

# OpenHIE Covid-19 Taskforce

Presentation to DHI&I

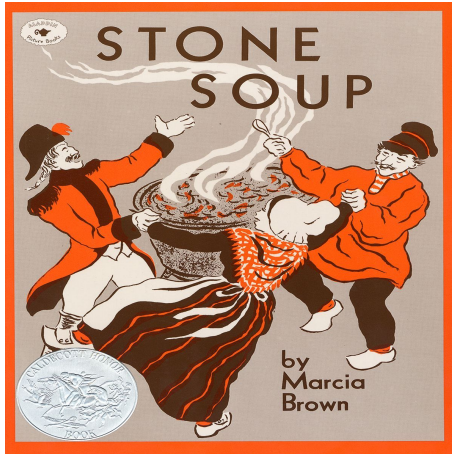
April 16, 2020

# OpenHIE Covid-19 Task Force Update

- Established April 2020
  - Co-Chairs- Garrett Mehl (WHO) ; Carl Leitner (Digital Square); Terry Cullen(Regenstrief)
  - Meetings- Mondays 11-12 Eastern Time ( April 7, 13)
  - Wiki & Calls <https://wiki.ohie.org/display/SUB/COVID-19+Task+Force>
  - Interest form <https://bit.ly/covid-taskforce-interests>

## *Values*

- **Avoid the chaos** - platform for coordination across global goods deploying solutions, keep signal-to-noise ratio high
- **Utilize existing solutions** - looking at supporting and augmenting existing tools deployed in countries
- **Build towards digital health systems** - although not focused on humanitarian / emergency response, provide support so that these tools can integrate into national digital health infrastructures
- **Augment** - recommendations, guidance should be developed and implemented in ways that augment the short-term / humanitarian response needs as appropriate. It should not hinder these efforts



# OpenHIE Covid-19 Task Force Update

- Terms of Reference (*endorsed April 13, 2020*):
  - Identifying and collating information relating to data standards and exchange relevant to the Covid-19 response
  - Identifying gaps in and establishing standards for data exchange priorities
  - Provide documentation and guidance (to both the global good community as well as proprietary software tools) to improve adherence to these standards
  - Ensure that rapidly deployed solutions can be integrated into the national digital health architectures
- Logistics
  - weekly calls
  - wiki = <https://wiki.ohie.org/display/resources/COVID-19+Task+Force>
  - discourse = <https://discourse.ohie.org/t/covid-19-response/3125>
  - notes = <https://wiki.ohie.org/display/resources/2020-04-06+COVID-19+Task+Force+Cal>
- Potential Work streams (next slide)

# Open HIE Covid- 19 Task Force - Potential WorkStreams

## Case reporting

- to district
- to regional
- To national
- to global

## Contact tracing

- cross-platform
- cross-jurisdiction
- line lists

## Labs

- Specimen Order and tracking
- Specimen transport
- Results notification

## Self-care

## Facility Management

- Inventory (PPEs, beds, equipment, cold-chain present, x-rays, staff knowledge)
- Organizational Functional-readiness
- WHO SARA - augmented for Covid-19

## Care management

- at-risk populations
- immunocompromised

## Supply Chain

- PPEs
- reagents / test kits

## Health worker communication

- PPEs
- Updated clinical guidance
- Clinical care guidelines (e.g. computable)
- Staff knowledge

## Telemedicine and Virtual Care

- Self-screening
- Self-reporting for patients - under quarantine
- Self-reporting for HWs -proactive symptom check
- Remote diagnosis & virtual health facility triage

## Mortuary

- Reporting forms
- Mortuary Capacity (maybe in SARA)

## Privacy

- What are current guidelines from different countries and how they are changing
- Cross Border

## One Health Agenda

- Animal
- Human
- Plant

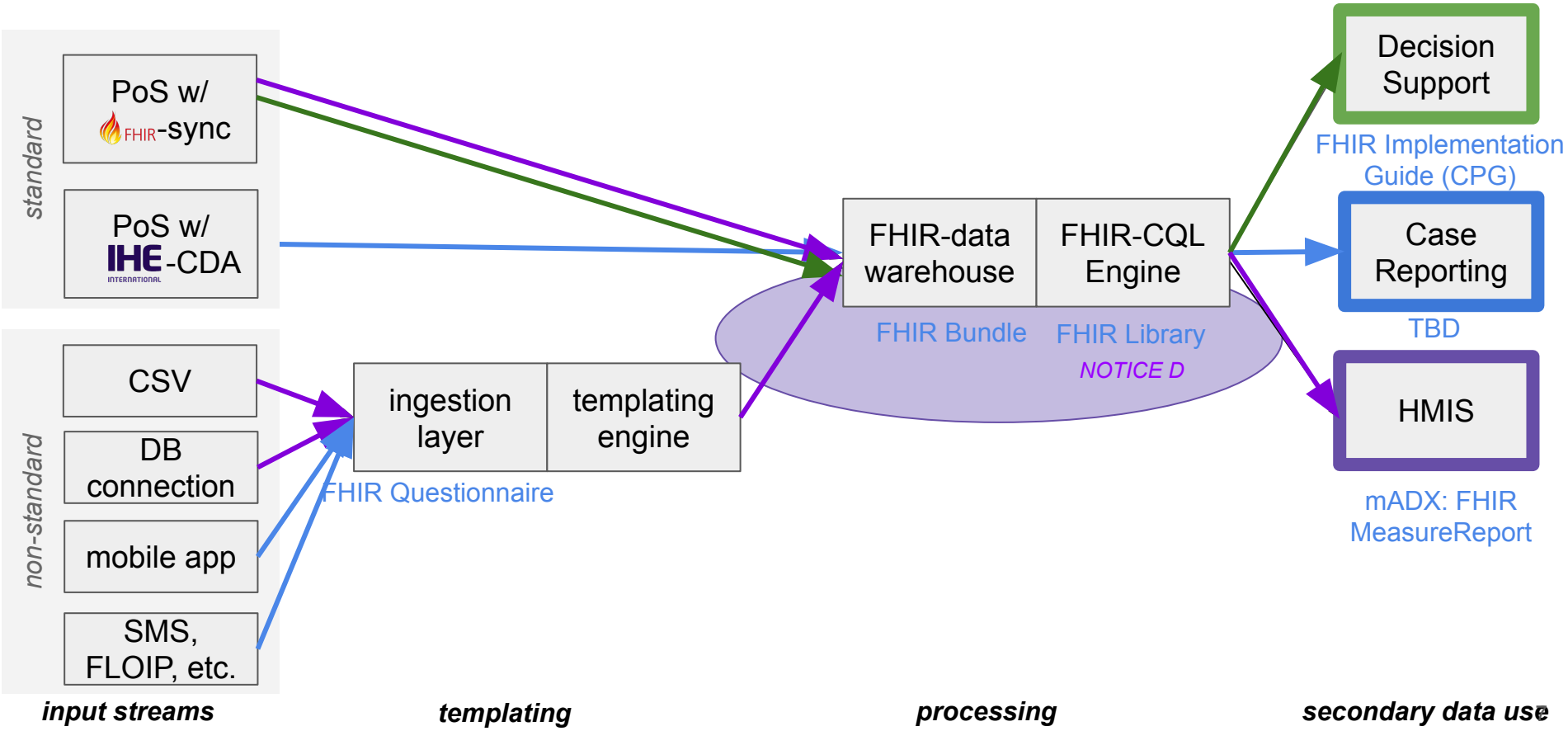
# OpenHIE Covid-19 Task Force Update

- Draft work plan(s) based on use cases
  - [DRAFT Generic COVID 19 Workplan](#)
  - Frameworks and Approaches
    - Data Set
    - Semantic and syntactic standards
    - Normalize standards when possible
    - Develop FHIR IG when possible-- collaborate with others
  - Identify additional individual and /or organizational representation/ coordination
  - Self assignment to Workstream
- Prioritization- Case Reporting/Contact Tracing- Initial Workstream Meeting April 16
  - Second tab in draft generic COVID 19 Workstream
  - Initial Identified Data Models
    - <http://bit.ly/covid-data-models/> messaging
    - WHO
    - SORMAS
    - DHIS2
    - OpenMRS
    - CommCare
    - OpenEHR
    - Liberia IDSR
    - Logica FHIR IG
- Potential for other workstreams based on interest/ LOE/ timing

# Resources - to be expanded

- PEPFAR Technical Guidance  
[https://www.state.gov/wp-content/uploads/2020/04/04.15.20\\_PEPFAR-Technical-Guidance-during-COVID.pdf](https://www.state.gov/wp-content/uploads/2020/04/04.15.20_PEPFAR-Technical-Guidance-during-COVID.pdf)
- Collation of Data Models (Google sheet)  
<http://bit.ly/covid-data-models>
  - Includes LOINC, ICD, SNOMED, etc.
  - To-dos: add in CHT models, update DHIS2 w/ WHO mapping, ICD-II, normalize when possible; add <https://www.healthit.gov/techlab/ipg/node/4/submission/3206>
- HL7 Resources and Activities for Covid-19 <https://confluence.hl7.org/display/CR/COVID-19+Response+Home>
- FHIR Implementation Guide for health facility situational awareness  
<http://build.fhir.org/ig/AudaciousInquiry/saner-ig/>
  - Implementation Guides are a good way to package task force recommendations
- FHIR implementation guide for Initial Case Report  
<https://build.fhir.org/ig/HL7/case-reporting/>
  - US centric, structural basis for Covid-19 case report?
  - To-dos: map to global good data case report models
- FHIR implementation guide for Covid-19 demographics and vitals  
<https://covid-19-ig.logicahhealth.org/>
- FHIR Chat Group <https://chat.fhir.org/#narrow/stream/226195-Covid-19-Response>
- FHIR synthetic data with Synthea  
<https://github.com/synthetichealth/synthea/issues/679>
  - Is the dataset feasible in LMICs? Should we look at a more constrained dataset matching the global good models <sup>6</sup>
- Synthetic Data Sets for Covid-19 (US Centric) <https://github.com/synthetichealth/synthea/pull/683>

# Standards based data workflows in computable care



# Questions