
Next-Generation Interoperability for Public Health

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CSTE Data Preparedness Workshop
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OUR COMMITMENT

To get better, faster,
complete and accurate
data to state and local
public health departments
so that they can take
appropriate timely action.



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WHERE WE WANT TO BE

A future state where public health departments can more easily and effectively:

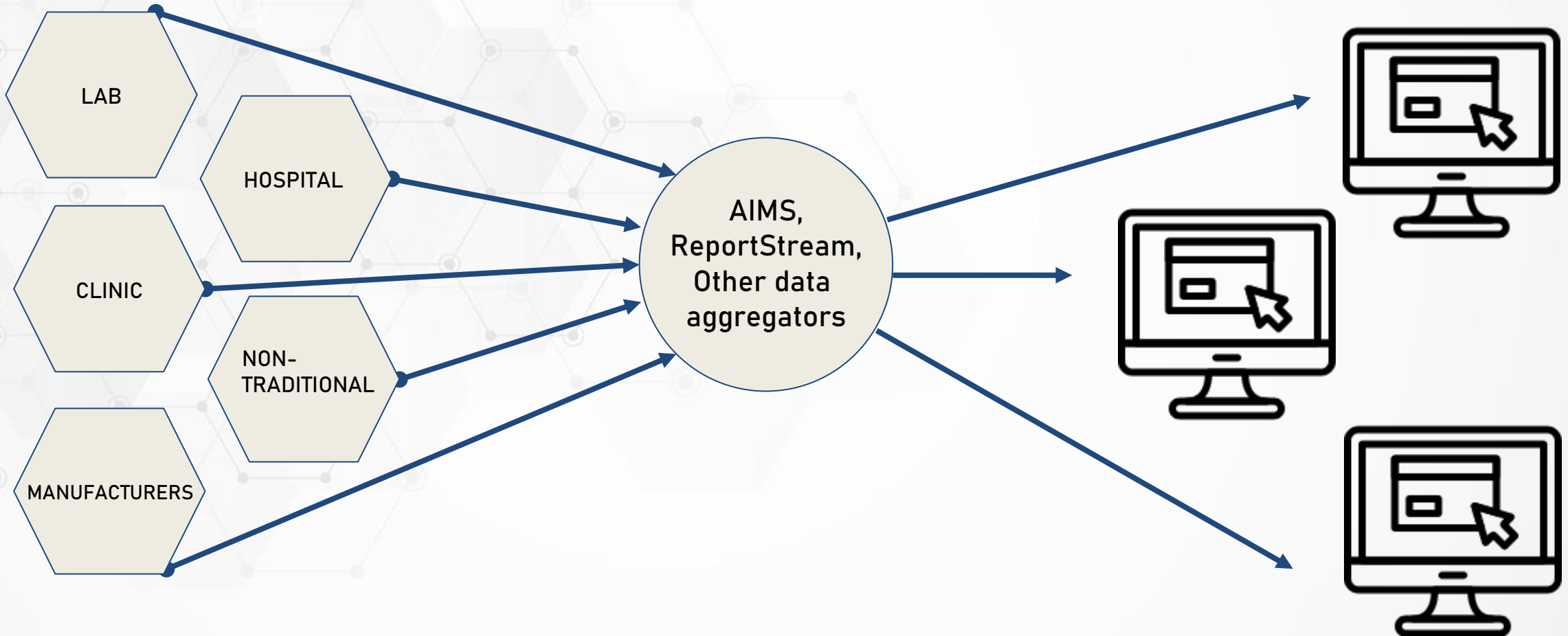
- Analyze data and use it for routine surveillance and response activities
- Collaborate with partners to help address unanswered questions (e.g., understand spectrums of disease, identify risk factors for severe outcomes)
- Track public health threats in real-time to help coordinate interventions

CURRENT OBJECTIVE: MOVING TOWARDS CENTRALIZATION

SENDERS

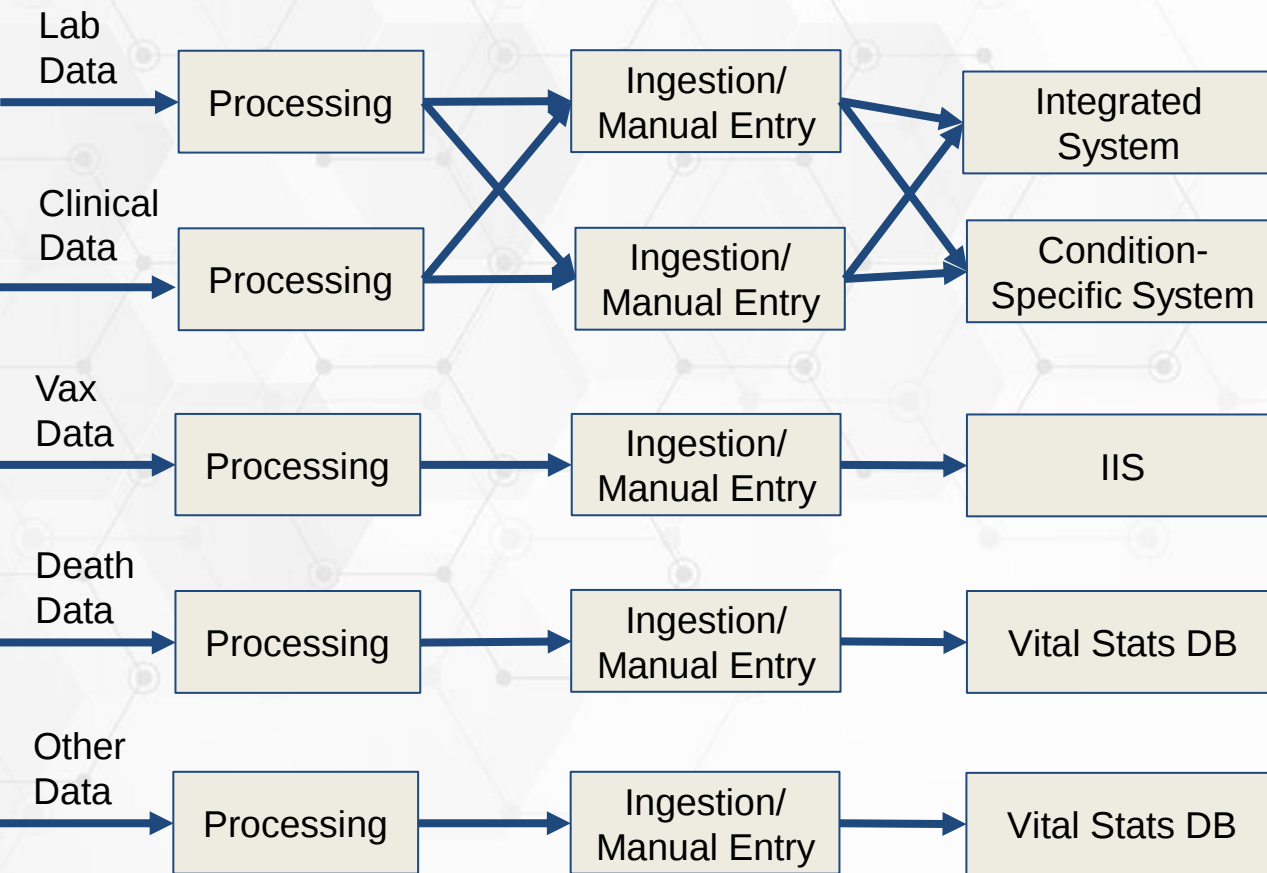
CENTRALIZED DATA FLOWS

PUBLIC HEALTH



WHAT'S STILL IN OUR WAY

Once inside health department information systems...



- Unable/difficult to modify systems/forms
- Spending time reconciling duplicate records
- Managing point-to-point connections
- Writing code to identify matches
- Re-entering data into multiple systems
- Difficulty extracting and using data
- Sharing data across systems / interoperability

HOW WE GET TO OUR GOAL

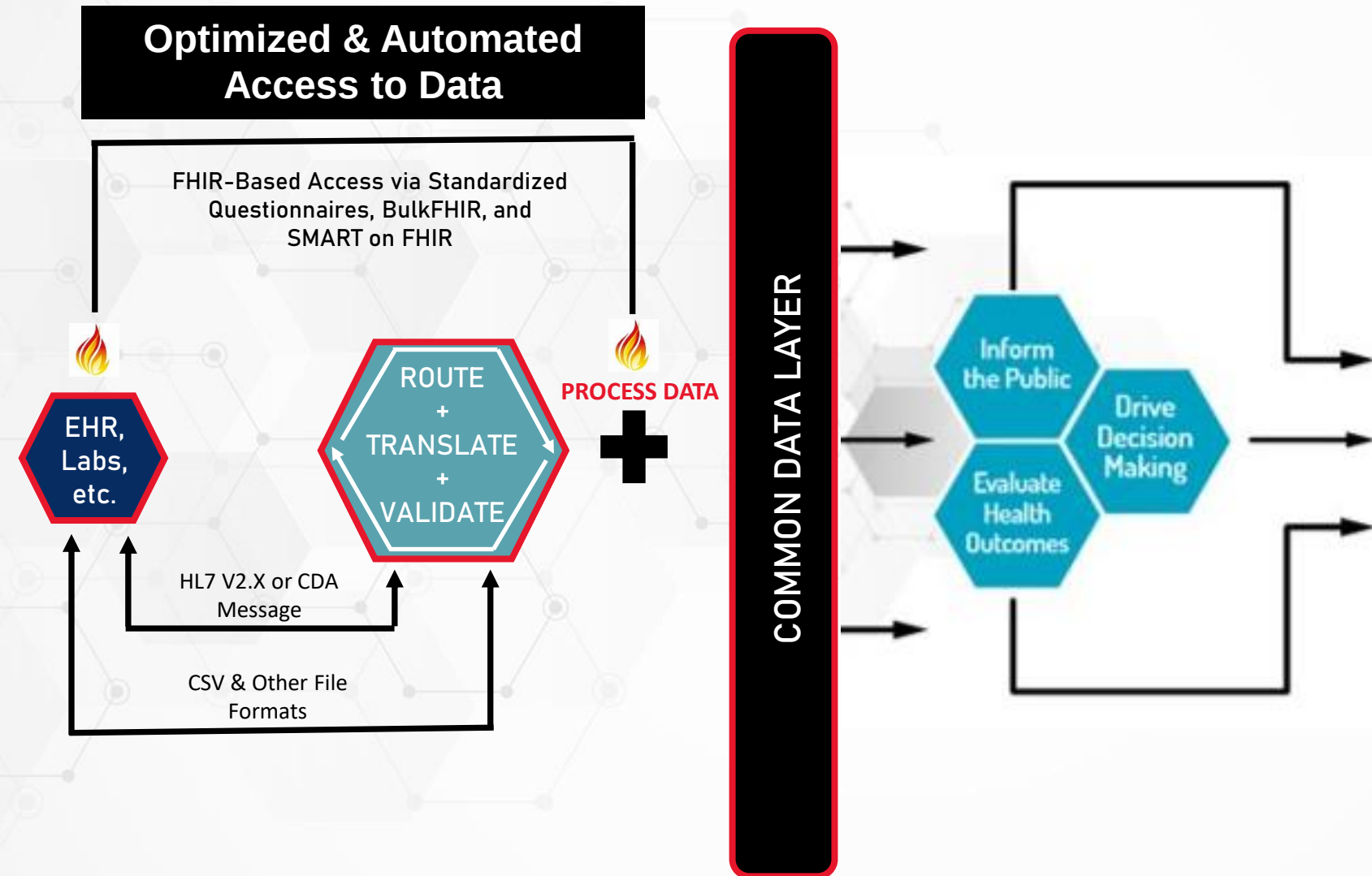
Modern public health infrastructure should be...

SUSTAINABLE

FLEXIBLE

SCALABLE

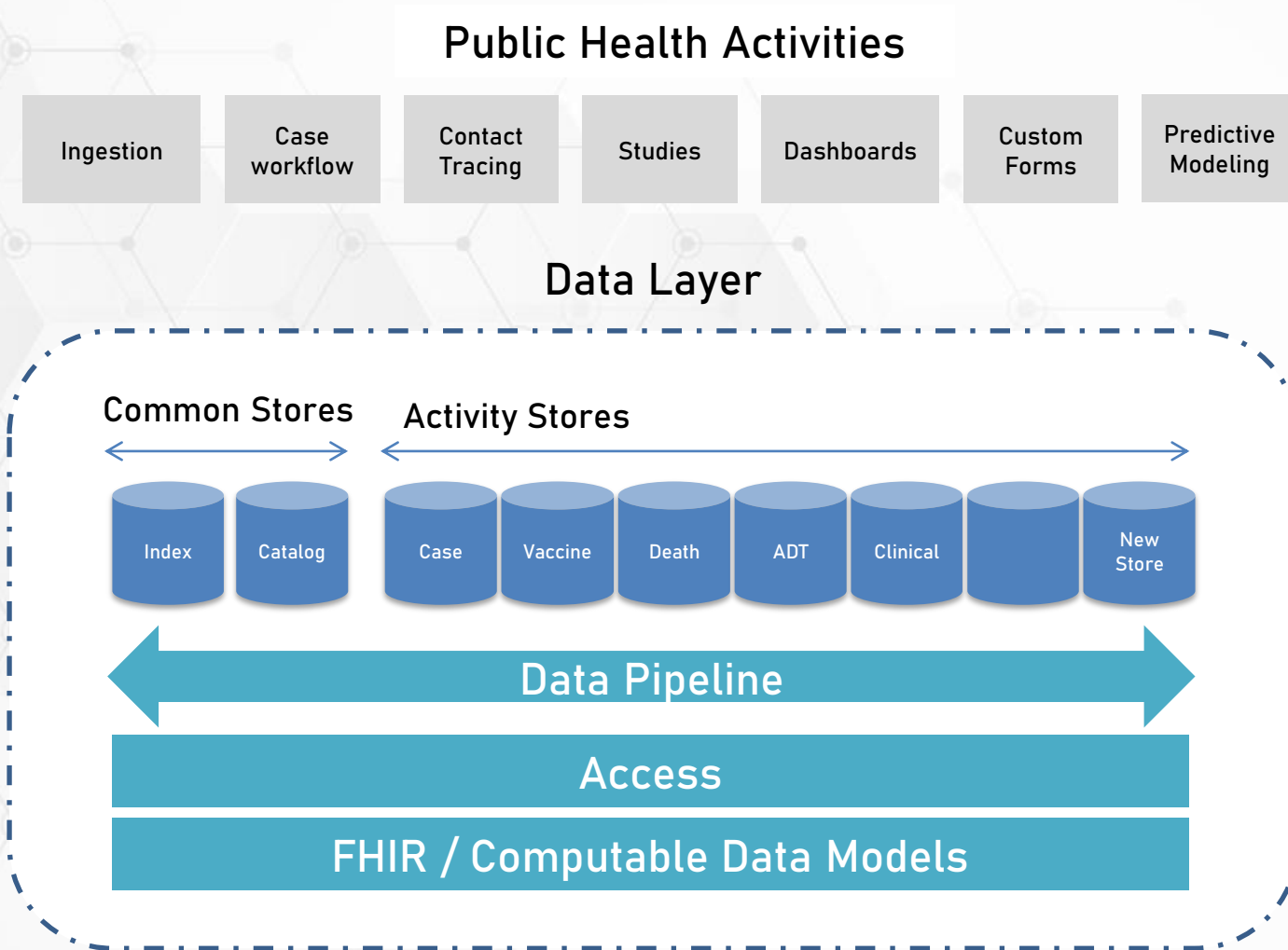
LEVERAGING TECHNOLOGY TO ACHIEVE OUR GOAL



What This Will Allow Public Health to Do:

- Pave the way for a strategic transition to FHIR and advanced analytics nationwide
- Help "lighten the load" on the processing, consuming, and analysis of the data
- Automate data validations and offer feedback mechanisms to data providers
- Rapidly onboard new data providers, accommodate large influxes of data, and link data feeds across sources

MORE ON THE DATA LAYER CONCEPT



A data layer needs to:

- Support existing and new activities
- Incorporate existing data sets
- Cross-link and index data across data sets
- Access data in standard formats and methods
- Classify, match, index and transform data in a near real-time fashion
- Promote the sharing of data-sets across jurisdictions

OUR QUESTIONS FOR YOU

- What resonates with you?
- What's missing?
- How might we best communicate this to our STLT partners?