



# DDPHSS-DMI Consortium Meeting: Executive Summary November 16, 2022

## Purpose

*The purpose of this session was to seek individual perspectives and experiences, not group consensus advice, to inform planning, engagement, and strategies in the identification and development of sustainable and efficient solutions for interoperable and streamlined data flows, shared solutions, and health data analysis for public health purposes.*

*This meeting was convened as a group of multisector public health partners (government, public health, industry) to increase dialogue, prioritize goals, and vet real life solutions to achieve a desired future state PH data ecosystem that provides timely, secure, adaptable access and transfer of data and information to effectively drive public health action.*

## North Star Architecture Updates

Presenter(s): Mike Judd, Jim Duff, Leslyn McNabb

Current as of November 15, 2022 PRELIMINARY | NOT EXHAUSTIVE  
FOR DISCUSSION ONLY

### Steps STLs can consider now in preparation for North Star Architecture

<p><b>Stay aware of North Star Architecture related updates and provide feedback</b></p>	<p><b>Align technical decision making to North Star Architecture</b></p>	<p><b>Inform and co-create how CDC provides streamlined technical assistance</b></p>	<p><b>Anticipate potential funding-related guidance to align data modernization activities with North Star Architecture</b></p>
<p>Today</p>		<p>Over DMI Phase 2</p>	

Source: CDC DMI working sessions July - October 2022 and DMI strategic Roadmap 6

CDC and USDS representatives provided an overview of the goals of DMI as teams move from Phase 1 to Phase 2, including establishing impact, building core capabilities, and testing ideas, with a focus on working with partners to continue to develop the North Star Architecture and its subsequent Building Blocks. Speakers detailed two North Star Architecture components, ReportStream and Data Exchange (DEX), including the public health purposes, phased rollouts, and anticipated impacts of both. Consortium members were able to ask questions following the presentations and CDC officials indicated outreach to STLTs regarding these services would begin shortly.

## Data Processing Prototype Overview and DMI Implications

Presenter(s): Mike Judd

### Overview

#### Challenges in Virginia

- Multiple data streams (lab, case and vaccine)** with limited ability to quickly and easily perform analyses
- Difficulty in identifying vaccination gaps** for targeted outreach due to **limited use of geocoding** within data
- Lack of analysis-ready data** increasing manual effort required to drive actionable insights

#### Goals of pilot

- Explore new approaches to store, process, link incoming data streams** to yield analysis-ready data and actionable insights
- Ensure data is standardized**, allowing more efficient processing and accurate analysis and **enable data exchange with external partners with minimal translation need**
- Test how reusable, modular tools** (i.e., “building blocks”), such as geocoding services, could aid more targeted, informed public health action

The CDC team emphasized their commitment to providing frequent updates on the North Star Architecture’s development, starting with the Virginia Pilot Project. Speakers began with an overview of the project, designed as a data pipeline effort to assist the Virginia Health Department reduce significant manual effort needed to access clean, analysis-ready data for public health action across multiple data sources and use cases. This pilot provided a working prototype of a customizable, cloud-based data pipeline (“Starter Kit”) comprised of a set of “building blocks” serving as fundamental tools that automatically process raw datasets. The project improved data pipelines and served as a basis for CDC to continue to understand STLT needs and inform infrastructure recommendations. The CDC team indicated their desire to expand this and similar pilots to other jurisdictions and that the full report on the pilot would be released in the coming days. If STLT partners are interested in participating in building block focus groups, they are encouraged to reach out to [dmibuildingblocks@cdc.gov](mailto:dmibuildingblocks@cdc.gov) to volunteer.

*For questions regarding the CDC DDPHSS-DMI Consortium, please contact [DMIconsortium@cdc.gov](mailto:DMIconsortium@cdc.gov).*