



AIRA
AMERICAN IMMUNIZATION
REGISTRY ASSOCIATION

Immunization Information Systems: 101

NCI Cancer Centers Working to Improve HPV Vaccination

June 7-8, 2018

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What AIRA does



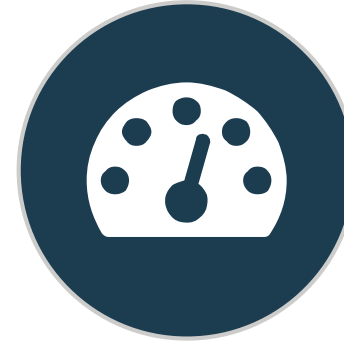
Purpose

Promote the development, implementation and interoperability of Immunization Information Systems



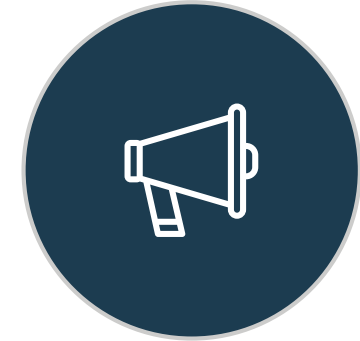
Collaborate

Provide a way to work collaboratively to develop standards, best practices, strategies and provide education about IIS



Measurement & Improvement

Identify the key aspects of an IIS that can be evaluated and measured
Provide technical assistance to IIS programs to foster improvement









Support

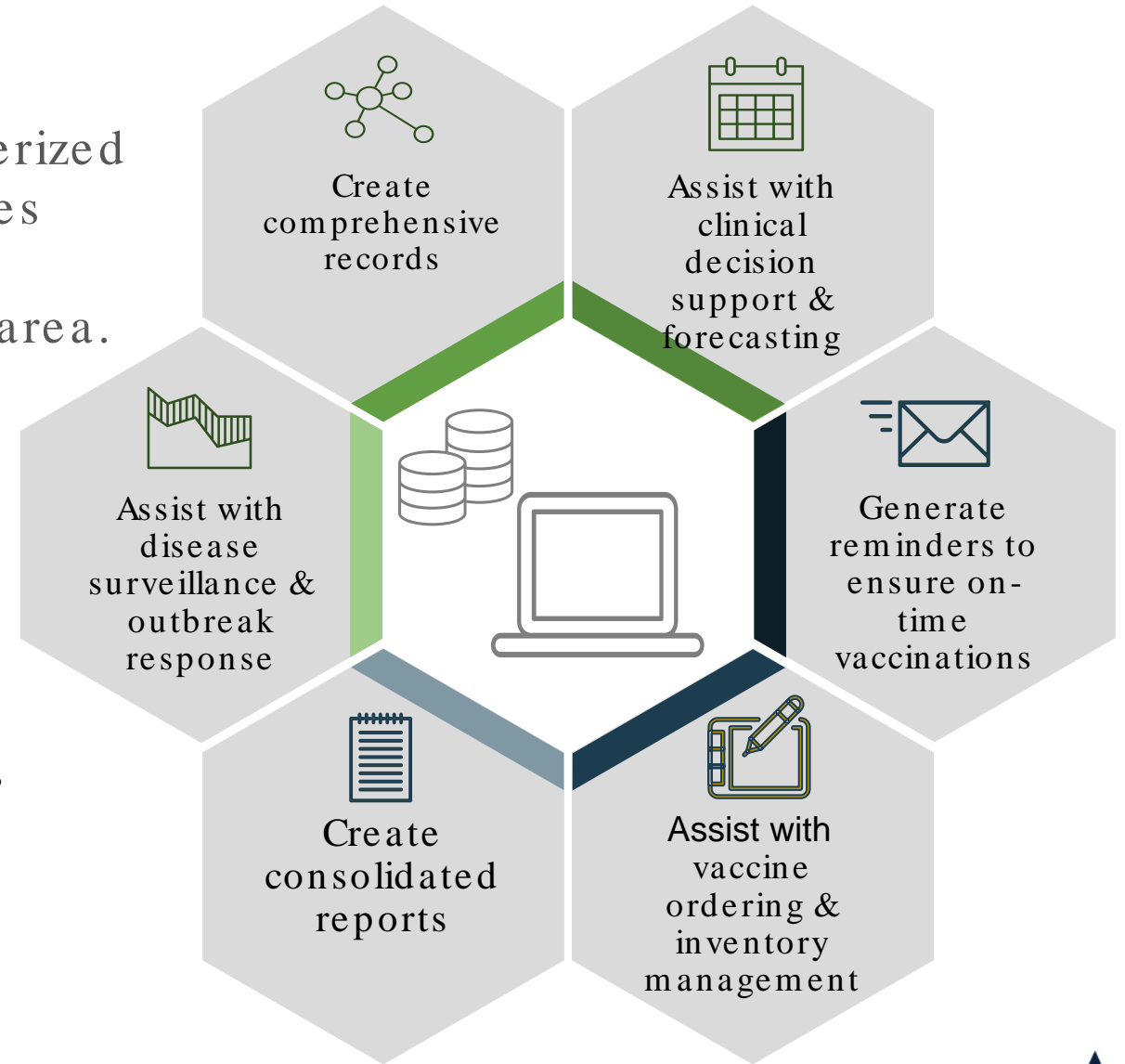
Support IIS and immunization programs through education, targeted assistance, and advocacy



IIS...

are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.

-  Confidential
-  Population-based
-  Identify pockets of need
-  Exchange data with multiple providers
-  Assist schools & child care providers
-  Help improve vaccination rates & Reduce vaccine-preventable disease

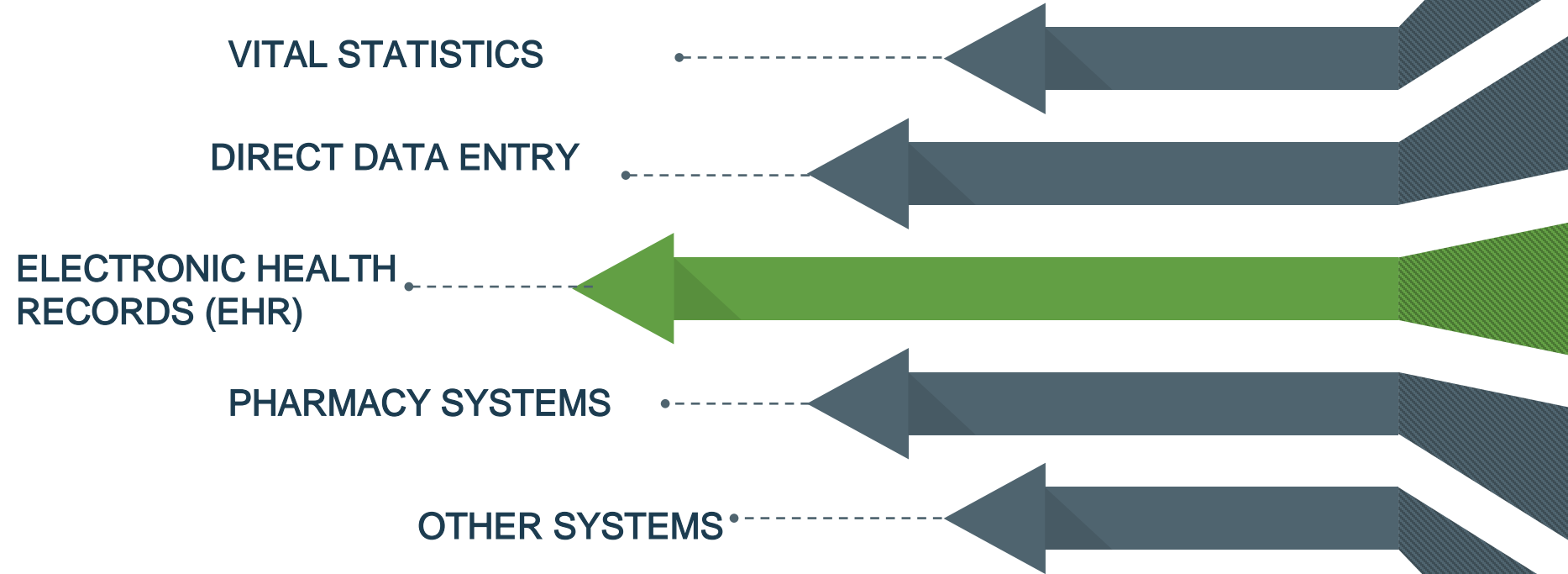


Maturity

- No national IIS
- Each system operates independently
- Newest IIS is hoping to launch in 2018
- Oldest have been in existence for 30+ years



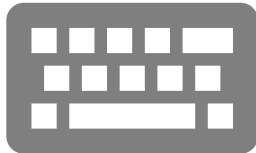
How does data get into an IIS?



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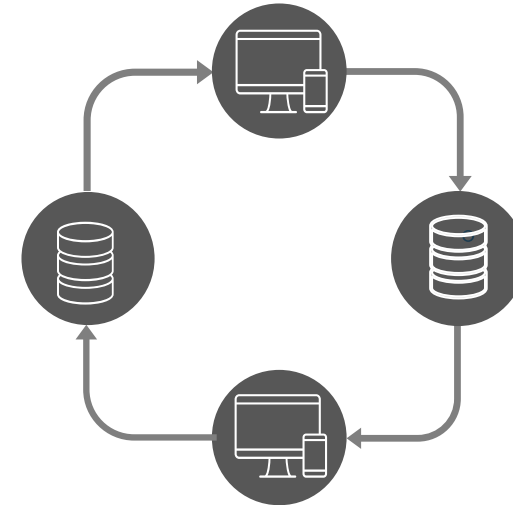
Flat File: Electronic file that can be manually imported to an IIS file exchange



Direct Data Entry/User Interface

Query Response

Provider sends query to IIS



IIS updates information & returns updated forecast to provider

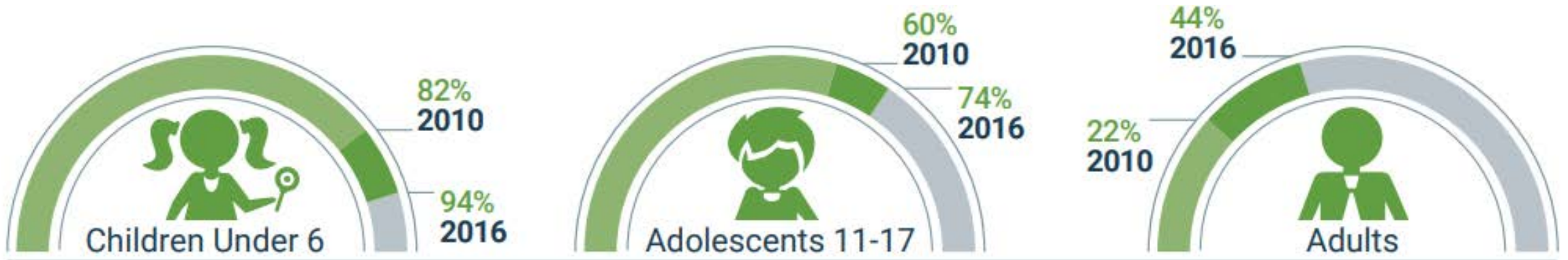
IIS sends patient history and forecast to provider

Provider administers vaccines & submits new information to IIS



Progress

- Healthy People 2020 Goals
 - Children >6: 95%
 - Adolescents 11 -17: 80%



Policies



How are IIS managed?

Operational

- Managed by state and some local jurisdictions
- IIS predate broad Electronic Health Record (EHR) system adoption
- Designed to solve local problems

System

- Three main systems (supported by commercial vendors) and home grown (local development and support)
- Technology innovations and modifications are not easily shared (due to funding or system structure)



Operational Environment

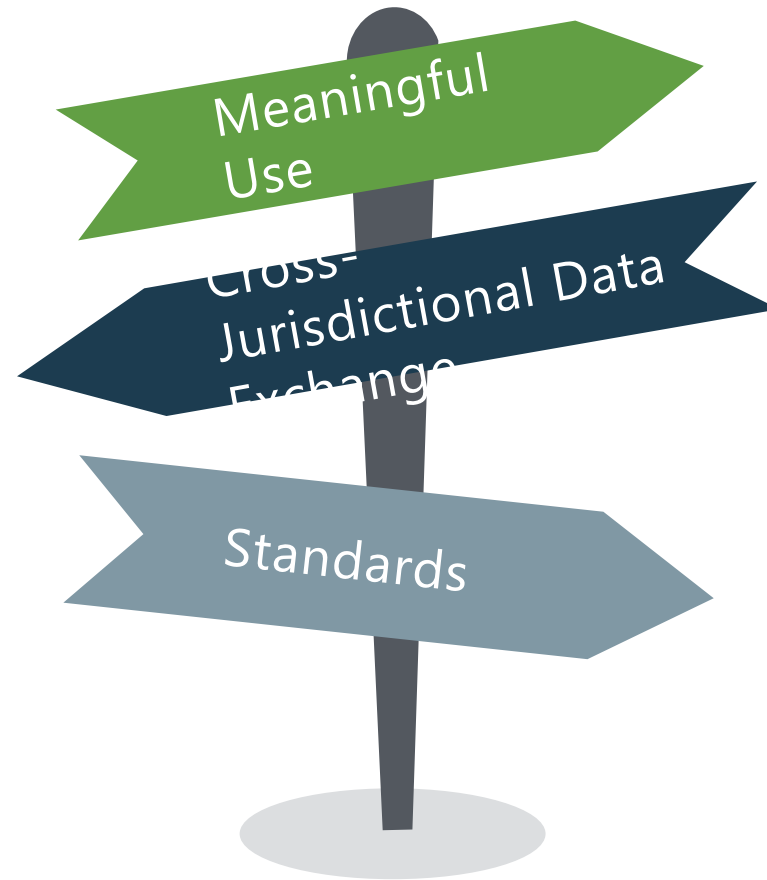
- Immunization programs have competing program priorities (grant and local)
- Funding
 - Mix of federal and state/jurisdiction funding
 - Utilized differently in each jurisdiction
 - Each state/jurisdiction have priorities
 - Lack of dedicated funding for IIS
- Staffing
 - Hiring freezes
 - Adequate workforce development
 - Appropriate compensation



National Policies

Cross-Jurisdictional Data Exchange

State laws may explicitly restrict data exchange with another state



Meaningful Use

- Increased provider participation greatly
- Challenged the IIS capacity to onboard all interested providers

Standards

No mandate to implement standards

Implementing standards takes time

There are still many areas that we would like to standardize



What's the difference between IIS and Cancer Registries?

	Cancer	IIS
Certification	Third party certification in place for more than 20 years	Validation process is new and limited in scope
Role in clinical care	Less integral, hospital cancer registries are a key component of approved hospital cancer program	Immunization history and clinical decision support (CDS) are central
System maturity	Mature, NCI SEER since 1973 and CDC NPCR since 1995 and American College of Surgeons (ACoS) in 1956	Varies by program



What's the difference between IIS and Cancer Registries?

	Cancer	IIS
Data complexity	Many variables, rare events, includes demographic, diagnostic, treatment, and follow -up information All actors use a common data dictionary and transmission format	Fewer variables, common events, includes demographic and immunization information for each administered vaccine Data transmitted using HL7
Workforce development	Certified Tumor Registrars, maintained by the National Cancer Registrars Association	No standard/certified training
Reporting	Supported by national legislation (Public law 102-515)	Requirements vary by state, age, and funding source



How are IIS data used?

NYC: Determine the vaccination coverage for the 4:3:1:3:3:1:4 vaccine series for children 19 through 35 months of age in New York City - quarterly

PRACTICAL EXAMPLES OF IIS POPULATION-BASED COVERAGE ASSESSMENTS

An Addendum to the Analytic Guide for Assessing Vaccination Coverage Using an IIS

March 2017

immregistries.org



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Identify and send reminders to adolescents 12-14 years of age who have started but not yet completed the HPV vaccine series. Send reminders to kids who recently turned 11 but not yet started the



Partnerships



How can we work together?

1. Work with state and local immunization programs and coalitions
2. IIS can be a rich data source
3. Advocate for data usage
4. You all have a powerful message and can help the immunization programs



Thank You!

- Website
 - Q & A: Send us your questions info@immregistries.org
 - Resource Repository

