

Progress and Possibilities: A Story of Transformation in the IIS World

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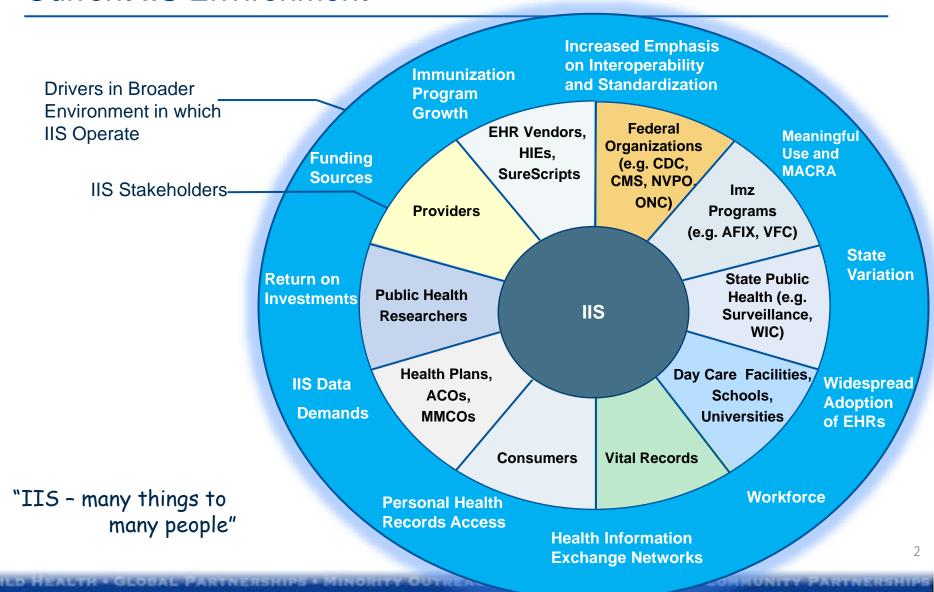
AIRA National Meeting April 12, 2017 Chicago, IL

Overview: Progress and Possibilities

- Progress in IIS Transformation
 - Current Environment
 - History
 - Key Initiatives
- Possibilities in IIS Transformation
 - Emerging Strategic Priorities
 - Challenges and Opportunities
 - Announcements
- Continue to Transform



Current IIS Environment



IIS Strategic Vision and History



"Real time, consolidated immunization data and services for all ages are available for authorized clinical, administrative, public health users and consumers anytime and anywhere."

Understanding IIS history and context has primed how we plan to transform the IIS program to meet new challenges as we position IIS to serve as the modern immunization program along with a growing, diverse set of immunization stakeholders.

History of Transformation: 25 Years of Achievement

ECBT Established	AIRA Established		NVAC	ONC MU & Special Projects			cts
		OM alling the Shots	Progress Report		AIRA First Confere	NIST ence Testing	Tool Support
1990	2000			2010			2020
arget Funding All Kids Count Planning Grants	NVAC Initiative	1			ARRA-HITECH Interoperability PPHF 11 Interoperal Ordering/Ir	Orde pility&	F 14 operability & ring/Inventory
All Kids Count All Kids Count Sentinel Site Phase 1 Phase 2 Initiative Launched				PPHF 12 Interoperability & Ordering/Inventory			
Provide Guidan	N\ Te	/AC chnical Specs		7000		CDSi Birth – 18 CDSi Birth –	Death
Core Dat Element For IIS		Functional Approved	Stds.	MIROV	2013 – 2	onal Stds. 1017 MIROW	CDSi Underlying Conditions
			Patient Active / Inactive Status MIROW Vaccine Det MIRO Data Qu	duplication	MIROW VFC Collabora MIROV Inventor	tion Dec	ROW rementing Inventory
	First IG		3	A 7.50	IG HL7 v2.3.1, v2.5.1	IG 1.4 HL7 v2.5.1	IG 1.5 HL7 v2.5.1

Meaningful Use: Transformation of Exchange Capabilities

Beginning in 2011

Beginning in 2014

2018 and beyond

MU Stage 1

MU Stage 2

MU Stage 3

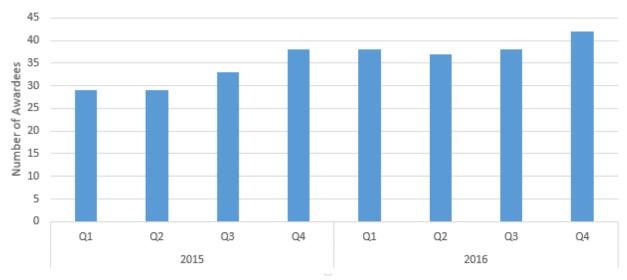
Providers must test, and if successful, establish a connection from the EHR to the IIS in the provider's jurisdiction

- Endorses a single standard, HL7 2.5.1, for all immunization messages submitted from EHR systems to IIS,
- Requires "ongoing submission" of production immunization data (as opposed to test data) to an IIS

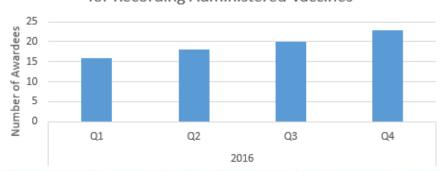
Likely to enhance
[immunization]
functionality to permit
clinicians to view the
entire immunization
registry/immunization
information system
record and support bidirectional
information exchange.

Meaningful Use: Transformation of Exchange Capabilities (Cont'd)

Awardee IIS that Receive and Respond to Immunization Record Queries (QBP/RSP) from EHR Systems Using HL7



Awardee IIS that Support Receipt of NDC Codes for Recording Administered Vaccines



Transforming Functional Standards (FS) to Support the Community

Evolution of 2018-2022 of Functional Standards

Inclusive Development Process

Align IIS Annual Report and Business Plan Guidance

Additional supporting efforts:

- Data elements
- Performance measures
- Cross walk with health / business indicators

Natural evolution of 2013 2017

 Standards evolved as business and technology needs changed.



- Help desk support
- School and child care support
- Emergency Response Support
- Support for VFC, state and local









VTrcks ExIS: Transformation of Vaccine Ordering and Inventory

Timeline and Progress

VTrckS Activities and Capabilities

Pilot Begins

Michigan and Washington are first ExIS Awardees

Manual Data

Upload/Download

For Provider, Inventory, Orders, and Shipment Data

All Awardees Transition

Additional Awardees deploy or plan to deploy ExIS interfaces

Manual Data
Upload/Download

For Returns and Wastage

Automated Data

Exchange ExplorationWhile exploring alternatives, focus on improving ExIS data quality

2010 2011 2012 2013 2014 2015 2016 2017

Capacity Building

PPHF 11 CoAg \$14.2M to 27 Awardees PPHF 12 CoAg \$2.6M to 5 Awardees PPHF 14 CoAg \$13.5M to 24 Awardees ExIS Impact
Evaluation
Awardee case studies

VTrcks ExIS: Transformation of Vaccine Ordering and Inventory

Progress to Date

- Percentages of vaccine orders processed through VTrckS in calendar year 2016
- Total number of orders in 2016 was 580,885.

48 Awardees send ExIS orders to VTrckS

94% of all orders

547,665 orders

11 Awardee staff enter orders in VTrckS on behalf of providers

3% of all orders

18,444 orders 5 Awardee's providers enter orders directly in VTrckS

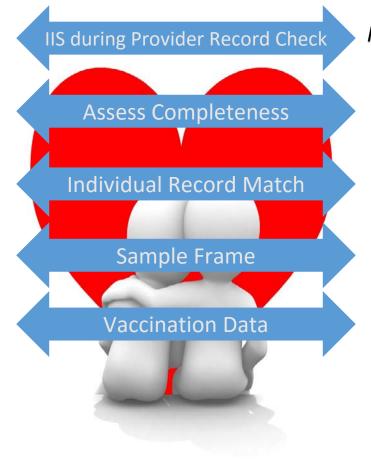
3% of all orders

14,776 orders

IIS-NIS Integration: Transformation of Vaccine Coverage Rate Estimates and Validation







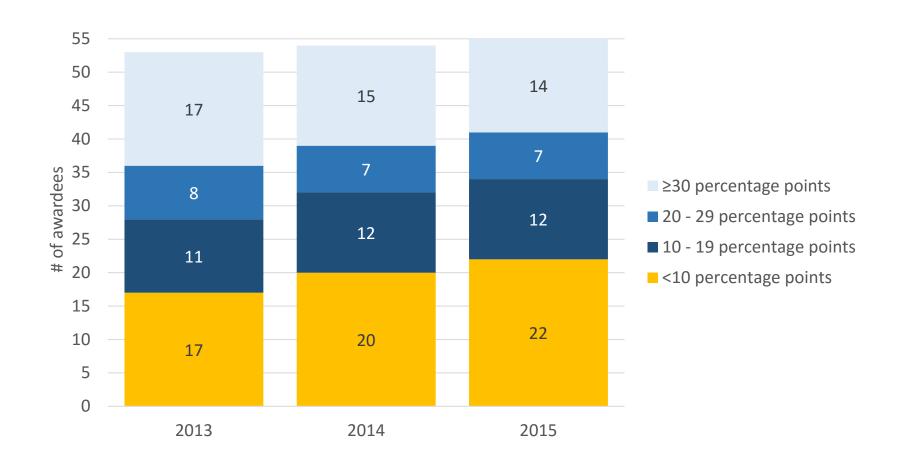
National Immunization Survey



Family of Surveys



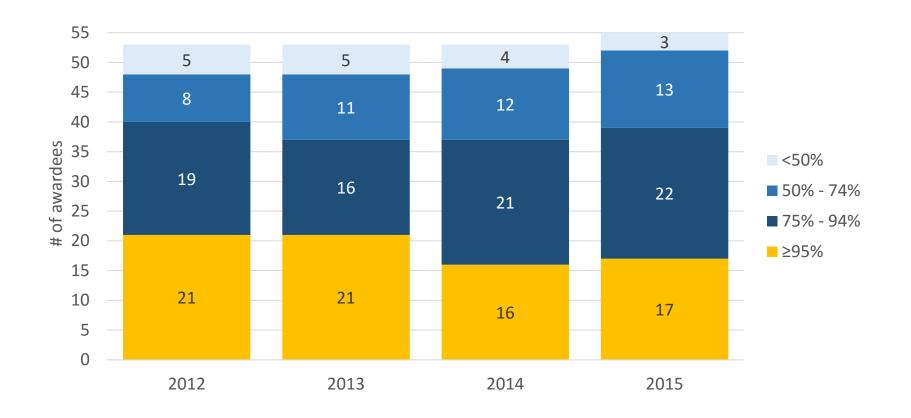
Percentage point differences between NIS and IIS for combined 7-vaccine series completion – 2013-2015



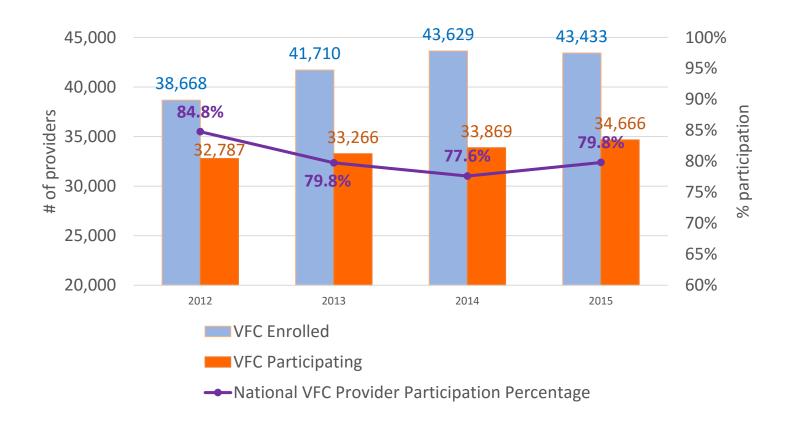
Transformation requires tending to Our Roots!



Percentage of VFC enrolled providers reporting to an IIS, 2012-2015



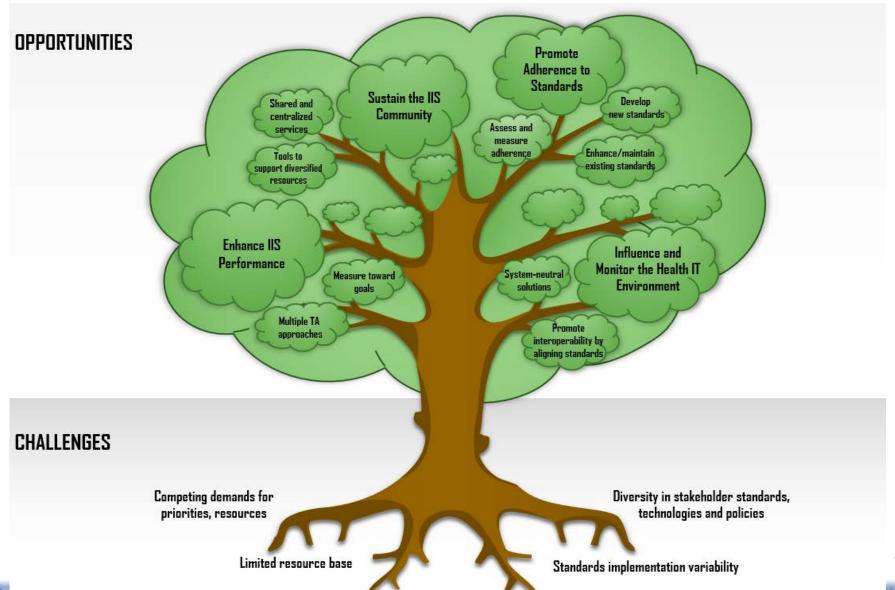
VFC Provider Participation, 2012 –2015 We can't forget about the basics!



Emerging Strategic Priorities to Guide Transformation

Enhance IIS Sustain the IIS **Performance** Community **Emerging Strategic Priorities** Influence and **Promote Adherence to** Monitor the **IIS Standards Health IT Environment** Leveraging Partnerships to Support Transformation

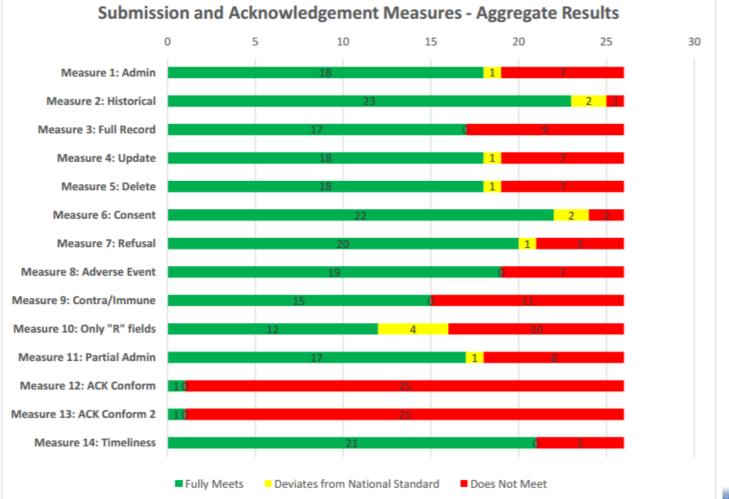
Challenges are the Root of Opportunities



Blossoming Opportunities for IIS – More Green, Less Red

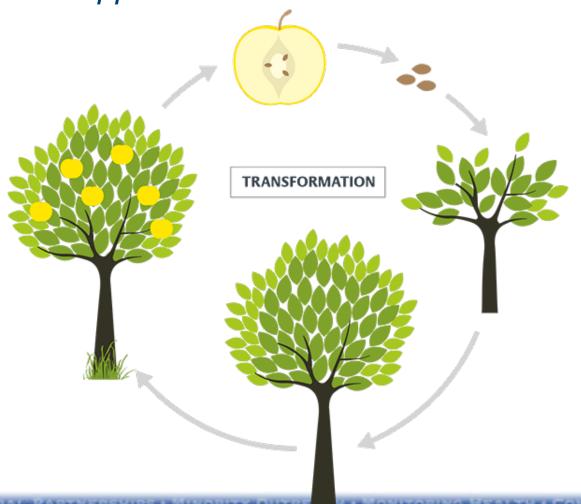
Q1 2017: IIS Submission/Acknowledgment

Query/Response Assessment Baseline Participation



Keep Planting Seeds

New Opportunities to Grow and Transform



Keep Planting Seeds

Address Cleansing Service



AIRA's first JDI on address cleansing yielded successful pilot for the entire IIS community

Supplemental funds are requested to expand access to this service to all IIS jurisdictions

Coordinate/facilitate joint collaborative development of tools, applications or technologies to implement in multiple IIS programs

In five-week pilot, 835,539 addresses were standardized, validated, and geocoded using the service

Cleaner valid addresses will positively impact multiple IIS processes such as merging and deduplication for years to come

Efforts will help programs to meet many IIS Functional Standards focused on data quality through complete, accurate demographics capture



Nurturing Our Roots

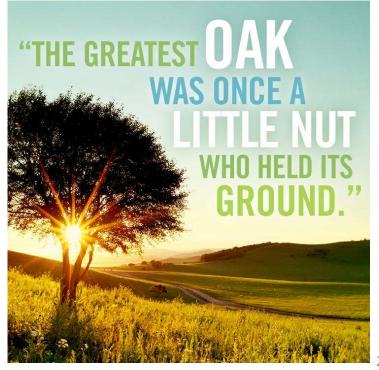
Kickoff of an IIS History Project-25 Years!



- A joint collaboration with CDC, AIRA, PHII
- Documenting the rich history and lessons learned from 25 years of IIS experience
- Advisors are being convened
- Dr. Barbara Canavan has been brought in to conduct interviews and document our history more formally
- Action: Participate and share your stories and documents!

Continue to Transform

- Building on success for the next 25 years
- Continue to provide value to IIS stakeholders
- Focus on the basics to provide highest quality data to stakeholders
- Become a more influential partner in the wider environment in which IIS operate
- Leverage diverse opportunities to create more a sustainable base
- Reduce variability across IIS
 - Functional standards
 - Centralized services
 - Assessment and Certification





THANK YOU

