



CAPABILITIES OVERVIEW | 2026

AI Empowerment at Scale

*Bringing personal responsibility, compassion,
and digital sovereignty to healthcare.*

CTI-LifeHealth

Vision & Mission

VISION

A world where AI-powered insights make healthcare accessible, equitable, and sustainable for all.

MISSION

We bridge critical infrastructure gaps with precision medicine, real-time data, and scalable digital health solutions, empowering individuals, providers, and nations toward universal primary care.

The Gaps We Close

Billions of people face layered gaps in healthcare. LifeHealth was built to close them.

4.6B



The Access Gap

People lack access to essential health services.

Closed by **Passport** • **Telemedicine** • **Remote Monitoring**

800M



The Identity Gap

People have no legal ID, blocking access to healthcare and aid.

Closed by **X-Validator** • **Passport+**

2.1B



The Financial Burden

People face financial hardship from out-of-pocket health costs.

Closed by **Passport** • **Curated Marketplace** • **Care Coordination**

Most



The Visibility Gap

Health systems lack real-time data on outbreaks, supply, and workforce.

Closed by **CHIP** • **BIP** • **LifeLab**

LifeHealth is built to close these gaps as one connected platform.

PART ONE

The Platform

One integrated ecosystem, four connected apps.

MICRO

Passport

People & Families

MICRO

Nexus

Providers

MESO

CHIP

Facilities

MACRO

BIP

Systems

From the family wallet, to the facility, to the nation.

One Platform. Connected Ecosystem.

GOVERNMENTS

Policy | Planning | Universal Health Coverage

DATA AND INSIGHTS LAYER

AI | Disease Surveillance | Population Health | Analytics

PROVIDERS

Hospitals | Clinics | Telemedicine

COMMUNITY HEALTH

Workers | NGOs | Field Data | Remote Monitoring

PATIENTS AND COMMUNITIES

Digital Health Wallet | Records | Telehealth | Monitoring | Wellness

MULTILINGUAL · ACCESSIBILITY · OFFLINE

Offline-first | Low-bandwidth ready | Inclusive UX

DELIVERED THROUGH FOUR APPLICATIONS

Passport

For People and Families

- Health wallet on any smartphone
- Chronic disease follow-ups
- AI medical assistant
- Families own their data

Nexus

For Providers and Clinicians

- Verified patient access
- Vitals, vaccines, notes
- Telemedicine with MedWand
- AI clinical documentation

CHIP

For Clinics and Hospitals

- Complete clinical workflow
- Offline first, two-hour training
- Pharmacy and supply chain
- Works with WHO systems

BIP

For Government and Donors

- Real-time dashboards
- Resource and disease mapping
- Outbreak detection
- Equity and accountability

Meet VIMA

VIRTUAL INTELLIGENT MEDICAL ASSISTANT

*One AI agent.
Three platform layers.*

Micro — Passport · Nexus Summarizes records, personalizes care, recommends next best action.

Meso — CHIP Clinical decision support and predictive demand for facilities.

Macro — BIP Anomaly detection, outbreak signals, and pattern recognition at scale.



VIMA

The AI thread that runs through every layer.

Built with IBM watsonx

CTI-LifeHealth IP · IBM Platinum Partner

PART TWO

Inside the Platform

A walk through the capabilities, layer by layer.

MICRO — Passport · Nexus → MESO — CHIP → MACRO — BIP

People and families · Providers · Facilities · Systems and nations

Digital Health Passport: People & Families



Genomics

Genetic insights paired with counseling.



Data Dashboards

Personal and family-level health views.



Records & AI Concierge

Download, summarize, and act on records.



E-Commerce

Curated wellness marketplace.



Facility & Community Health

Connected circle of care.



Remote Monitoring

Therapeutic and continuous condition tracking.



Telemedicine & Consultations

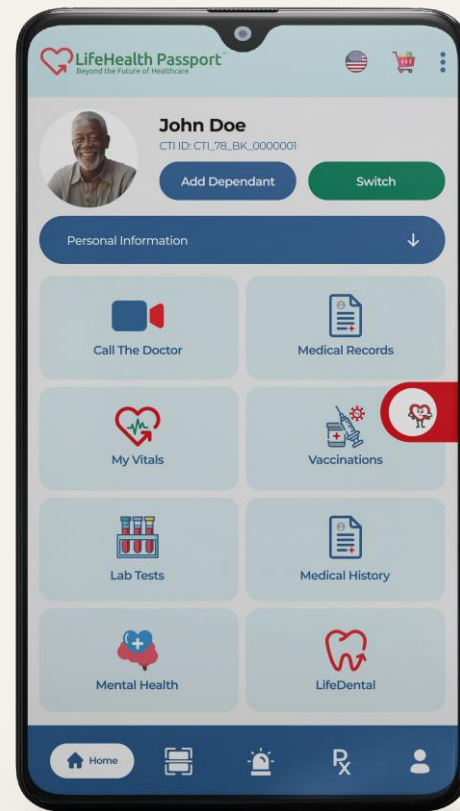
Primary care and specialist access.

***One wallet.
Seven capabilities.
Lifelong reach.***

Patient-Owned Health Accounts

Portable, lifelong, family-centered health assets.

LifeHealth Passport makes the vision real: global health equity, with families in control of their own health data.



Import. Integrate. Share. Act.

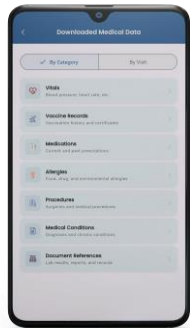
An extension of care into the home.

01



Import / Upload

Download from existing systems or upload your own.



02



Integrate

All data in one secure, family-owned wallet.



03



Share

Consent-based sharing via time-boxed QR.



04



Act

VIMA AI summarizes, analyzes, and helps you act.



X-Validator: identity you can stand behind.

Every clinical interaction depends on a simple question — is this really the patient, the clinician, the caregiver they claim to be? X-Validator answers it in seconds, embedded directly into LifeHealth Passport and Nexus, by pairing government-issued ID with a live biometric face match.



Document verification

Government-issued IDs (driver's licence, passport, national ID) captured, parsed, and authenticated against issuing-authority data.



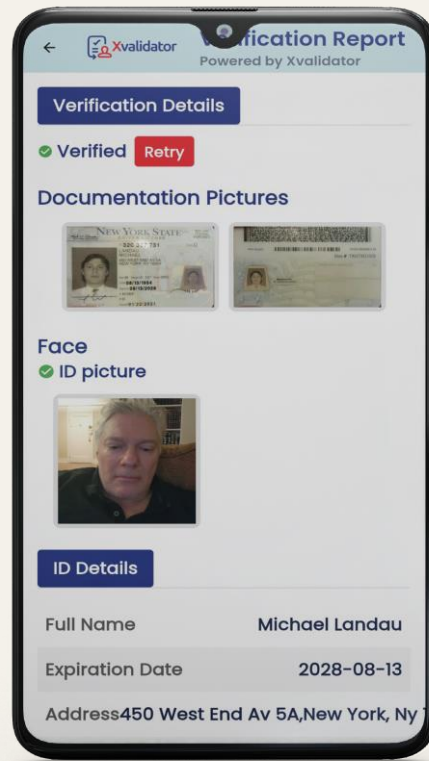
Live biometric match

A live selfie is matched against the photo on the verified ID to confirm the person presenting the document is its rightful holder.



Step-up reverification

Same flow re-runs when stakes rise — script pickup, controlled records, cross-border consult — without re-onboarding.

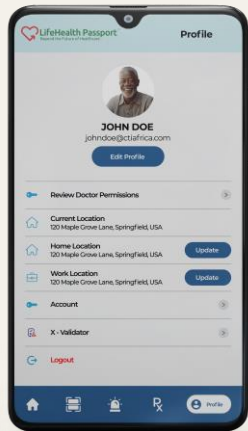


Verification report — cryptographically signed, audit-ready.

From profile tap to verified identity.

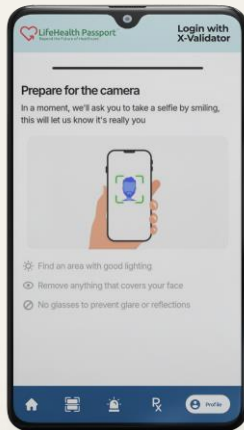
X-Validator lives inside the LifeHealth Passport app. The patient launches it from their profile, follows a guided capture flow, and the system returns a verified identity record in seconds — usable across Nexus and partner clinical workflows.

1 Launch



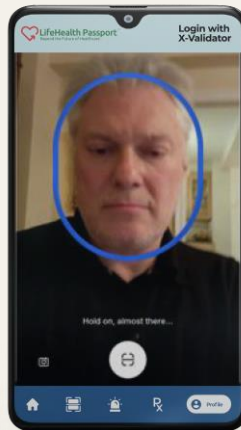
Patient opens X-Validator inside their LifeHealth Passport profile.

2 Guided prep



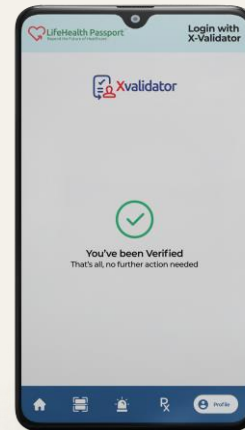
Prompts on lighting, framing, and obstructions before the camera opens.

3 Capture & match



Liveness-checked selfie captured and matched against ID document on file.

4 Verified



Identity confirmed against database. Verification record issued automatically.

Every clinical action, identity-bound.

X-Validator does not stop at the door. Embedded as Auto Capture inside LifeHealth Nexus and Passport, it stamps every vital reading, vaccine record, and clinical entry with a verified identity, the current time, and a geo-tagged location — turning routine documentation into evidence-grade data.

Time, date, and location captured automatically

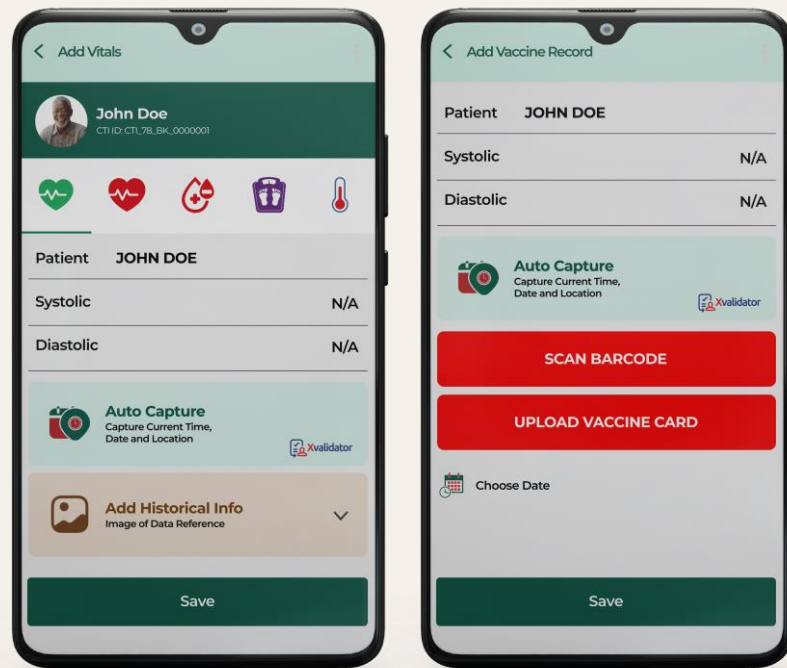
When a provider records a vital or vaccine, Auto Capture writes the precise moment and place of capture — no manual entry, no after-the-fact reconstruction.

Tied to the verified identity on file

Each entry carries the X-Validator-confirmed identity of the patient and the provider, so authorship and consent are never in question.

Audit-ready by default

Records meet the chain-of-custody bar required by regulators, payers, clinical trials, and cross-border health authorities.



Add Vitals — Auto Capture stamps the reading. Add Vaccine Record — same flow, every entry.

Nexus: a complete clinical workstation in your pocket.

LifeHealth Nexus is the provider companion to LifeHealth Passport. It gives doctors, nurses, and community health workers a single mobile app to access verified patient records, capture vitals and vaccinations, run telemedicine consults, and document care — anywhere they meet the patient.



Consented patient access

Search by name or CTI ID, request consent in-app, and only see records the patient has approved.



Capture at the point of care

Vitals, blood type, vaccinations, prescriptions, and lab orders — all entered directly into the patient's verified record.



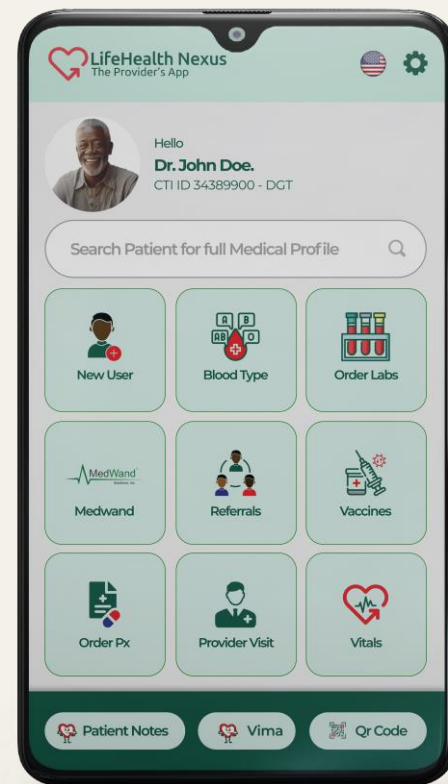
Integrated telemedicine

MedWand sessions surface heart, lung, ECG, temperature, pulse, and dermatoscope readings inside the same workflow.



AI-assisted documentation

Voice-to-note clinical recording with structured fields ready for review, signing, and downstream coding.

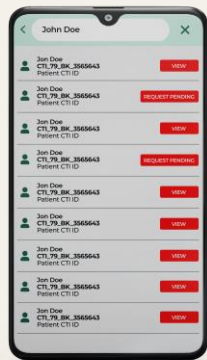


The Nexus home screen — every clinical action one tap away.

From search to verified record, with consent at every step.

Patient data in Nexus is gated by explicit consent and X-Validator-confirmed identity. Providers find the right patient, request access, and see only what the patient has authorized — across vitals, vaccinations, labs, prescriptions, and clinical history.

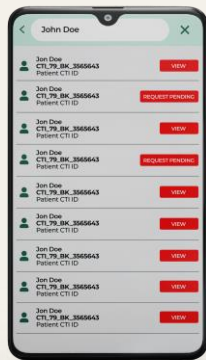
1



Search

Provider searches by name or CTI ID across the LifeHealth network.

2



Consent

Records the provider isn't authorized to require an in-app consent request.

3



Profile

Approved access surfaces verified vitals, demographics, and clinical tiles.

4



Records

Health Status Report aggregates BP, SpO₂, pulse, vaccinations, and prescriptions.

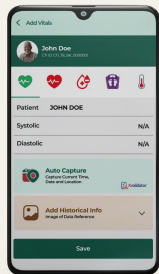
VERIFIED Identity confirmed by X-Validator before any record opens.

CONSENTED Patient grants and revokes provider access record-by-record.

AUDITABLE Every view, write, and consent action is logged and time-stamped.

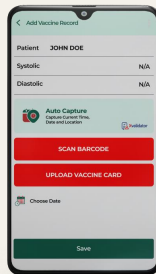
Every clinical workflow, in one app.

Nexus replaces the patchwork of clipboards, paper forms, and disconnected devices providers carry today. Each capability writes back to the same verified patient record, so nothing is lost between visits, locations, or providers.



Vitals

BP, SpO₂, pulse, weight, temperature — auto-stamped with time, date, and X-Validator location.



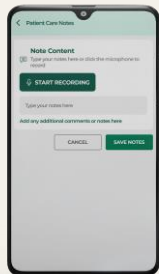
Vaccine record

Scan vaccine barcodes or upload cards. Records flow into the patient's vaccine pass.



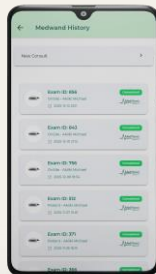
Vaccine status

Traffic-light view of what's taken, what's missing, and what's recommended.



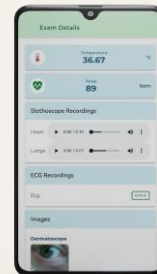
Care notes

Voice-recorded or typed clinical notes are saved against the encounter.



Consult log

Telemedicine consult log with searchable, replayable exam records.



Exam details

Stethoscope, ECG, dermatoscope, temperature, pulse — captured in a single session.

ONE RECORD Every action a Nexus user takes — vital, vaccine, note, scan, or consult — writes to the same verified patient record in LifeHealth Passport.

Telemedicine and Remote Consultations



Primary care and specialists



Insurance and self-pay

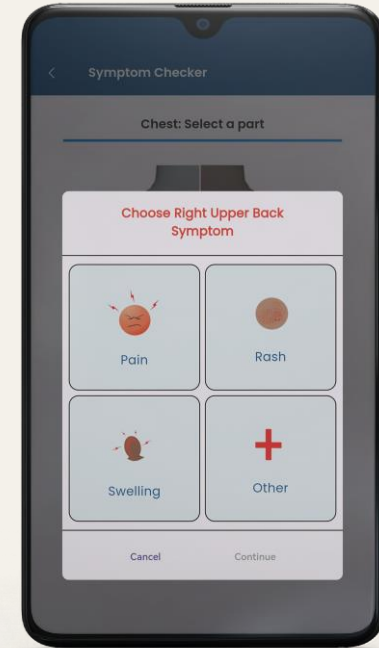
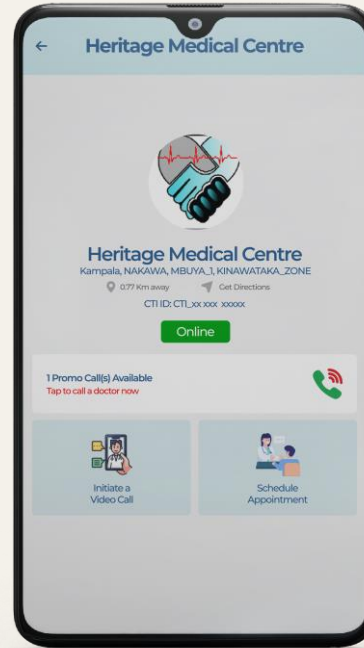


Culturally responsive



AI-powered automation and digital delivery

*Minimizes infrastructure costs.
Scales quickly. Generates revenue efficiently.*

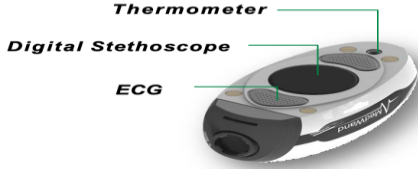


Powered by Doctegrity

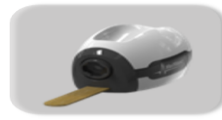
Remote Patient Exams & Monitoring



The MedWand Device



Multiple Attachments:





Integrates Data From Bluetooth 3rd Party Devices Such as:

Blood Pressure (ForaCare & Omron)	Glucometer (ForaCare & Accu-Check)	Spirometer (CMI)
Weight Scale (ForaCare)	12-lead ECG (QT Medical)	Ultrasound (Discussions with VAVE)

8+ medical tools · Multiple attachments · HIPAA compliant · SOC 2 ready

Centralized Personal & Health Records

Search LIFEHEALTH...

History > Profile - MICHAEL LANDAU

Profile Overview Patient Visit History Billing Vaccination Health Status Settings

Vitals

Blood Pressure 147/92 mmHg

SpO2 93 %

Pulse 100 bpm

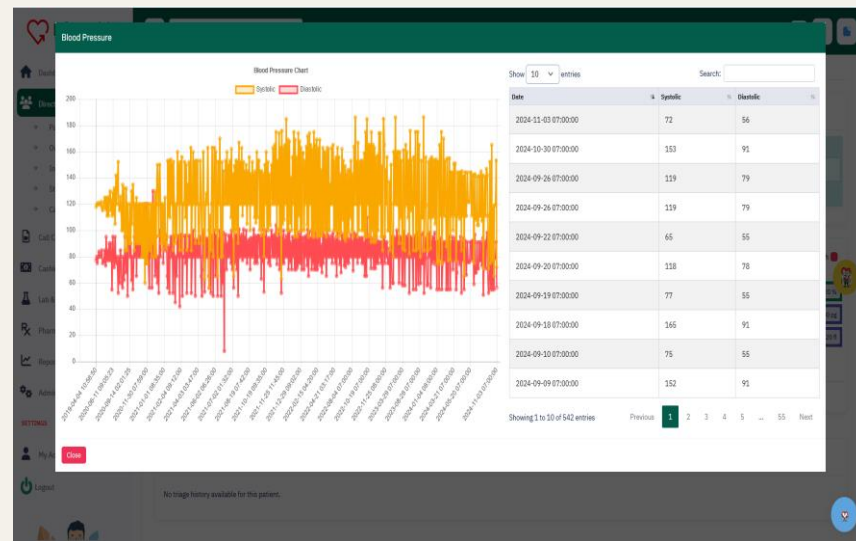
Weight 84 kg

Height 178 cm

Blood Sugar 85 mmol/L

Lab Results

WBC	14.40 $10^9/L$	LYM	7.84 $10^9/L$	MID	0.75 $10^9/L$	GRA	5.02 $10^9/L$	LYM%
GRA%	40.40 %	RBC	3.69 $10^{12}/L$	HGB	8.80 g/dl	HCT	26.63 %	MCV
MCHC	32.90 g/dl	RDWc	15.00 %	RDWs	30.80 fL	PLT	298.00 $10^9/L$	PCT
PDWc	41.00 %	PDWs	11.80 fL	P-LCC	99.00 $10^9/L$	P-LCR	33.15 %	



Reduces administrative cost. Streamlines data management. Enables scalable, efficient care coordination.

Powered by Rothschilds

E-Commerce

Curated wellness marketplace

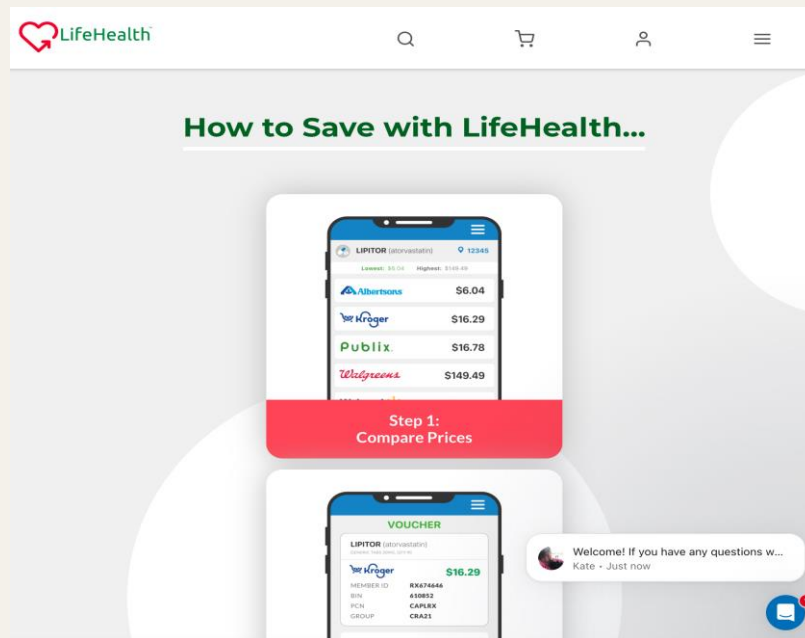
Rx, OTC, devices, and home care, all in one place.

Frictionless delivery

Rx, OTC, and devices tied directly to care plans.

Care-plan integrated

Purchases connect back to the patient record.



LifeHealth Passport+ Genomics



Actionable results across key health domains



Integrated into the Passport+ ecosystem



Genomic insights paired with video counseling



Designed for access, affordability, and scale

COMPREHENSIVE COVERAGE

Cancer

Heart

Neuro

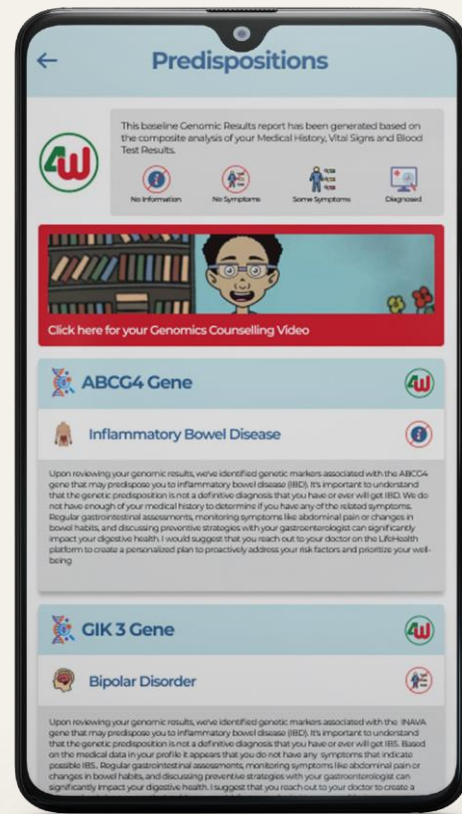
Diabetes & Obesity

PGx

Carrier Screening

Thyroid

Equity at scale: affordable genomics for the underserved.



CHIP: Community Health Platform



Lightweight EMR rails: Intake, vitals, referrals, labs, pharmacy.



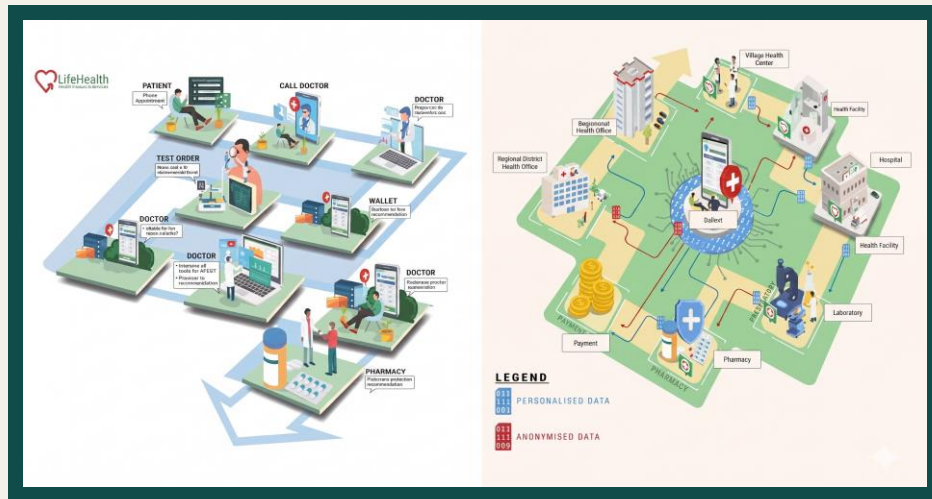
Offline-first: Integrates with DHIS2 / OpenMRS.



Training in under 2 hours: "No Double Entry" pledge.



Drives seamless adoption: Reduces burden, improves flow.



Built for low-bandwidth realities. Designed for the people doing the work.

Inventory, Capabilities, Integration



Inventory Management

Real-time inventory intelligence.

Real-time stock tracking

Medicines, supplies, equipment across facilities.

Automated reorder alerts

Reduce stockouts and waste at every level.

Expiry management

Prevent waste from expired medications.

Cross-facility visibility

Stock pooling and redistribution between sites.



Platform Capabilities

Operational backbone, beautifully integrated.

Lightweight EMR rails

Intake, vitals, referrals, labs, pharmacy.

Offline-first architecture

DHIS2 / OpenMRS integration; low-bandwidth ready.

Rapid onboarding

Training under 2 hours. 'No Double Entry' pledge.

Supply chain transparency

Manufacturer to patient — auditable, end-to-end.



Ecosystem Integration

From patient encounter to procurement.

Passport

Patient data flows directly into clinical workflow.

VIMA AI

Clinical decision support and predictive demand.

BIP

Feeds government dashboards and procurement intel.

LifeLab

Diagnostic results link to records and stock.

CHIP is the operational backbone — from patient encounter to government procurement.

Clinical Data Engine

Order → Integrate → Normalize → Return



Bedside Lab Orchestration

Point-of-care test ordering Clinician-initiated orders from the encounter.

Multi-device specimen capture Glucometers, pulse ox, rapid antigen readers.

Offline-capable Syncs when connectivity returns. No data loss.

Automated result alerts Critical values push to provider and care team.



Hospital EMR Integration

HL7 / FHIR compliant Bidirectional with Epic, Cerner, OpenMRS, DHIS2.

LIS / LIMS connectivity Direct feeds into the patient record.

Result normalization engine Harmonizes units and reference ranges.

Audit trail and compliance End-to-end traceability; HIPAA / GDPR aligned.



Longitudinal Intelligence

Trend analysis over time Patient biomarker trajectory across encounters.

AI-powered anomaly detection VIMA flags abnormal patterns early.

Population-level insights Aggregate lab data feeds BIP dashboards.

Precision medicine pathway Genomic and lab data combined for support.



Patient / Provider Sync

Results to Passport Auto-populate the patient's wallet.

Consent-controlled sharing Time-boxed QR controlled by the patient.

VIMA explains results Plain-language guidance for patients.

Provider dashboard alerts Context and recommended next actions.

LifeLab™ closes the loop between diagnostics and care — patient-owned, provider-ready, AI-powered.

BIP: Business Intelligence Platform



Data dashboards For governments, NGOs, donors, facilities, insurers, and corporates.



Equity lens Rural / urban, gender, and income gaps.



Predictive intelligence Outbreak prediction, fraud detection, supply chain efficiency.



National-scale insight Equity, transparency, and preparedness for ministries and donors.



Powered by ESRI

Powered by ESRI

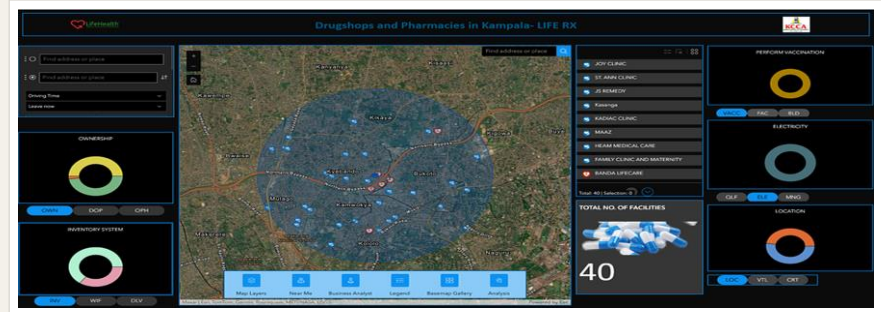
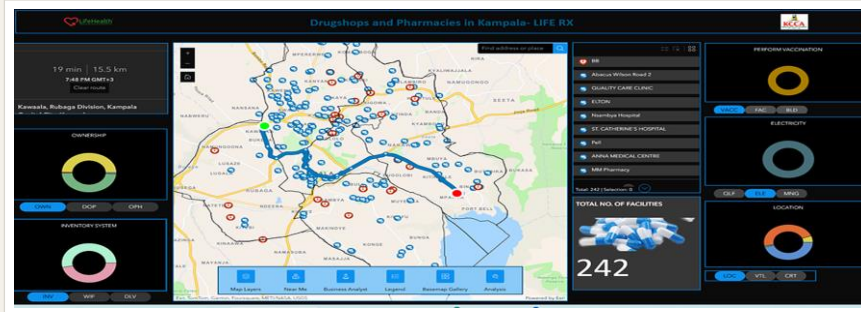
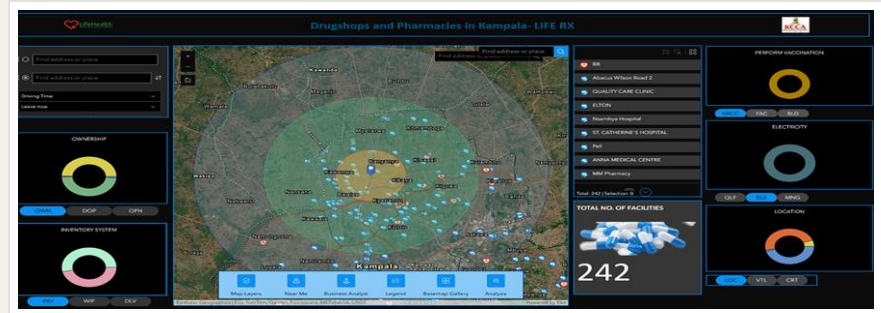
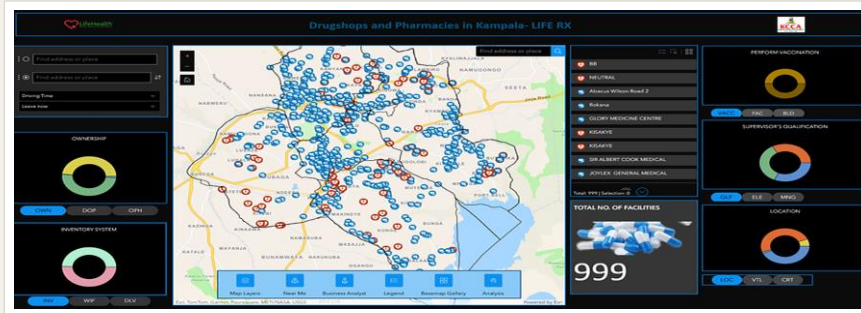
Central Command Center

24/7 real-time data sharing across stakeholders.

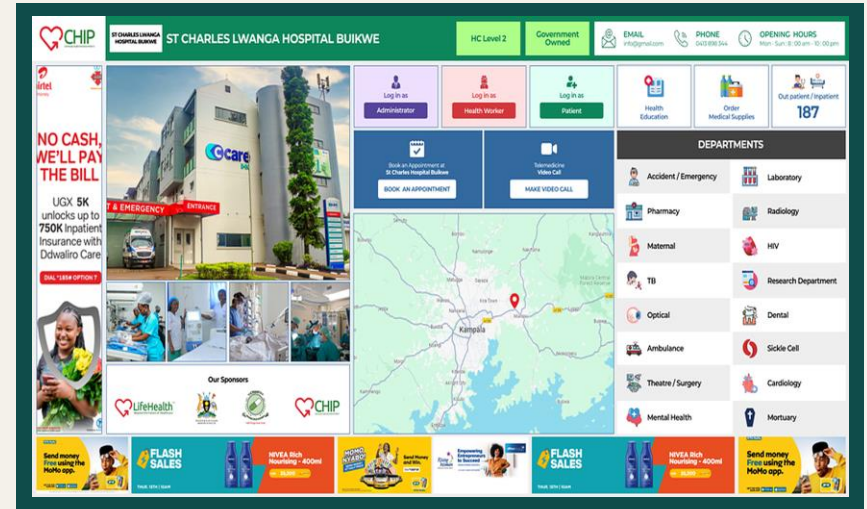
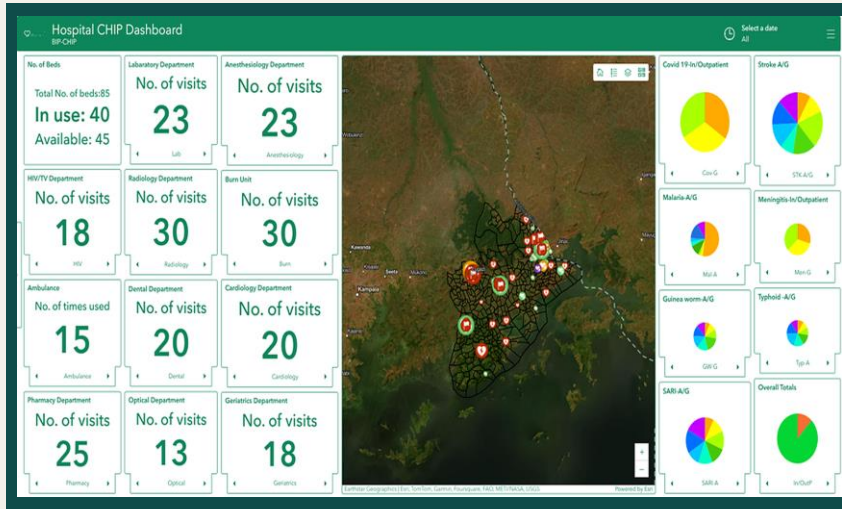


Logistics & Supply Chain

For facilities and manufacturers.



Facility & Population Health Management



Multi-layer dashboards for facility leaders, district health officers, and ministry teams.

Families Own Their Data

Providers stay compliant. Regulators see transparency.



HIPAA



**21st Century
Cures**



CMS



Consent Ledger

Designed to map cleanly to U.S. healthcare regulatory pathways and adaptable to global frameworks.

PART THREE

LifeHealth Insights Exchange

Health data, reimagined as ethical intelligence.

Opportunity · Architecture · Commercial Model

The Opportunity



Fragmented data Global health data remain underutilized.



Rising demand Real-world evidence and population analytics are increasingly valuable.



Unified records LifeHealth securely and ethically unifies multi-country records.



Insight engine Position evolves from a records repository into an insight engine.

Dual Data Pathways

PATHWAY ONE

Anonymized / Aggregated Data

- Epidemiology, predictive modeling, population analytics
- Public health, insurers, pharma, NGOs
- Low regulatory risk; subscription / API model

PATHWAY TWO

Consent-Based Identifiable Data

- Research and precision medicine
- Clinical trial recruitment
- Strict consent governance and traceability

Ethical Data Exchange Architecture

Patient data securely uploaded and consented.

LifeHealth Insights Exchange acts as the trusted intermediary.

01



Anonymization Engine

Removes identifying fields with auditable, repeatable rules.

02



Consent Registry

Time-bound, revocable permissions tied to each patient.

03



Data Ethics Dashboard

Real-time visibility into how data is used and by whom.

04



Partner Access API

Vetted partner endpoints with role-based access controls.

Fully GDPR and HIPAA compliant.

Market & Revenue Framework



Population Analytics Subscription access for policy makers and insurers.



Research Data Access Case-based contracts with pharma and CROs.



Data Infrastructure SaaS licensing for hospitals and ministries.



AI Model Partnerships Federated training on anonymized data with royalty arrangements.



Insight Dashboards Regional and disease-specific analytics subscriptions.

Proven Trust. Global Reach.



Trusted by global partners across AI, mapping, health systems, ministries, and humanitarian networks.

Robust Foundation



Five years of investment An interlocking portfolio of digital health tools and partner integrations.



Quality data foundations Worldwide resources; security, privacy, regulation in place.



Culturally responsive Language translations, ethnically diverse design.



Exceptional networking Governments, corporations, NGOs, global health networks, and partners.



Built in-house Owned IP with a clear path to patent filings.



Multi-channel access Cloud-based, Android, and iOS.



Deep market reach 20+ years bringing tech to underserved and specialized markets.

Validation in the Field

LifeHealth's capabilities are validated by funded programs, signed institutional agreements, and continental partnerships already in motion.

SECURED FUNDED PROGRAM

EU-Funded SINCEP-Africa Program

- €14M program with LifeHealth as essential infrastructure
- Only U.S. company in the program
- 13 countries, 16+ institutions, 3-4M under surveillance
- Partnership with EDCTP and Africa CDC
- Deployment starting soon

DEPLOYMENT PIPELINE

17 Named Entities Ready to Activate

- 7,972 facilities across signed agreements, MoUs, and LOIs
- 31.8M annual patients across Uganda, Kenya, and Nigeria
- Caritas Nigeria: 9.5M patients, 3,000 facilities
- Lagos++ States: 12M addressable, 3,500 facilities
- Astro Mobile, Q-AFYA (6M records), MTN (200M subs)

These deployments align with Smart Africa's continental digital health agenda and reflect proprietary, in-house technology purpose-built for these markets.

What Sets LifeHealth Apart

Six platform characteristics that define how LifeHealth operates in emerging markets.

01

Purpose-Built for Emerging Markets

Designed from the ground up for mobile-first, low-infrastructure environments. Runs on devices people already own.

02

End-to-End Ecosystem

Wallet, telehealth, EHR, facility management, analytics, and supply chain in one integrated platform. Not a point solution.

03

Deep Institutional Relationships

Governmental, faith-based, and multilateral partnerships cultivated over years. Trusted access across health systems and ministries.

04

AI-Driven Intelligence Layer

Predictive analytics, population health surveillance, and AI precision medicine built into the core.

05

Proprietary IP

In-house technology developed over years of platform investment. Mobile-first, offline-capable, multilingual architecture.

06

Validated at Scale

EU-funded SINCEP designation. Active deployment pipeline of 31.8M patients across 17 named entities and 7,972 facilities.

These characteristics define LifeHealth as the digital healthcare backbone for emerging markets — built for the realities on the ground.

PART FOUR

Leadership

The people behind the platform.

Founders · Executive Team · Global Advisory

Who We Are



Michael Landau, JD, MSc

FOUNDER, EXECUTIVE CHAIRMAN

Michael drives the vision of CTI-LifeHealth as an experienced social entrepreneur with over 20 years building digital and humanitarian solutions across Africa. He has cultivated deep partnerships with governments, multilaterals, and international institutions including the United Nations, World Bank, European Union, EDCTP, and Africa CDC. Michael has served on the Strategy Council of the UN Global Alliance for ICT and Development, and was a member of the UN Global Compact and UN Office for Partnerships.



Alvin Francis

CHIEF PRODUCT AND TECHNOLOGY OFFICER

Alvin leads product, engineering, and AI strategy at LifeHealth, driving the technology vision behind the company's mission to expand healthcare access across emerging markets. He brings more than 15 years of enterprise software leadership, spanning global engineering organizations, AI product innovation, and SaaS transformation at IBM and EXFO. A recognized builder at the intersection of AI and commercial execution, Alvin holds an MBA from the Ivey School of Business and an MASc in Electrical Engineering from the University of Toronto.

Global Advisory Board



David Landau, MD

Founder, London Oncology Clinic.
Senior Fellow, Policy Exchange, UK.



Rabbi David Rosen

Former Chief Rabbi of Ireland. Global AI
ethics leadership.



Ged Byrne, MD

Director of Global Health, HEE NHS.



Eliot (Lee) Sander

Former CEO, New York MTA. Former
President, Bombardier Americas.



Samir Suleymanov

Former World Bank and IMF Executive.



Hon. Abdulai Janneh

Ambassador, African Commission on
Human Rights.



Robert Redfield, MD

Former Director, US CDC. Global health
leader.



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