



# SYSTEMS

**TECHNICAL WORKSHOP POC, EPTS & HELPDESK**

**Prof. Chris Seebregts - CEO**

**Dr. Alessandro Campione - Programs Director**

# WHO WE ARE - the Jembi model

- ▶ **African non-profit organization:** born in 2009 as spin out of SA Medical Research Council, grew from 4 to over 120 staff in 9 years, all dedicated to information systems projects in Africa.
- ▶ **Based on local and international partnerships and donor funds**  
: Academic, Public and private institutions; Local Government (MoU) and international partners (WHO, CDC, USAID, EU, IDRC, HISP, UEM, etc.)
- ▶ **South to South Cooperation model:** grow local and regional network of experts, capacity building (academic, institutional, on the job), ensure sustainability, work with the public system, MoH resident staff, train and employ local staff, reuse successful projects, appropriate technology and good practices specifically tailored for Africa

# WHO WE ARE - the Jembi model

- ▶ **Over 100 staff** specialized and dedicated to information systems development, implementation and training for sustainability.



- ▶ **Four country offices:**

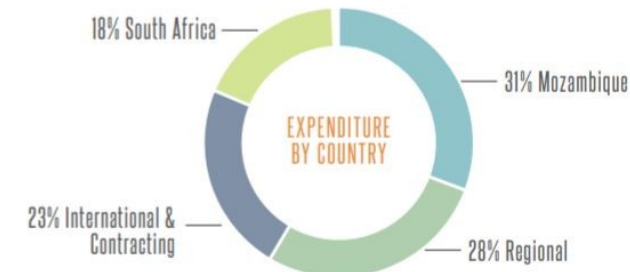
- ❑ South Africa (Cape Town, JHB & Durban): 63 staff
- ❑ Mozambique (Maputo): 44 staff
- ❑ Rwanda (Kigali): 4 staff
- ❑ Zambia (Lusaka): 6 staff

Jembi Mozambique (Moasis) OpenMRS training



Jembi Team Mozambique

Jembi Team HQ Cape Town



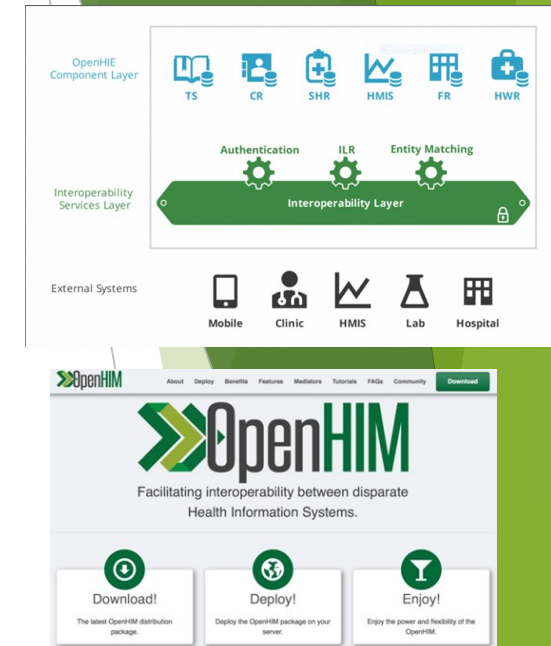
# What we do

- ▶ **Project design, fund rising and active participation to world specialized forum**
- ▶ **Whole open source information systems design, development and implementation** for public sector (Health, Social, Civil and vital statistic, academic, research, education etc.) and non profit ORG.
- ▶ Provide **technical skills and implementation expertise**
- ▶ **Country-level enterprise architecture**
- ▶ **Management and coordination of national high complexity and risk projects**
- ▶ **collaborative network** of partner organizations and specialists, and the provision of specialist technical and project support
- ▶ **Research into the application of health/social information systems** in developing countries
- ▶ **Share** experience and knowledge (academic publications & conferences)

# PROJECTS AND SYSTEMS

- ▶ **Connectathon at Medinfo 2010:** Early stage of work on interoperability and HIE, built out of open source software available in Africa, implemented in Rwanda in Rwanda, SAMRC-Jembi founding members of OpenHIE community.
- ▶ **OPENHIE:** Open Health Information Exchange, Interoperability layer (OpenHIM), allows systems to interoperate easily, easily to implement and manage.
- ▶ **MOMCONNECT:** NDOH Initiative, National mobile phone system for pregnant women, close to 2 mln registered, Jembi upgraded components of backend infrastructure (OpenHim interoperability layer), exemplar implementation of the Health Normative standards Framework in SA

- ▶ **OpenCRVS:** Open source CRVS solution, simple and accessible registration processes for citizens, interoperable with health systems, produce vital stats from CR data, joint work w/ Plan International
- ▶ **SAMRC-JEMBI:** Collaborating centre for Digital Innovation, launched 30 Aug 2018
- ▶ **RWANDA:** Integration of OpenMRS & DHIS2 to automate PEPFAR Indicator Reporting, RHIE, RHEA.



# PROJECTS AND SYSTEMS

► **SIS-MA:** MOH M&E system, **161 districts** implemented, **1092 health staff trained**, Provincial Support (ITP), **2301 users nationwide, data quality support**

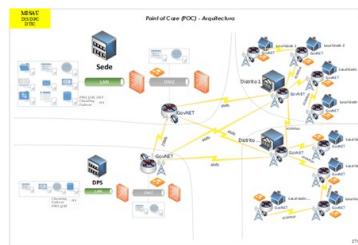
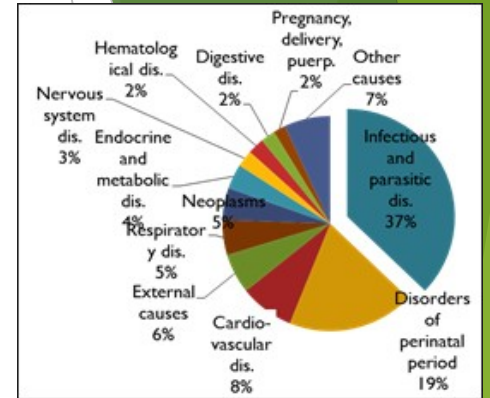
► **SI-M&A:** MGCAS M&E System, Assessment of old system, Implemented in **30 sites** in all provinces, **282 staff trained**, Forms reviewed for all social programs.

► **SIS-ROH:** Mortality Registration System, ICD-1- codes, **58 sites**, over **300 health staff trained**, 180,000 deaths registered in 6 years, **2 National Mortality Stats Reports**

► **SIS-Compact Station:** Computer (ATM-like) allowing only predetermined list of application of the MOH

► **POC:** Planning for roll-out of POC-EMR in Rapid Assessment in 52 HF, Readiness Assessments in 10 HF (incl. Workflows) HR, Hardware and Architecture requirements, ToT, Procurement

► **CRVS:** GITEV Support, National **CRVS Assessment**, CRVS Architecture/Information Exchange, Portuguese CRVS Digitization



# **HIS/CRVS GROUP MEMBERSHIPS**

- ▶ Founding Member of HISP open source community
- ▶ Founding Member of OpenHIM open source community
- ▶ Founding Member of OpenMRS open source community
- ▶ Member of CRVS Inter sectorial working group in Mozambique
- ▶ Member of Mozambique ICD-10 national Committee

# NEW PROJECTS

## **JEMBI Appointed New PEPFAR HIS Implementing Partner**

**starting October 1<sup>st</sup>**

- ▶ Support OpenMRS EPTS development including Open MRS Reports (queries)
- ▶ Support OpenMRS POC Re-engineering
- ▶ Support OpenMRS platform and architecture selection
- ▶ Continue to support OpenMRS deployment
- ▶ Helpdesk for all HIS related activities will transition to JEMBI



# NEW PROJECTS: POC SOFTWARE & EPTS

## POC Software Ongoing activities

- Transition of POC Software Development to Jembi
- Review of POC Requirements and product documentation
- Ongoing Usability tests
- Technical Assessment of POC Software
  - Review of code quality, scalability, level of tests, performance and design decision

## EPTS Ongoing Activities

- Transition of EPTS Project to Jembi
- Revision of current status of EPTS system, testing, deployment and migration processes
- Ongoing preparation to setup the QA environments:
  - Defining server specifications to host these environments
- Analysis of MER indicators guide
- Started Requirements Document for TX\_Curr and TX\_PVLS Indicators
- Discussion with partners on the changes in TX\_PVLS indicator

# WORKSHOP OBJECTIVES

- Collect basic information of the implementations partners (plans, # of sites covered, versions of EPTS, constraints, others)
- Discuss current situation of eSaude project, lessons learned and next steps
- Discussion overall objective and framework/architecture
- Define common high level requirements and architecture for one common Open MRS platform for EPTS to be used by all partners
- Define migration plans for each partner
- Define support to the infrastructure by Jembi and each Implementing Partner
- Define help desk functioning and methodology
- Define coordination mechanisms and support plan
- Define future of eSaude community

# EXPECTED RESULTS

- Better understanding of the current status of the ePTS, and Helpdesk systems.
- Proposal of common architecture
- EPTS changes tests and deployment strategy agreed
- Communication channels and coordination mechanisms established

