

Public Health Informatics Institute (PHII) Overview

Level UP with PHII's Resources

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Learning objectives

- **Build** your understanding of PHII as a public health program.
- **Expand** your knowledge of PHII resources to support workforce development and technical assistance of IIS teams.
- **Determine** opportunities to engage for both your IIS and your team.



Overview

- Introduction – What is PHII?
- PHII's IIS Portfolio – What we offer
- Engaging with PHII – How can we help you
- Activity – PollEv

Introduction

What Is PHII?



The **Public Health Informatics Institute (PHII)**, a program of the Task Force for Global Health (TFGH), has a mission to advance health outcomes worldwide by **guiding public health organizations** to effectively **access, use and share information** through the application of current and innovative **information technologies**.

PHII background

Our history

- Established in 1992 as “All Kids Count” program
- Instrumental in the development of immunization registries
- Became PHII in 1996
- A program of the Task Force for Global Health (TFGH), a registered non-profit
- TFGH is the 4th largest non-profit organization in US

Our clients

- Local health departments across the nation
- Federal agencies such as CDC
- Funded through co-operative agreements, grants and contracts

Our strengths

- Leader in the field of public health informatics with a proven track record
- Workforce development
- Technical assistance
- Process analysis and requirements development

What we offer

- Informatics solutions development
- Informatics technical assistance
- Informatics guidance
- Immunization information systems (IIS) support

PHI partnerships to support IIS

Work collaboratively with CDC, AIRA and other partners to enhance the **performance and sustainability of IIS within immunization programs nationwide.**

Provide **specialized expertise and technical assistance** to jurisdictions and support the IIS community to share **evidence-based best practices.**

PHII's IIS portfolio



Workstreams and resources

Our work streams

To efficiently support jurisdictions, PHII's IIS portfolio is separated into two work streams:

Workforce development



Technical assistance



Workforce development (WFD) offerings + resources

Aim to **strengthen** IIS performance by providing **foundational** and **specialized** competency-based **training** to equip workforce with **knowledge**, **skills** and **abilities**.



WFD: Annual IIS leadership workshop



Aims to increase competencies and confidence in facing the challenges as IIS leaders.

Audience includes those who play a leading role in setting/guiding jurisdictional immunization program and IIS activities.

WFD: IIS Core Competency Model

Defines 11 competencies that are integral to IIS team personnel.

Includes knowledge, skills and abilities for each competency.

Provides links to associated reference materials.



WFD: IIS workforce classifications

Provide guidance for identifying staffing needs and subsequent recruiting for IIS teams.

Sample role descriptions include:

- IIS Manager
- Project Manager
- Interoperability Analyst
- Data Quality Analyst

- Data Analyst
- Business Analyst
- Testing Analyst
- Deduplication Specialist

- Epidemiologist
- Help Desk Specialist I & II
- Outreach and Training Coordinator

WFD: IIS Learning Hub



Offers training, learning solutions and resources for public health staff and partners supporting and using IIS that cover basic and advanced topics to supplement training and orientation.



WFD: IIS eLearning courses

Informatics Academy (available now!)

- LMS Portal
- IIS-specific eLearning courses (5)
- Public health topics

Upcoming (July 2023)

- Two new IIS courses
 - Data use + evaluation
 - Communications



<http://informaticsacademy.org/>

WFD: IIS curriculum



Provide roadmap of courses for all levels of IIS staff.

WFD: Welcome to IIS Email Course

WELCOME TO IIS EMAIL COURSE

A CRASH COURSE FOR ALL THINGS IIS

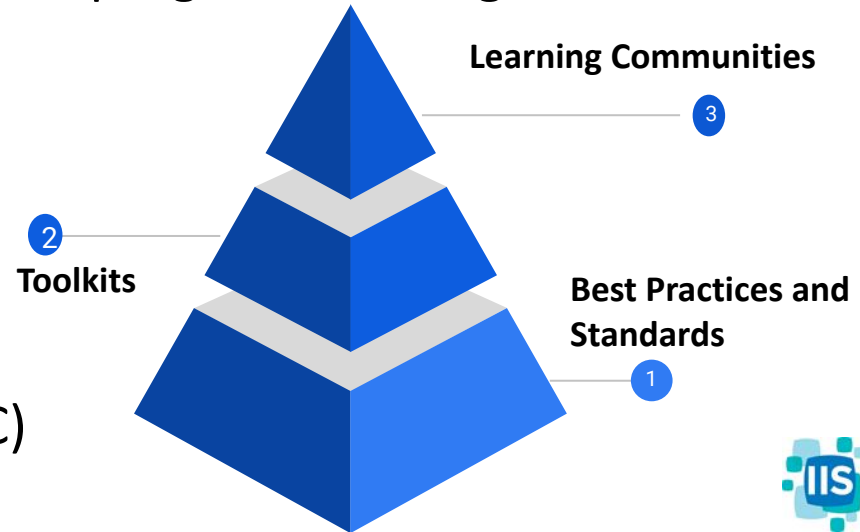
One short lesson each day for 18 days, delivered
straight to **your email**

Technical assistance (TA) offerings + resources

Provide both collective and jurisdiction-specific TA in selected operational areas to address performance/program challenges associated with optimizing IIS.

TA offerings and resources include:

- Best practices and standards guidance
- Toolkits and operational tools
- Learning Community webinars (TLC)
- IIS office hours



Standards and best practices



Immunization Information System (IIS) Functional Model

The IIS Functional Model presents a framework and terminology for conveying and communicating the core functions, capabilities and attributes of IIS. These systems, whether as a single integrated IIS or as a set of interoperable modules, support public health immunization programs in achieving the **CDC IIS Functional Standards** and in providing trusted data and information to improve clinical immunization practice, increase vaccination and reduce vaccine-preventable disease.

The model also serves as a companion and index to the **IIS Baseline Requirements Traceability Matrix (RTM)**, which provides detailed requirements across IIS functions, capabilities and attributes. The RTM and other requirements tools can be found at phii.org/iis-requirements.

IIS Core Functions and Capabilities

These functions and capabilities represent core functionality of IIS. Refer to the **IIS Baseline RTM** for descriptions and functional requirements associated with each.

Administer System	Manage Organizations & Facilities	Manage Users
<ul style="list-style-type: none"> Hierarchy configuration System configuration 	<ul style="list-style-type: none"> User roles & permissions System alerts 	<ul style="list-style-type: none"> Organization/facility search VFC/vaccine program enrollment Add, edit, inactivate organization/facility Organization/facility outreach
<ul style="list-style-type: none"> User search Add, edit, inactivate user 	<ul style="list-style-type: none"> Authentication & authorization Password management 	
Support Interoperability	Ensure Data Quality	Evaluate & Forecast
<ul style="list-style-type: none"> Onboarding Interfaces 	<ul style="list-style-type: none"> Data exchange Patient matching & deduplication Vaccination event matching & deduplication 	<ul style="list-style-type: none"> Clinical decision support Reminder/recall Coverage reports
Manage Patient & Immunization Records	Manage Vaccine Inventory	Provide Data Access
<ul style="list-style-type: none"> Patient search Add, edit patient demographics Patient status Patient consent 	<ul style="list-style-type: none"> Add, edit patient immunization Print/export record Mass vaccination Vaccine inventory search Add, edit vaccine inventory Vaccine ordering Review/approve order Vaccine decrementing Vaccine inventory reconciliation Vaccine transfer Vaccine wastage Vaccine expiration 	<ul style="list-style-type: none"> Standard reports Print/export reports Ad hoc queries & reports Consumer access

IIS Attributes

These attributes represent the technical characteristics of an IIS necessary to support immunization programs and stakeholders. Refer to the **IIS Baseline RTM** for descriptions and non-functional requirements associated with each.

Performance Efficiency	Usability	Reliability	Security	Maintainability	Portability
<ul style="list-style-type: none"> Time behavior Resource utilization Capacity 	<ul style="list-style-type: none"> Operability User error protection Accessibility 	<ul style="list-style-type: none"> Availability Fault tolerance Recoverability 	<ul style="list-style-type: none"> Confidentiality Non-repudiation Accountability Authenticity 	<ul style="list-style-type: none"> Analyzability 	<ul style="list-style-type: none"> Adaptability Installability

RTM WEBINAR: USING THE REQUIREMENTS TRACEABILITY MATRIX (RTM) EFFECTIVELY

A WEBINAR FROM PHII IN OCTOBER 2022 WALKED ATTENDEES THROUGH HOW TO USE THE RTM TO DEVELOP IIS REQUIREMENTS.



TA: IIS toolkits



A roadmap to guide users through an IIS platform migration or other large-scale IT project



A deep-dive into the three phases of a procurement process



Tools and templates to support day-to-day operational tasks related to managing and supporting an IIS



TA: IIS + Data Modernization Initiative (DMI)

Easy to read one pager on DMI and IIS.

Get involved!

Steps for immunization information system (IIS) staff to learn more about the Data Modernization Initiative

Are you part of the IIS community and looking to learn about and become more involved in the Data Modernization Initiative (DMI)? This one-pager was created to highlight ways you can learn more about DMI, ultimately allowing you to become more involved.



Step 1 Familiarize yourself with the Center for Disease Control and Prevention's (CDC) Data Modernization Initiative.

Learn more about the goals and purpose of CDC's DMI. Specifically, see how they are recommending change and efficiency at jurisdictions, but also within CDC programs themselves, streamlining data flow from jurisdictions to the federal government. Visit the main [CDC DMI website](#) or the [jurisdictional support link](#) to learn more.



Step 2 Identify your DMI director.

Each jurisdiction is currently funded through the Epidemiology and Laboratory Capacity for Prevention and



TA: Transitions Learning Community (TLC)

Community to provide support and guidance to programs that are transitioning to a new IIS platform or implementing other complex IT transitions



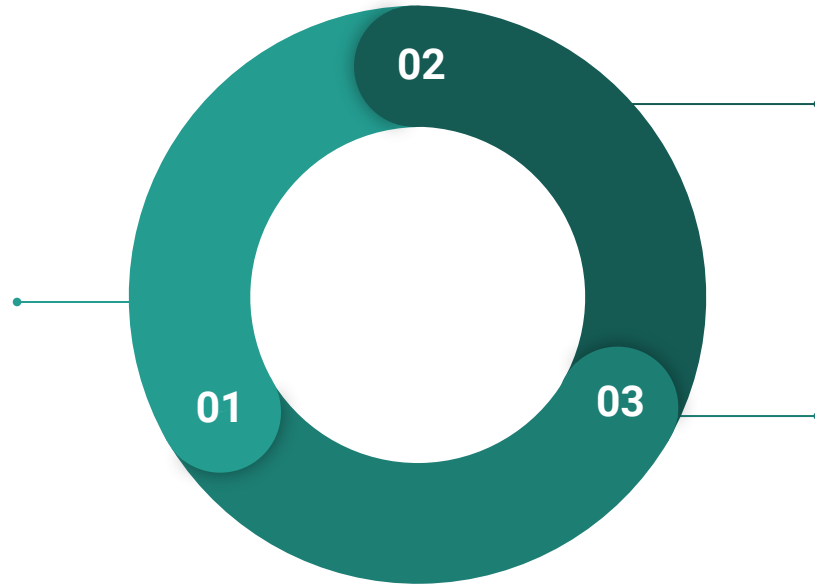
Engaging with PHII

How Can PHII Help You?

Level UP your team

Develop a skilled and competent workforce

- Use the **IIS Workforce Classifications** to post and recruit staff to your IIS team.
- Have new IIS and program staff enroll into the “**Welcome to IIS**” email course.
- Use the **Informatics Academy** LMS portal to quickly get staff up to speed by taking the fundamental IIS courses and other relevant trainings.



Take advantage of TA available at no cost to you

- Join the **TLC** if you are planning an IIS transition or a major IIS project.
- Use our **Migration and Procurement Toolkits** to help with a successful migration/procurement.
- Use the **RTM** to assess your IIS for any gaps.

Streamline your IIS operations

- Use the operations tools and templates in the **IIS Operations webpage** to better manage your day to day IIS operations.





Activity: Can you identify these PHII resources?

- Identify the PHII resources via PollEv



Questions/comments/discussion?



PHII Resources

- [IIS Learning Hub](#) - one-stop shop for all PHII IIS resources
- [PHII's LMS Portal](#) - PHII learning management system of IIS and other public health topic eLearning courses
- [IIS Workforce Classifications](#) - 12 IIS-specific job descriptions
- [IIS Operations Toolkit](#) - tools to help with day to day IIS operations
- [IIS Procurement Toolkit](#) - guide to navigating procurement of IT services
- [IIS Baseline Requirements Traceability Matrix \(RTM\)](#) - draft baseline functional and non-functional requirements for an immunization information system (IIS) to clarify minimum expectations for what IIS technology must do and how it must operate to support IIS Functional Standards and programmatic and immunization stakeholder needs
- [IIS Migration Toolkit](#) - tools to help successfully migrate to a new IIS platform

