Product Dashboard: Vision, Roadmap, & Projects

Our Product Vision & Top 3 Strategic Directions

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 have Great Tooling + Great Documentation to unlock scale to: Ensure patients get the right, timely, and appropriate care; Provide health workers with timely, accurate, and complete information; and, Give organizations data to improve the efficiency and quality of care delivery.

To achieve this vision, we need Strategic Directions to guide us now and in the future 5 years. Our top 3 Strategic Directions are:

- Our Product Vision & Top 3 Strategic Directions
- Product Roadmap
  - CARE: Pt Care & User Experience (via O3 - better data quality through better Point-of-Care UX)
  - CONFIGURATION (& Deployment):
    - COMMUNICATION:
      - Data Exchange
      - Maintenance & Core Support

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.

Product Roadmap

All of these items are:
- being conducted in a public community process, with involvement & investment from 2+ Organizations
- being shared with /omrs/5 facilitators, and are receiving some degree of dedicated support from OpenMRS Inc
- likely to provide wide community value (i.e. fit under the definition of "Shared Assets" for community)

To suggest an item for the Community Product Roadmap, simply contact Director of Product Grace Potma (grace@openmrs.org) - we'd love to hear about your priorities and current focus areas.

Skip to: CARE
Skip to: CONFIG (& Deploymt)
Skip to: COMMUNICATION (Data Exchange)
Skip to: MAINTENANCE

### CARE: Pt Care & User Experience (via O3 - better data quality through better Point-of-Care UX)

**PILOT**

**KenyaEMR with O3 Appointments + Queues:** ~Nov 9 2022, 2 small sites

**PALLADIUM**

**ICAP-Ethiopia:** OHR/3.0 Clinical Testing Go-Live, 2 small HIV sites (Q3 2022)

**ICAP-ETHIOPIA**

**UCSF-TAP**

**O3 Lab Orders, Lab Order Templates**

**ITECH**

**UCSF-TAP**

**Status:**

**IN DESIGN**

**Implement Patient Flags, & Tasks**

Initial designs here; we would like to get these done. First legs to support decision support. Prelim work by Palladium. Contact: JJ. Timeline: ~Q4 2022

**AMPATH**

**MEKOM**

**PILOT**

**3.x Pilot Uganda: Cervical Cancer, MCH, Family Health, Nov 2022**

**METS**

**UCSF-TAP**

**Merging the O3 Monorepos for better DevX**

**OPEN**
**Theming 3.x!**

- PIH
- AMPATH

(Some input from UCSF)

**Status:**

- DONE

**Ampath 3.x Live Test (Kenya): End to End Testing with Outpatient HIV Clinicians**

- AMPATH

**Status:**

- DONE

**Generic Encounter Widget**

Reuseable 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

**Status:**

- DONE

**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)

**Status:**

- DONE

**Appointment Management**

**For Facilities:** Configure what appointments are provided, and how they can schedule pts. stats, lists.

**For Providers:** Create, edit, update, scheduling decision support, cancel. Handling Mother-Child / multiple appointments smoothly.

**Status:**

- PILOT

**3.0 Design Patterns Project**

Expand the design assets & components currently in our Zeplin Styleguide into a more easily accessible, robust set of guidance that can be directly followed by designers and developers working on 3.x-related features.

- AMPATH
- SONDER

**Status:**

- IN DESIGN

**Autosave a Form Draft**

Interested: _______

**NOT STARTED**

**Print**

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

**NOT STARTED**

**Patient Lists: Automated (Cohort Builder)**

(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)

**Status:**

- IN DEV

**Target:**

- SEPTEMBER 22

**Referrals**

3.x UI to send and receive referrals.

**Status:**

- IN DESIGN

**Bed Management**

**OpenMRS Reporting UI**

Create a UI that would be able to run an existing report with parameters (if applicable), select the output format and download it

**Status:**

- IN DESIGN

**Team Communication**

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

**Status:**

- IN DESIGN

**Target:**

- SEPTEMBER 22

**NOT STARTED**
Adopted Carbon Design
Updated 3.x Frontend to use 3rd party design system. Result: Faster design & development outputs.

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

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.

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.

Offline Mode for CHWs / Outreach
Registration, Forms ready for field use offline

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

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, NCD Peer Support.

High Risk Patient Package
Package for collaborative care for higher-risk HIV patients.

Status: IDEATION
Target: SEEKING

Status: IN DEV
Target: SEPT '22
### 3.x Performance Enhancements

<table>
<thead>
<tr>
<th>MEKOM</th>
<th>ICRC</th>
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**Status:**

<table>
<thead>
<tr>
<th>IN DEV</th>
<th>SEEKING</th>
</tr>
</thead>
</table>

### CONFIGURATION (& Deployment): Faster Deployment

#### Iniz support for OCL & Dictionary Manager work
- **FELLOWS**
- **MEKOM**
- **PIH**

**Copy & Customize a CIEL Concept**

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

- **FELLOWS**
- **BROWN**

#### OCL Module: Multi-language support

Updating translations for concept updates or new subscriptions that have many languages.

- **FELLOWS**
- **BROWN**

#### Dictionary Manager webapp (aka OCL for OpenMRS)

MVP live for production use. See: [Intro video](#) and [demo video](#).

- **FELLOWS**
- **OCL**
- **MSF**
- **PHI**
- **REGENSTrief**

#### 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.

- **MEKOM**
- **AMPATH**
- **PALLADIUM**

#### Reactify & Carbonize O3 Form Builder

#### Community Feature Release Pipeline

#### Form Engine Harmonization: Angular /OHRI Shared React form engine

Update comparison doc; add fx to OHRI form engine; align on 1. RefApp currently rendering forms using the Ampath form engine blocker for using new builder in RelApp. Could we add config in meantime to choose which eng you want? Or new extension for Form display?

- **UCSF-TAP**

#### Use mappings in a form instead of the concept UUIDs

Goal: Demo a form that’s defined and rendered through mappings (not UUIDs). Eg if a country maps to OHRI concepts need ability to map.

- **PILOT**

#### 3.x Form Builder: UgandaEMR pilot

Easier way of generating forms, via UI. Provide label names + connect pre-defined concepts -> generates JSON file. Finding way to deploy JSON file (Hx of using XML).

- **METS**

#### Iniz support for Reports

Interested: **PIH**

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

| MEKOM | BROWN |

**OCL Module Improvements**
- Bug fixes related to error messages

| INTELLISOFT | FELLOWS | BROWN |

**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.

| AMPATH | PIH | |

**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)

- Input from: REGENSTRIEF, MEKOM, PIH, BROWN, OHRI/UCSF, ICRC, AMPATH

| Status: IN DESIGN |

**OCL OpenMRS Import feature**
An answer to “How do I get my legacy metadata into OCL?”

| REGENSTRIEF, PIH (testing) |

| Status: IN DEV |

**OCL Module: Diff Check workflow**
“Here’s what will change” UX/UI when subscribing.

| INTELLISOFT, FELLOWS |

| Status: IN DEV |

**OCL Module: Automated tests for different data types**

| FELLOWS, BROWN |

| Status: IN DEV |

**COMMUNICATION:**
Data Exchange
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.

Scale-ready ETL Pipeline to FHIR-based tools: Ampath pilot of Analytics Engine.

Mapping OpenMRS Order statuses to FHIR
Send a case report from OMRS system to a central repo.

Sending data to Central Repository for Case Based Surveillance
Send a case report from OMRS system to a central repo.

Lab Viral Load Data Exchange
Based off of FHIR IG. Proof of concept completed. More to be done for full data exchange of lab request and case report.

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)
<table>
<thead>
<tr>
<th>Lab Exchange</th>
<th>Maintenance &amp; Core Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get iSantePlus lab exchange module to work in OMRS-core (connects to id &amp; facility mgmt to i.d. right pt and right facility) (using FHIR-based workflows)</td>
<td>(Make it possible for implementers to build their features)</td>
</tr>
<tr>
<td>UW ITECH</td>
<td>AMPATH</td>
</tr>
<tr>
<td>BROWN</td>
<td>IN DEV</td>
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<thead>
<tr>
<th>DB Sync</th>
<th>Support Referral Orders</th>
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<tbody>
<tr>
<td>MEKOM</td>
<td>REGENSTRIEF</td>
</tr>
<tr>
<td>ICRC</td>
<td>VOLUNTEERS</td>
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<tr>
<td>IN DEV</td>
<td>3.X NEED</td>
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<table>
<thead>
<tr>
<th>Dockerizing development and deployment of OpenMRS</th>
<th>Improve Demo Data Module performance implications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best practices for OMRS development and deployment. Key to enabling Packages vision and CI.</td>
<td>Currently the DD Module causes slow startup times because of how patients are being created &amp; data loaded. Idea: Generate the data once in it's own docker container instead of generating every time we start an instance.</td>
</tr>
<tr>
<td>AMPATH</td>
<td>BROWN</td>
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<tr>
<td>IN DEV</td>
<td>NOT STARTED</td>
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<td>3.X NEED</td>
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<thead>
<tr>
<th>Event Bus</th>
<th>Access Control List support</th>
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<tbody>
<tr>
<td>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</td>
<td>MEKOM</td>
</tr>
<tr>
<td>Interested: Ampath, UCSF?</td>
<td>VOLUNTEERS</td>
</tr>
<tr>
<td><strong>API to get obs for Concept Trees</strong></td>
<td><strong>Audit Log for Views &amp; Updates</strong></td>
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<tr>
<td>-------------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>E.g. for Lab Filters/hierarchies. Method to get set of obs based on a concept tree.</td>
<td>We have no auditing around views. Updates: if a form is filled out multiple times, we'd only have information on the first time and the most recent update. Large project. (eg auditlog work stagnant) There are workarounds, eg Statistics Module, or by configuring the server to log URLs requests (Tomcat or the entry proxy)</td>
</tr>
<tr>
<td>Actively being used in the new Lab Trees feature!</td>
<td>Status: NOT STARTED</td>
</tr>
<tr>
<td>AMPATH</td>
<td>Orgs: SEEKING</td>
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<tr>
<td>MEKOM</td>
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<th><strong>Data Model to support Service Delivery Queues</strong></th>
<th><strong>Order Templates</strong></th>
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<tr>
<td>Support for dynamic vs static lists of patients.</td>
<td>Order Template Modelling E.g. Common Rx's</td>
</tr>
<tr>
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<tr>
<th><strong>Platform 2.5 Release</strong></th>
<th><strong>Order Sets</strong></th>
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<tr>
<td>• Support for Tomcat 7-9.</td>
<td>Support for Sets of anything that's order-able (e.g. COVID assessment set can contain Meds, Labs, Referrals...)</td>
</tr>
<tr>
<td>• Make Orders, Allergies, Diagnoses, and PatientState form recordable and encounter-able</td>
<td>REGENSTRIEF</td>
</tr>
<tr>
<td>• Administration via REST.</td>
<td>AMPATH</td>
</tr>
<tr>
<td>• User settings: store larger strings in DB.</td>
<td>3.X NEED</td>
</tr>
<tr>
<td>• Groundwork for future ReferralOrders support.</td>
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<tr>
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<tr>
<th><strong>REST API Test Coverage</strong></th>
<th><strong>Additional Security Automated Test Coverage</strong></th>
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<tr>
<td>OPEN</td>
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<thead>
<tr>
<th><strong>Thorough Test Coverage: Live OpenMRS QA Dashboard</strong></th>
<th><strong>RefApp 2.12 Release</strong></th>
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<tbody>
<tr>
<td>Automated Workflow Tests applied throughout products</td>
<td>38 of 42 modules updated. Includes the SPA module that unlocks Microfrontend capability.</td>
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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.