Welcome. What are you looking for?

STRATEGY: Top 3 Directions

RAPID ROADMAP: New, Now, and Next

DETAILS: Key Projects & How to Get Involved

About

This Product Dashboard is a dynamic, changing space that is open to feedback. The intent is a home-base where anyone, especially day-to-day Implementers interested in the OMRS roadmap, can see at a glance some key initiatives going on around the OpenMRS community: what's happening, who's putting resources in, what needs more support, and where there are specific opportunities to contribute support/investment.

Short Link to this page: om.rs/productdashboard

We are working on a clearer process for this. For now: project contributors are encouraged to update this page, though responsibility for ensuring this is a fair, up-to-date reflection of current community work rests with the OMRS Director of Product. Reach out to Grace Potma; we'd love to hear from you and better understand your initiative so we can broadcast your amazing work! We also regularly review this page in the OMRS Technical Action and Strategy & Operations Committees, to help everyone be on a similar page about key work moving our community forward closer to our strategic priorities.

- Our Platform & Product Vision
  - Rapid Roadmap
  - Key Projects
    - 1. CARE. User Experience: Improve patient-centered care delivery and give care providers a great user experience
      - Friendly, Modern UX in RefApp v3.0
      - Clinically Helpful
    - 2. CONFIGURATION. Implementer Experience: Easier to build & deploy a distribution
      - Plug & Play Architecture
      - Platform & RefApp Maintenance
      - Easier Deployment
    - 3. COMMUNICATION (OF DATA). Data Exchange: Easy, consistent, simplified Data Sharing across other systems & sites
      - HL7 FHIR
      - OpenMRS Dictionary Management
      - Critical External Integrations

Our Platform & Product Vision

We work together in a global fight to improve health care. Tech is one tool we use to bring better care to patients, the providers who care for them, and the organizations who steward health resources. This means the tech we develop together must do the following:

1. For Patients: Ensure patients get the right, timely, and appropriate care
2. For Health Workers: Provide health workers with timely, accurate, and complete information
3. For Organizations: Give organizations data to improve the efficiency and quality of care delivery

Top 3 Strategic Directions for our Product

To achieve this vision, we need Strategic Directions that will guide us over the next 5 years and set us in the right direction. Our top 3 Strategic Directions are:

- 1. CARE. User Experience: Improve patient-centered care delivery and give care providers a great user experience
- 2. CONFIGURATION. Implementer Experience: Easier to build & deploy a distribution
- 3. COMMUNICATION (OF DATA). Data Exchange: Easy, consistent, simplified Data Sharing across other systems & sites
Rapid Roadmap

All of these items are:

- being conducted in a public community process
- being shared with OpenMRS facilitators, and are receiving dedicated support from OpenMRS Inc
- likely to provide wide community value (i.e. fit under the definition of "Shared Assets" for community)

<table>
<thead>
<tr>
<th>✔️ Done</th>
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<tbody>
<tr>
<td>Recent Work Completed</td>
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<tr>
<th>✨ Now</th>
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<tr>
<td>What We're Working on Today (Active Design or Development)</td>
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<th>🌟 Next</th>
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<tr>
<td>Next Priorities*</td>
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### CARE: Pt Care & User Experience (via the 3.x Frontend re-do)

- **3.0.0 Demo Launch**
  - Q3 Goal = end to end outpatient workflow launched online for public use & experimentation. Includes:
    - Offline Mode for Mobile/Community
    - Health Workers: view patient charts offline
    - Lab Results with charts & interactive viewing
    - Drug Ordering
    - Patient Lists (create lists and add patients to lists)
    - Full featured outpatient chart (e.g. Medication History, Immunizations, past Visit Notes view, and more)

  **AMPATH**
  **MEKOM**
  **PH**
  **BROWN**

- **Adopted Carbon Design**
  - Updated 3.x Frontend to use 3rd party design system. Result: Faster design & development outputs.

  **AMPATH**
  **MEKOM**

- **Share Frontend Widgets with Plug-and-Play Architecture**
  - Microfrontend framework completed; enables implementers to re-use others' frontend features.

  **AMPATH**
  **MEKOM**

- **3.x Guide for Developers**
  - Step by step guide to the new Design System & Microfrontend architecture. Will help Devs implement 3.x for their org, or contribute to Squad.

  **PH**

### Offline Mode for Mobile/CHWs

- Registration, Forms ready for field use offline

  **AMPATH**
  **MEKOM**
  **ICRC**

### 3.1 (Subsequent Release)

- Offline Mode (collect patient data offline)
- Patient Lists (view list members)
- Upgrade to Platform 2.5-alpha
- Lab Results bug fixes
- Improve performance & load times

  **AMPATH**
  **MEKOM**
  **PH**
  **OPEN**

### Appointments Part 1: Scheduling Clerk Workflows

- Goal: Clerk can book and manage pt appointments with 3.x UX. Smaller scope way to intro 3.x without impacting clinician workflows yet. Plan: Work w/ Bahmni Aptsmts; aim to release end of Feb.

  **PALLADIUM**
  **MEKOM**
  **ICRC**
  **OPEN**

### Appointments Part 2: Clinician/Patient Chart Views

### Medication Dispensing

- 2.x & 3.x UI to enable Pharmacists to mark drugs and fully or partially dispensed.

  **PH**
  **OHRI/UCSF**
  **MEKOM**
  **OPEN**

### Theming 3.x!

  **UCSF**
  **OPEN**

### Group Sessions / Group Visit Management

- 3.x feature for Group Sessions, starting with Mental Health group sessions. Aka Bulk Data Entry, Line List style, Tabular data entry view.

  **Design ongoing.**

  **~Q3 '22**
### Service Delivery Queues & Clinic Workflow Queue & Clinic Dashboard improvements

A 'snapshot' of active visits and patient priority levels. Goal is to improve clinic workflows / service delivery queues, and team communication, starting with Outpatient clinic workflows.

- **AMPATH**
- **PALLADIUM**
- **IN DEV**

### NCD Use Cases & Design Research

User Research, Designs, & Testing to validate and prepare EMR for NCD care context. E.g. NCD-specific widgets and sections of Patient Chart.

- **AMPATH**
- **OPEN**

### Automatic Patient Lists

1. Query for patients who meet a certain criteria, and (2) automated adding/removing of patients from this list (so it's automatically maintained).

   E.g. "show me all Patients who missed med pick up..."

   E.g. "show me all Patients who missed their appointment..."

   + Actions on that list (e.g. change patient status)

   (Interested: Ampath, UCSF)

### Referrals

3.x UI to send and receive referrals.

- **AMPATH**
- **OPEN**

### Print

Ability to print things from the EMR, e.g. HIV Clinical Summary

- **AMPATH**
- **OPEN**

### Ampath 3.x Live Test (Kenya):

End to End Testing with Outpatient HIV Clinicians (Q 4)

- **AMPATH**

- **PILOT**

### Ampath 3.x Pilot (Kenya):

3.0 Go-Live with Clinician Workflows at large HIV Outpatient Clinic (2022 Q1)

- **AMPATH**

- **PILOT**

### Generic Encounter Widget

Reusable version of a common widget, powered by config that's easily editable (e.g. if you want to change columns & data shown in a table)

- **PIH**
- **OHRI/UCSF**
- **OPEN**

### Lab Orders

Lead: **ONR/USSF**

- **OPEN**

Use case support from

- **MEKOM**
- **AMPATH**
- **PIH**

### 3.x Performance Enhancements

- **MEKOM**
- **ICRC**

### Use Case Gathering: Offline Mode for Sites

- **PIH**
- **OPEN**
Interactive Forms
Forms/notes become the centering piece for teams - we need to figure out how to represent not just data collection, but also embed widgets into the process (so that user doesn't have to click around the EMR to find the information they need while also trying to do a form).

Bed Management

Team Communication
e.g. Notifications between team members (within UX of System wide / Global notifications; for 1 user but not about 1 patient)

CONFIGURATION:

Fast Deployment

Dictionary Manager webapp (aka OCL for OpenMRS)
MVP live for production use. See: Intro video; and demo video.

Lighter Deployment
Simpler deployment packaging (3.x RefApp will use a much lighter-weight set of modules)

OCL Module Improvements
• Bug fixes related to error messages

Designs for Implementer Tool: EMR Setup UI for Non-Tech folks
Designs to enable: Non-tech users can set up a 3.x EMR in a friendly, no-code UI, similar to designing a website.

EMR Packages: Tech Definition & Schema
A way to add content (forms, concepts, custom widgets etc) to easily add new program areas to your EMR (e.g. Maternity Package)

Iniz support for Reports
Interested: PIH

Copy & Customize a CIEL Concept
Able to re-use a CIEL (or other curated) concept instead of recreating it manually: copy it and make the non-breaking changes you needed (e.g. change answers, add translations, etc).

OCL Module Fixes
• Multi-language support

Input from:

Input from:

Input from:
OCL Module Workflow Improvements

- Automated tests for different data types
- "Here’s what will change" workflow

OCL OpenMRS Import feature

- REGENSTrief
- PIH (testing)

Iniz support for Dictionary Manager work

- Support for Concept Name, Synonyms

3.x OpenMRS Forms: Form Management for Non-Tech folks

A new Form Builder & Form Engine for OpenMRS, using open source code used by OpenMRS implementer for 5+ years. Allow non-coders to set up clinical forms.

FHIR Implementation Guide (IG) - Supporting OHIE Facility Registry IG

Goal: Finish & genericize the ITECH FHIR IGs built for Labs, Lab Workflows, and Facility Registries

Identity & Facility Management

Get iSantePlus Client Registry & Facility Registry workflows set up with FHIR in iSantePlus working in OMRS-core (using FHIR-based workflows)
FHIR Gaps Review
Using 3.x RefApp, check for areas where REST API is being used where FHIR either could be used or needs support (Done, Doc Here)

FHIR Module Upgrade
Added support for Immunizations.
Note: The FHIR Module already enables the export of OpenMRS data into FHIR format, to help integrate with other systems use FHIR.

DHIS2 Connector Module
Posts aggregate data from OpenMRS to DHIS2, and gives implementers a User Interface for an easier-to-set-up OMRS to DHIS2 pipeline, that doesn’t need manual code fixes every time there’s a change to reporting indicators. Fixed so this can work in production systems, added automatic data sending, and added support for custom period types.

FHIR API Support for Terminology Services
Currently dependent on REST API for all things concept or terminology related
Needed for 3.x dynamic patient list queries to be entirely FHIR based.
3.x test results depend on hybrid of FHIR & REST due to this.

Support for OpenMRS Attributes
Support things we don't currently support in OMRS data model - e.g. pt phone numbers (current support is fragile)

Lab Exchange
Get iSantePlus lab exchange module to work in OMRS-core (connects to id & facility mgmt to i.d. right pt and right facility) (using FHIR-based workflows)

Mass Synthetic Data Generator
Auto-generation of 1-100,000 Outpatient HIV patients

DB Sync

Odoo for Pharmacy

Odoo integration for Physical Rehabilitation
e.g. Creation of prosthesis and financial / patient billing

Odoo integration for Billing

Odoo integration for Bed Management

Scale-ready ETL Pipeline to FHIR-based tools: Ampath pilot of Analytics Engine.
**Maintenance & Core Support Needed to Unlock the Above** (Make it possible for implementers to build their features)

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### Thorough Test Coverage: Live OpenMRS QA Dashboard
Automated Workflow Tests applied throughout products

[**UW ITECH**] [**FELLOWS**] [**VOLUNTEERS**]

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### Platform 2.5 Release
- Support for Tomcat 7-9.
- Make Orders, Allergies, Diagnoses, and PatientState form recordable and encounterable.
- Administration via REST.
- User settings: store larger strings in DB.
- Groundwork for future ReferralOrders support.

[**REGENSTRIEF**] [**PALLADIUM**] [**VOLUNTEERS**] [**OPEN**]

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### RefApp 2.12 Release
38 of 42 modules updated. Includes the SPA module that unlocks Microfrontend capability.

[**VOLUNTEERS**]

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### REST API Test Coverage

[**UW ITECH**] [**FELLOWS**] [**VOLUNTEERS**] [**OPEN**]

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### Support for Improved Cohorts
Simplification of Cohort Module; adding support for user access control; support for dynamic vs static use cases.

[**BROWN**] [**AMPATH**] [**OPEN**]

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### Support for Referral Orders

[**REGENSTRIEF**] [**VOLUNTEERS**]

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### Event Bus
Event bus so that when things happen, they trigger a new process(es) to start (e.g. patient finishes visit, needs to be moved from one Service Delivery Queue to another) - see OHRI example outlined here re Patient State vs Workflow State

Interested: Ampath, UCSF?

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### Service Delivery Queue Support

[**REGENSTRIEF**] [**VOLUNTEERS**]

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### Access Control List support

[**REGENSTRIEF**] [**VOLUNTEERS**]

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### Reporting Framework iteration
Create a way for frontend to receive results of queries, e.g. dynamic patient lists.

[**AMPATH**] [**PIH**] [**MEKOM**] [**OPEN**]

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### Order Templates
Support for Order Sets (e.g. COVID assessment set)

[**REGENSTRIEF**]

Interested: Ampath

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### Additional Security Automated Test Coverage

[**UW ITECH**] [**FELLOWS**] [**VOLUNTEERS**] [**OPEN**]

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Timeline estimates (e.g. Q1/Q2/H1/H2 etc) are subject to dynamically changing resources in our opensource community. They refer to 2021, and the calendar year timeline, with Q1 ending when April begins.
1. CARE. User Experience: Improve patient-centered care delivery and give care providers a great user experience

Modern UI that's easy for devs at different levels to contribute to, driven by a professional design process that prioritizes Point of Care user experience.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Friendly, Modern UX in RefApp v3.0</td>
<td>Create a better means for building out a shared UI. Modernizing the entire RefApp frontend, using Carbon Design System for UI consistency and faster dev value. Needs to become a Point of Care application, that's modern, friendly, and works well on tablets.</td>
<td></td>
<td>HEALTHY</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>info Rationale for Carbon Design System</td>
<td>info Carbon Design System</td>
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<tr>
<td>Rapid Design System</td>
<td>MFE squad using Carbon Design System in all new 3.0 UI designs &amp; dev work.</td>
<td></td>
<td>HEALTHY</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Always welcome clinical test users</td>
<td>view Designs configure GitHub Repos</td>
</tr>
<tr>
<td>Patient Chart</td>
<td>End-to-end support for HIV Outpatient Workflow; pilot plan April 2021</td>
<td></td>
<td>HEALTHY</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Always welcome clinical test users</td>
<td>view Designs configure GitHub Repos</td>
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<tr>
<td>Medication Order Entry</td>
<td></td>
<td>HEALTHY</td>
<td>dataGridViewCellStyle1</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Always welcome clinical test users</td>
<td>view Designs configure GitHub Repos</td>
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<tr>
<td>Lab Values Display</td>
<td></td>
<td>HEALTHY</td>
<td>dataGridViewCellStyle1</td>
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<td>AMPATH, PIH, Mekom</td>
<td>Always welcome clinical test users</td>
<td>view Designs configure GitHub Repos</td>
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<tr>
<td>In-Chart Search</td>
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<td>dataGridViewCellStyle1</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Always welcome clinical test users</td>
<td>Designs</td>
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<td>Offline Support</td>
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<td>dataGridViewCellStyle1</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Users for feedback</td>
<td>Following up with Medic Mobile about approaches</td>
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<tr>
<td>Smart Patient Lists</td>
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<td>dataGridViewCellStyle1</td>
<td>AMPATH, AMPATH, PIH, Mekom</td>
<td>AMPATH, PIH, Mekom</td>
<td>Other orgs interested in partnering</td>
<td>Talk post with latest approach</td>
</tr>
</tbody>
</table>

2. CONFIGURATION. Implementer Experience: Easier to build & deploy a distribution

Make life easier for implementers, and more efficient for developers.

<table>
<thead>
<tr>
<th>Project</th>
<th>About</th>
<th>Investable Solutions</th>
<th>Status</th>
<th>Current Supporters</th>
<th>Current Needs/Gaps</th>
<th>Learn More</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real-time Clinical Decision Support calculations</td>
<td>Will likely embed this work in Analytics Engine Squad</td>
<td></td>
<td>NOT STARTED</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 3. COMMUNICATION (OF DATA). Data Exchange: Easy, consistent, simplified Data Sharing across other systems & sites

Enterprise-ready integration with key health information systems, including different sites.

<table>
<thead>
<tr>
<th>Project</th>
<th>About</th>
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<th>Status &amp; Timeline</th>
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<th>Current Needs/Gaps</th>
<th>Learn More</th>
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</thead>
<tbody>
<tr>
<td>HL7 FHIR</td>
<td>Exchanging healthcare data in a widely-used, standards-based format, easing integration with external systems and products.</td>
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<tr>
<td><strong>FHIR Module</strong></td>
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<td></td>
<td>configure GitHub</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>HEALTHY</strong></td>
<td>Upgraded Module released. Next version underway.</td>
<td>UW Digi, Brown University, AM PATH, Google Cloud</td>
<td>Developers</td>
<td>video-filled Demo people Join /Contact</td>
</tr>
</tbody>
</table>

**Plug & Play Architecture**

Extensible, configurable and independently deployable frontend features. Get your frontend live and updated fast. Frontend architecture designed for extensible and configurable apps and widgets.

**Microfrontend Architecture**

AMPATH, PIH, Mekom

**UI Tools for Easy Configuration**

AMPATH, PIH, Mekom

**Rapid White Labelling**

AMPATH, Mekom, ThoughtWorks Volunteers

Designs & early feedback complete; Dev work starting Feb

**Platform & RefApp Maintenance**

Update core platform (the universally shared backend of OpenMRS) and the Reference Application (recommended bundle that creates a frontend) with necessary tech stack updates, bug fixes, and urgent feature requests.

**Platform 2.4 Release: Stack Upgrade**

Volunteers, PIH

Testing

downloaded Downoad 2.4.0

**RefApp 2.11.0 Release with module updates and urgent bug fixes**

Volunteers

Automated tests to reduce manual QA & uncertainty

downloaded Downoad 2.11.0

**Easier Deployment**

Modernized containerization. Plug & play. Build and deploy easily, both cloud based and on prem deployments.

**Dockerized Deployment**

Mekom, PIH

Dedicated DevOps time /stewardship

Update community documentation /conventions/culture on packaging

configure GitHub
<table>
<thead>
<tr>
<th>OpenMRS Dictionary Management</th>
<th>Tools for transforming OpenMRS data into a FHIR based warehouse</th>
<th>HEALTHY</th>
<th>Google Cloud, AMPATH, UW DIGI</th>
<th>configure GitHub info More people Join /Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLIR: Proof of concept using FHIR to extract Patient-Level Indicator data from OpenMRS</td>
<td>HEALTHY</td>
<td>Digital Square (via Notice D award), OMRS Fellows x2</td>
<td>configure GitHub info More people Join /Contact</td>
<td></td>
</tr>
<tr>
<td><strong>OpenMRS Dictionary Management</strong></td>
<td>Sharing concepts first (before forms &amp; reports possible) - semantic interoperability</td>
<td>GAPS</td>
<td>MSF, OCL, PIH, Volunteers, OMRS Fellow x1</td>
<td>configure GitHub info More video-filled Demo search-small Case Study people Join /Contact</td>
</tr>
<tr>
<td><strong>WebApp for terminologists to manage and share concepts across sites and organizations</strong></td>
<td><strong>GAPS</strong></td>
<td>REACT Developers, Product Managers</td>
<td>configure GitHub info More video-filled Demo download Demo people Join /Contact</td>
<td></td>
</tr>
<tr>
<td>Critical External Integrations</td>
<td>Easier data sharing from OMRS to DHIS2</td>
<td>GAPS</td>
<td>Volunteers, Google Summer of Code Implementer feedback</td>
<td>configure GitHub info More video-filled Demo download Demo people Join /Contact</td>
</tr>
<tr>
<td><strong>Early conformance testing for HIE data exchange via InstantOpenHIE</strong></td>
<td><strong>GAPS</strong></td>
<td>UW</td>
<td>configure GitHub info More video-filled Demo download Demo people Join /Contact</td>
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