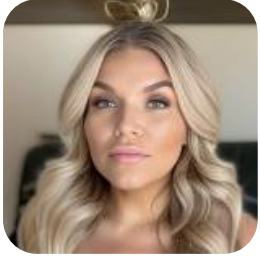**Effectively Onboarding Providers Through Data Quality Analysis, Ensuring Interoperability Readiness**

Chloe Watts, STChealth
Arjeane Thompson, Louisiana Department of Health

Our Team

STChealth and LINKS

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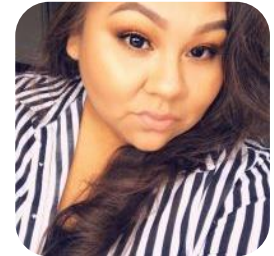
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LINKS IIS Program Manager

Scarlett McGovern & Alex Chan
LINKS Interoperability Program Monitors

Welcome

> " IIS data quality is the degree to which data sent to or stored in an IIS meet current standards, support clinical decision-making needs, and can be used to answer key public health questions with high confidence. It also relates to how accurately the data within the IIS reflect vaccination events. "
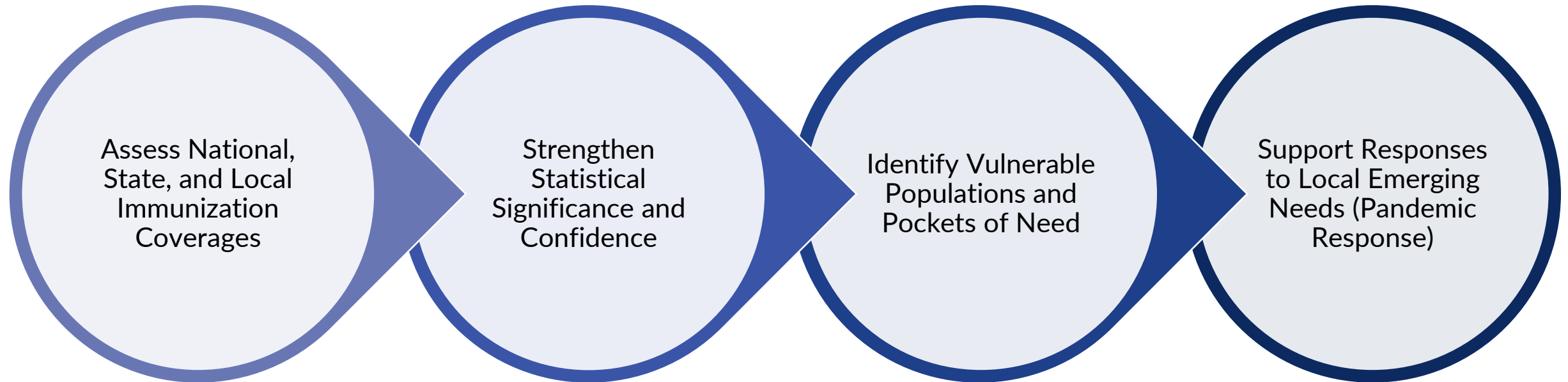>
> *AIRA*

Blueprint of Data Quality in an IIS

Completeness, Accuracy, and Timeliness are the two biggest components when it pertains to Data Quality in the Immunization world.

Accuracy

High-quality data should be correct and free from errors or inconsistencies. Data precision and accuracy depend on how the data will be used; thus, it's important to understand the purpose of data to avoid wasted resources and off-target information.

01

Validity

Data validity pertains to specific requirements set for data types, like surveys with predefined answer options for ethnicity, gender, or nationality. Incomplete or incorrect answers are considered invalid, which is crucial in determining data quality.

04

Completeness

Data completeness varies for every program however the CDC does provide an implementation guide on best practice and most states follow closely.

02

Data Quality

Timeliness

Timely and accurate data is crucial for providing patients with the best possible care. Delayed or outdated information can lead to incorrect diagnoses, inappropriate treatments, and even patient harm.

05

Consistency

Data collected by multiple systems may have originated from different sources, but a steady mechanism must ensure consistency across data collection and storage. This is to avoid unwarranted variances that could affect data quality, regardless of the data source or storage location.

03

Integrity

Data integrity ensures the data remains unchanged and secure, while data quality ensures the data is accurate, relevant, and reliable. Both data integrity and data quality are essential for ensuring trustworthy and valuable data that supports informed decision-making and operational efficiency.

06

AIRA

STC health

LOUISIANA DEPARTMENT OF HEALTH

Downstream Impact of Data Quality

The Challenges

Every jurisdiction will face unique challenges specific to its area and providers.

01   **Staffing, Time, and Money**

02   **Resistance to Change**

03   **HL7 Standardization**

The Solutions

A complete and precise onboarding process can alleviate those challenges and bring forth 3 major goals:
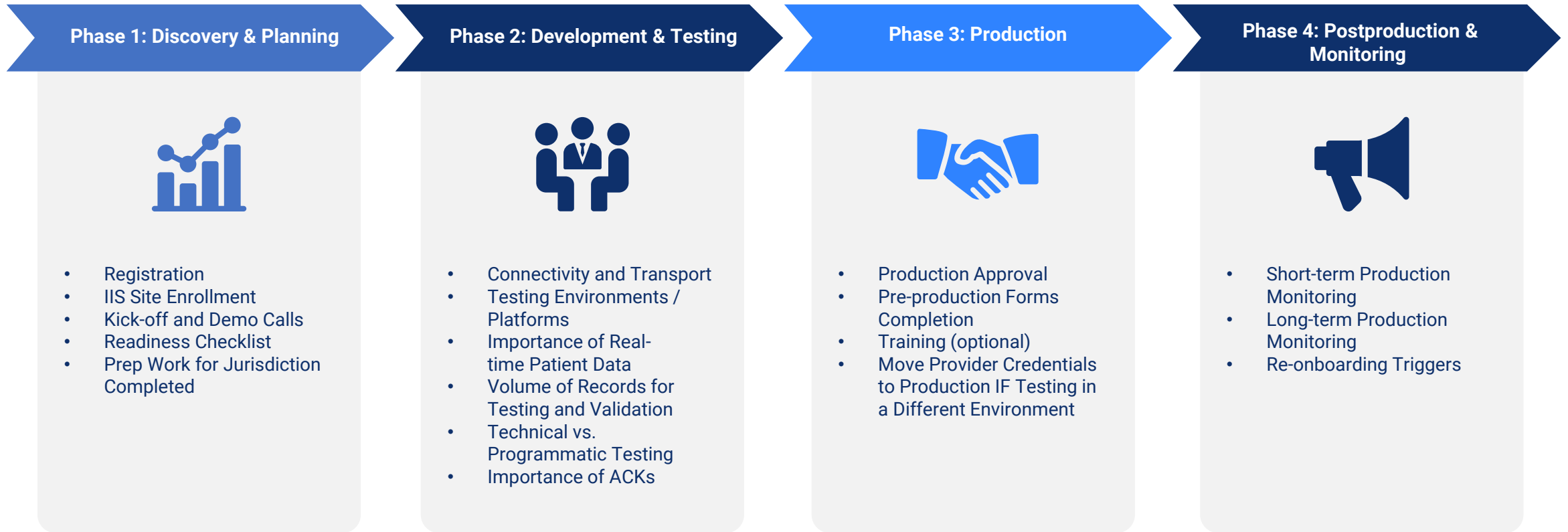
01   **Reduce Wait List Times**

02   **Increase Standardization**

03   **Meet Data Quality Goals**

Phases of Onboarding

Phase 1: Discovery & Planning

- Registration
- IIS Site Enrollment
- Kick-off and Demo Calls
- Readiness Checklist
- Prep Work for Jurisdiction Completed

Phase 2: Development & Testing

- Connectivity and Transport
- Testing Environments / Platforms
- Importance of Real-time Patient Data
- Volume of Records for Testing and Validation
- Technical vs. Programmatic Testing
- Importance of ACKs

Phase 3: Production

- Production Approval
- Pre-production Forms Completion
- Training (optional)
- Move Provider Credentials to Production IF Testing in a Different Environment

Phase 4: Postproduction & Monitoring

- Short-term Production Monitoring
- Long-term Production Monitoring
- Re-onboarding Triggers

Onboarding

Onboarding is a term used to describe the process and activities necessary to establish an electronic interface between an immunization provider's electronic health record (EHR) system and a jurisdiction's immunization information system (IIS).

01 Readiness Checklists & Up-To-Date HL7 Spec Guides

02 Dose Level Accountability

03 Kickoff and Demo call

04 Consistent Communication

05 Project Tracking (identify best resource)

06 Ongoing Training, Education, and Post Production Data Monitoring

Resources

- AIRA Onboarding Shared services - https://www.immregistries.org/onboarding-templates

- AIRA Onboarding Consensus-based recommendations - https://repository.immregistries.org/files/resources/5c377a4b2a490/aira_onboarding_recommendations_final_updated.pdf

- AIRA Data Quality resources - https://repository.immregistries.org/resource/data-quality-assurance-in-immunization-information-systems/

- CDC Blueprint to Data Quality and IIS information - https://www.cdc.gov/vaccines/programs/iis/about.html

- CDC IIS Technical Guidance guides - https://www.cdc.gov/vaccines/programs/iis/technical-guidance/index.html

- CDC Meaningful Use implementation and guidance - https://www.cdc.gov/vaccines/programs/iis/meaningful-use/index.html

- CDC Immunization Information Systems Annual Report (ISAR) - https://www.cdc.gov/vaccines/programs/iis/annual-report-iisar/index.html

CONTACT US

Vaccine intelligence to monitor, manage, and mobilize data for a healthier future.

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