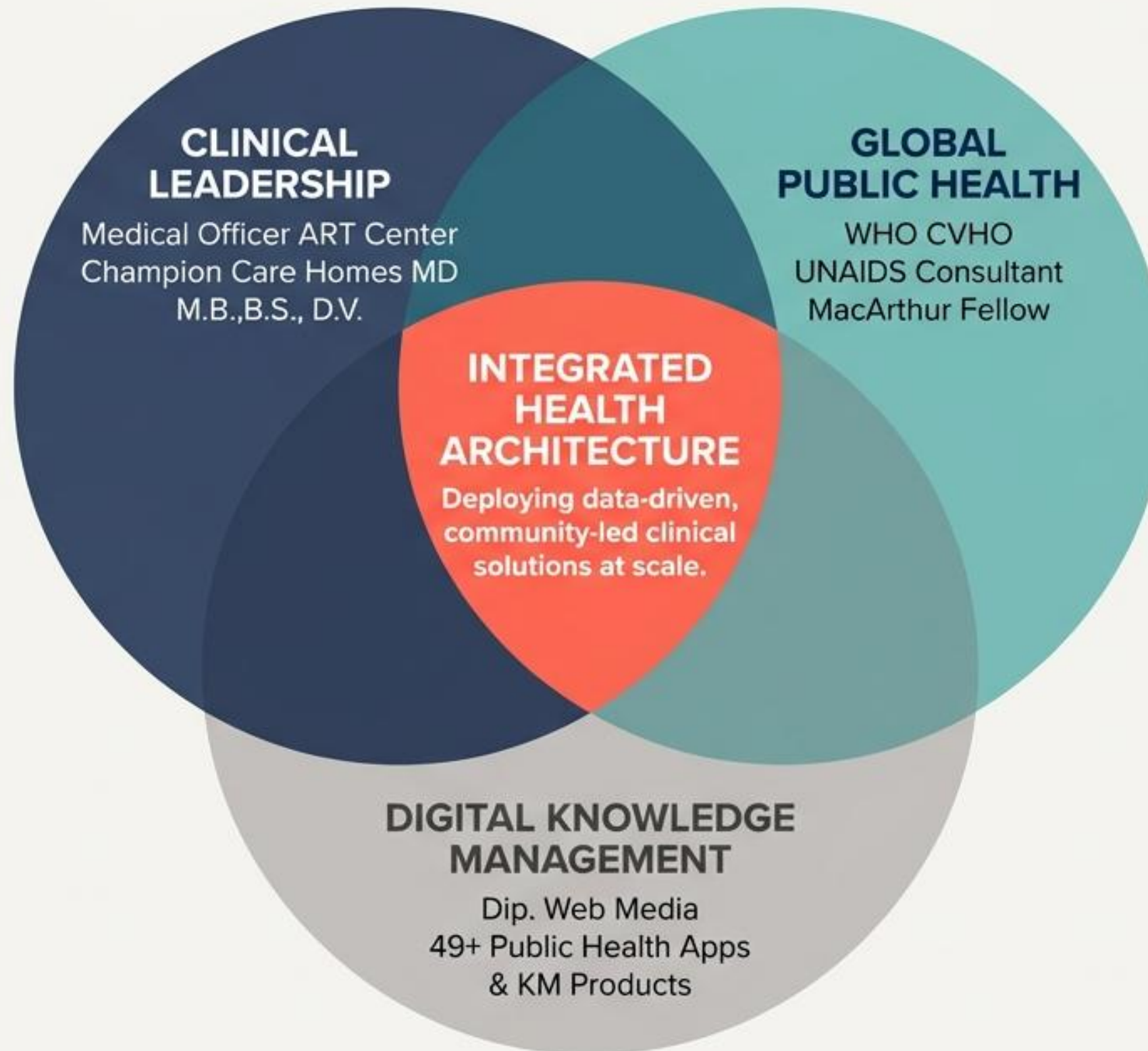




Dr. Essa Mohamed Rafique

**Leadership at the Intersection of Global
Health, Clinical Care, and Digital Innovation**

THE TRIAD OF PUBLIC HEALTH IMPACT



BRIDGING COMMUNITY EXECUTION WITH GLOBAL POLICY

MICRO / GRASSROOTS DELIVERY		MACRO / SYSTEMS POLICY	
	SCOPE Managing local FBOs and distinct geographic districts (Perambalur, Wayanad, Kozhikode).		SCOPE National and Global ecosystems (WHO India, UNAIDS, UNICEF).
	FOCUS Direct patient care, geriatric infrastructure, and marginalized inclusion.		FOCUS National strategic frameworks, epidemiological data modeling, and massive community facilitation.
	PROOF POINTS Building Champion Care Homes beyond UK standards ; managing the DS Medical College ART Center.		PROOF POINTS Moderating the 4,000+ member AIDS Community of Practice for India's NACP-III; formulating UNICEF out-of-school youth protocols.

TRANSITIONING FROM VERTICAL SILOS TO INTEGRATED HIV CARE

THE OLD MODEL

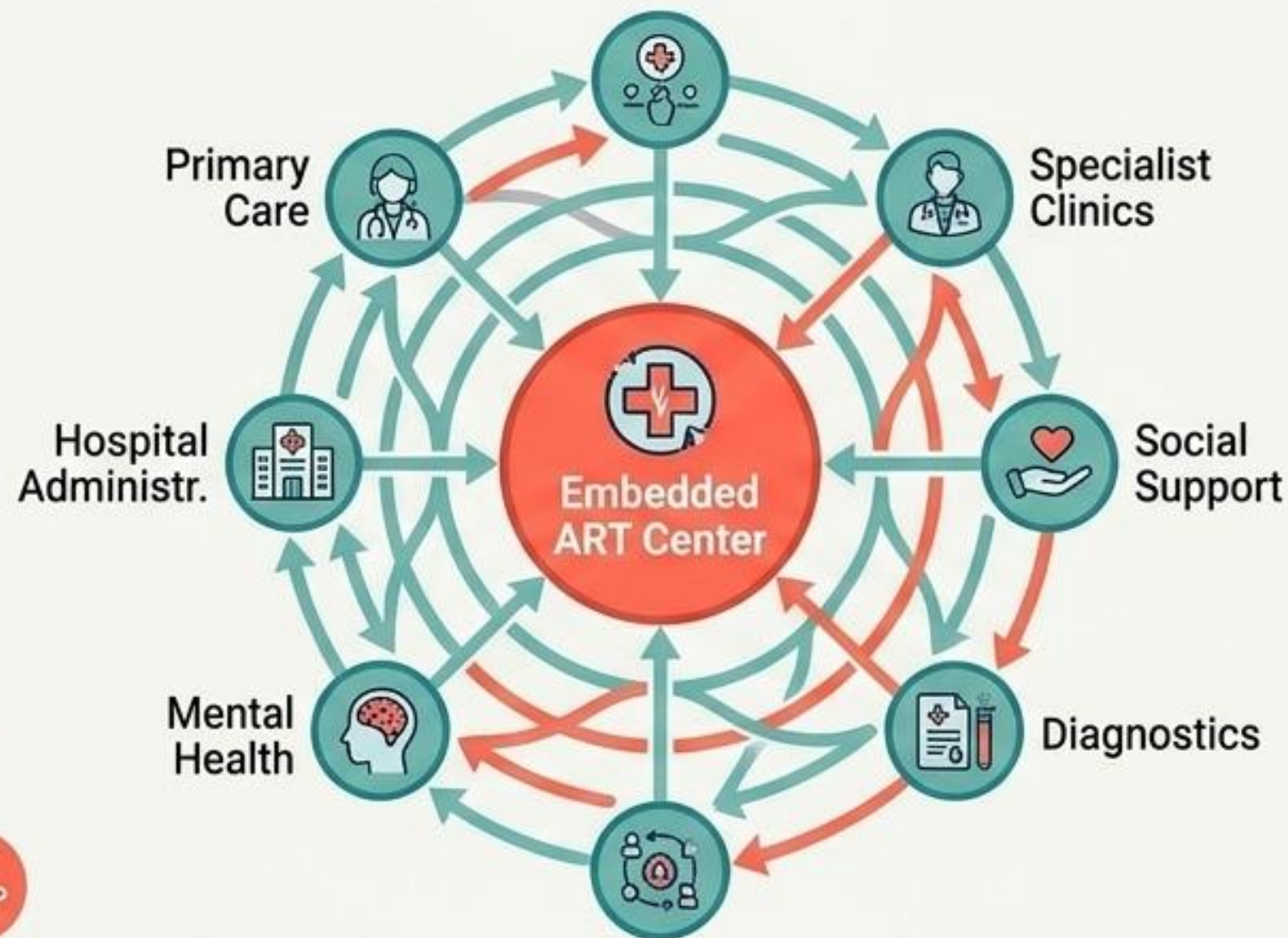


Separate services, disconnected patient data, and fragmented processes.

Medical Officer in Charge, ART Center, Dhanalakshmi Srinivasan Medical College & Hospital.

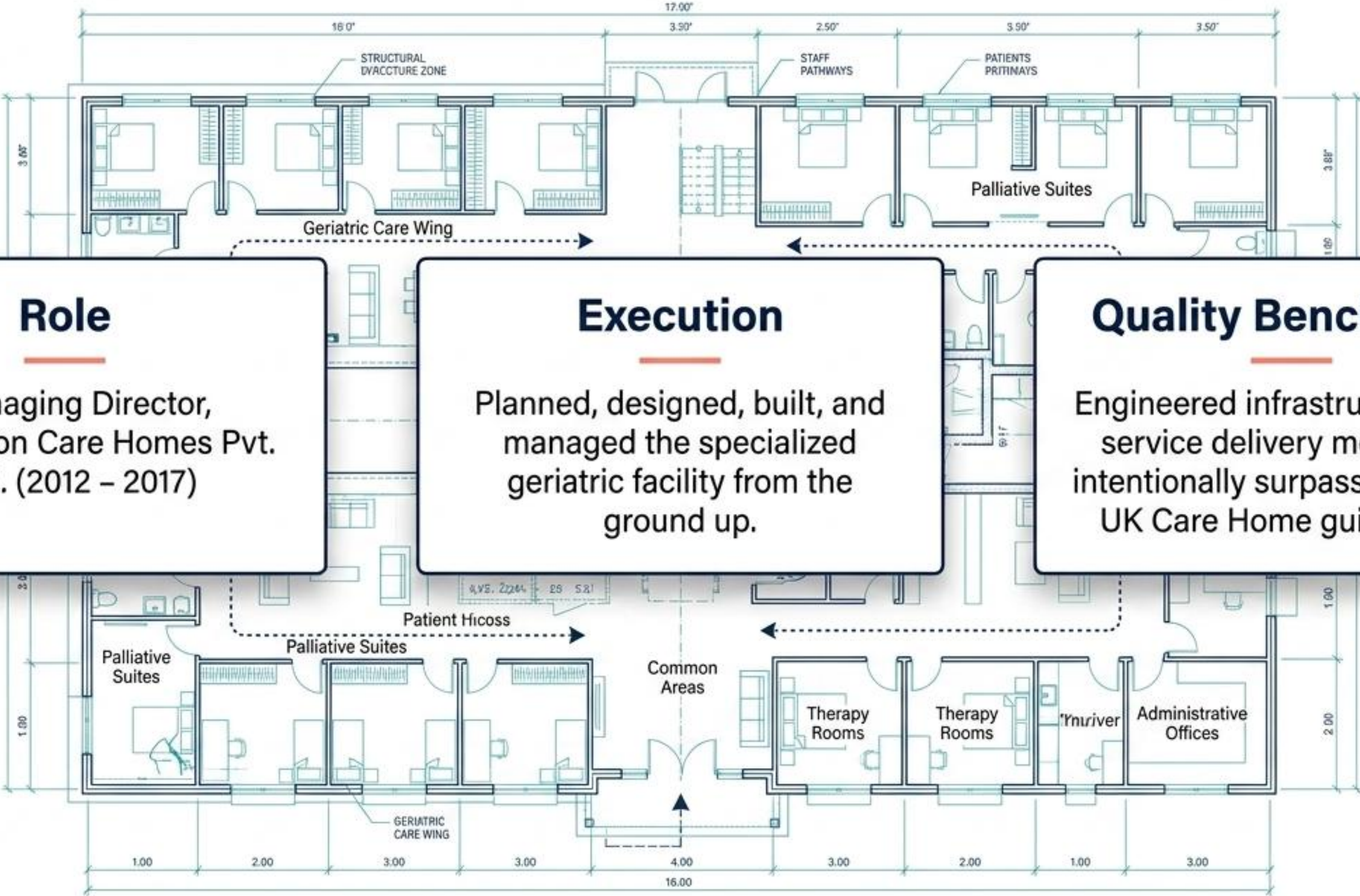
"Strategic research in Tamil Nadu highlights how administrative agility and service normalization eliminate stigma, seamlessly integrating HIV care into broader hospital ecosystems."

THE RAFIQUE MODEL



Holistic, seamless care within the broader hospital ecosystem, normalizing HIV services.

Redefining Infrastructure Standards for Geriatric and Palliative Care



Role

Managing Director,
Champion Care Homes Pvt.
Ltd. (2012 – 2017)

Execution

Planned, designed, built, and
managed the specialized
geriatric facility from the
ground up.

Quality Benchmark

Engineered infrastructure and
service delivery models to
intentionally surpass stringent
UK Care Home guidelines.

SCALING THE INDIA HYPERTENSION CONTROL INITIATIVE (IHCI)

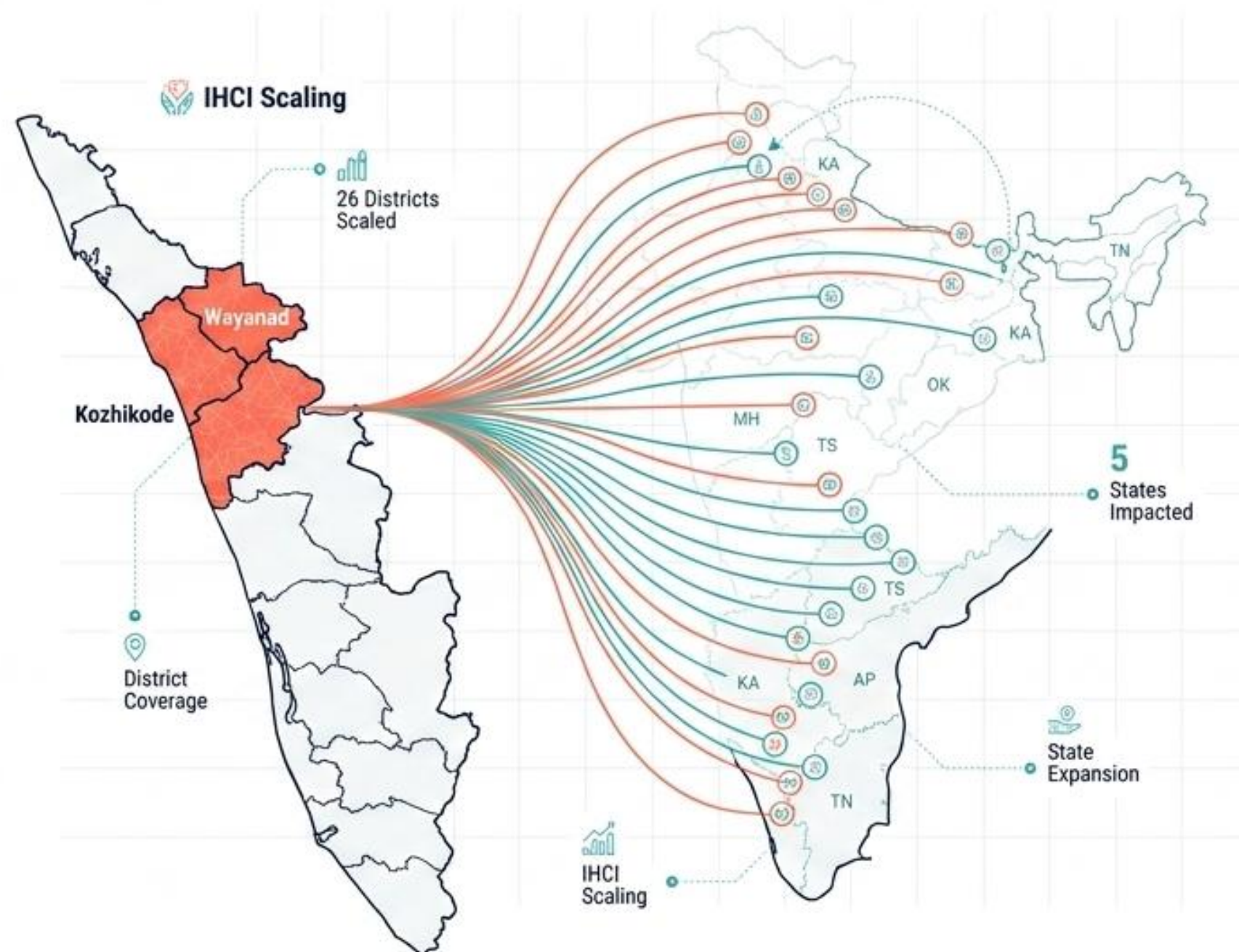
**Cardio-Vascular Health Officer (CVHO),
WHO India (2017-2021)**

The Challenge:

Only 1 in 12 adults with hypertension had their blood pressure under control, revealing a critical baseline across evaluated cohorts (Co-authored Nature publication).

The Intervention:

Managed NCD and COVID-19 knowledge networks. Pioneered localized public health innovations featured in the National WHO Newsletter.



Formulating National Policy Through Digital Community Consensus

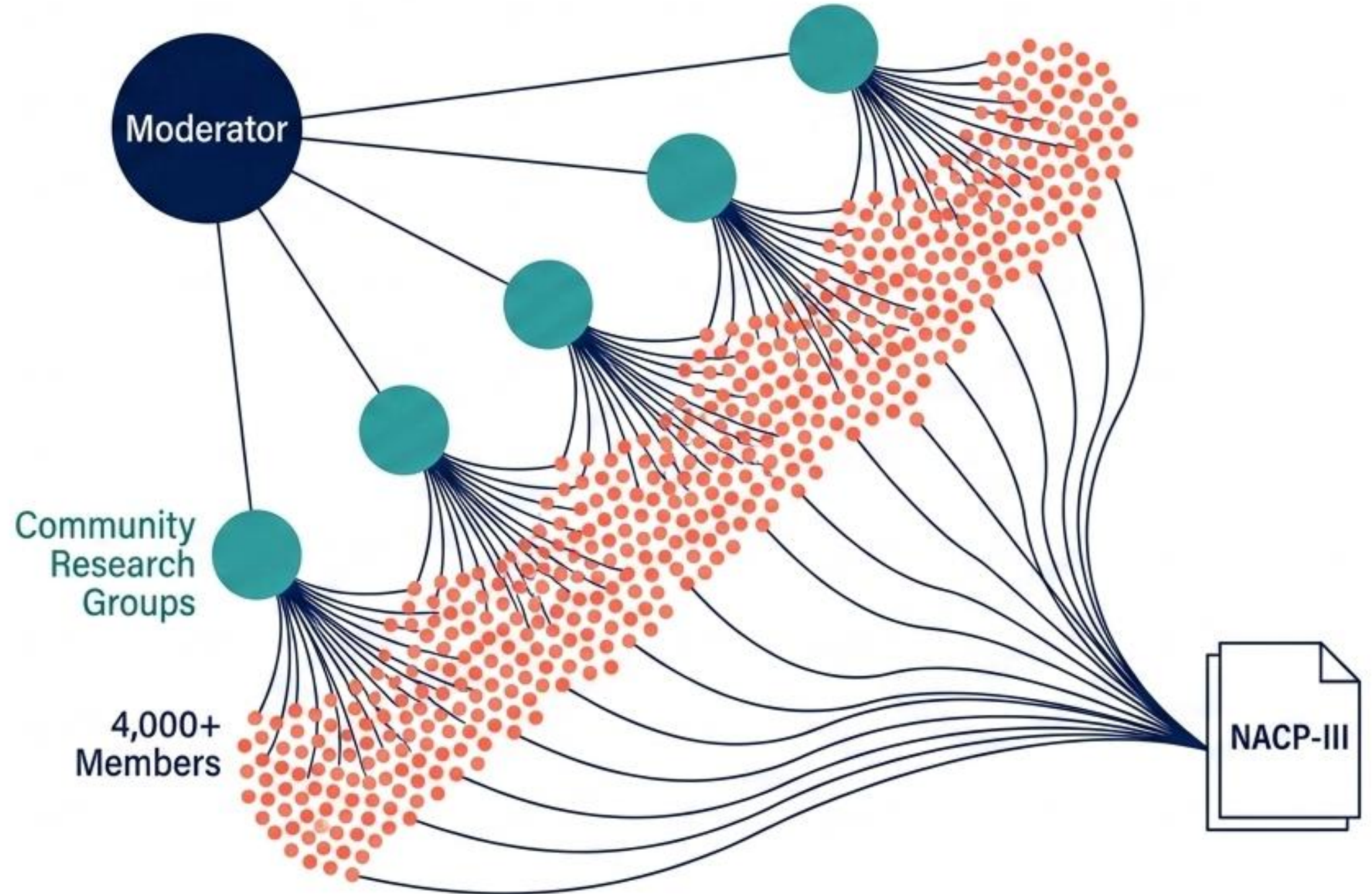
Resource Person and Moderator, UNAIDS India (2005-2012)

The Action:

Built and moderated the “AIDS Community of Practice,” scaling an e-community to over 4,000 active members.

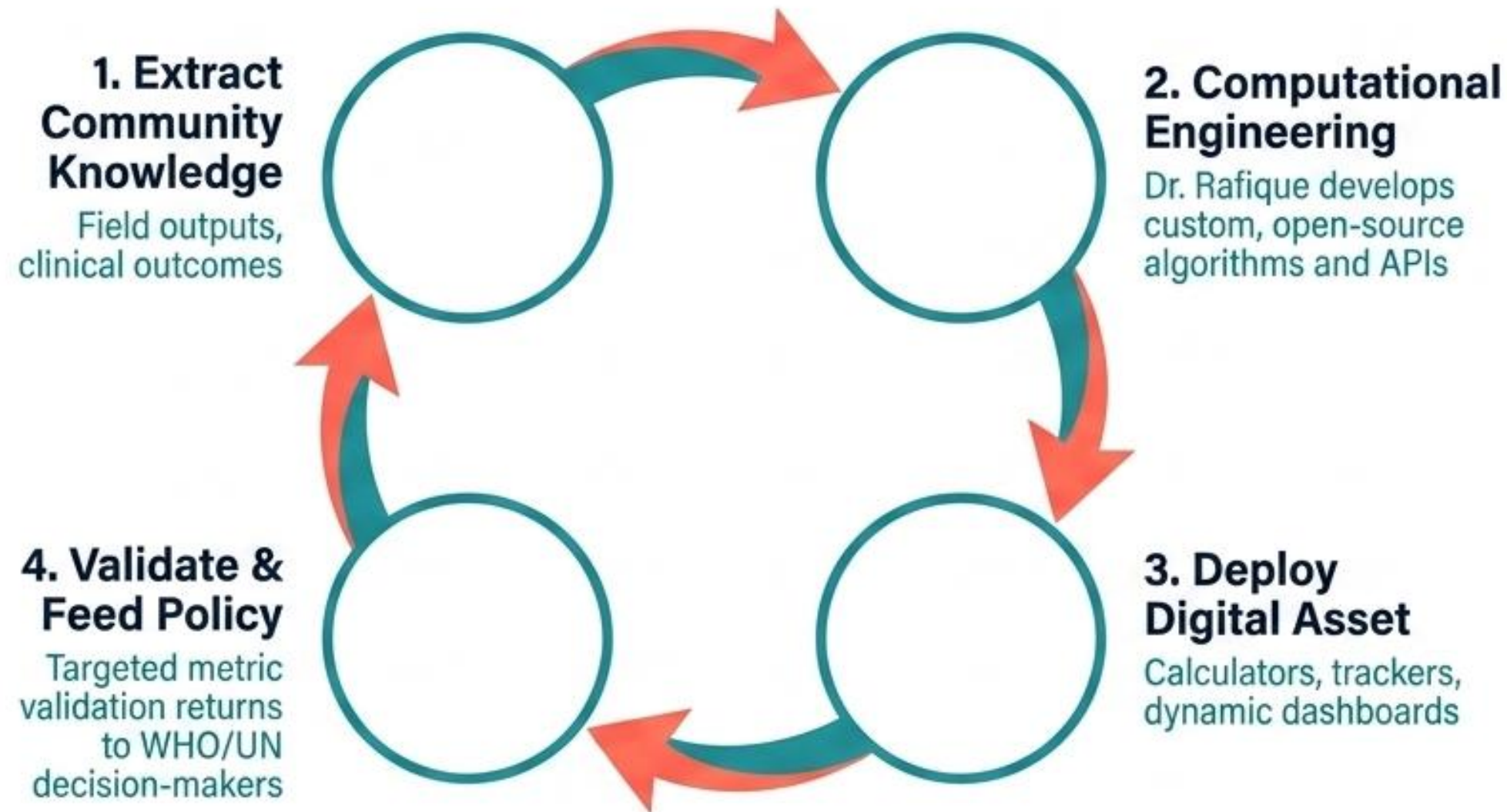
The Outcome:

Extracted on-the-ground knowledge assets and coordinated workshops to directly formulate the foundational National AIDS Control Policy-Phase III.



The Digital Public Health Architect: 49 Knowledge Management Products

The Information Feedback Loop



Portfolio Context:

A physician who writes the code for active field outputs and clinical support systems.

Developed **49** Knowledge Management (KM) Products entirely as freeware/open-source tools:

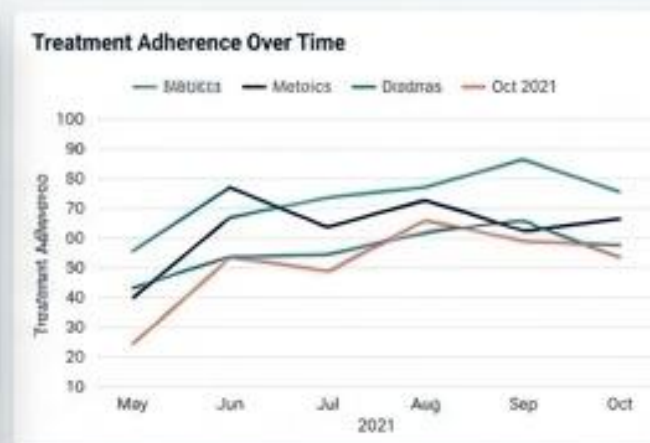
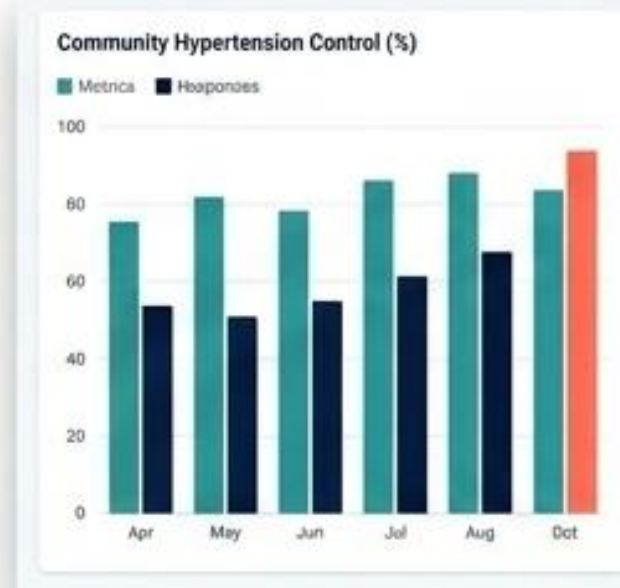
– **22** deployed for IHCI tracking

– **27** deployed for UNAIDS/NACP-III

Deploying Dynamic Data Infrastructure for the WHO

Longitudinal Tracking

Continuous deployment of IHCI Monthly Field Monitoring Reports (May - Oct 2021), tracking critical community hypertension control metrics and treatment adherence at scale.



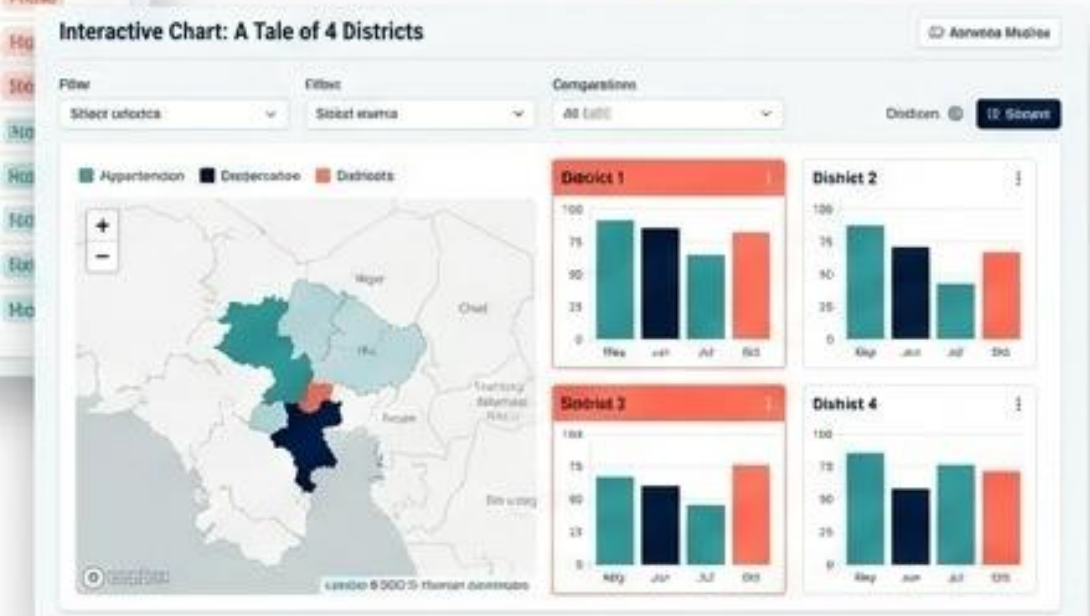
Data Array

District	Adherence Rate	Control Rate	Status
District 1	76.30%	63.63%	⚠️ Pending
District 2	77.56%	65.82%	⚠️ High
District 3	96.89%	89.25%	✅ Good
District 4	86.87%	70.67%	✅ Good
District 5	65.56%	82.50%	✅ High
District 6	94.20%	70.07%	✅ High
District 7	75.90%	67.66%	✅ Good
District 8	86.66%	65.65%	✅ High



The Data Interface

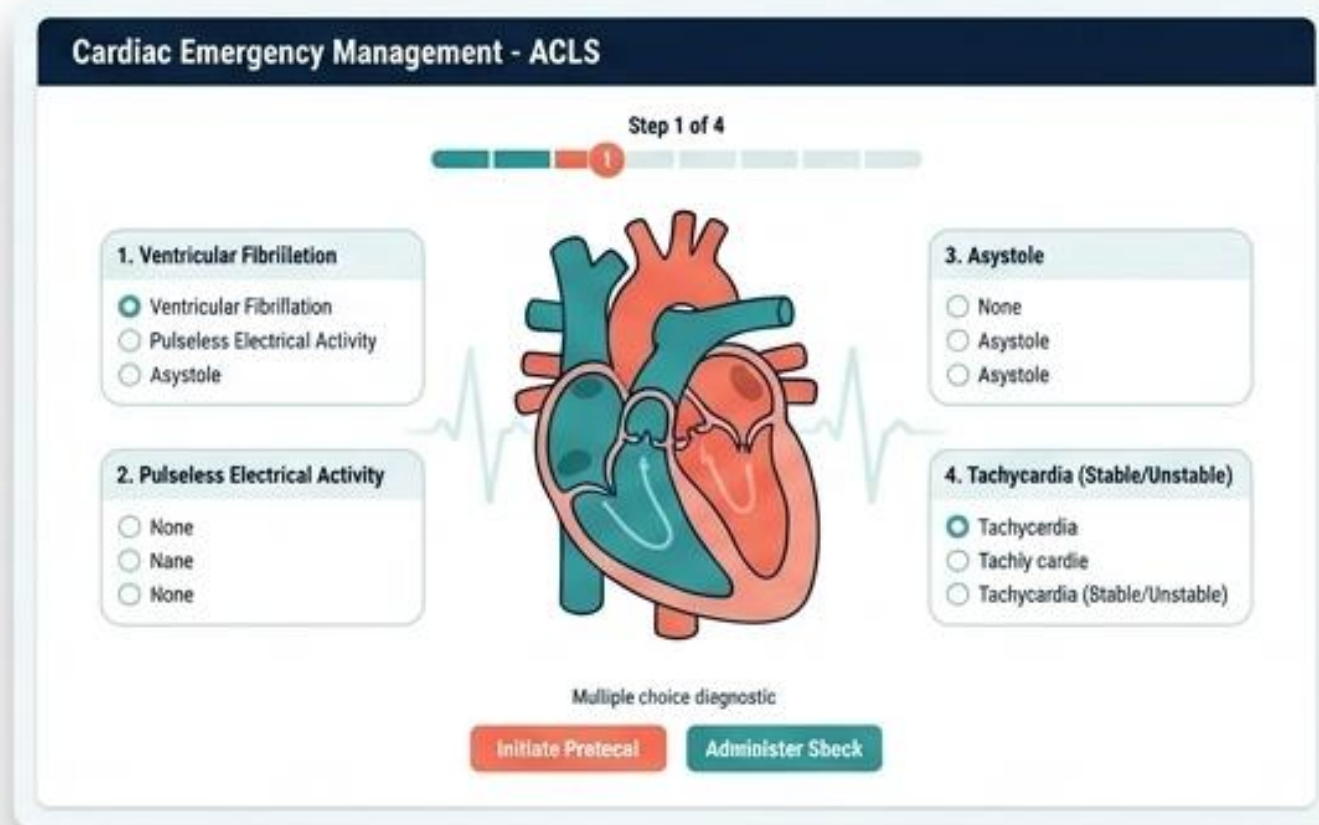
Features the 'Interactive Chart: A Tale of 4 Districts' — a dynamic data visualization interface that maps, isolates, and evaluates comparative hypertension metrics across operational index districts.



Full-Stack Solutions: From Clinical Training to Live APIs

Clinical Education

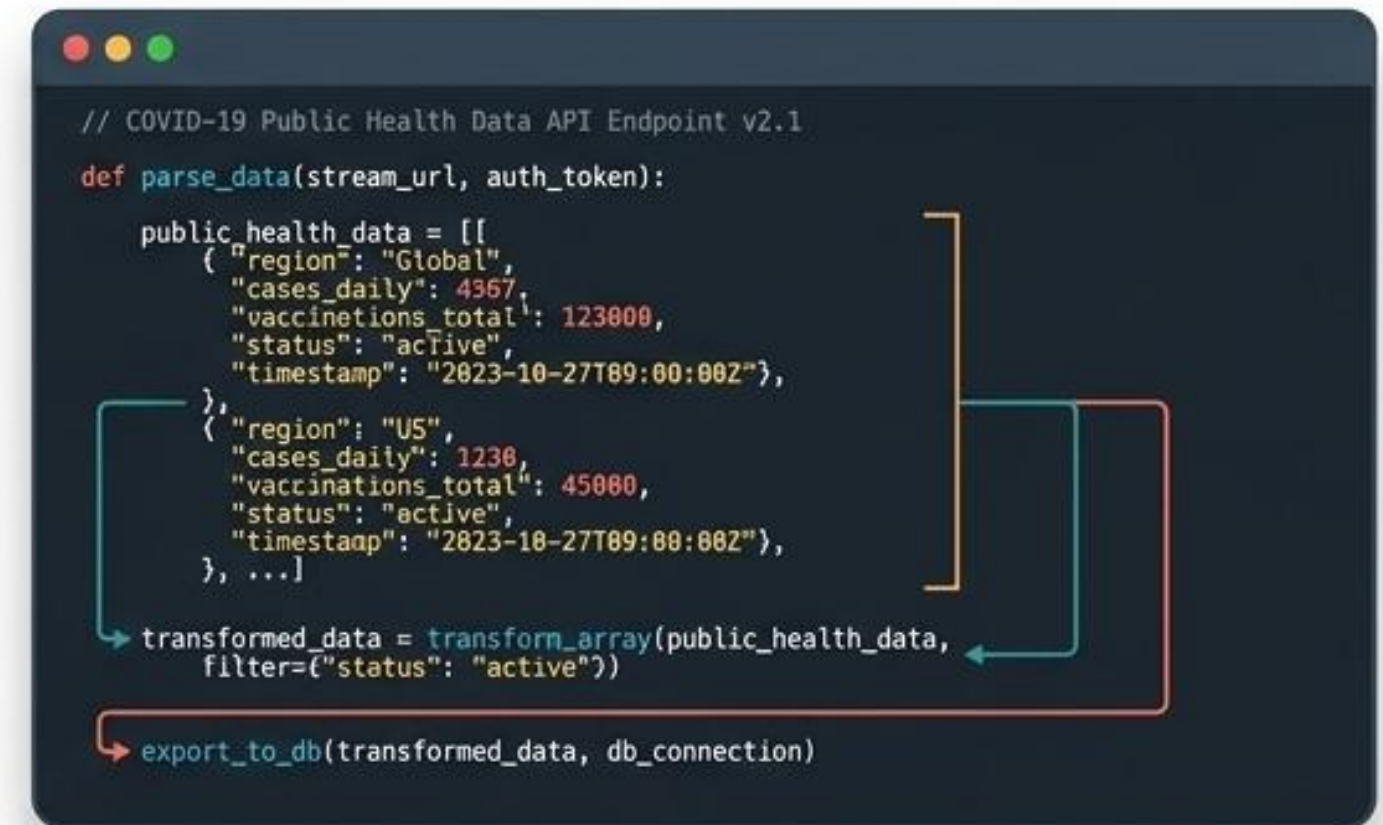
ACLS Protocol Trainer



An interactive web application built for training medical professionals in cardiac emergency management based on rigid ACLS protocols.

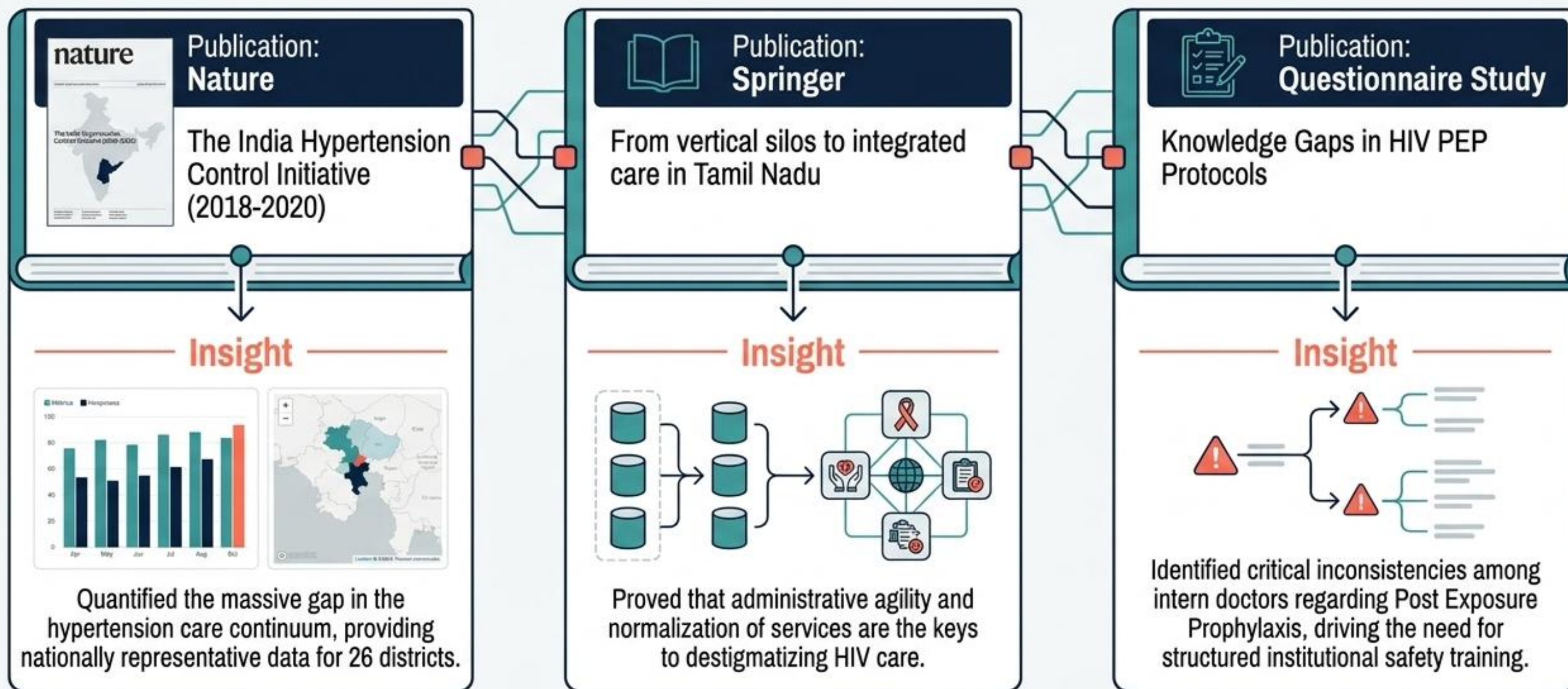
Data Engineering

COVID-19 Real-Time Live API Modal Node



An integrated script interface engineered to parse, capture, and dynamically transform active public health data arrays via external endpoints.

Defining the Academic Discourse on Integrated Care and NCDs



Architecting Global and National UN Policy Frameworks

2010-2012



UNICEF India

Authored the [National Strategic Framework](#) for HIV prevention among out-of-school youth.



UNICEF / WHO

Developed [operational guidelines](#) for implementing district-level adolescent HIV prevention in community settings.



UNAIDS (Eastern Europe & Central Asia)

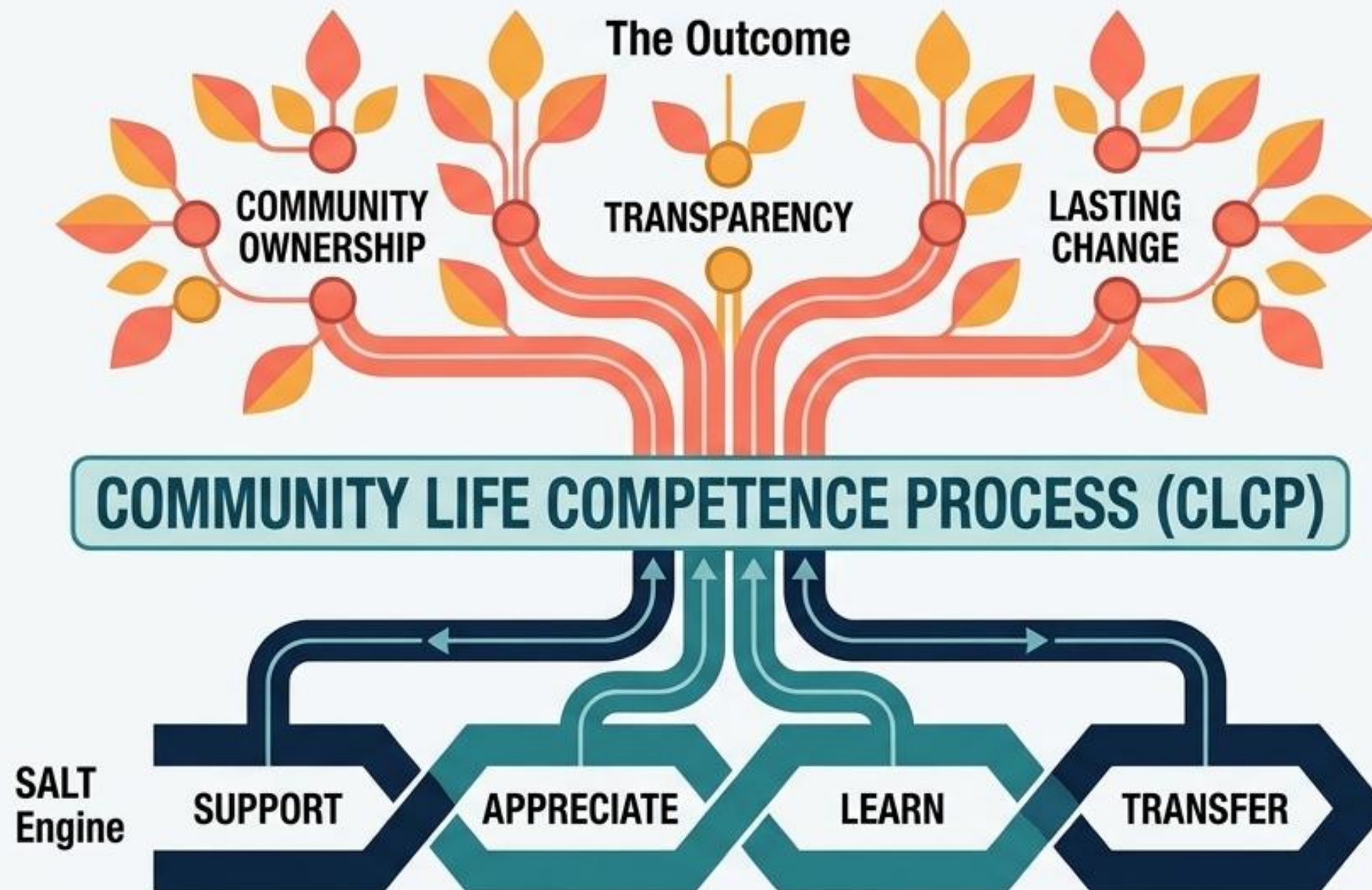
Conducted a [definitive global update desk review](#) on Oral Substitution Therapy.



UNIFEM

Authored the [program operational parameters](#) for women migrating from India to Gulf countries.

The Unifying Methodology: Community Life Competence Process (CLCP)



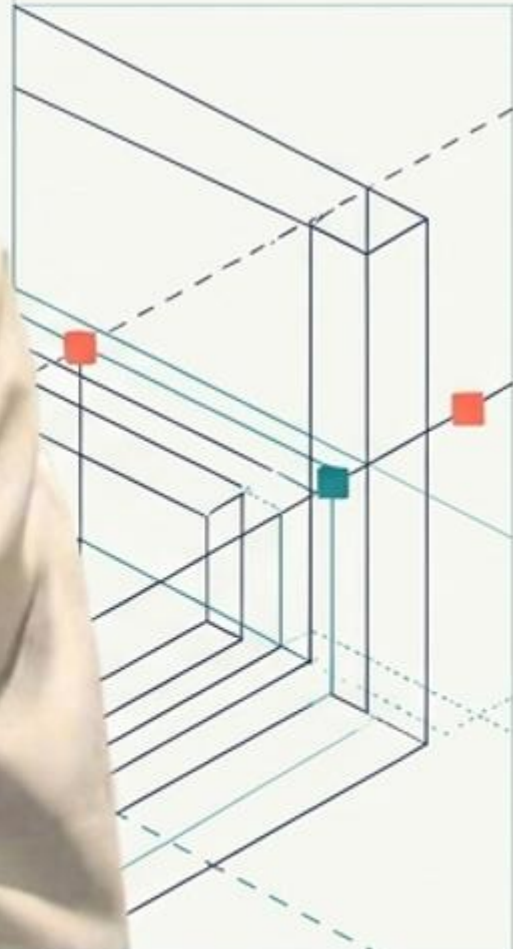
THE PARADIGM SHIFT

- Moving away from traditional “Targeted Interventions (TI)” which treat communities as passive recipients.
- VS —
- **Towards true community empowerment:** Whether treating HIV, tracking hypertension, or building digital APIs, the goal is always facilitating communities to power their own change.



Dr. Essa Mohamed Rafique

Transitioning global health from vertical silos to integrated ecosystems.



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LinkedIn



ORCID



Upwork



Stack
Overflow