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SESSIONS
15-17 JUNE 2021



Digital Health: Leveraging Global Public Goods to Fight COVID-19

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90% of **DEATHS** from disasters occur in LMIC



National and Regional Infrastructures

- Travel on Roads and Bridges
- Power Issues
- Telecommunications

Effect access to Clean Water, Food, Sanitation...

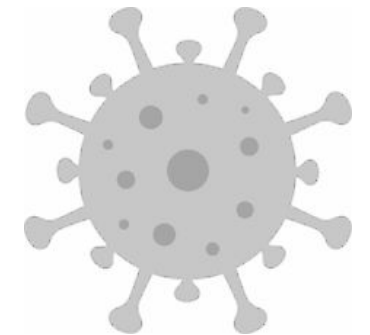
...AND HEALTH SERVICES

Internally **DISPLACED** Persons in 2020

46 mil

**VULNERABLE POPULATIONS
COMPLEX CARE NEEDS PATIENTS**

- Medication adherence
- Critical lab testing & results
- Paper medical records and documented treatment plans
- Preventive services for identifying newly infected



80 mil

Persons forced from their homes globally

CHALLENGES FOR HIS IN GLOBAL HEALTH



Limited
developer
resources



Multiple
implementation
partners and
stakeholders



Complex
funding
environment



Training and
Education



Testing and
Validation



Change
Management,
Policy, and
Pacing Issues



Unreliable
Connectivity,
Infrastructure, &
Environment

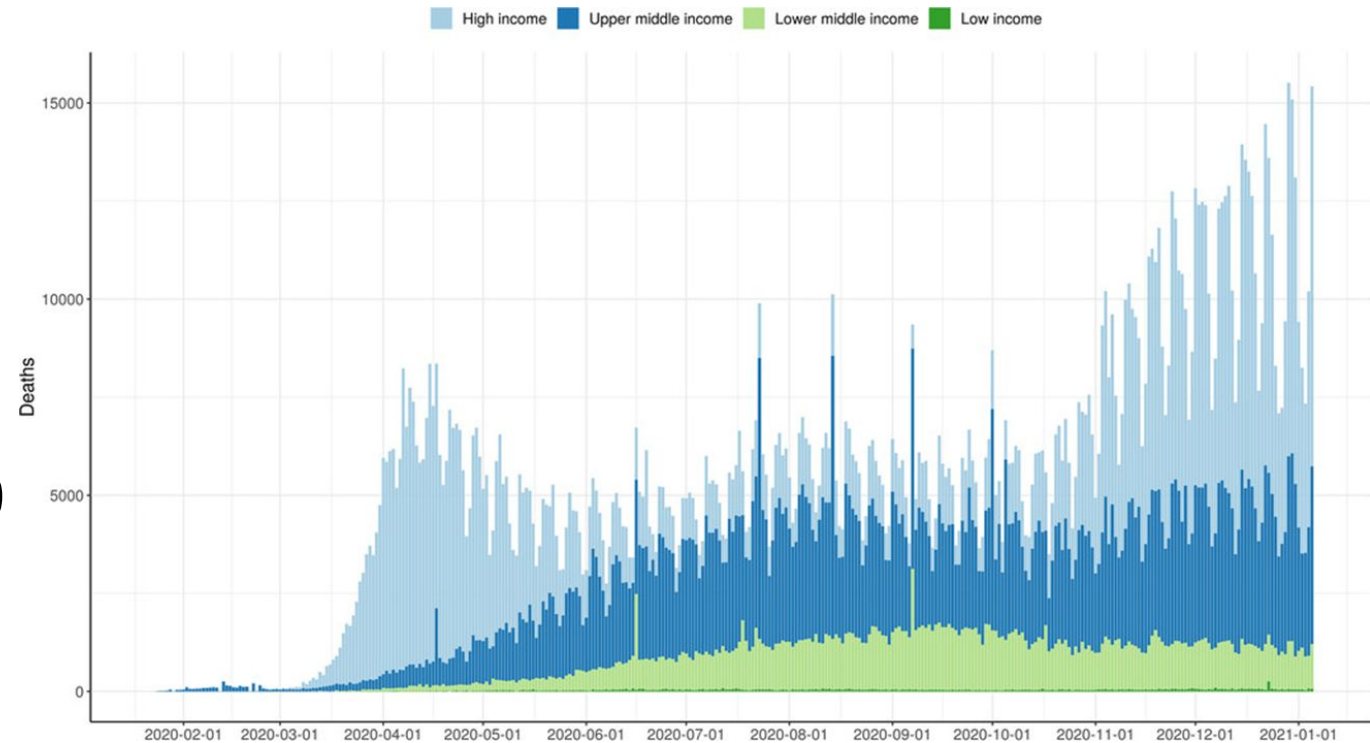


Sustainability
and
Maintainability



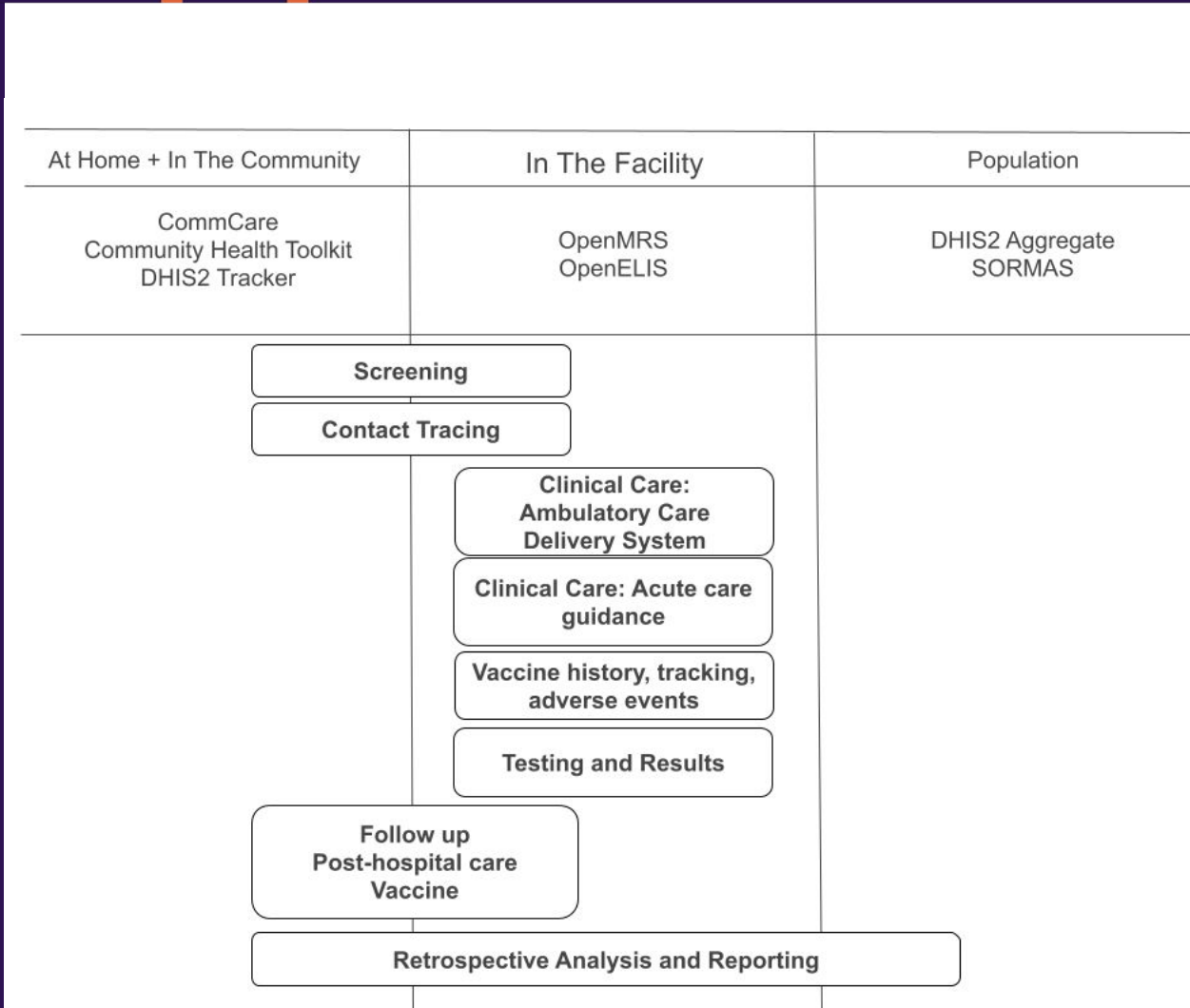
Scalability

- Faster public health response early on
- Relatively younger population
- Under-reporting of infections and deaths
- Accessing & delivering COVID-19 vaccines and therapeutics
- Financing for vaccine and therapeutics
- Identifying eligible individuals





- Improve data collection and access to high quality data
- Support the care cascade across sites and borders
- Reduce the multiplicity of systems
- Address the human resource gap





OpenCR

Why this approach?

- Go Further Together, Continuity with Pooled Knowledge
- Replicability + Reusability
- Faster available solutions broadly available for COVID-19

What is the Implementation approach?

- Community engagement and decision-making
- Reuse and improve
- Standardised and community approved processes

Outcomes?

- Broad sustainability, diversified resources/funding
- Increased efficiency, Re-use rather than re-invention
- Quick success/fail fast, iterate for improvements





OpenHIE and **OpenMRS** support for IPS for immunization records, smart vaccine certificates incorporation



OpenELIS and **OpenHIE** architecture support in-bound passenger registration, on-arrival and national laboratory testing, referral testing workflows, and contact tracing in Mauritius - all using FHIR

Technology isn't the focus – changes too fast – instead how data is used:

- ❖ Focus on data availability, exchanges, and re-use despite challenges
- ❖ Focus on the permanence of data through modular architectures
- ❖ Focus on equipping countries with the knowledge and capacity for standards-based sustainable architectures and protections for the data they produce and use.

Potentially unprecedented benefits to both population and individual health

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