

PHARMACCESSGROUP

Follow-up Health Data Commons project

PharmAccess
FOUNDATION

Health
Insurance
Fund



SafeCare
HEALTHCARE STANDARDS



RECAP PREVIOUS SESSION

HOW: “Health Data Commons”
framework for standards-based
implementation of demonstrators

WHAT: Results MomCare Tanzania

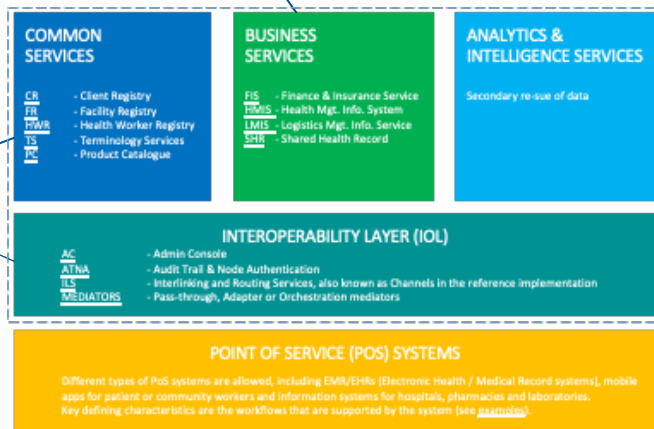
DISCUSSION FOR TODAY

- Update on latest results
- Discuss projects on horizon

- **Universities**, for example, Strathmore, as **custodians for governing secondary data re-use**
- **Possible role for VODAN Africa** to implement findability and data catalog services

- **Local authorities** are key stakeholders
- Our aim is to help and accelerate the implementation of the interoperability layer and common services

- Pharma industry, e.g. IQVIA, seeking real-world evidence
- Possible funders for kick-starting data commons?**



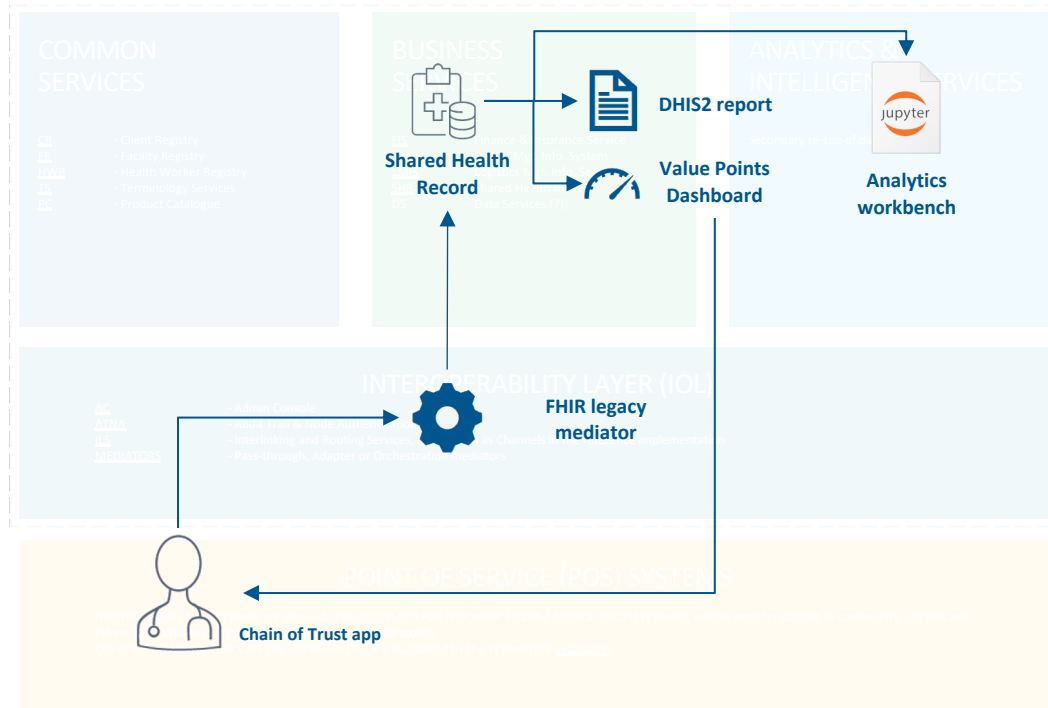
Suppliers of PoS systems at the COMMUNITY level
e.g., Medtronic Spice,
remote diagnostics

**Suppliers of PoS systems
at FACILITY level**
e.g., AfyaRecod,
Elephant, bahmni

Suppliers of PoS systems for PHARMACIES

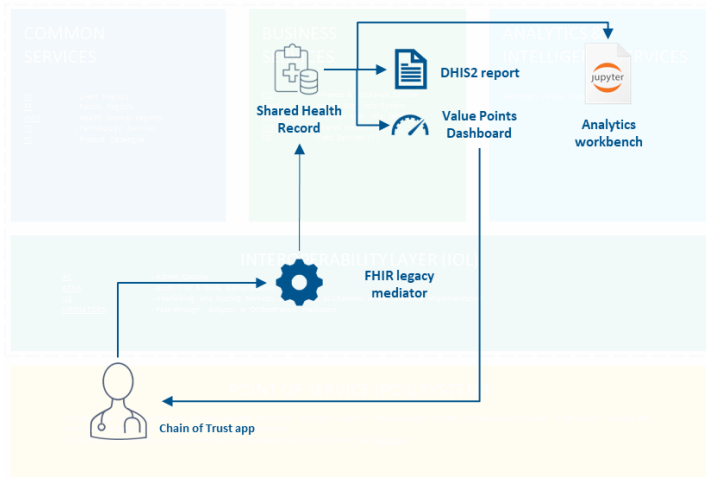
Suppliers of PoS systems for LABORATORIES

WHAT: results demonstrators with MomCare Tanzania



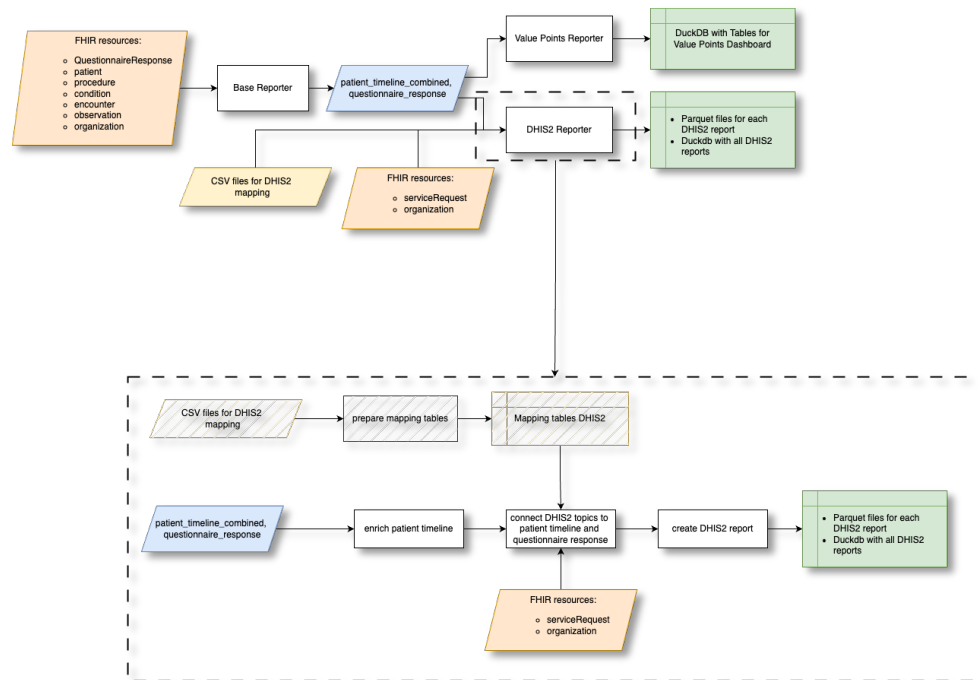
- **PoS:**
Chain of Trust app functions as electronic medical record for MomCare programme
- **Interoperability:**
Demonstrator for FHIR translation to create 'data station' of shared health record for re-use
- **Business Services:**
 - Automation of DHIS2 reporting based on shared health records
 - Implementation of Value Points Dashboard based on shared health records
 - Capability for plug-&-play publishing of dashboards into existing mobile web that is resilient to intermittent Internet connections
- **Analytics Services:**
 - Configured analytics workbench (in-the-clear)
 - Pilot multi-party computation (MPC, in-the-blind)

WHAT: results demonstrators with MomCare Tanzania

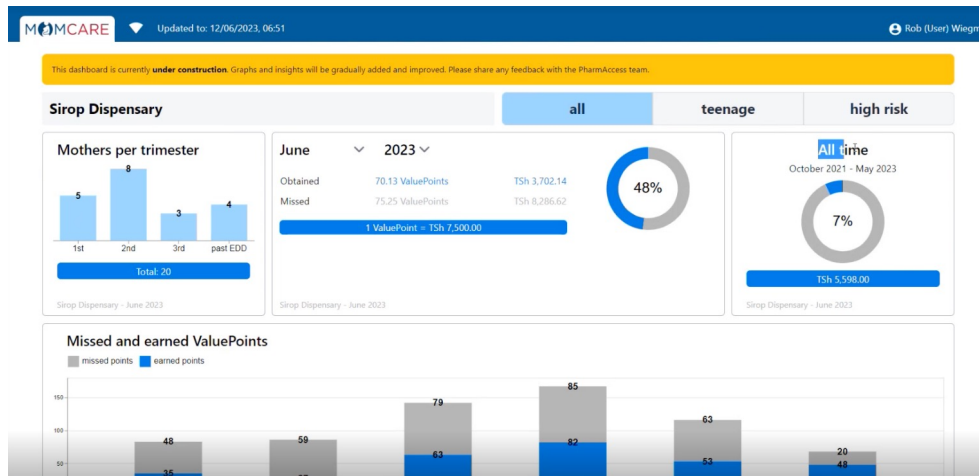
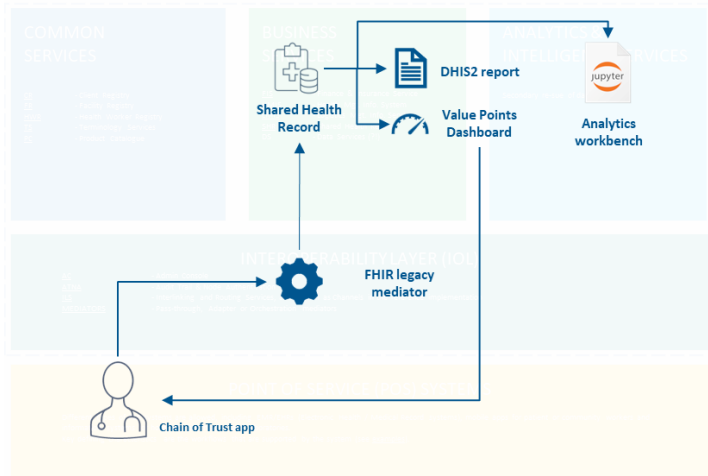


Insights DHIS2 report

- Better overview and structure how DHIS2 metrics are calculated per clinic using mapping tables
- Functionality being built allow district officer to view data across all clinics



WHAT: results demonstrators with MomCare Tanzania



- screenshot from test server with dummy data
- data is refreshed daily, so clinics have up-to-date info to act upon

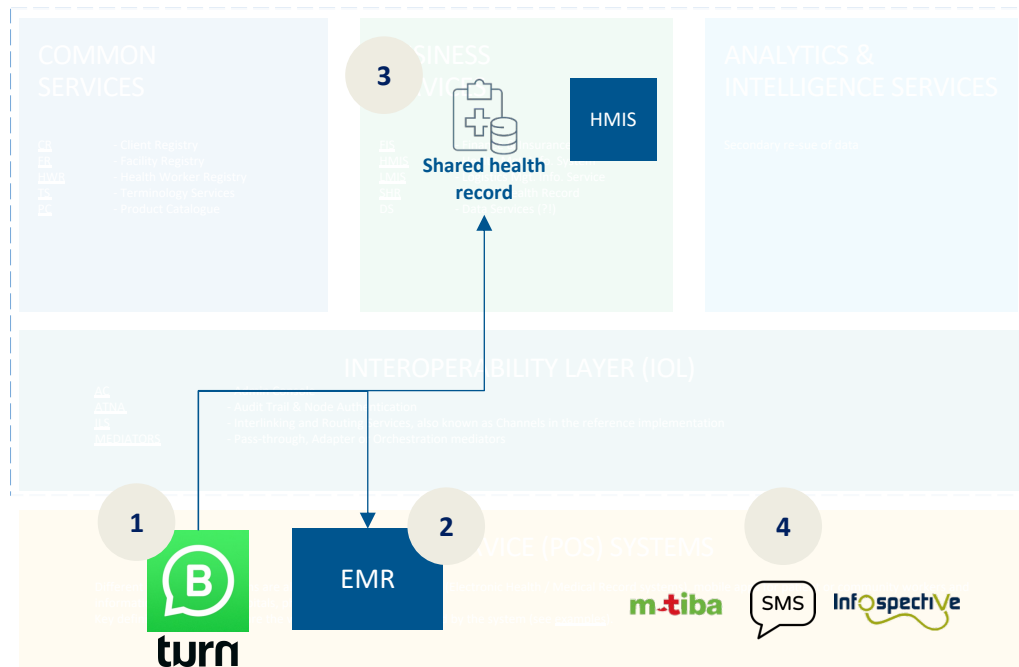
Outlook Explore work in Innovative Care Models & Health Data Commons

EXPLORE (done)

- Implement ICM demonstrators at sufficient scale for selected patient groups
 - MomCare Value-Points Dashboard and DHIS2 reports in production in Tanzania
 - Analytics workbench ready for service
- Design and specify standards-based Health Data Commons framework
 - Technical documentation ready for internal publication (intranet PAF)

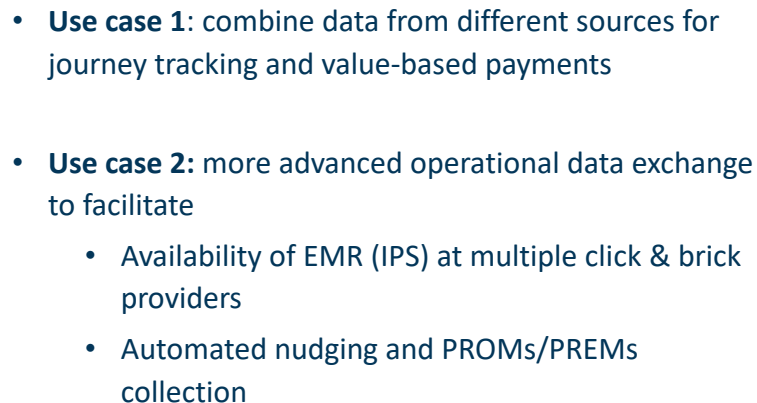
EXPLORE (to-do)

- Implement ICM demonstrators at a sufficient scale for selected patient groups
 - District officer reports in production coming month
 - Wrap-up MomCare Tanzania, incl. feedback from clinics
 - Start development activities JMF Kenya
- Design and specify standards-based Health Data Commons framework
 - Presentation at the upcoming strategy session
 - On-boarding IntelliSOFT as a local implementation partner
 - More knowledge sharing sessions for using the framework and its components
(e.g., analytics workbench)



1. Solution by **turn.io** using WhatsApp Business as PoS for collecting questionnaire data at enrollment
2. Questionnaire data is pushed to EMR using the interoperability layer
3. Questionnaire data is included in Shared Health Record for reporting purposes in HMIS
4. Integration of other data in a later phase of the project
 - M-TIBA: claims data
 - SMS and Infospective: PROMs & PREMs

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Aligning our work for the coming academic year

EXPLORE

- Implement ICM demonstrators at a sufficient scale for selected patient groups
- Design and specify standards-based Health Data Commons framework



INSPIRE

*Research,
communication,
advocacy ...*



SUSTAIN

Scale-up, operations, ...

High-level budget estimates for Health Data Commons project

Work package	Content	Duration	Budget estimate	Notes
Consultancy	<ul style="list-style-type: none"> Second opinion on architecture and design Engage local partners Embed project in local context, e.g. government initiatives 	6 months	<ul style="list-style-type: none"> USD 40k –70k 	<ul style="list-style-type: none"> Intended long-term partnership with Steven Wanyee / IntelliSOFT
Implementation: base infrastructure	<ul style="list-style-type: none"> Configure and deploy OpenHIM als interoperability layer Configure and deploy Shared Health Record server Technical documentation 	6 months	<ul style="list-style-type: none"> Initial setup: USD 50k – 150k Running cost: USD 1k - 2k per month 	<ul style="list-style-type: none"> Same base infrastructure can be re-used for all countries
Implementation: per ICM use-case	<ul style="list-style-type: none"> Development of Point-of-Service systems Development of mappings/translations Development of reports Technical documentation and implementation guide 	tbd	<ul style="list-style-type: none"> Initial setup: USD 150k – 350k Running cost: USD 2k – 4k per month 	<ul style="list-style-type: none"> Running cost mainly technical support and change management