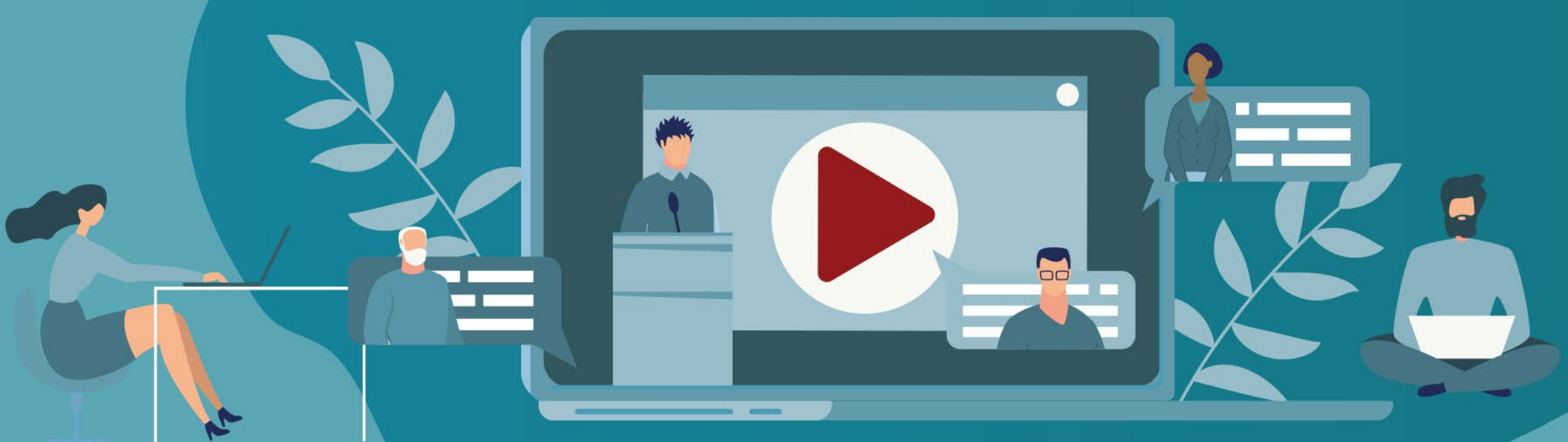


# FHIR and Health Information Exchange

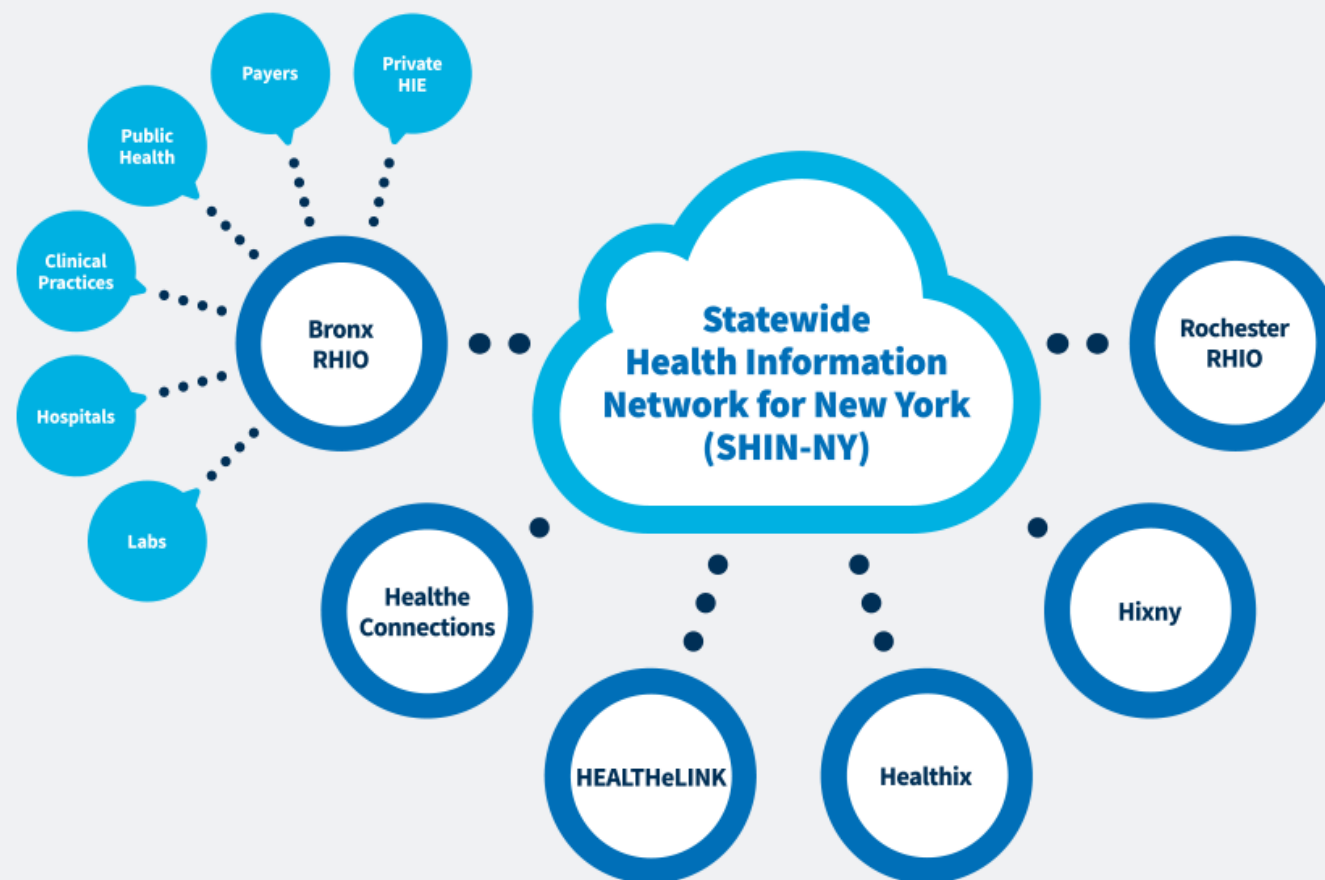
Luke Doles, New York eHealth Collaboration (NYeC)



HL7 FHIR DevDays 2020, Virtual Edition US, June 15–18, 2020 | @HL7 @FirelyTeam | #fhirdevdays | [www.devdays.com/us](http://www.devdays.com/us)

# New York State RHIO Environment

- Multiple Regional HIEs
- Various HIE Technologies
- Exchanging Documents in Clinical Viewers Since 2015
- Display of Multiple Documents



# IHE Cross Community Implementation (XCA)



Complex SOAP Transactions



Validation of All Messages from All RHIOs



Centralized Orchestration / Build RLS Service



All RHIOs Go-Live



Project Timeline • 2<sup>nd</sup> Q 2014 - 4<sup>th</sup> Q 2015



16-18 Months for Implementation



# IHE XCA Limitations



Amount of Data and Size of Documents



On-Demand Document Generation



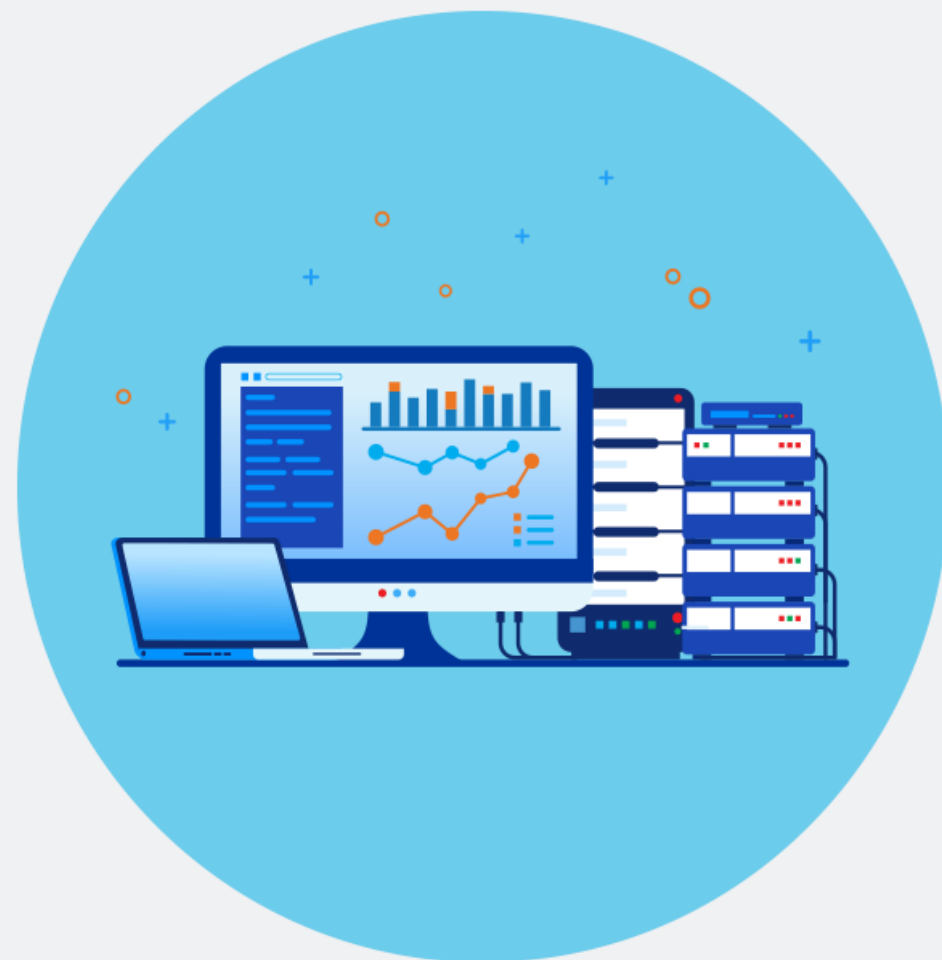
Multiple Failure Points



Weekly Testing in Production



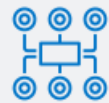
Limitations for Discrete Data



# FHIR Framework Implementation



## RHIO FHIR Endpoints



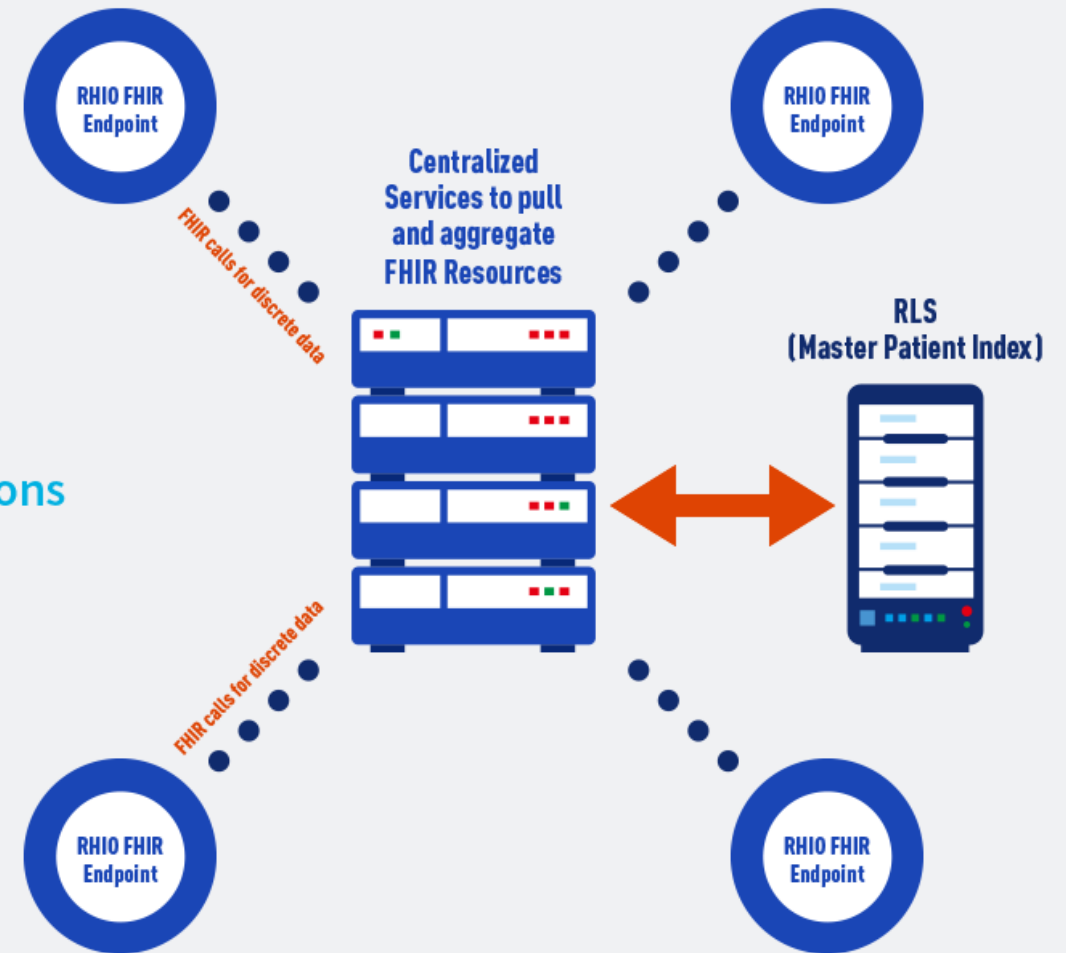
## Centralized Service

- Utilized existing RLS service
- Bundles FHIR resources from multiple endpoints
- Control endpoints and variations in implementations



## Project Timeline

3<sup>rd</sup> Q 2019 – 1<sup>st</sup> Q 2020



# FHIR Implementation Details



Vendor FHIR Servers or New Development



Limited FHIR Resources



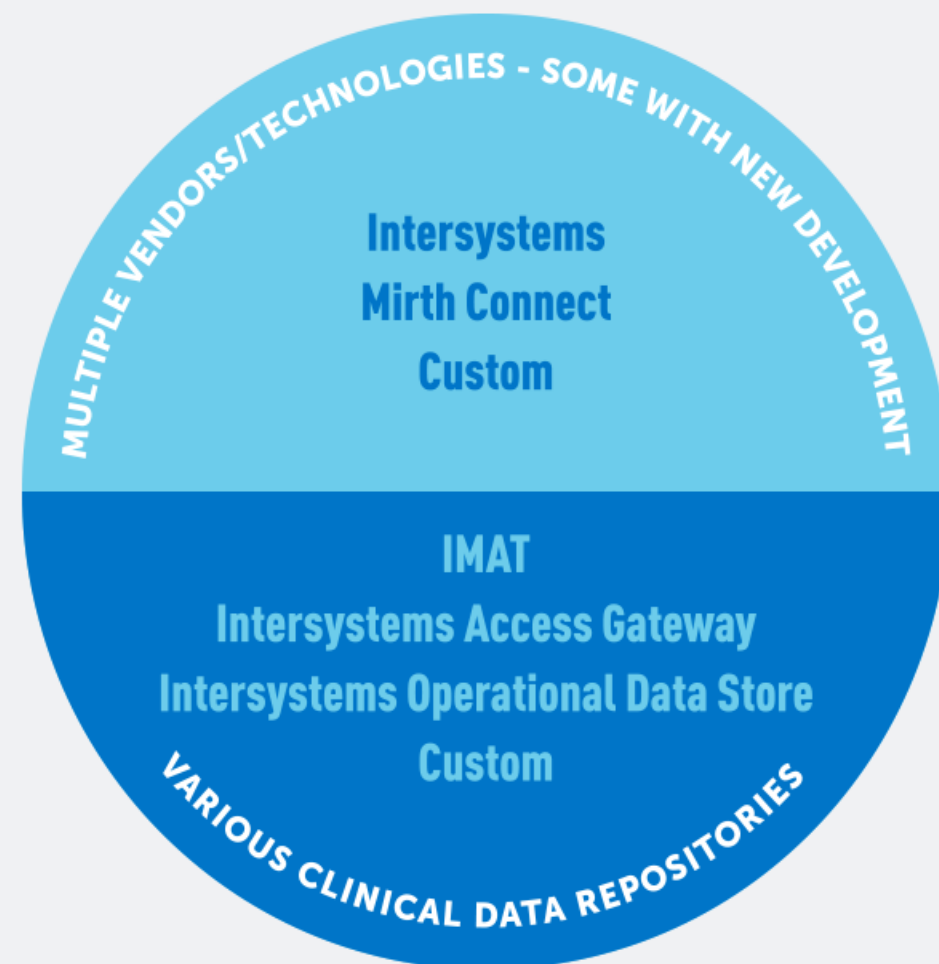
Requests Constructed by Centralized Service for the Patient Cohort



System to System Implementation



JWT for Audit (IHE IUA)



# Timeline Comparisons

IHE XCA Implementation • **18 Months**



FHIR Framework • **8 Months**



# Future Plans



**Additional FHIR Resources**



**Bulk FHIR for Public Health**

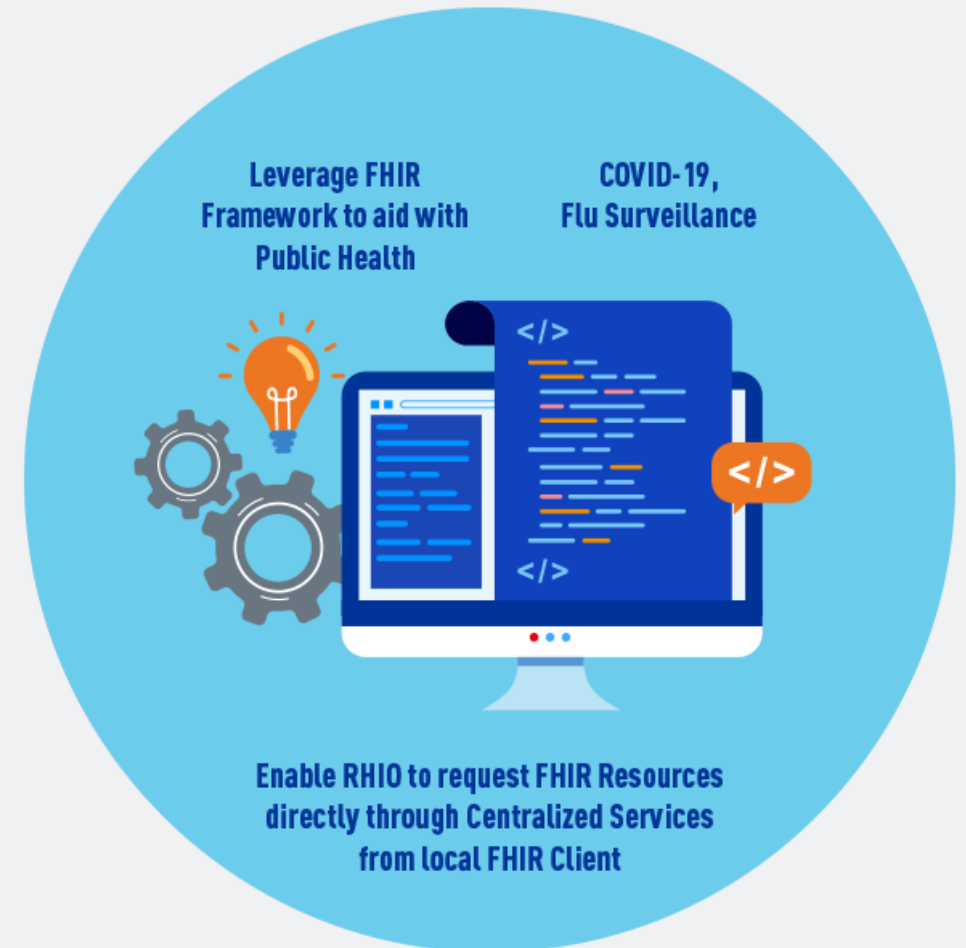
- COVID-19
- Flu Surveillance



**RHIO FHIR Request to Centralized Service**



**Plan to move to V4**





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