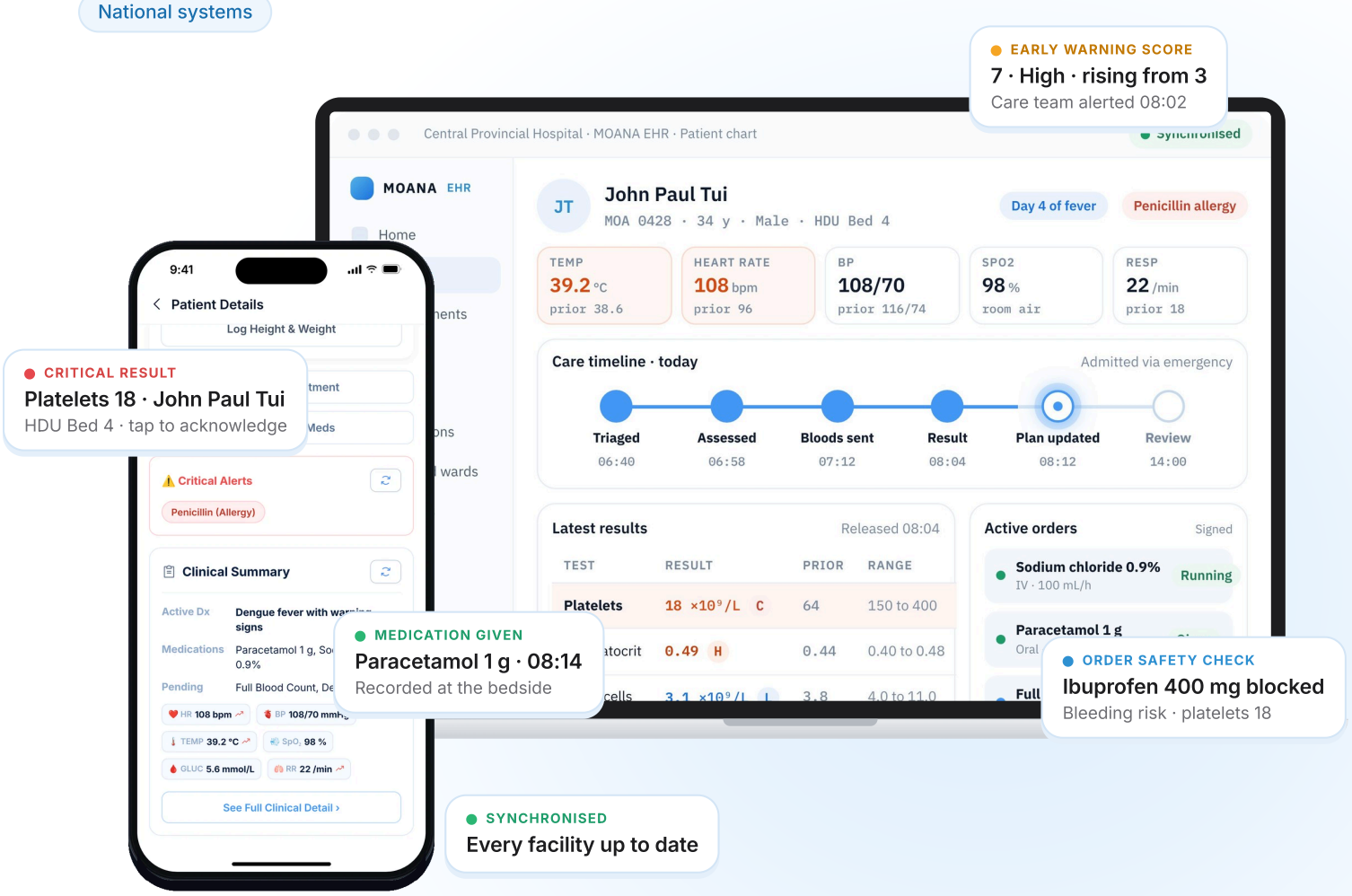
MOANA
Digital Health

# Unifying Healthcare.

One patient record for hospitals, clinics, laboratories, pharmacies and ministries of health, and the national systems built on it.

EHR | Laboratory | Radiology | Pharmacy | Mobile and Patient Access | National systems



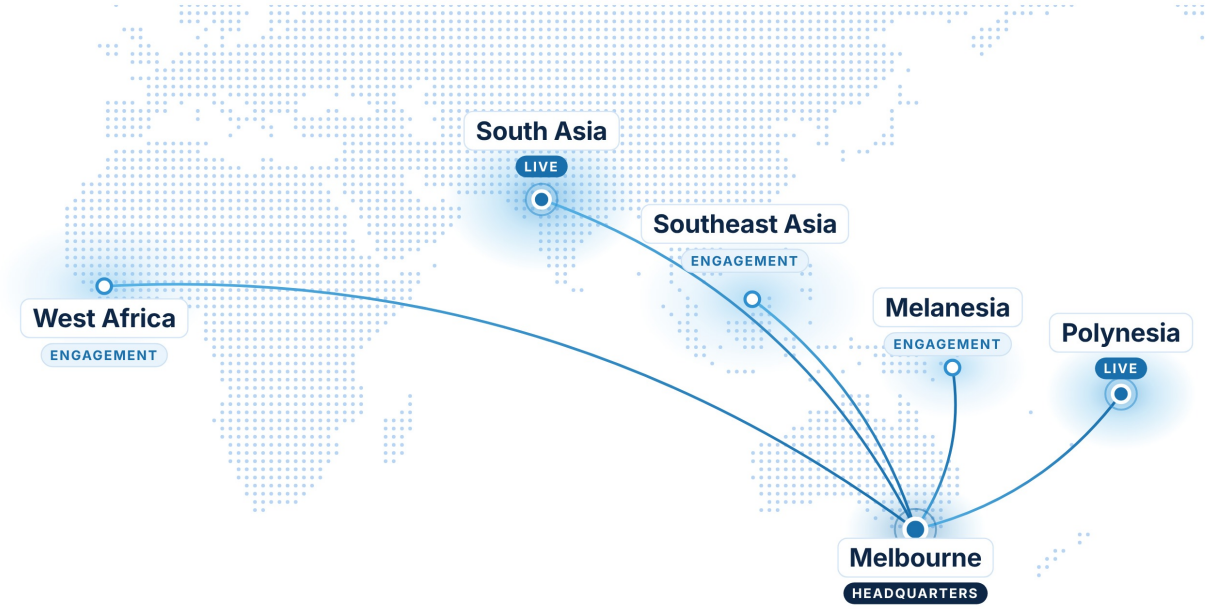

**Company profile**

moanadigitalhealth.com

Who we are

# Health systems deserve infrastructure built for how care is actually delivered.

Moana Digital Health is an Australian company that builds the clinical and national infrastructure health systems run on. One patient record connects clinical care, laboratory, pharmacy, radiology and patient access, and the national systems ministries rely on are built on that same record, not beside it.




**Pacific**
Melanesia and Polynesia · ministries, hospitals and clinics

**South Asia**
Clinics, laboratories and pharmacies

**Southeast Asia**
Health authorities and hospitals

**West Africa**
Ministries of health



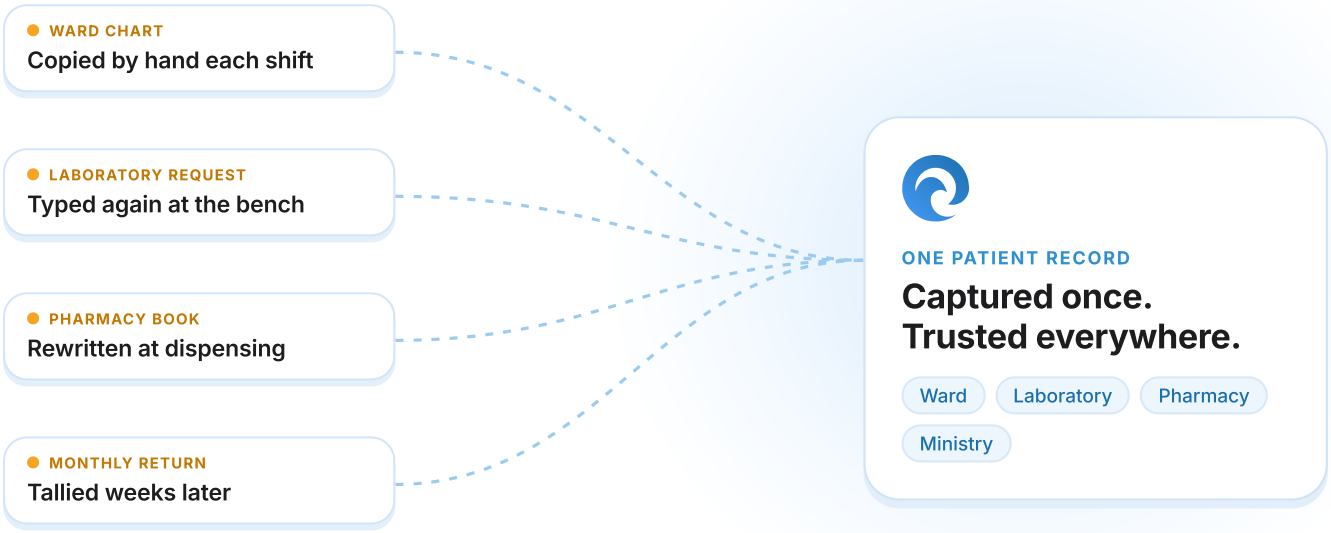
"We regard a health record as long term infrastructure, not a software purchase, and we deliver it with the rigour, accountability and continuity that responsibility demands."

**Wesley Semi** · Founder and Chief Executive Officer

The problem

# A patient's story, split across every system that touches it.

From teaching hospitals to district facilities, clinical information is captured repeatedly, reconciled by hand and reported late.




### For clinicians

The doctor writes it, the laboratory types it again, the pharmacy rewrites it and the ward copies it onto another chart. Hours go to documentation that never connects.

### For patients

Histories stay in the folder at the last facility. Results arrive late or not at all, tests are repeated, and every new clinician starts again.

### For ministries of health

Decisions on outbreaks, medicines and services rest on monthly returns compiled by hand, often months after the care they describe.

THE MOANA PRINCIPLE

**Captured once, at the point of care.**
**Trusted everywhere it is needed.**

The platform

# Every part of the health system, on one record.

Start with one application or deploy the whole platform. Each one joins the same patient record, identity and audit trail.

## CLINICAL CARE

- Patient registration
- Encounters and visits
- Outpatient clinics
- Emergency and triage
- Inpatient admission
- Intensive care and HDU
- Theatres and surgery
- Procedures
- Charting and vital signs
- Doctor orders
- Prescribing
- Care plans
- Clinical forms
- Specialty clinical forms
- Department consultations
- Referrals and replies
- Referral centre
- Remote clinics
- Decision support and AI
- Medical history

## PROGRAMMES

- Health programmes
- HIV counselling and testing
- STI clinic
- NCD screening

## NURSING AND WARD CARE

- Medication administration
- Early warning scores
- Blood transfusion
- Tasks and worklists
- Nursing command centre
- Shift handover
- Theatre preparation
- Ward supplies

## PHARMACY

- Dispensing
- Verification
- Pharmacist interventions
- Controlled drugs
- Antimicrobial stewardship
- Compounding
- Cold chain monitoring
- Recalls and quarantine
- Expiry and replenishment
- Purchase orders
- Suppliers
- Formulary
- Ward and store supply
- Regulatory returns
- Retail sales

## MOTHER, CHILD AND VITAL EVENTS

- Antenatal care
- Births and newborns
- NICU care
- Immunisation
- Growth monitoring
- Newborn and child cover
- Death registry
- Deceased and morgue
- Postmortem reports

## LABORATORY

- Laboratory orders
- Sample collection
- Test catalogue and panels
- Results and verification
- Reports and dispatch
- Quality control
- Critical value escalation
- Equipment and analysers
- Inventory and reagents
- Laboratory departments
- External laboratory orders
- Blood bank and donors
- Crossmatch and issue
- Laboratory billing
- Laboratory analytics

## RADIOLOGY AND IMAGING

- Imaging orders
- Worklists by modality
- DICOM image server
- Web image viewer
- Automatic study matching
- Cloud image storage
- Images in the record
- Radiology reports
- Secure access gateway
- External diagnostics

## PATIENT ACCESS

- Patient self registration
- Appointments
- Medicines
- Referrals
- Lab and imaging results
- Vaccinations
- Documents
- Mobile for doctors
- Mobile for nurses
- Health ID card and scan
- Secure messaging

The platform, continued

# Management, national systems and the foundations beneath.

Ministries, researchers and partner systems work from the same records clinicians keep, through open standards.

## HOSPITAL ADMINISTRATION

- Departments
- Department workspaces
- Department dashboards
- Beds, wards and rooms
- Appointments
- Calendar and schedules
- Facilities
- Facility service levels
- Reports and analytics
- Audit and activity logs
- Access control
- Platform administrators
- Integration monitoring
- Settings and time zones

## FINANCE AND BILLING

- Invoicing
- Fee schedules
- Packages
- Estimates and deposits
- Insurance and claims
- Payment plans
- Cashier shifts
- Credit notes and write offs

## WORKFORCE

- Staff and doctor profiles
- Rosters and shifts
- Roster optimisation
- My shifts
- Leave
- On call
- Shift swaps
- Live staffing levels

## CLINICAL RESEARCH

- Trials registry
- Trial setup and ethics
- Cohort builder
- Network feasibility
- Recruitment pipeline
- Candidate screening
- Criteria and versions
- Screening log
- Consent register
- Thumbprint consent
- Exports without identifiers
- Sponsor feasibility reports
- Research audit log
- Contact at registration
- Clinician trial alert
- Research tab in the chart

## SURVEILLANCE

- National overview
- Disease alerts and rules
- Disease mapping
- Trends
- Syndromic surveillance
- Programme indicators
- Facility reporting
- Patient surveillance
- Laboratory surveillance
- Pharmacy surveillance
- Billing surveillance
- AI insights and prediction
- AI narratives
- Duplicate patient matching
- Reports centre
- GP quick capture
- Ministry user security
- Multi country support

## INTEROPERABILITY

- FHIR R4 data hub
- SMART on FHIR
- HL7 v2 receiver
- HL7 to FHIR conversion
- Message log

## MEDICAL SUPPLY

- Warehouse supply
- Facility supply link
- Health system hierarchy
- National item master
- Tracer items
- Stock status and stockouts
- Health centre reporting
- Requisitions and approvals
- Supply planning
- DHIS2 link
- Finance system link
- Data quality and exports
- Offline mobile stock app

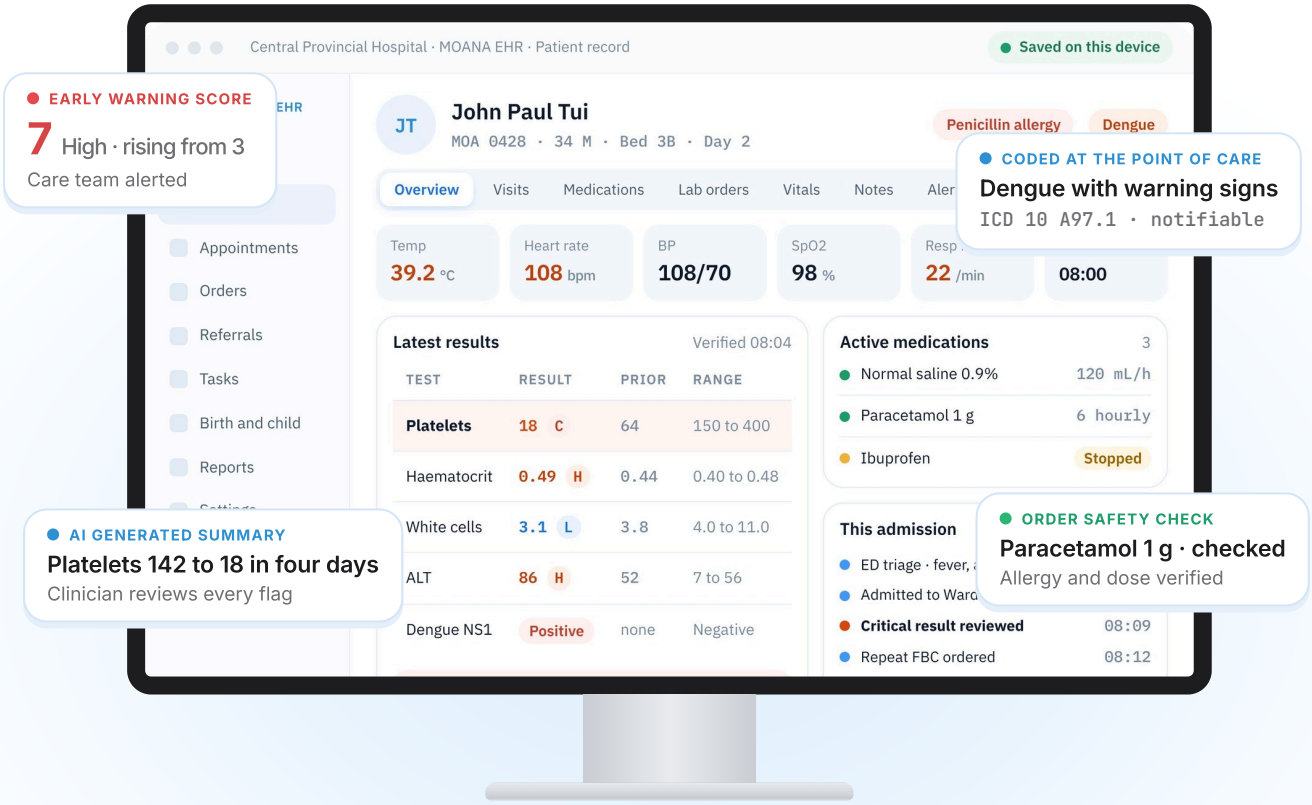
## PLATFORM FOUNDATIONS

- Master patient index
- Consented record sharing
- Clinical terminology
- Document generation
- Document scanning (OCR)
- Notifications
- Multilingual
- Offline sync
- Storage and backup
- Hosting choices

Clinical care · MOANA EHR

# The health record, from registration to discharge.

Outpatient, inpatient and emergency care on one record, with orders, results, prescribing and decision support. Clinicians review every flag the system raises.




### Outpatient, inpatient and emergency

Registration and triage through admission, transfer and discharge.

### Orders and results

Laboratory, imaging and medicine orders tracked to completion.

### Safe prescribing

Allergy, dose and interaction checks before a medicine is ordered.

### Referrals that close

Verifiable referral letters, with the reply returned to the sender.

### Care plans and notes

Structured notes, care plans and clinical coding in one chart.

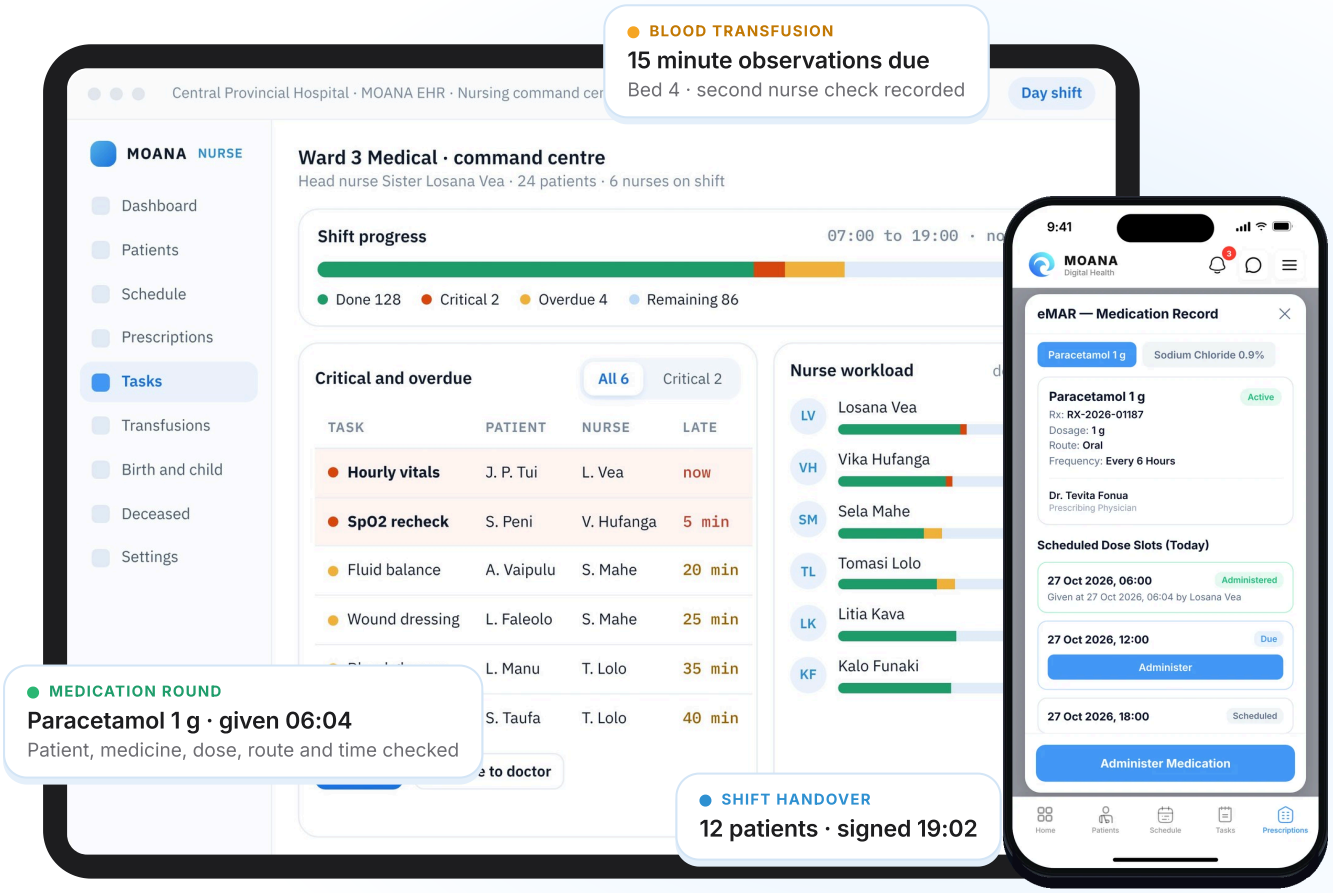
### Decision support and AI

Risk scores, alerts and summaries that support, never replace, clinical judgement.

Nursing and ward care

# Built around the people who deliver most of the care.

Nurses carry the record through every shift. Moana gives them the ward, their patients and the work that is due, with checks at the bedside and a clean handover at the end.




### Medication rounds

Given, held or missed, each with a reason and a time.

### Observations

Vital signs charted with early warning scores and escalation.

### Blood transfusion

Bedside checks, timed observations and reactions recorded.

### Tasks and handover

The work due on the ward, and a structured handover each shift.

### Beds and wards

Admissions, transfers and discharges on a live bed board.

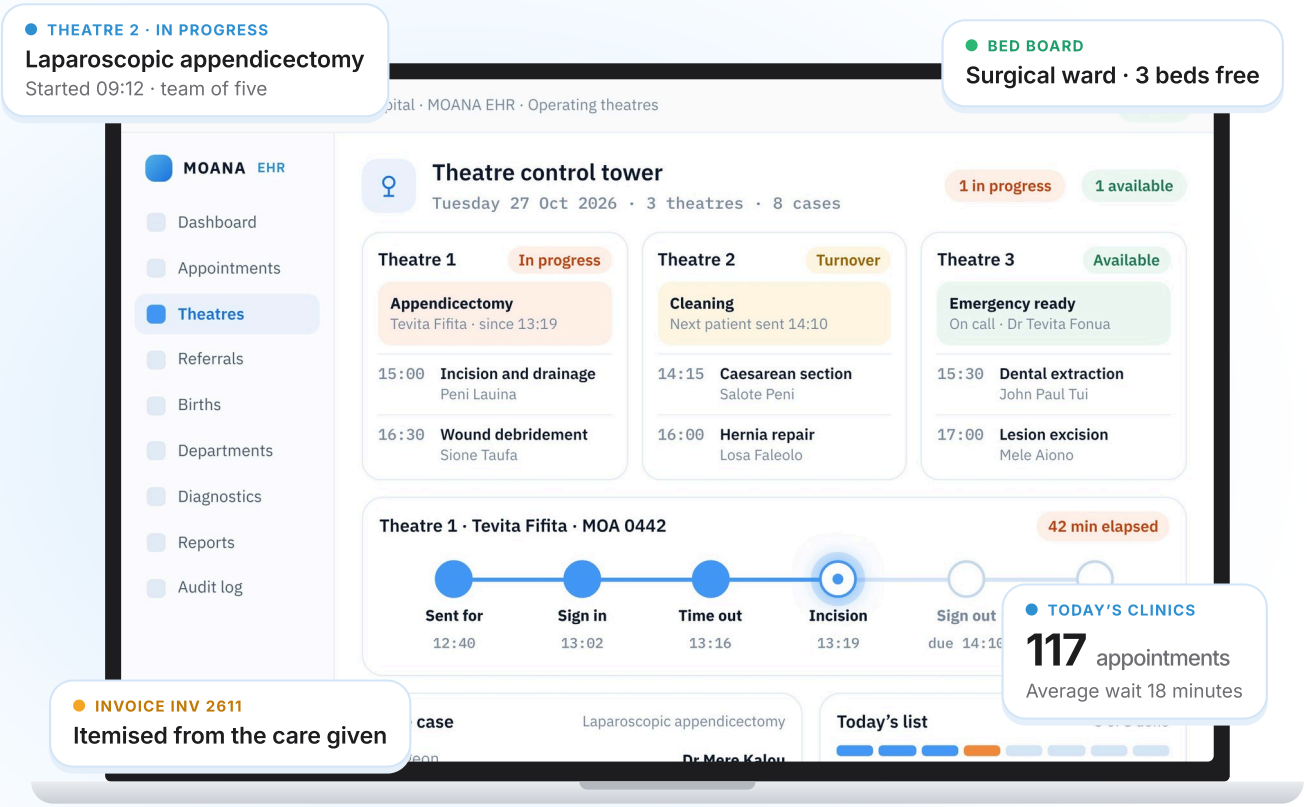
### At the bedside

The same work on a tablet or phone as on the ward computer.

Hospital operations and management

# Run the hospital from the same live data as the wards.

Theatres, appointments, departments, staff and billing work from the care that is actually being delivered, so managers see the hospital as it is today rather than as it was last month.




### Theatres

Lists, checklists, teams and operative reports.

### Appointments and queues

Bookings, check in and waiting times by clinic.

### Departments and staff

Departments, rosters, roles and access in one place.

### Billing and invoicing

Charges drawn from the care delivered, with payments and receipts.

### Reports and analytics

Activity, outcomes and clinical indicators by department.

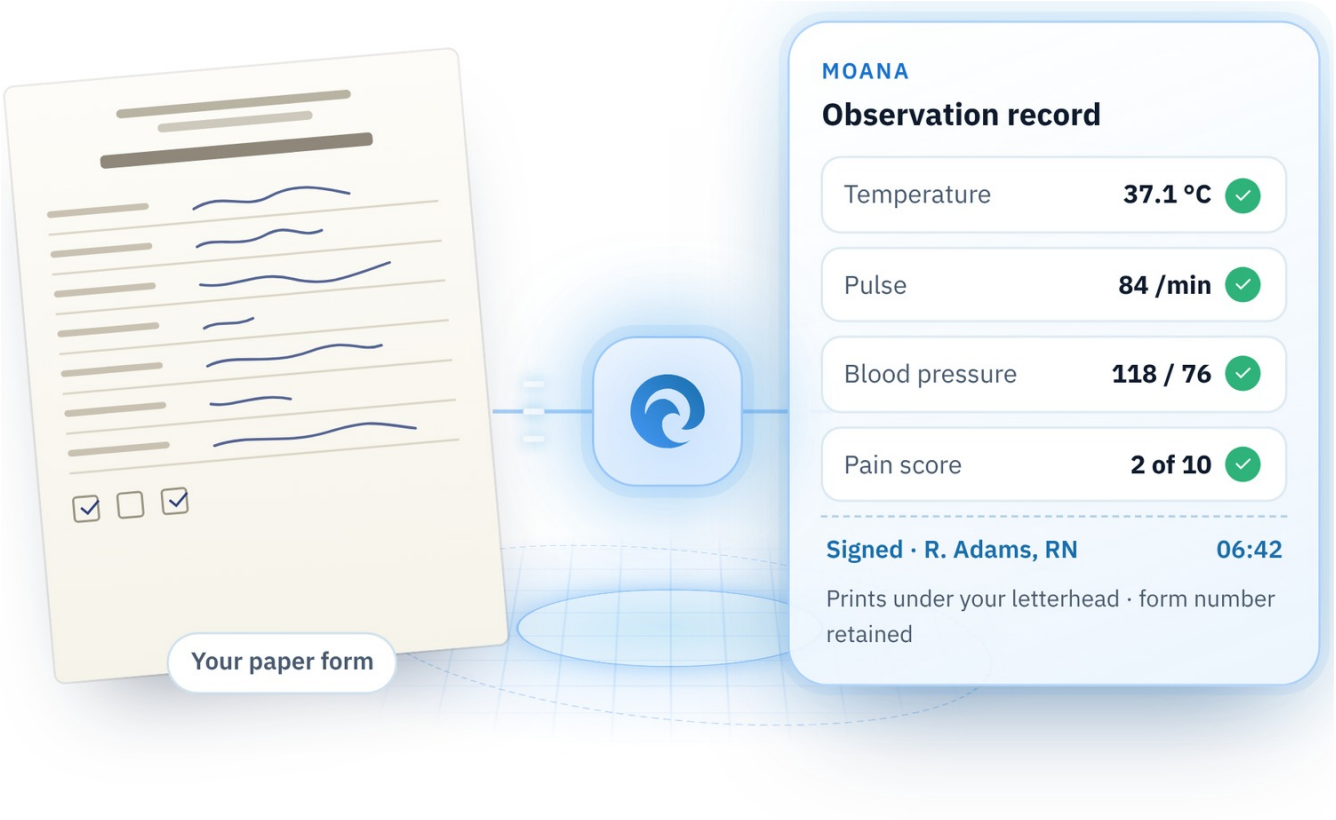
### Facility service levels

Features follow each facility's level, from a clinic to a referral hospital.

Specialty clinics and programmes

# Every clinic and programme, on the forms your staff already know.

Programme clinics keep their registers and returns from the same patient record. Each facility form is rebuilt field for field, with validation, signatures and timestamps, and still prints under its own letterhead and form number.




### HIV testing and care

Counselling, testing, treatment and the care register.

### Sexual health

Confidential records with restricted access.

### Tuberculosis

Directly observed treatment and follow up.

### Non communicable disease

Screening and review for diabetes and hypertension.

### Cancer registry

Cases registered from the clinical record.

### Specialty assessments

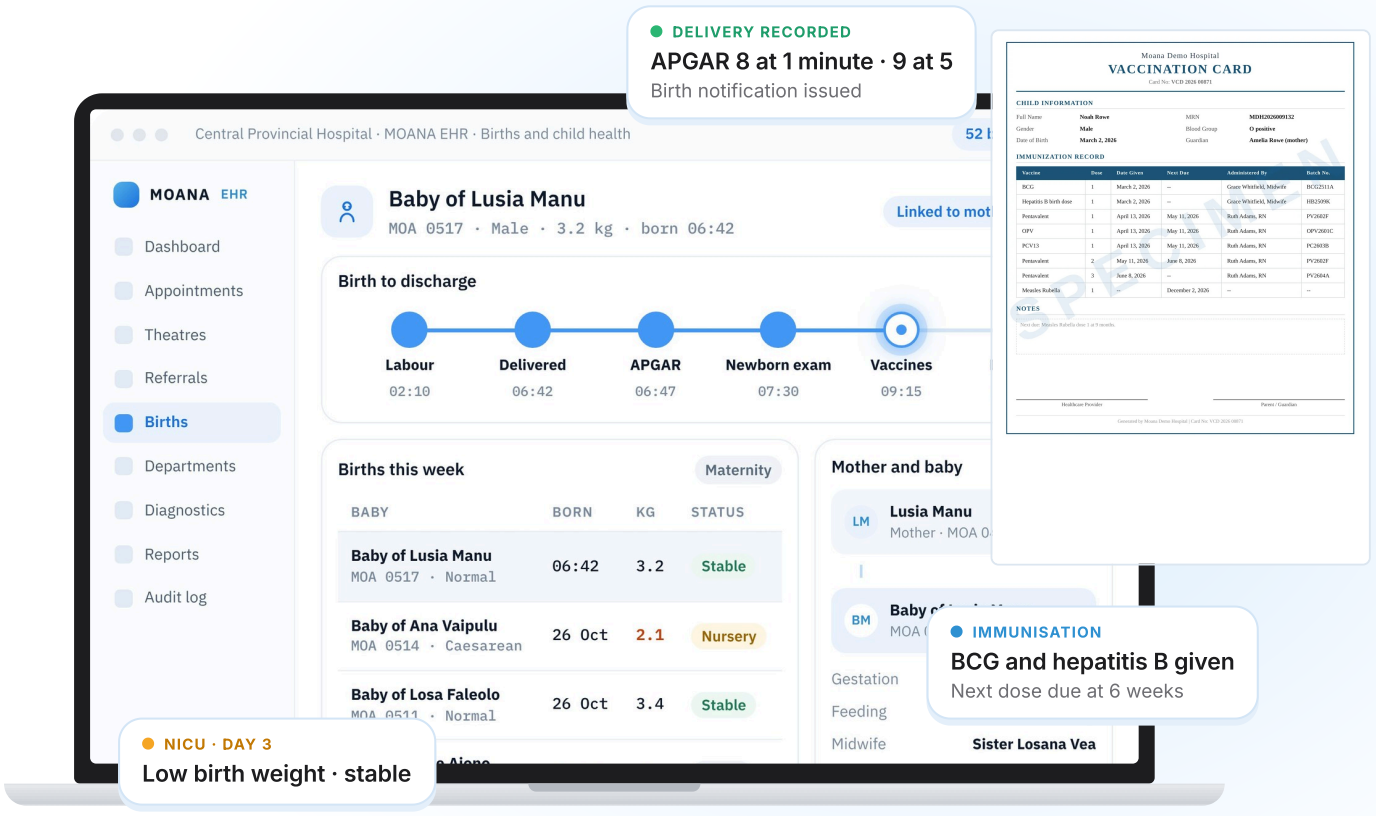
Cardiac, respiratory, neurological, ENT and mental state.

**Programme returns, compiled from the record.** Monthly returns are produced from the care recorded, so no one tallies registers by hand at the end of the month.

Maternal, newborn and child health

# From the first antenatal visit to the child’s vaccinations.

Maternal and newborn outcomes are among the first indicators a ministry reports, and the first to suffer when records break between the antenatal clinic, the labour ward, the nursery and immunisation. Moana keeps mother and child on one continuous record.




### Antenatal care

Visits, risk factors, tests and the birth plan, carried to the labour ward.

### Labour and delivery

Labour observations, delivery, APGAR scores and the newborn’s first record.

### Newborn and NICU

Special care admissions, feeding, growth and discharge.

### Immunisation and growth

Every dose and batch recorded, with growth charts and doses due.

Births, deaths and vital records

# Every life recorded, from birth registration to the death certificate.

Vital events are recorded where they happen and certified by the clinician responsible, ready for civil registration and national statistics. Most hospital systems stop at discharge. Moana carries the record to the end.




## Deceased management

Every step attributed and timed

- **Death recorded** — Date, time and circumstances
- **Verified** — Clinician and witness
- **Next of kin** — Informed and recorded
- **Morgue** — Body tracked to the bay
- **Certified and released** — Certificate and release

### Births and stillbirths

Registered and certified with the same care as every birth.

### Postmortem reports

Autopsy findings recorded against the deceased's record.

### Civil registration

Vital events ready for national registration and statistics.

Laboratory · MOANA LIS

# From sample to verified result, without a single transcription.

Requests arrive from the ward, samples are labelled at collection, analysers send results straight to the record and the requesting clinician sees them the moment they are verified. Available on its own for independent laboratories, or as part of the platform.




### Barcoded samples

Labelled at collection and tracked to the bench.

### Analyser integration

Results flow from instruments into the record.

### Quality control

Daily controls charted, with failed runs held back.

### Critical values

Flagged, communicated and acknowledged on record.

### Blood bank

Units, groups, crossmatches and issue records.

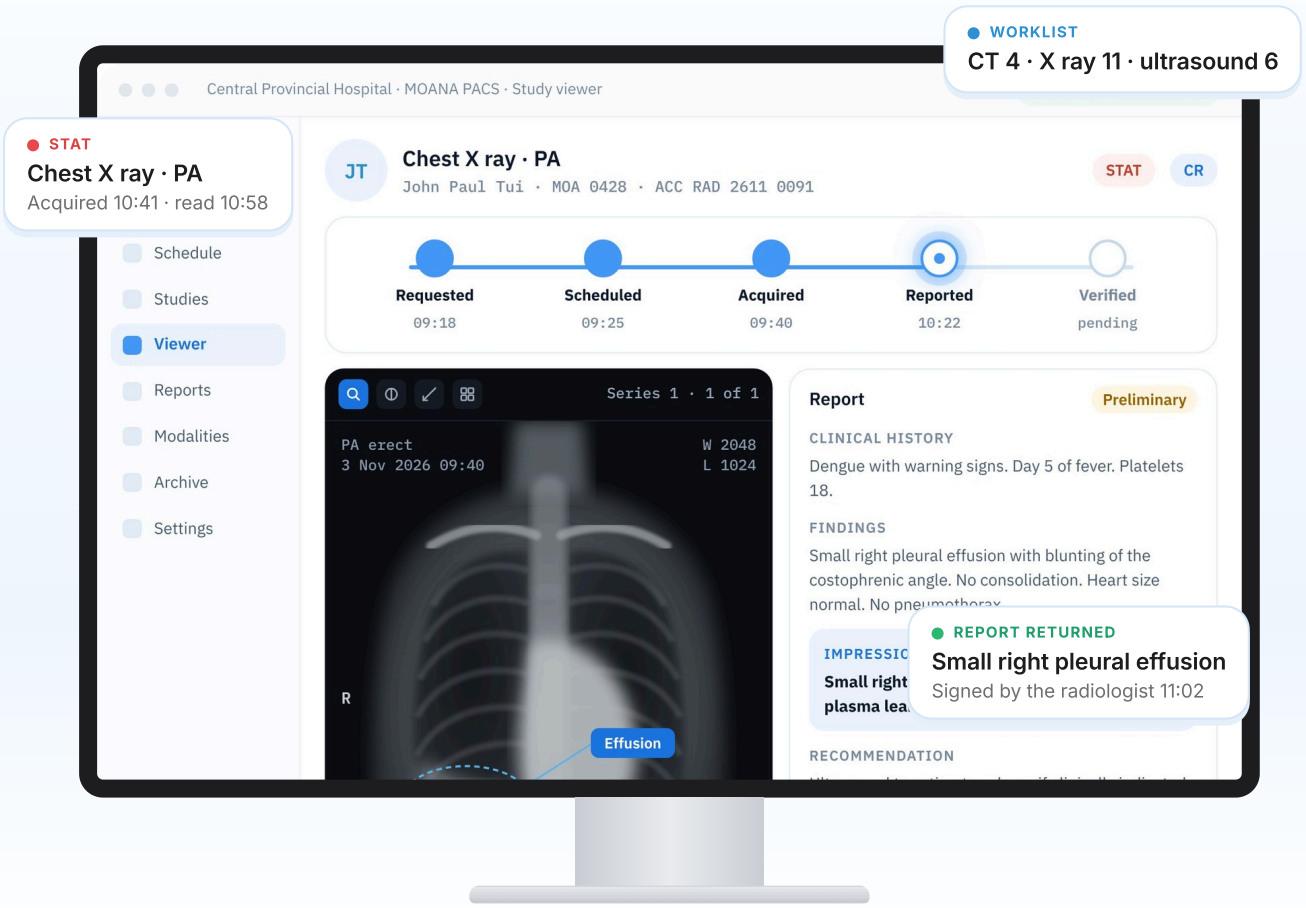
### Verified results

Released by a scientist and dispatched to the clinician.

Radiology · MOANA PACS

# Imaging ordered, acquired, read and reported on the record.

Worklists by modality and priority, DICOM storage with a viewer that runs in the browser, and reports returned to the clinician who asked. Moana can also connect to the PACS a hospital already runs.




### Worklists

Requests by modality and priority, from order to acquisition.

### Browser viewer

DICOM studies viewed and compared without a separate workstation.

### Structured reports

Findings and impression, linked to the study they report.

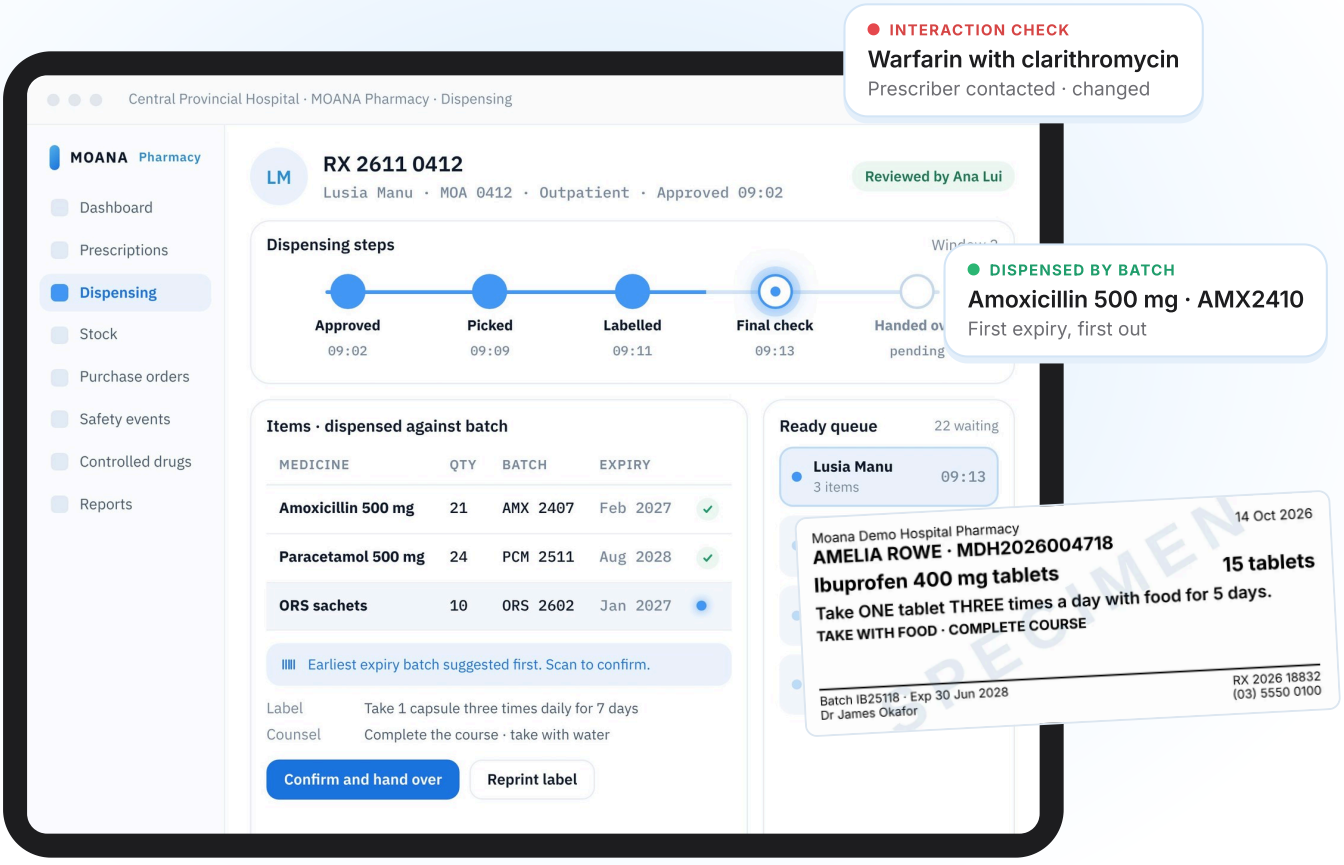
### Your existing PACS

Connect the imaging archive a hospital already runs.

Pharmacy · Moana Pharmacy

# Every medicine checked, dispensed and accounted for.

Prescriptions arrive from the ward already checked, are verified by a pharmacist and dispensed by batch, with stock and expiry updated as each medicine leaves. Available on its own for independent pharmacies, or as part of the platform.




### Verification

Interaction, allergy and dose checks before dispensing.

### Stock and expiry

Batches, expiry dates and reorder levels by store.

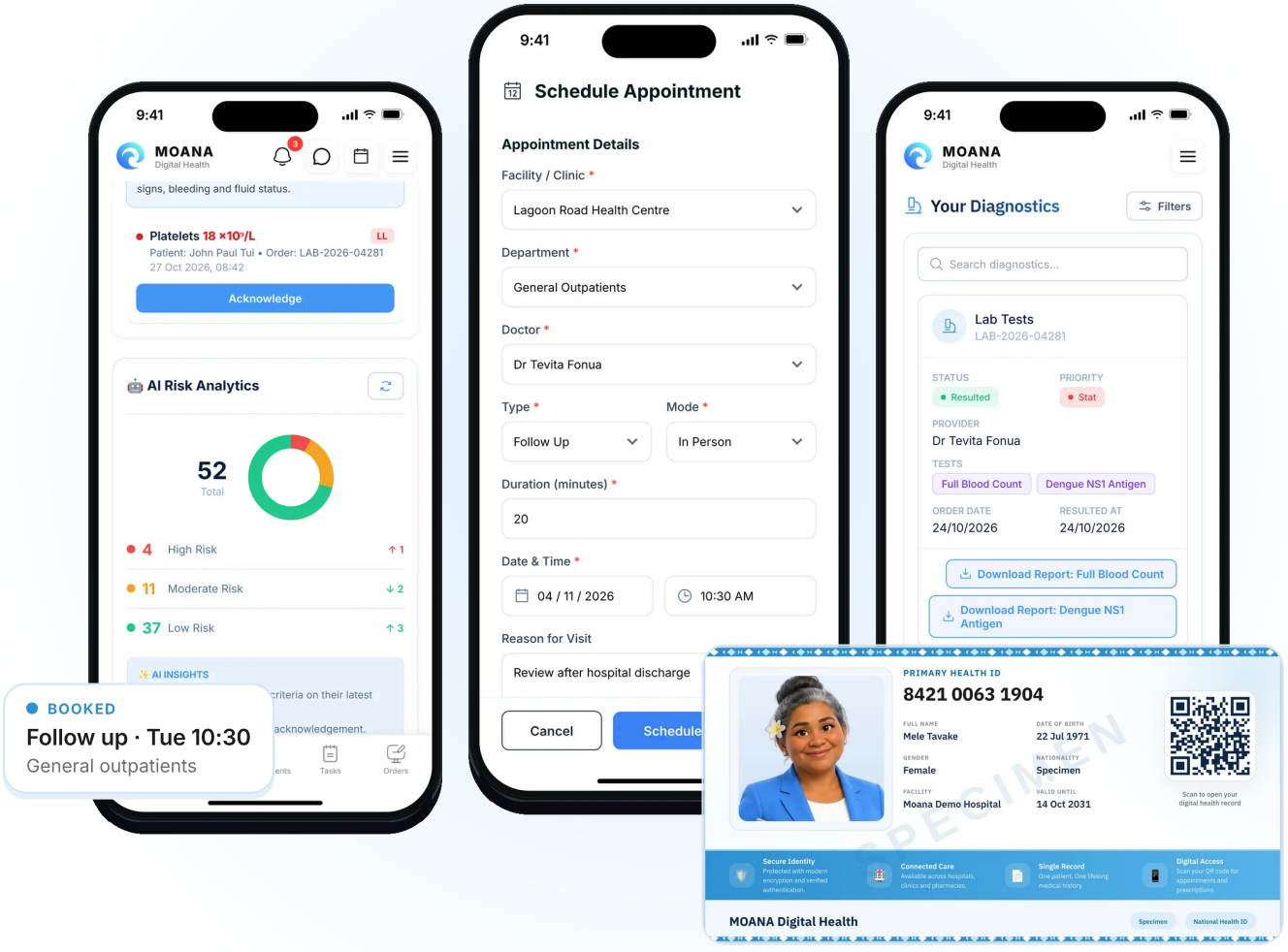
### Controlled drugs

Registers kept automatically as each dose is issued.

Mobile and Patient Access

# The record in the hands of clinicians and patients.

Clinicians take ward rounds, orders and bedside administration with them. Patients book appointments, see their results and keep their vaccination record, with one health ID that is recognised at every facility on the network.




### For clinicians

Patient lists, ward rounds and orders, bedside medication administration, critical results and AI risk flags for review.

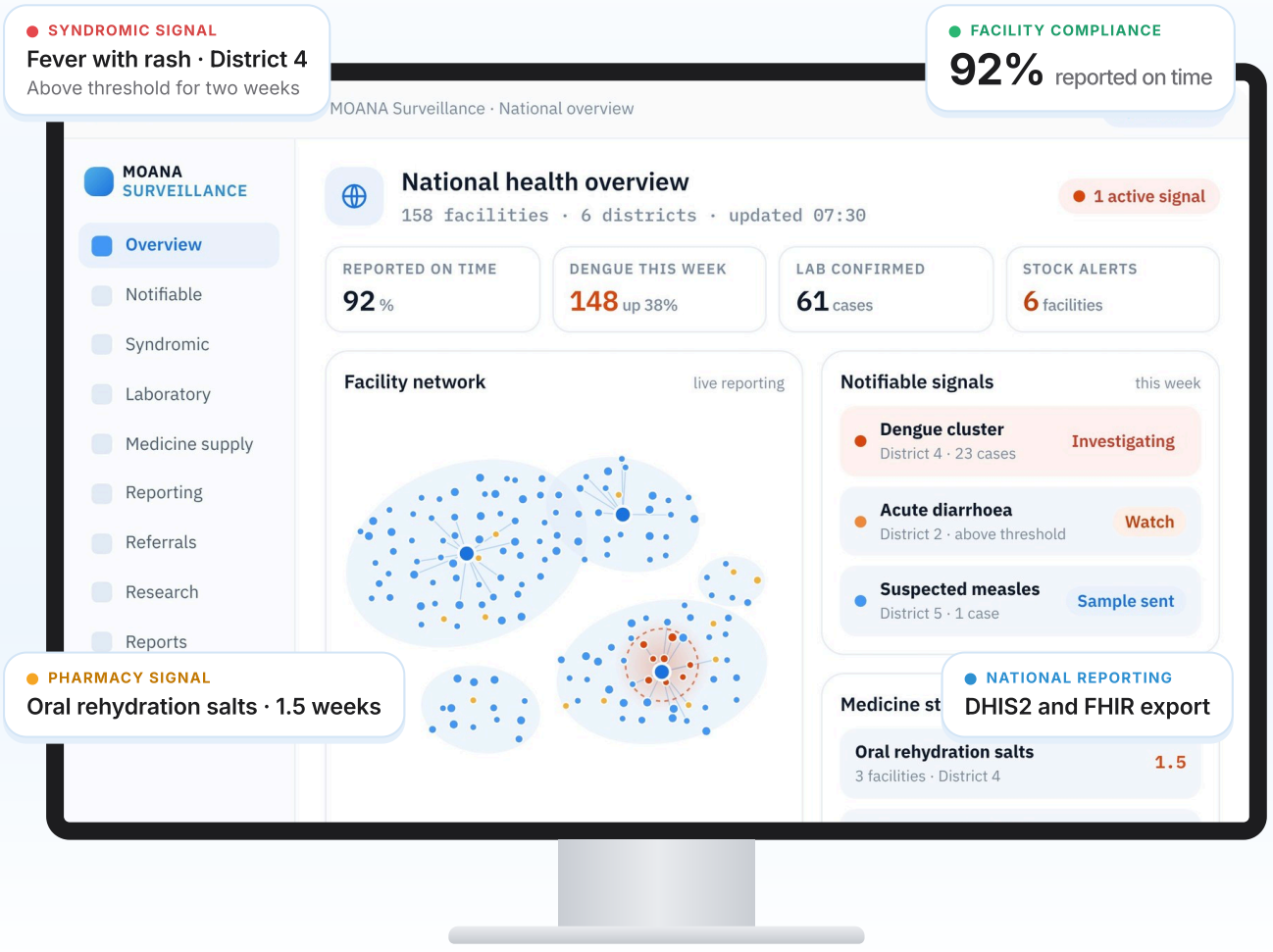
### For patients

Appointments, results and reports, medicines, vaccination certificates and a Health ID card that links them to their record.

National systems · MOANA Surveillance

# Disease intelligence, drawn from routine care.

Ministries see notifiable diseases, syndromes and laboratory and pharmacy signals as care happens, from the records clinicians already keep. No parallel reporting and no separate tallies at the facility.




### Syndromic surveillance

Diagnoses classified to syndromes with ICD 10.

### Outbreak mapping

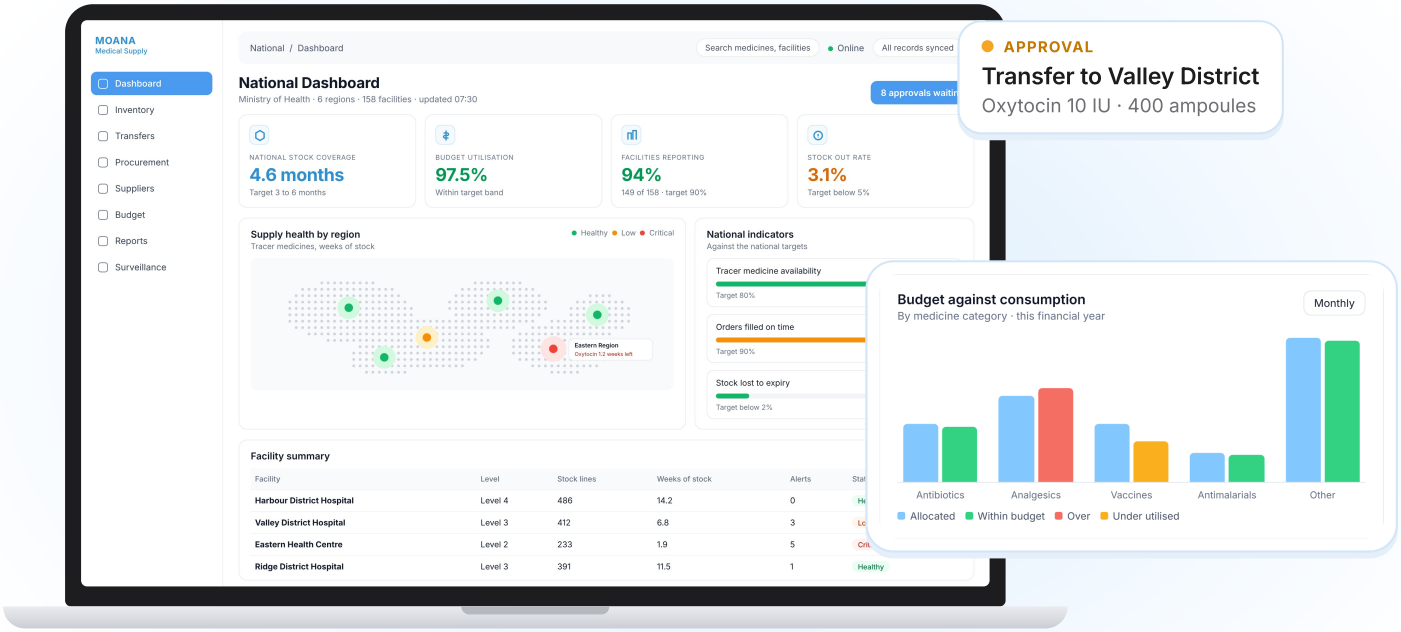
Clusters and alerts mapped by facility and district.

### National reports

Programme performance and returns, produced on schedule.

National systems · Medical Supply and Clinical Research

# Medicines nationwide, and research inside the record.

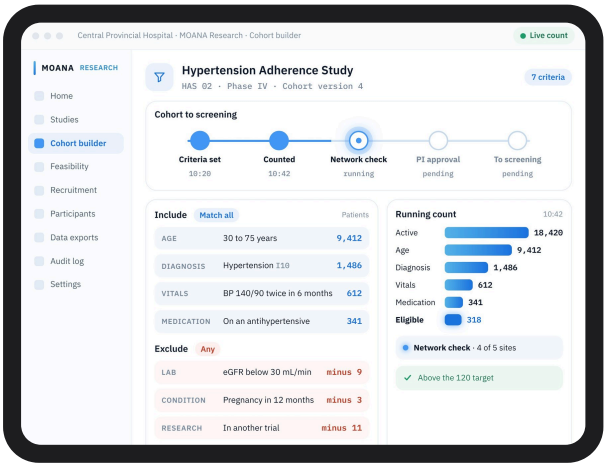



## MOANA Medical Supply

### From national warehouse to facility shelf.

Stock, requisitions, transfers, procurement and budget against consumption for every facility, configured to each health system's supply chain and reconciled with its finance system.

- Stock by facility
- Requisitions and approvals
- Transfers
- Procurement
- Budget and consumption
- Expiry and recalls




## MOANA Clinical Research

### Find, recruit and consent participants from routine care.

Cohort discovery, feasibility across the network, recruitment and consent inside the record, with identities protected and every step audited. Developed with researchers at the University of Oxford.

- Cohort builder
- Network feasibility
- Consent
- Trial alerts

Artificial intelligence

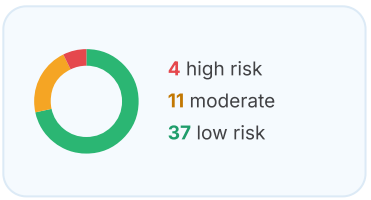
# AI that assists. Clinicians who decide.

Moana uses AI to surface what needs attention across the patient, the ward and the nation. It never acts on its own. Every flag, summary and suggestion is reviewed by a clinician or analyst before anything changes.



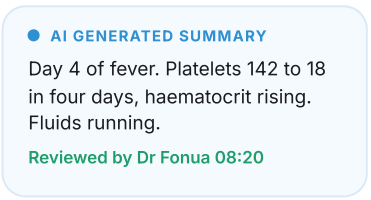

### Deterioration alerts

Scores calculated from routine observations, with the care team alerted as a patient worsens.



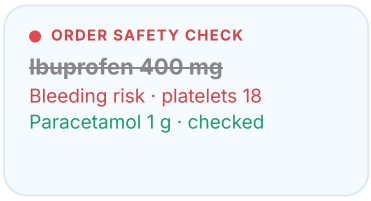

### Patient risk stratification

Every ward list sorted by clinical risk, so the sickest patients are seen first.




### Clinical summaries

A concise summary drawn from the chart, read and confirmed by the clinician.



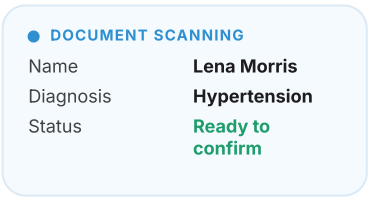

### Medication safety

Allergy, dose and interaction checks before a medicine is ordered or dispensed.



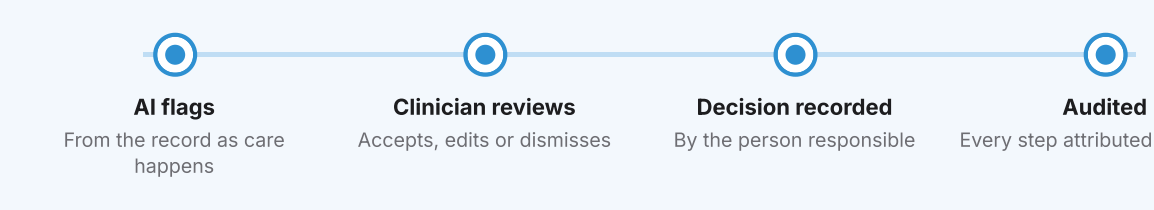

### Outbreak insights

Trends, predictions and plain language weekly narratives for ministry analysts.




### Paper records digitised

Scanned paper records read into structured fields for staff to confirm.



Documents and records

# One patient. Every record a health system issues.

Produced from what clinicians have recorded, each document is numbered, dated, attributed to the clinician responsible and issued under the facility's letterhead.






**Referral letter**
Verification code and reply slip



**Imaging report**
Linked to the study



**Medical certificate**
Fit to resume date, signed



**Counter referral**
Closes the referral loop

Also issued: discharge summaries, laboratory and operative reports, medical history, invoices, birth, stillbirth and death certificates, postmortem reports, vaccination cards and certificates, dispensing labels and the Moana Health ID card.

Specimens shown with fictional patient details

Interoperability and integrations

# Connects to what you already run.

Moana exchanges data through international standards, so analysers, imaging, hospital systems and national platforms connect without rebuilding them, and no organisation is ever locked in.




## EXCHANGE

- HL7 FHIR R4
- FHIR bulk export
- SMART on FHIR apps
- HL7 v2 messaging
- International Patient Summary
- IHE 360X referrals
- Built for OpenHIE architecture

## TERMINOLOGY

- ICD 10 and ICD 11
- SNOMED CT
- LOINC
- RxNorm
- ATC
- CVX vaccine codes
- UCUM units

## IMAGING AND LABORATORY

- DICOM
- DICOMweb
- Existing PACS and modalities
- ASTM analysers
- HL7 v2 instruments
- Results straight to the record

## NATIONAL AND IDENTITY

- DHIS2
- National reporting formats
- Government finance systems
- OAuth 2 and OpenID Connect
- Single sign on
- Text message and email

### Analysers and instruments

Sysmex · Roche · Beckman Coulter · Siemens · Erba · GeneXpert

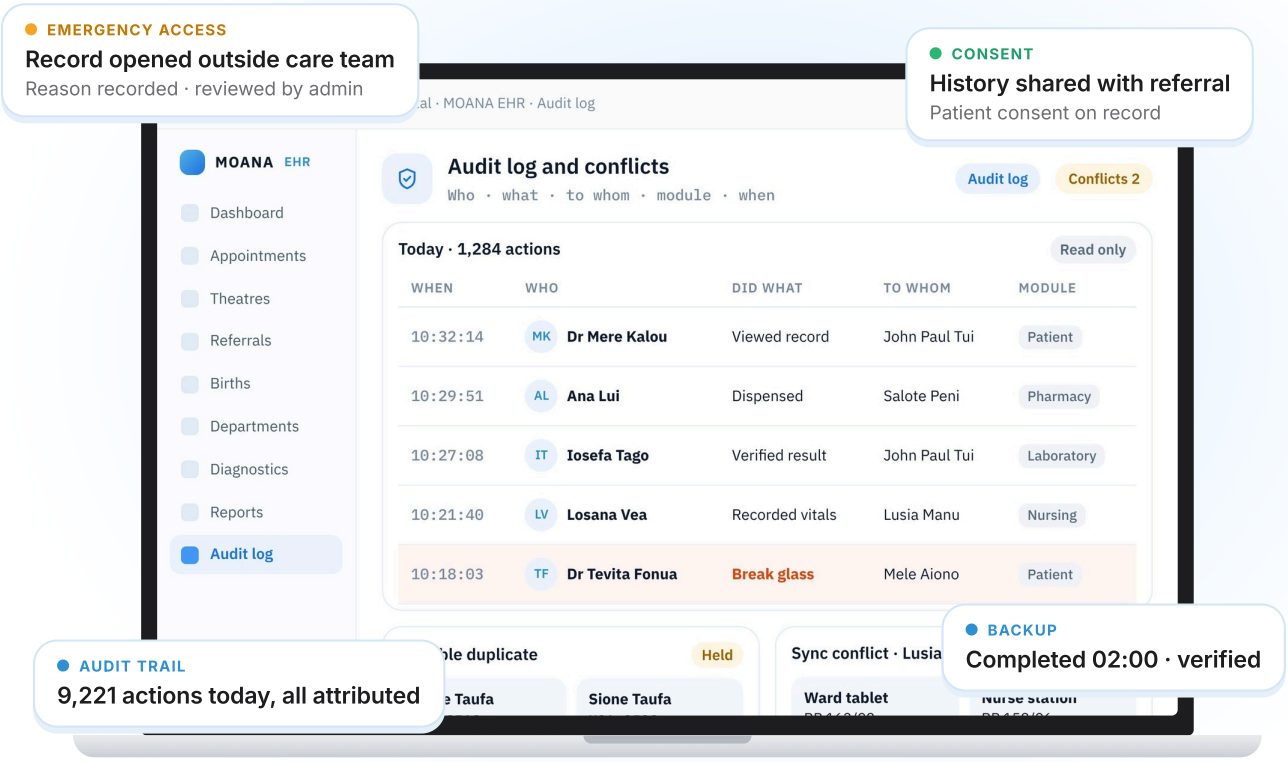
### Integration monitor

Every message in and out logged, with failures surfaced to IT before they reach a clinician.

Security, privacy and data governance

# Protected, accountable and owned by you.

Health data is among the most sensitive information a government holds. Moana controls who sees it, records every action taken on it, and keeps it under the ownership of the organisation that collects it.




### Role based access

Each user sees what their role requires and nothing more.

### Emergency access

Break glass access with a reason, logged for review.

### Complete audit trail

Every view, entry and change attributed and timed.

### Encryption

In transit and at rest, with secure sign in and two factor authentication.

### Consent

Records shared between facilities only with the patient's consent.

### Ownership and backup

Data owned by the organisation that collects it, backed up and recoverable.

Hosting and deployment

# Hosted where your data must live.

Every health system has its own rules on where patient data may be stored. Moana runs in the country, in the cloud or across both, with the same software and the same record.




In country, on site

### Your servers, your country

- Facility or national data centre
- Data never leaves the country
- Runs on the hospital network
- Supported remotely or on site

Cloud

### Amazon Web Services

- Encrypted storage and backups
- No servers for your team to run
- One clinic to a national network
- Updates without disruption

Hybrid

### Local servers, synchronised

- Servers at each facility
- Synchronised with cloud or national centre
- Care continues through interruptions
- Reporting across every site

**Whichever you choose,** data remains owned and governed by the organisation or government that collects it.

How we work

# Configured with your teams. Supported long after go live.

Every engagement follows the same path. Moana is configured to the facility's own workflows and forms, staff are trained department by department, and support continues for the life of the system.




**Scope**
Workflows, forms, systems and data mapped

**Configure**
Departments, letterhead, forms and integrations

**Train**
Staff trained in their own department

**Go live**
Department by department, with our team alongside

**Support**
Updates and improvement for the life of the system

### Training

Staff trained department by department on their own work, with refresher training as teams change.

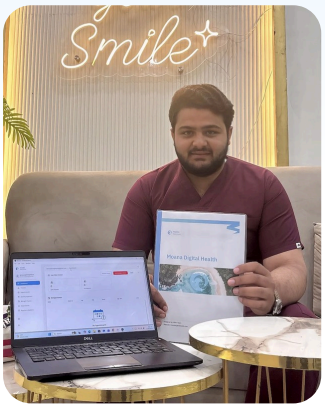
### Support

Ongoing support, monitoring and regular updates for the life of the system.

MOANA
Digital Health

# Let’s build the record your health system runs on.

See Moana with your own workflows and forms in a live demonstration, for one facility or a national programme.








**The team behind Moana.** Clinical advisors and health informatics specialists with up to two decades of experience across national health programmes, the World Health Organization and enterprise health systems, alongside implementation, integration and engineering teams experienced in delivering complex systems inside operating hospitals.

**United Nations Global Marketplace**
Registered supplier · 1210269

**Asian Development Bank**
Consultant register · 049609

**WHO Digital Health Atlas**
Registered system

**SNOMED CT**
Affiliate licence

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