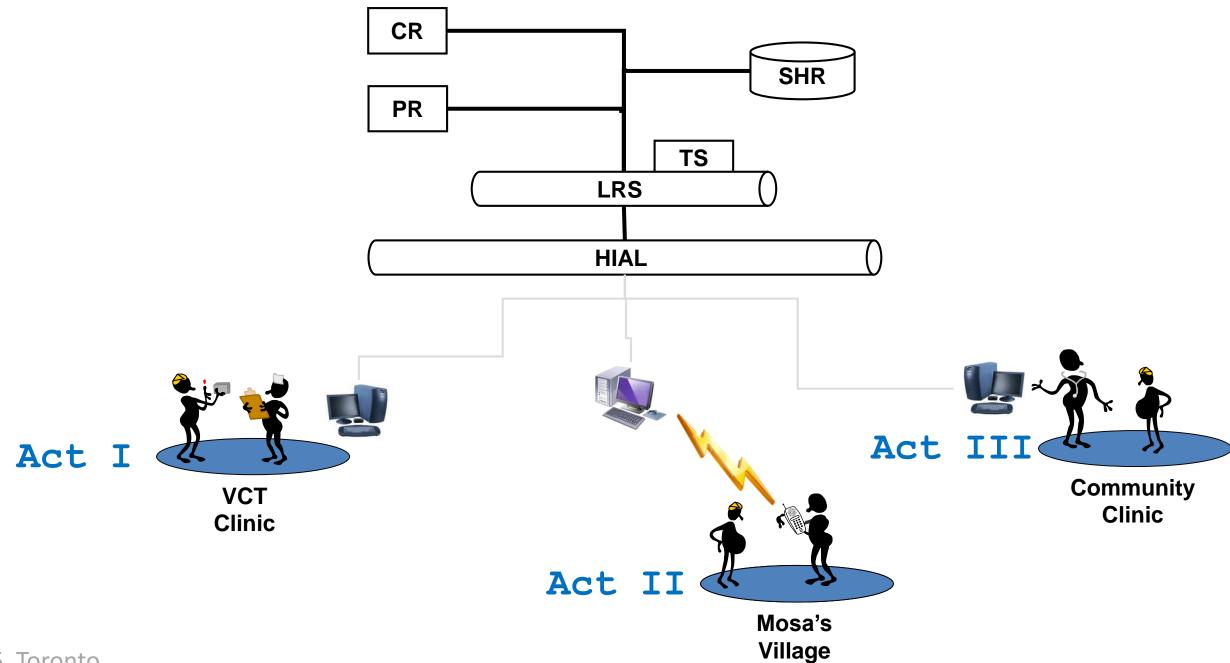


Architectural components



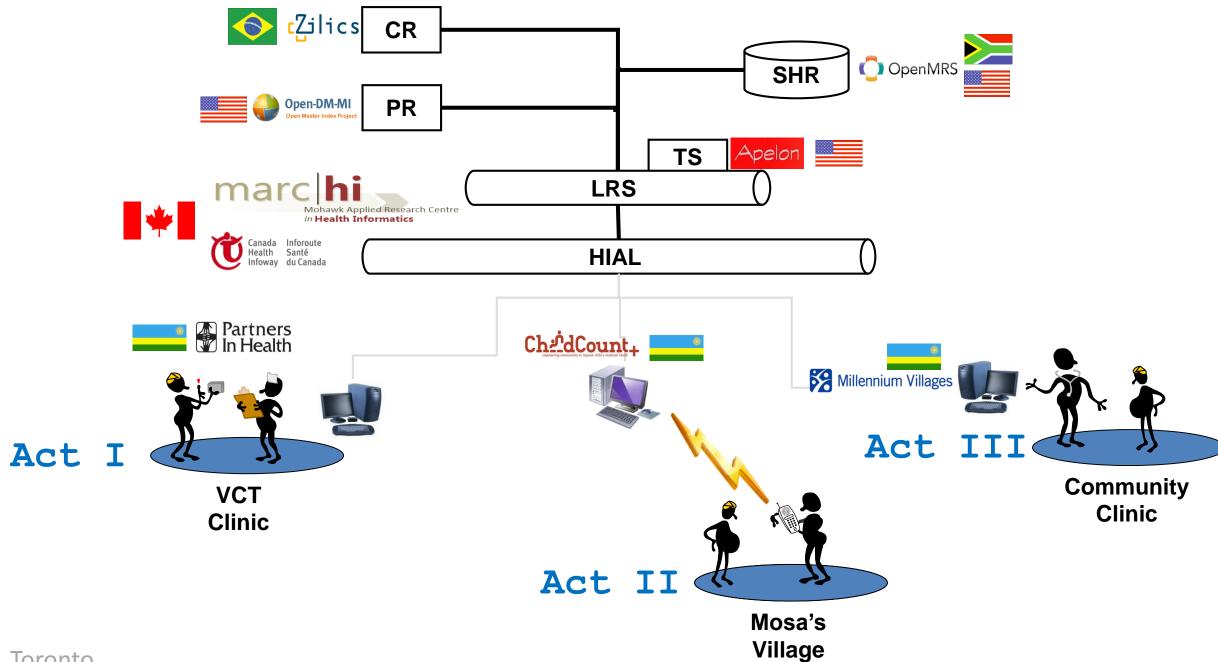


Architectural components





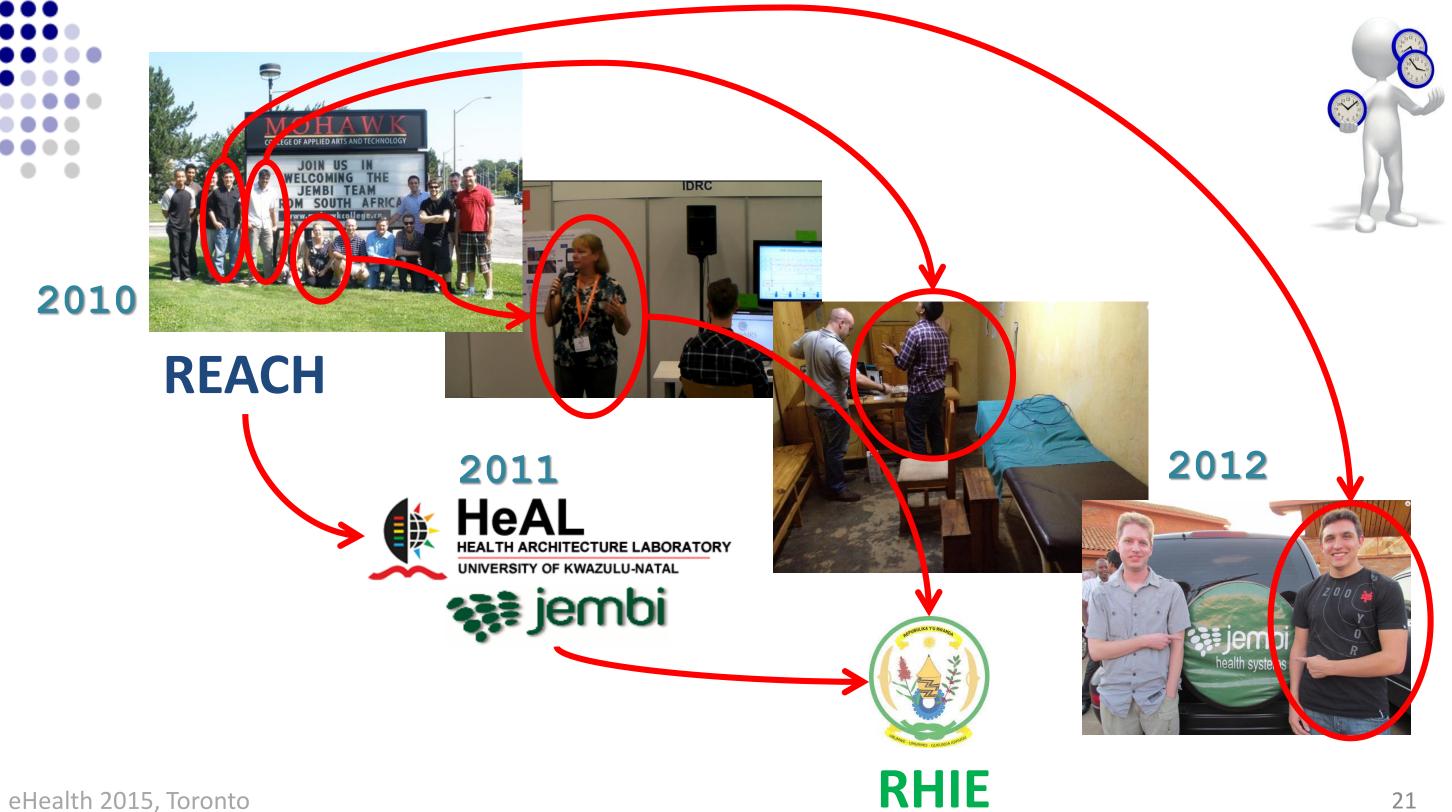
Technologies















OpenHIE!

- ☐ In September, 2012 the OpenHIE initiative was launched in Kigali, Rwanda
- □ OpenHIE leveraged RHIE as a running start
- 2013 was OpenHIE's "year of engineering" as standards-based eHealth profiles were selected (or developed)
- □ 2014 was the "year of construction" as open source reference implementations were built

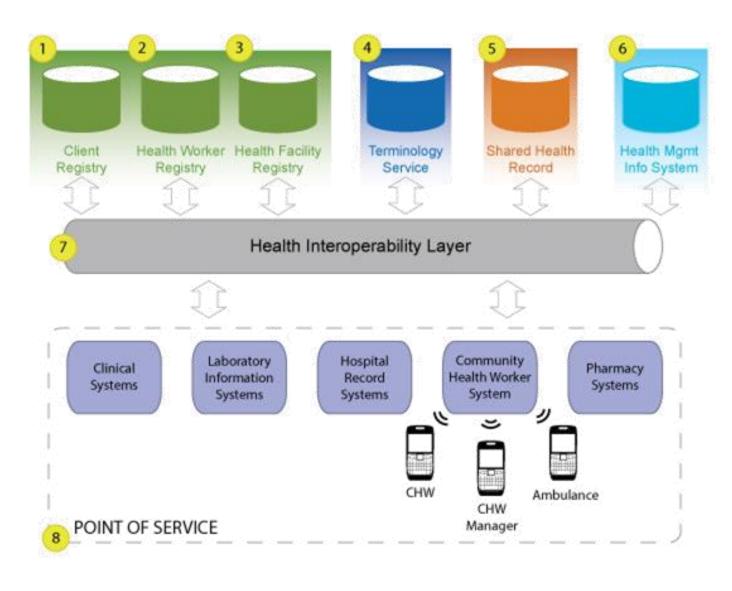




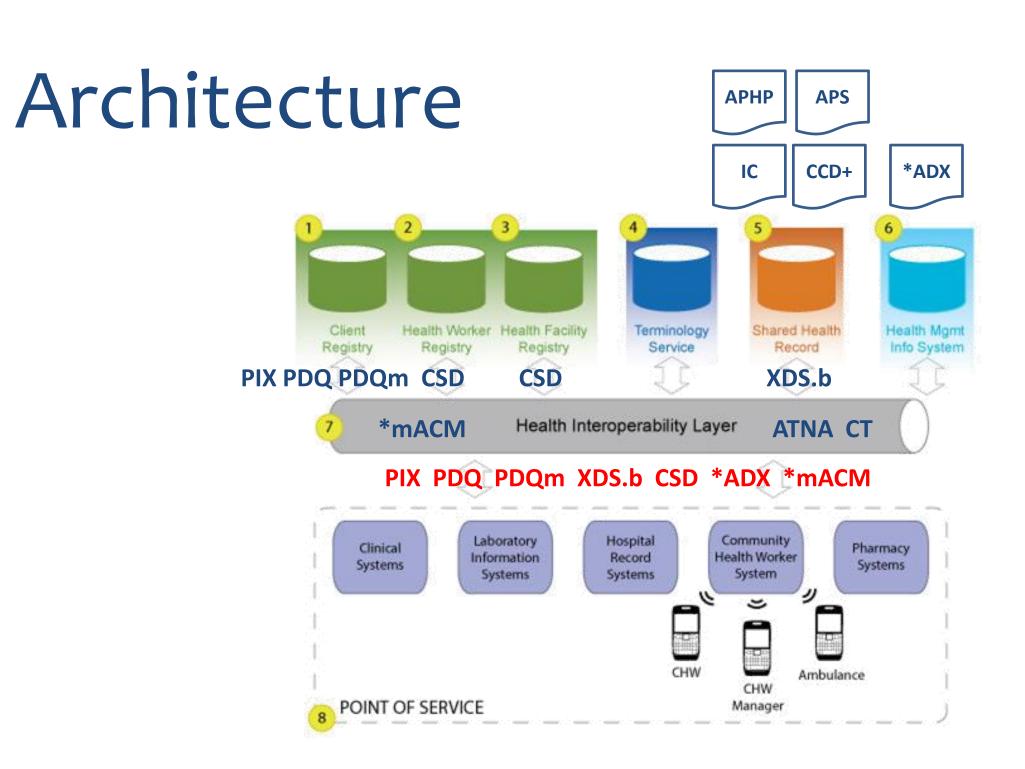
- □ OpenHIE leverages IHE profiles for <u>all</u> eHealth system interactions
- □ Community members are active in IHE profile development:
 - Care Services Discovery (CSD)
 - Patient Demographic Query for Mobile (PDQm)
 - Aggregate Data Exchange (*ADX)
 - mobile Alert Communication Management (*mACM)



Architecture











2015 marks OpenHIE's first "year of implementation".









OpenHIE is a Global Mission-Driven Community of Practice

Dedicated to improve the health of the underserved through open and collaborative, development and support of country driven, large scale health information sharing architectures.

- Enabling large scale health information interoperability
- Offering freely available standards-based approaches and reference technologies
- Supporting each other's needs through peer technical assistance communities

www.ohie.org







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Led by PATH and funded by the Bill & Melinda Gates Foundation, the Better Immunization Data (BID) Initiative is grounded in the belief that better data, plus better decisions, will lead to better health outcomes.

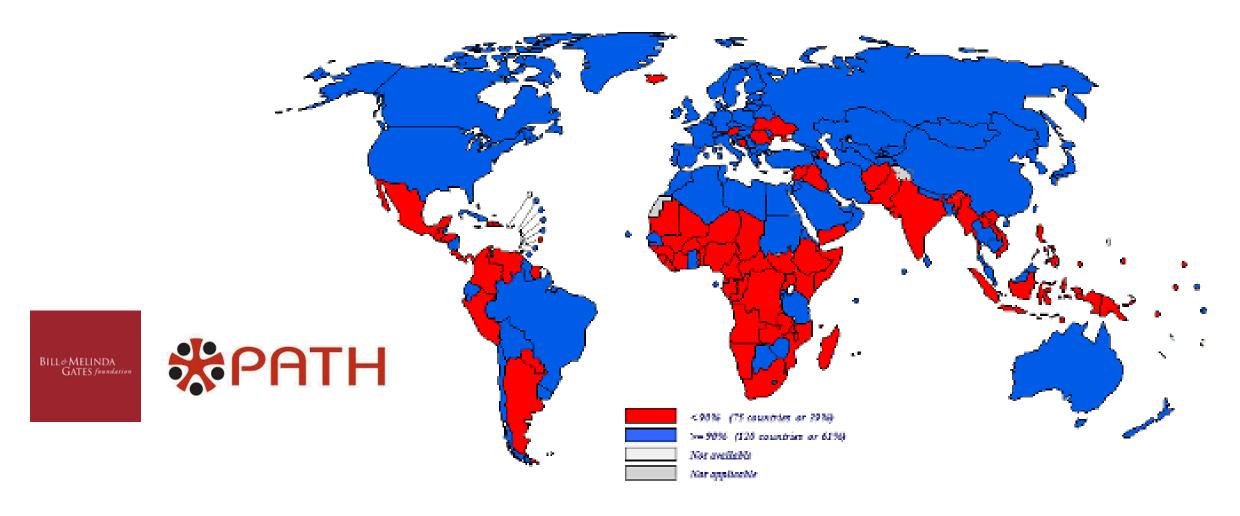




Its vision is to empower countries to enhance immunization and overall health service delivery through improved data collection, quality, and use.













Tanzanian National Immunization Registry













Arusha Region

1.7M population

~260 immunization clinics

~55,000 babies born annually

Rollout started beginning of May!



Tanzania

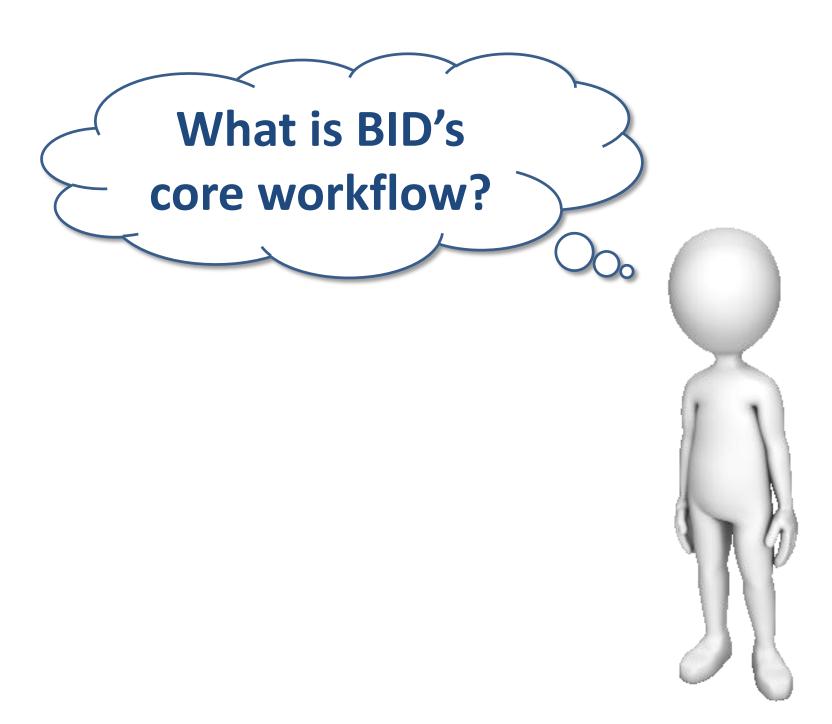
57M population

~6600 immunization clinics

~2M babies born annually

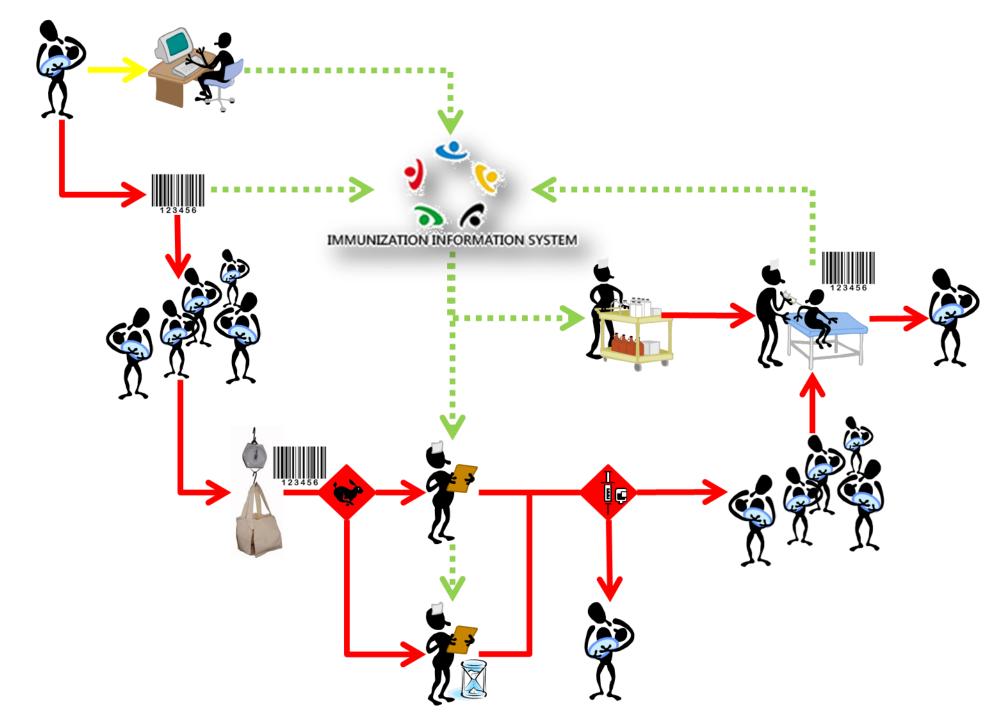
Nationwide rollout 2016+

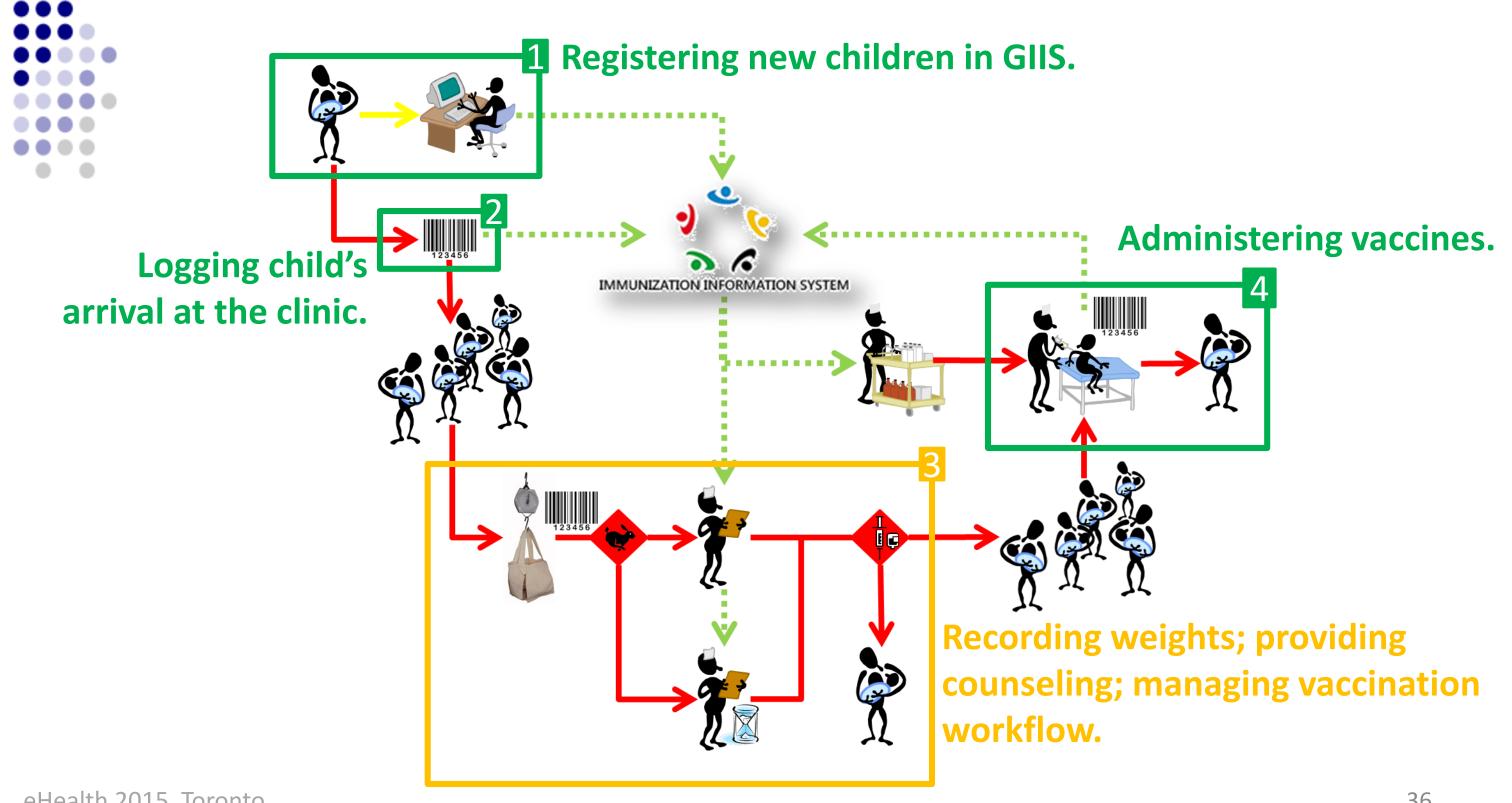






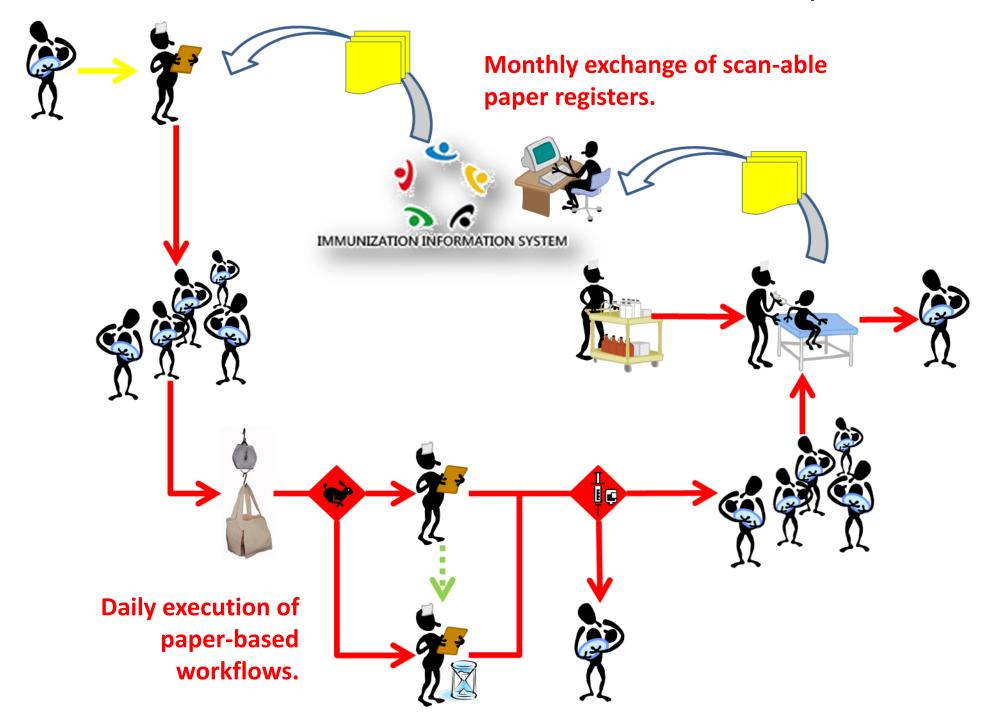




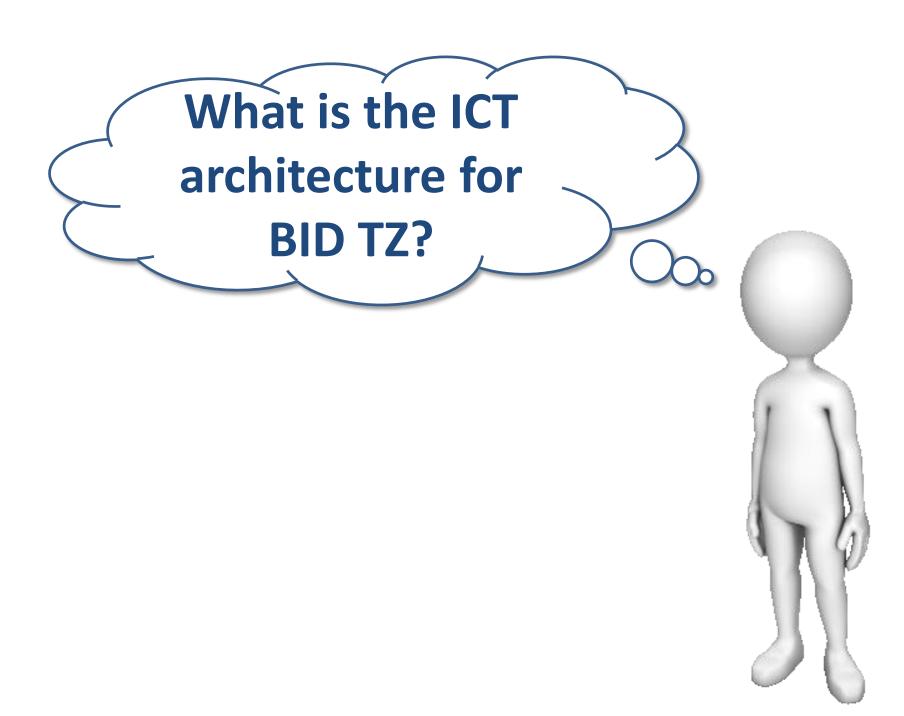




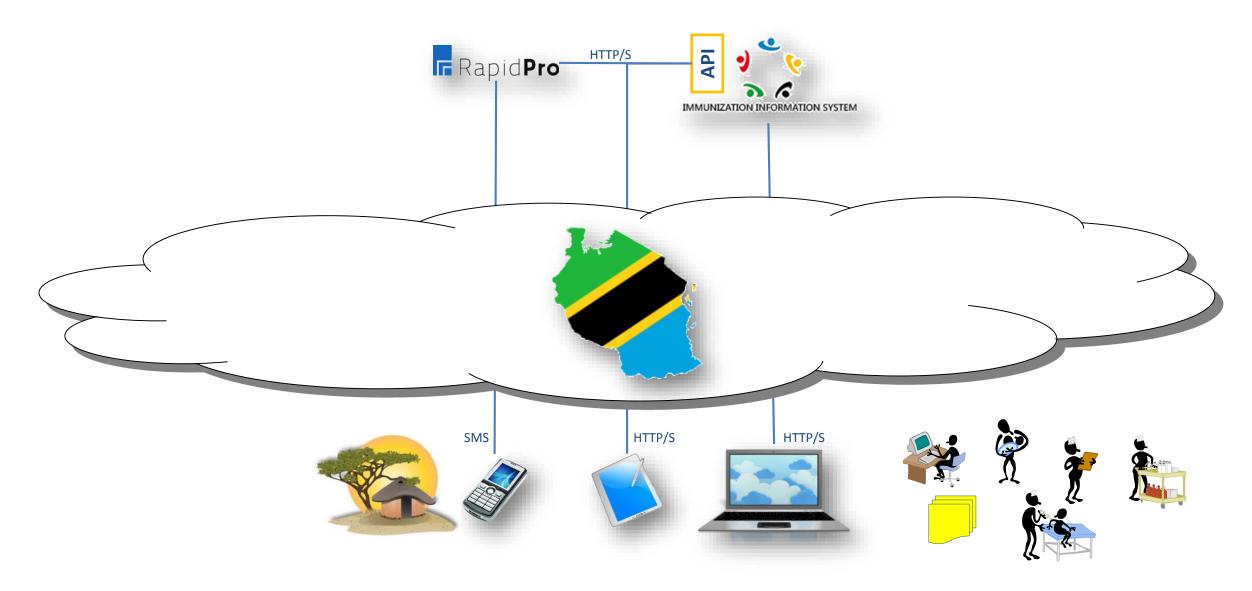
~90% of clinics, ~50% of immunizations

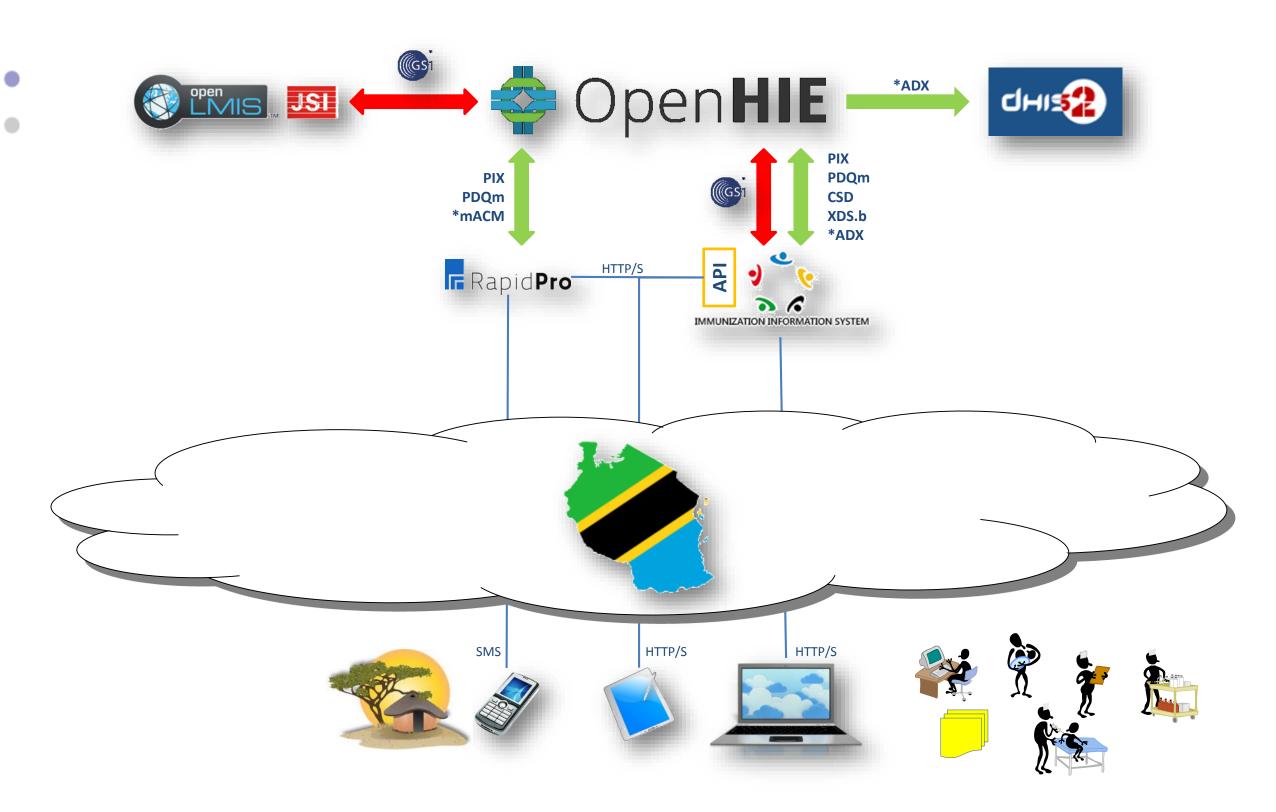














What's next for BID?

- □ Over the course of 2015, roll out to 260+ clinics in Arusha Region and update to v2 of TIIS software
- □ Evolve the immunization software functionality; roll out nationally in 2016+ (6600 clinics)
- □ Opportunistically leverage OpenHIE to support other care workflows (e.g. HIV, MNCH, IMCI, strengthened primary care...)



What's next for OpenHIE?

- ☐ Adopt the new IHE profiles: ADX & mACM
- □ Leverage results from a collaborative research with CDC regarding integrated care pathways (ICPs)
- □ Operationalize lessons from the field regarding implementation science and system maintenance
- □ Implement in 51 PEPFAR countries (DATIM project)
- Align with global UHC initiatives



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This story is about Mosa...



This story is about Mosa... and her children...

eHealth 2015, Toronto



This story is about Mosa... and her children... and her village... and her country...

eHealth 2015, Toronto



This story is about Mosa... and her children... and her village... and her country... and how what we do can make a difference in their lives.

eHealth 2015, Toronto



Thank You!

