



Immunization Data Quality Certification Program

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Agenda

- CDC Data Quality Background
- CDC's Focus Areas and Priorities
- IIS Data Quality Certification Program



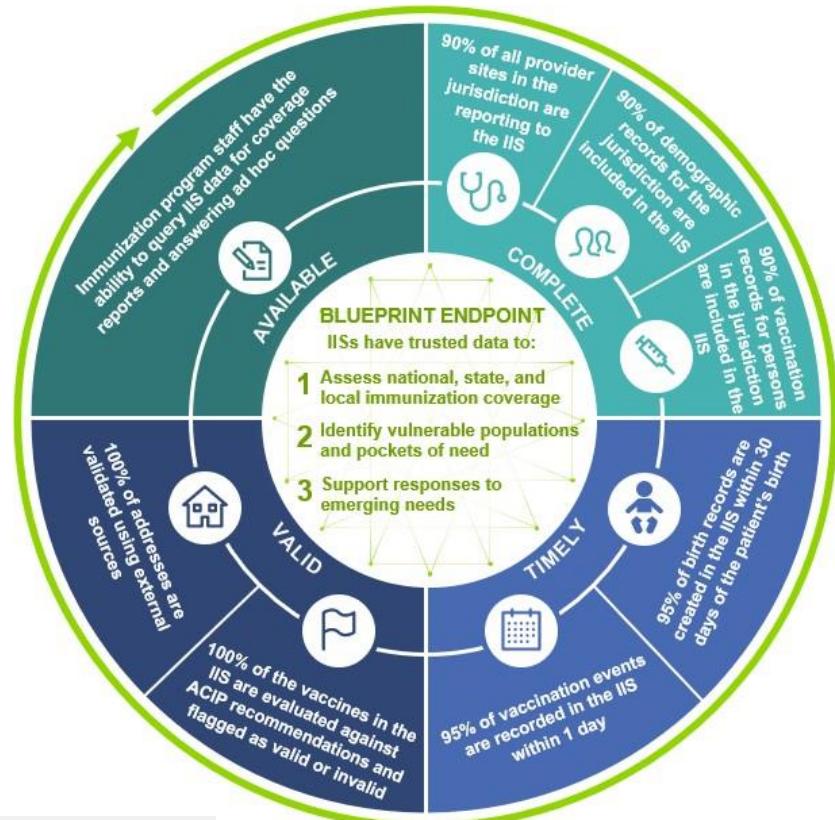
Background

IIS Data Quality Blueprint

The blueprint guides awardee activities to improve data quality by prioritizing a **small set of meaningful, quantifiable** measures.

IIS Data Quality Endpoint

- IISs will be **the trusted source** for reliable immunization data
- IISs will produce data to support:
 - Immunization coverage assessments
 - Identification of pockets of need
 - Responses to emerging needs



7 Data Quality Characteristics

Available | Complete | Timely | Valid | Accurate | Consistent | Unique

IIS Data Quality Improvements

AVAILABLE

IIS data used to generate disseminated coverage reports

- 96% awardees share population-based coverage assessment reports with stakeholders in jurisdiction
- 98% generated population-based coverage assessments for a public facing website

IIS staff can and do run ad-hoc reports of IIS data.

- 93% of IIS produced provider level coverage assessments **based on user criteria**

VALID

There was an increase in use of an external entity to validate addresses from 2020 to 2021

- In 2021, **52%** of IIS used residential addresses standardized and validated as USPS addresses, compared to 38% in 2020

COMPLETE

Between 2020 and 2021, there were improvements in all categories of providers (VFC, non-VFC, all providers) reporting to IIS.

- **79%** of all VFC providers report data (2021)
- **60%** of all non-VFC providers report data (2021)
- **64%** of all providers report data (2021)



TIMELY

Small increase in timely posting of vaccines administered

- From 2020 to 2021, the percent of vaccine administration posted to production within 1 day increased from **70% to 73%**

High percentage of birth records established in a timely fashion

- **90%** of birth records established within 30 days of birth (Q.29)

Focus Areas and Priorities

Moving the Needle toward Data Modernization

1. Data Collection & Management

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

2. Data Use

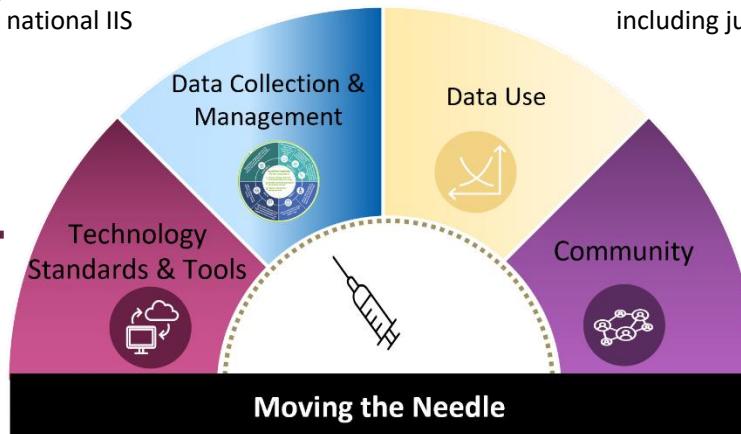
Assess, analyze, and use data to drive public health action across the IIS community, including jurisdictions, providers, and partners

3. Technology Tools & Standards

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

4. Community

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



Focus Areas and Priorities: Selected Priorities

Data Collection & Management

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

1.1 Establish a national immunization surveillance system at CDC to develop a comprehensive picture of vaccination

1.2 Support data sharing and management between IISs, CDC, and other vaccination partners

Data Use

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

2.1 Establish governance function for immunization use cases to enforce appropriate data use

2.2 Use data to assess vaccination coverage

2.3 Increase confidence and demonstrate the value of IIS data

2.4 Ensure data are accessible for decision-making in reports, dashboards, and visualizations

Technology and Standards

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

3.1 Define the baseline and target state for immunization systems environment

3.2 Maintain and evolve IIS standards

3.3 Establish and maintain an IIS certification program

3.4 Develop and execute modernization roadmap to achieve the target state

3.5 Support operations and maintenance of systems environment

Community Engagement & Support

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

4.1 Build awareness of IIS value to public health and IISSB's role in ensuring a comprehensive national and jurisdictional picture of vaccination

4.2 Establish a model for enhanced partnership collaboration

4.3 Ensure immunization is represented in the development of national standards and certification programs

4.4 Enhance and sustain the IIS workforce

Data Quality Certification Program

What is Certification?



Certification is a procedure by which a third party gives written proof that shows a specific product, process or service conforms to specified requirements or standards.

Official Website of the Office of the National Coordinator for Health Information Technology (ONC)
HealthIT.gov

HealthIT.gov > Topics > Certification of Health IT

Certification of Health IT

The ONC Health IT Certification Program (Certification Program) ensures that Certified Health Information Technology meets the technical, capability, functionality, and security requirements adopted by the U.S. Department of Health and Human Services (HHS).

Learn More [Program Overview \[PDF - 311KB\]](#)

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OUR PROGRAMS

Measure Certification Process

Health Plans: How to Choose A Vendor

Certified Vendors: Impact on Source Code Review

List of Certified Vendors (pdf)

List of Certified Health Care Organizations (pdf)

AVY2022 Test Deck Pruning Testbed (pdf)

ABOUT MEASURE CERTIFICATION

NCQA's Measure Certification program validates organizations' HEDIS® "Align, Measure, Perform (AMP)" and other quality measure logic used to calculate measure results or select eligible patients' administrative or clinical data sources to ensure production of accurate results.

ABQAURP American Board of Quality Assurance and Utilization Review Physicians® Promoting Health Care Quality and Patient Safety through Education and Certification

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Health Care Quality & Management (HCQM) Certification

CHCQM BOARD CERTIFIED Health Care Quality & Management

Certification in Health Care Quality and Management (HCQM) for Physicians, Nurses, and Other Health Care Professionals

HCQM Certification demonstrates that ABQAURP Diplomates have the practical knowledge and the tools that can reduce medical errors, ensure patient safety, eliminate waste and unnecessary services, while avoiding potentially harmful delays in care. Certification demonstrates to internal and external entities that you, your group practice, or hospital is accountable. The result is a safer, more efficient and cost-effective system that better satisfies the needs of patients, providers, purchasers, and payers.

Why Certification is Important

- Establishes confidence, credibility and trust among consumers, clients and other business partners
- Functions as proof an organization abides by a set of identified standards
- Proves an organization's commitment to important business objectives



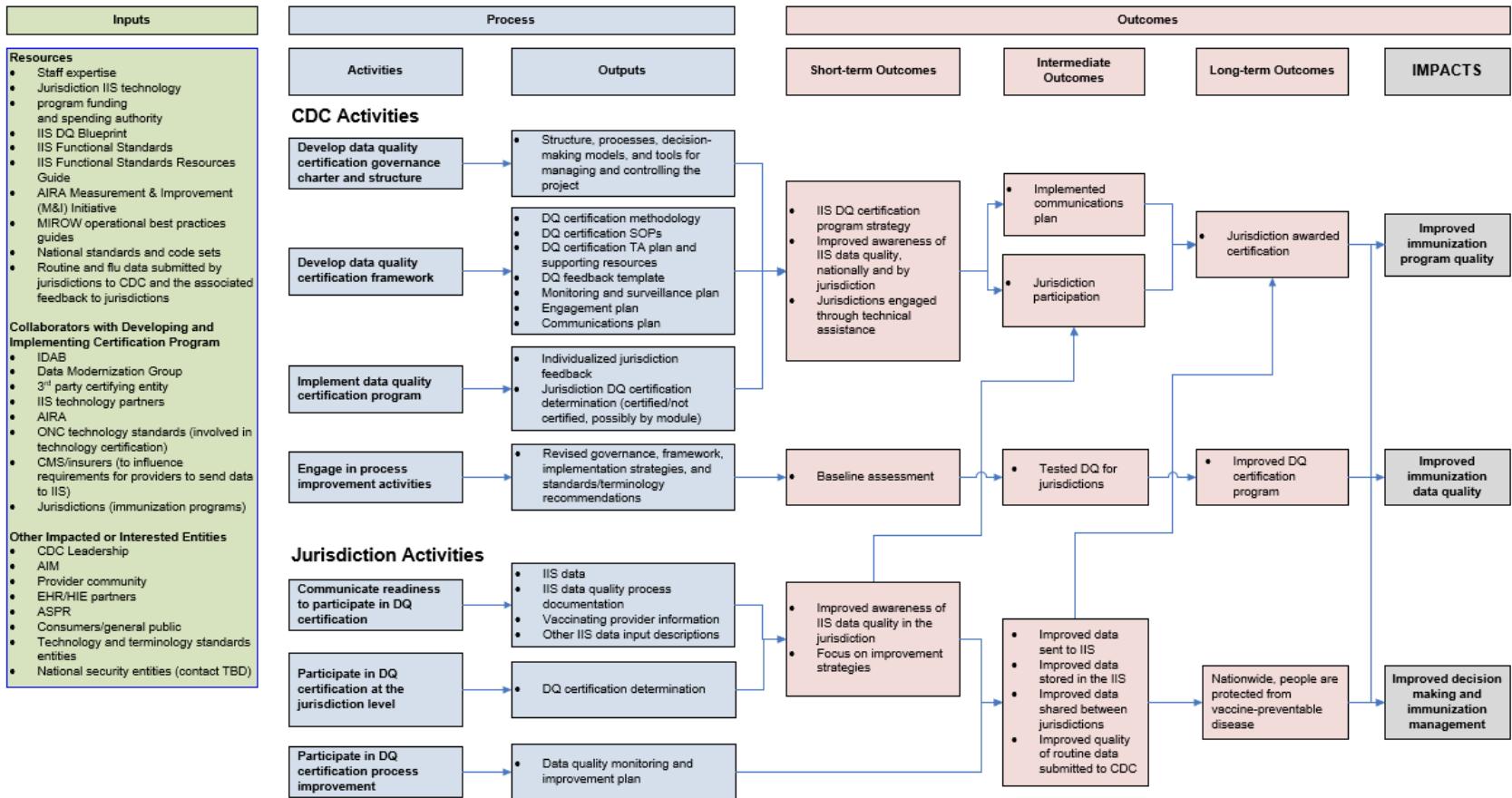
CDC IIS Certification Program



Will be comprised of two types of certification:

- Data Quality Certification
 - Focused on jurisdiction data
- Functionality Certification
 - Focused on technology partner functionality

Logic Model



Inputs

Resources

- Staff expertise
- Jurisdiction IIS technology
- program funding and spending authority
- IIS DQ Blueprint
- IIS Functional Standards
- IIS Functional Standards Resources Guide
- AIRA Measurement & Improvement (M&I) Initiative
- MIROW operational best practices guides
- National standards and code sets
- Routine and flu data submitted by jurisdictions to CDC and the associated feedback to jurisdictions

Collaborators with Developing and Implementing Certification Program

- IDAB
- Data Modernization Group
- 3rd party certifying entity
- IIS technology partners
- AIRA
- ONC technology standards (involved in technology certification)
- CMS/insurers (to influence requirements for providers to send data to IIS)
- Jurisdictions (immunization programs)

Other Impacted or Interested Entities

- CDC Leadership
- AIM
- Provider community
- EHR/HIE partners
- ASPR
- Consumers/general public
- Technology and terminology standards entities
- National security entities (contact TBD)

Process

CDC Activities

Outputs

Develop data quality certification governance charter and structure

- Structure, processes, decision-making models, and tools for managing and controlling the project

Engage in process improvement activities

- Revised governance, framework, implementation strategies, and standards/terminology recommendations

Develop data quality certification framework

- DQ certification methodology
- DQ certification SOPs
- DQ certification TA plan and supporting resources
- DQ feedback template
- Monitoring and surveillance plan
- Engagement plan
- Communications plan

Implement data quality certification program

- Individualized jurisdiction feedback
- Jurisdiction DQ certification determination (certified/not certified, possibly by module)

Process

Jurisdiction Activities

Communicate readiness to participate in DQ certification

Participate in DQ certification at the jurisdiction level

Participate in DQ certification process improvement

Outputs

- IIS data
- IIS data quality process documentation
- Vaccinating provider information
- Other IIS data input descriptions

- DQ certification determination

- Data quality monitoring and improvement plan

Outcomes

Short-term Outcomes

- IIS DQ certification program strategy
- Improved awareness of IIS data quality, nationally and by jurisdiction
- Jurisdictions engaged through technical assistance

- Baseline assessment

- Improved awareness of IIS data quality in the jurisdiction
- Focus on improvement strategies

Intermediate Outcomes

- Implemented communications plan
- Jurisdiction participation
- Tested DQ for jurisdictions

- Improved data sent to IIS
- Improved data stored in the IIS
- Improved data shared between jurisdictions
- Improved quality of routine data submitted to CDC

Long-term Outcomes

- Jurisdiction awarded certification
- Improved DQ certification program
- Nationwide, people are protected from vaccine-preventable disease

Impacts

Improved immunization program quality

Improved immunization data quality

**Improved decision making and
immunization management**

Project Plan Milestones and Tentative Dates (DRAFT 1/27/23)

Questions?

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

