

AI in Healthcare: The Philippines

Arrel Peter P. Pascual, YAKAP Technical Lead
Philippine Health Insurance Corporation
(PhilHealth)



The Philippines in Numbers

112.7 M Population size

4.1 Average household size

~USD 330 Average monthly wage
(PHP 18,423)

15.5% Poverty Rate
(17.4M Filipinos)

USD 240-273 Poverty Threshold
(Php 13,873 nationwide;
Php15,713 NCR)



The Philippine Health System

Decentralized



Individual-based
services (primary care,
inpatient and curative)



Nat'l Govt
(DOH)

Population-based
services (high-cost,
hard-to-procure
commodities, interim
support for new
interventions)



Local Govt
(thru local tax or SHI)

Population-based
services (for local
implementation,
services with existing
PhilHealth benefits)

Mixed Public and Private System

Private 52% of hospital beds

- Unregulated balance billing
- Private insurance or out-of-pocket on top of PhilHealth
- Free Market for specialists (fee-for-service)

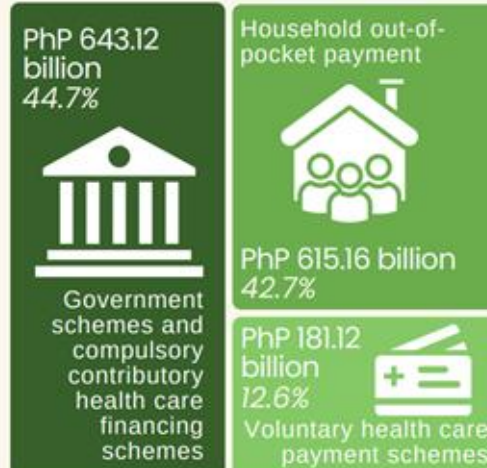
Public 48% of hospital beds

- Commodities are frequently out-of-stock
- Physicians are salaried
- Often overcapacity
- Low capability for higher technology services

Multiple Financing Sources

Current Health Expenditure by Health Care Financing Scheme, 2024

Level and share



2024 Philippine National Health Account

The Philippine Digital Health Landscape

4

Overall Digital Health Score of the Philippines

2

Leadership &
Governance

4

Strategy &
Investment

4

Legislation,
Policy, &
Compliance

2

Workforce

4

Standards &
Interoperability

4

Infrastructure

4

Services &
Applications

Global Health Digital Monitor, 2023: Philippines

National Strategies and Policies

- **UHC ACT [RA. 11223] and PhilHealth Framework:** Establishment of National Health Data Repository (NHDR)
- Ongoing legislative initiatives on digital health
- DOST-PCHRD discussions on digital health transformation

Key Government Players



Current Status of AI in Healthcare

Limited Presence

- Mostly clinical application (eg. imaging and diagnostics) and private-led initiatives
- Limited data availability, standardization, and completeness

Pandemic Digital Wins

Adoption of case management systems, contact tracing, chatbot technologies, and telemedicine services

Existing platforms as foundation for future applications

- Government's eGov Super App
- Current PhilHealth Systems
- DOH platforms: iClinicSys and iHOMIS

Existing Platforms as Foundation

Leveraging our current databases to develop a responsive AI

Example 1: HCI Portal

The screenshot shows the 'HEALTH CARE INSTITUTION Portal' login interface. It features a green header with the title. Below the header, there's a 'Log-in to your account' section with input fields for 'Accreditation No.', 'User Name', and 'Password', followed by a 'Log-in' button. The PhilHealth logo is visible at the bottom left.

DATA

YAKAP Empaneled
Members list

YAKAP Health Data
Records

*Example 2: Integrated PhilHealth
Accreditation System*

The screenshot displays the 'HEALTH FACILITY DATA ENTRY' form. It includes a 'Process' bar at the top with buttons like 'Initial', 'Edit', 'Save', 'Cancel', 'Search', 'Post', and 'Close'. The form contains various input fields for facility details such as 'Category', 'Accred No.', 'PRCC No.', 'Name of Health Facility', 'Street/Barangay', 'City/Municipality', 'Province', 'Class', 'Ownership', 'Phone', 'TIN', 'Email', 'Fax', and 'DCH Facility Code(s)'. There are also buttons for 'Manage DCH Codes', '2-in-1 Main Accred. No.', 'Manage Konkrete Load', 'Manage COVID Lab', and 'View Group'. At the bottom, there's a tabbed interface with tabs for 'DETAILS', 'BEDS', 'SERVICES', 'SP. TAGS', 'PERSONNEL', 'HEALTH FACILITY', 'MANPOWER', 'DOCTOR', 'HISTORY', 'ROUTER', 'REMARKS', and 'HEAD'. The 'DETAILS' tab is active, showing a table with columns for 'RECEIVING', 'DCH License / Certificate', and 'ACREDITATION PERIOD'. The table contains rows for 'Control Number', 'Application Date', 'Application Type', 'OR Number', 'OR Date', 'Amount Paid', 'Payment Mode', 'PRA/PRAP', and 'PRA Date'.

DATA

YAKAP Provider Data

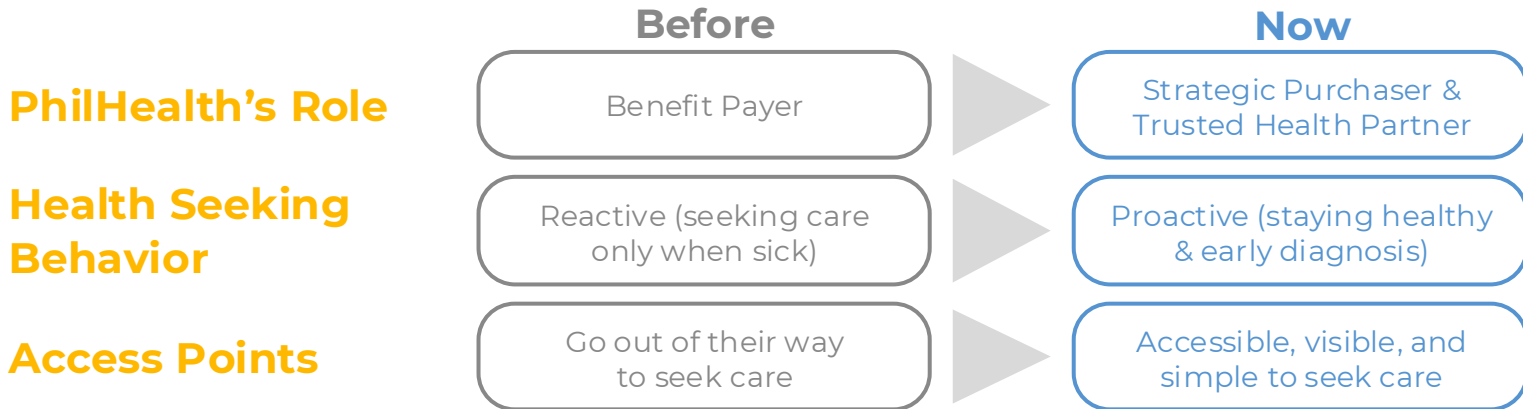
Accreditation Status



is a System Transformation

It is the catalyst to shift from a reactive, hospital-based model to a proactive, primary care-driven system that focuses on **prevention, continuity, and long-term wellness** for every Filipino.

Transformative Role



PhilHealth YAKAP

PARA MALAYO SA SAKIT



Expanded
KONSULTA services



Shift from reactive to
proactive healthcare



Integration with existing
specialty benefits



GAMOT for outpatient
medications



Expanded laboratory
and diagnostic benefits



Cancer Screening

Patient Journey



Registration

Ensures **beneficiary is in the system** with valid records



PCC Assignment and Selection

- **Strategic matching** to appropriate PCC options (within 30km radius)
- Beneficiary **chooses preferred provider** from assigned options



FPE Conduct

First Patient Encounter is **conducted and completed**



Empanelment

Formal care relationship establishing 4Cs accountability



YAKAP Empanelment Slip (YES) **signed by both** patient and PCC

We are building the necessary foundation to develop AI for **PhilHealth YAKAP**

PARA MALAYO SA SAKIT

EMR implementation + structured /
complete data fields



Data Quality

for accuracy, consistency, completeness

Real-time encoding + digitization of health data



Data Availability

for timeliness, relevant insights/ predictions

National health data repository +
standardization



Data Interoperability

for integration, streamlining of data

Data governance + training + building workforce



Data Consistency

for errors/missing fields prevention

How AI can improve the quality and efficiency of PhilHealth YAKAP

PARA MALAYO SA SAKIT

Fraud / Abuse
detection

Unusual claim
patterns,
overuse,
mismatches

Member Data
Record
Management

Remove
duplicate PINs,
member data
clean up,
validating
services received

Pre- and Post-
Audit

Ensure claims
match
epidemiological
data, complete
and valid claims
documents,
identity and
liveness
verification

Member Risk
Profiling

Enabling
preventive
interventions,
targeted
screening real-
time

Real-time Quality
Assurance

Prescription
checks, drug
interactions,
appropriateness
of services, care
coordination

Isang PhilHealth na



Mabilis

Hospitals and providers
are paid on time



Patas

Hospitals deliver
better care



Mapagkakatiwalaan

Filipinos feel secure in
their health insurance
coverage

Maraming Salamat!

