

Blast Off! Relaunching IIP EHR Immunization Capabilities Testing

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HIMSS



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Goals for Today

- Introduce the IIP and Testing & Recognition initiative
- Highlight CDC Priorities and IIP's Alignment
- IIP Testing & Recognition
 - Background and History
 - Evaluation and Relaunch Activities
 - Pilot Testing
 - Moving to Modular
- Next Steps

Immunization Integration Program (IIP)



Immunization Integration Program (IIP)

- Sponsored by [Centers for Disease Control and Prevention](#) (CDC) and carried out through a collaboration between CDC, [Healthcare Information and Management Systems Society](#) (HIMSS), [American Immunization Registry Association](#) (AIRA), and [Drummond Group](#)
- **Goals and strategies**
 - Advance immunization capabilities in EHR products to improve data quality from the point of vaccination to data submission to public health
 - Improve interoperability between IIS and EHRs
 - The IIP leverages two strategies to achieve project goals:
 - The Testing and Recognition initiative gives EHRs the opportunity to validate their product's ability to successfully exchange immunization data with IIS.
 - The Collaborative brings together stakeholders from the IIS and EHR communities to tackle and identify solutions for common interoperability issues.

CDC's Informatics and Data Analytics Branch (IDAB) - Vision & Focus Areas

IIS support the **standardized capture, exchange, and use of high-quality, individual-level** immunization data for all doses of ACIP*-recommended vaccines.

These data are linked across jurisdictions, providers, and partners, and to other individual-level data sources to inform public health action.

Data Collection & Management

Develop governance; policy and strategy; and data quality standards in support of collecting, managing, and sharing national IIS data

Data Use

Assess, analyze, and use data to drive public health action across the IIS community, including jurisdictions, providers, and partners

Technology & Standards

Identify and develop new systems, tools, and standards, and support and modernize existing systems to improve performance, ensure consistency, and achieve mission goals

Community Engagement & Support

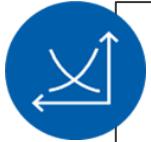
Accelerate the enhancement and performance of IIS by convening key stakeholders to develop guidance, identify best practices, and collaboratively solve problems

Key Branch Initiatives Advancing Our Priorities



Data Collection & Management

- National Immunization Surveillance System



Data Use

- IIS Data Quality Evaluation and Certification
- TA and Tools to Support Visualization



Technology & Standards

- Immunization Gateway
- Functional and Technical Standards
- Vocabulary and Code Sets
- Emerging Technologies
- Immunization Integration Program



Community Engagement & Support

- Technical Assistance
- Communication
- Partnerships

IIP Alignment to CDC Branch Priorities

CDC's IDAB sponsors the IIP and works with AIRA to carryout project activities. IDAB uses the IIP effort as a strategy to achieve the Branch's vision to support and ensure **IIS can standardize the capture, exchange, and use of high-quality, individual-level immunization data for all doses of ACIP*-recommended vaccines.**

IDAB Focus Areas:

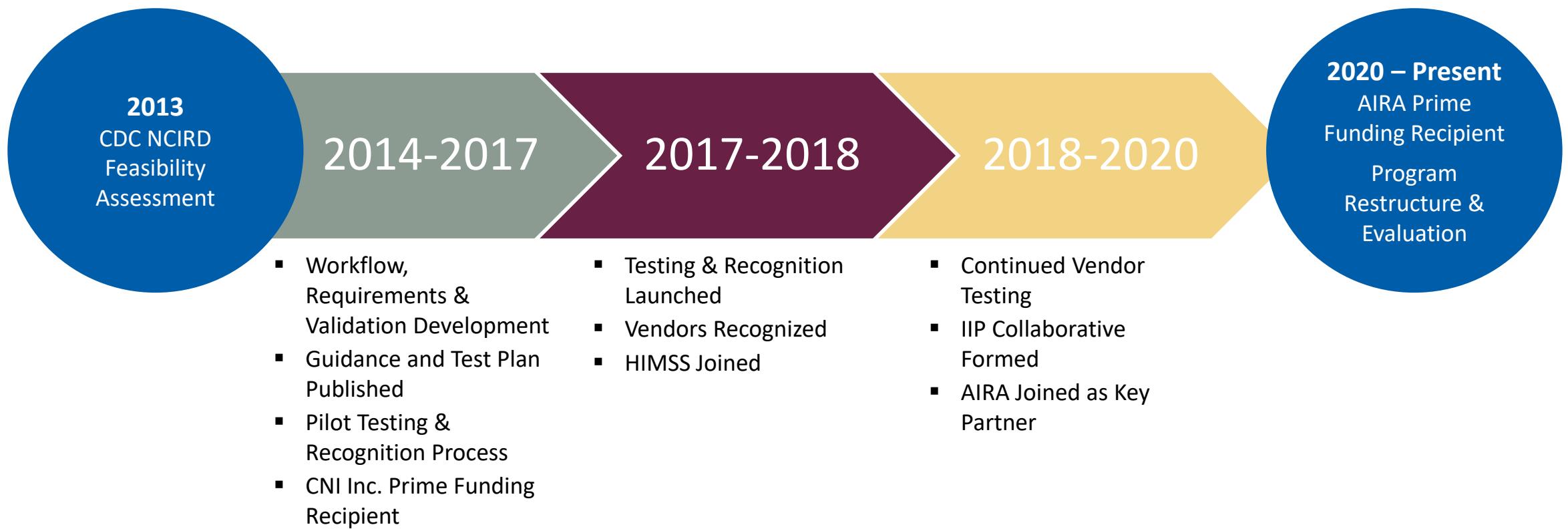
Technology and Standards

- **IIP Testing and Recognition:** Enhance electronic health record (EHR) capabilities to improve data quality, clinical efficiency and usability, and patient access, thereby enhancing immunization rates

Community Engagement and Support

- **IIP Collaborative:** Convene key immunization and EHR stakeholders to tackle common issues and recommend solutions to improve immunization interoperability

IIP Background & Evolution



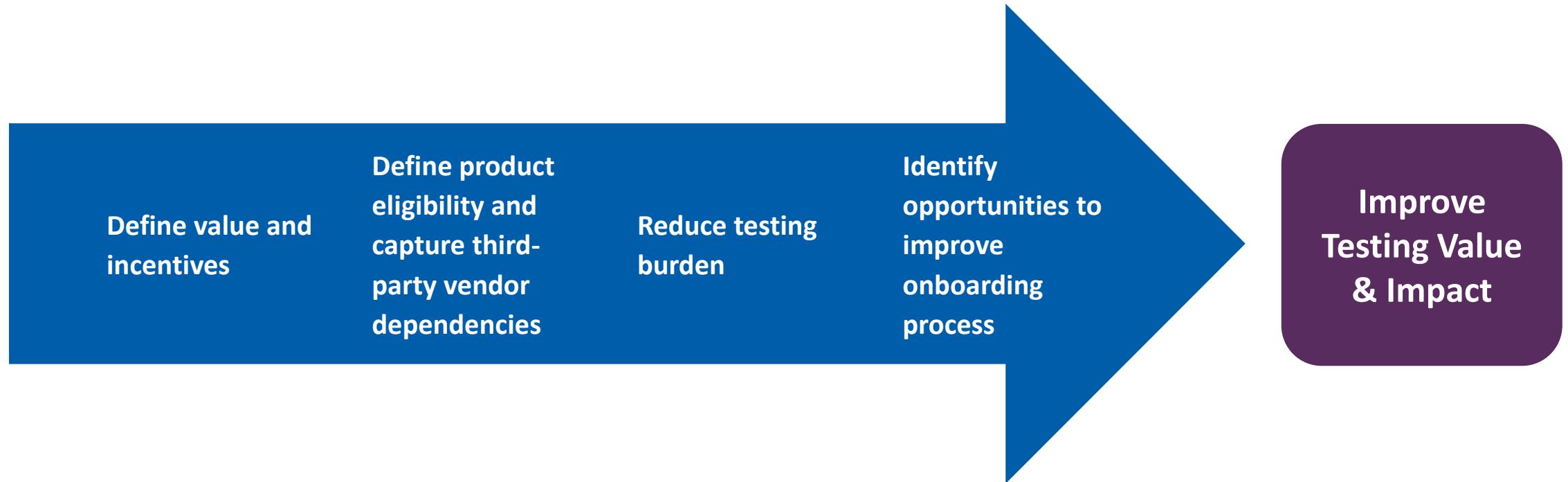
Current IIP Testing & Recognition Workflows

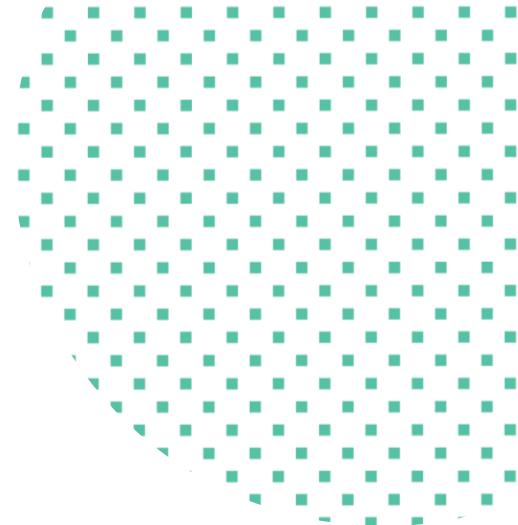


IIP Testing & Recognition Overview

- Testing performed by Drummond; test plan updated annually
- Parallels AIRA's Measurement & Improvement initiative to measure and test IIS alignment with recognized standards
- 7 vendor products tested and recognized 9/2017-8/2019
- Testing paused to conduct program evaluation, address challenges and define value

IIP Program Evaluation Recommendations





Relaunch Programmatic Updates

- **Eligibility & Readiness Assessment Tool**
 - Confirm product eligibility and assess vendor readiness to participate in testing
- **HL7 Message Validity Testing**
 - Verify message standards conformance and IIS acceptance
 - Leverage AIRA's Aggregate Analysis Reporting Tool (AART) to validate HL7 messages generated through EHR Testing and Recognition within IIS test environments
- **Collaboration with AIRA's Onboarding Shared Services**
 - Support onboarding to IIS
- **Post-recognition Monitoring and Evaluation**
 - Develop vendor-specific evaluation plans to assess product performance and understand challenges
 - Parallel ONC Real World Testing
- **Recognized Product Retesting**
 - Develop a strategy to ensure continued immunization data exchange capabilities

Relaunch Technical Updates

- **Unit-of-Use 2D Barcode Scanning**
 - New requirement to test the product capability, included in the 90% required category
- **Acknowledgment Message**
 - Include summary report generation as a discovery capability to incorporate the work of the IIP Acknowledgments Workgroup
- **In-standard Configuration Flexibility**
 - Confirm the ability to configure, capture and send vaccine eligibility per jurisdictional requirements
- **Adverse Events**
 - Remove testing requirements to report adverse events to IIS
 - Adverse events/vaccine reactions are no longer a CDC-endorsed data element. Retain the requirements for EHRs to document adverse events
- **Update Messages for Non-administration Events**
 - Immunity, contraindications, refusals, deferrals
- **ADT feed available for patient demographics to reduce manual data entry**

IIP Pilot Testing Goals

- The pilot testing experience and vendor perspective provided the IIP with the opportunity to further learn about the process, identify value, and enhance the program
 - Augment IIP evaluation and discovery findings
 - Implement and refine programmatic updates
 - Validate technical updates
 - Receive vendor feedback to inform additional changes
 - Monitor vendor product implementation and onboarding to IIS experiences to better understand and address challenges

Pilot Testing Outcomes

- PCC successfully tested and achieved recognition!
- Recognition announced at HIMSS23, on IIP website and other channels
- Developing a PCC real-world evidence evaluation plan
- Incorporating findings into test plan and process
 - Clearer, more concise language
 - Discrete requirements and related measures of success



Moving to Modular

- Modular Test Plan Goals:
 - Align key elements of testing with IIP and CDC priorities and objectives
 - Minimize vendor burden
 - Streamline the test plan update process
 - Facilitate retesting for maintaining recognition
- Reorganize the current test plan content into modules
- Maintain workflows
- Continue alternative testing for ONC (f)(1) Transmission to immunization registries

Next Steps

- Continue modularization
- Incorporate pilot findings into the testing process and test plan
- Define recognition and retesting requirements
- Work with PCC to implement the evaluation plan
- Recruit vendors!

Immunization Integration Program (IIP)





Thank you!

Immunization Integration Program (IIP)

- Have questions or interested in learning more?
- Connect with us to explore opportunities to test your product or become involved with the IIP!
- Visit
 - www.himss.org/iip
 - www.immregistries.org/immunization-integration-program
- Email
 - IIP@immregistries.org
 - IIP@HIMSS.org