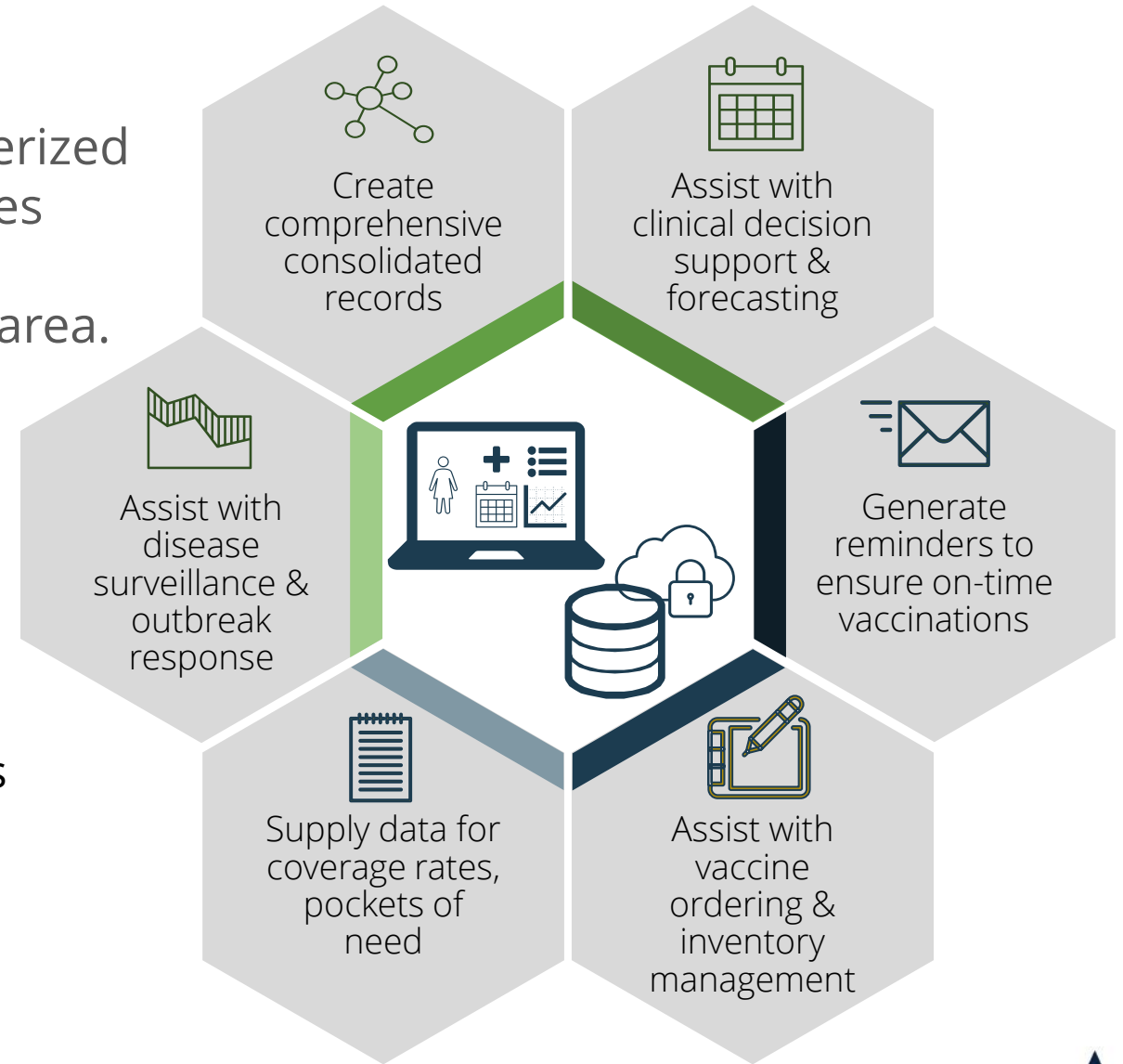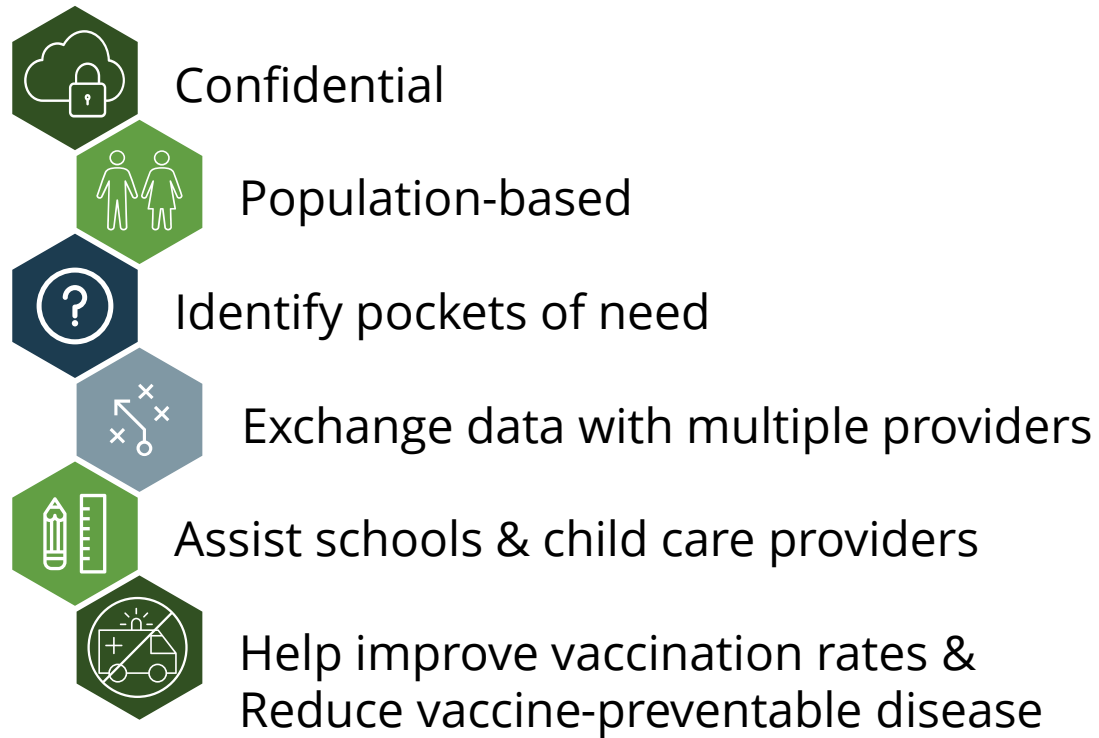# Immunization Information Systems (IIS)

NCSL State Public Health Symposium
June 22, 2022
Rebecca Coyle, Executive Director
American Immunization Registry Association

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

Create comprehensive consolidated records

Assist with clinical decision support & forecasting

Assist with disease surveillance & outbreak response

Generate reminders to ensure on-time vaccinations

Supply data for coverage rates, pockets of need

Assist with vaccine ordering & inventory management

Most IIS Data Comes From Data Exchange

IIS

VITAL STATISTICS

VITAL RECORDS

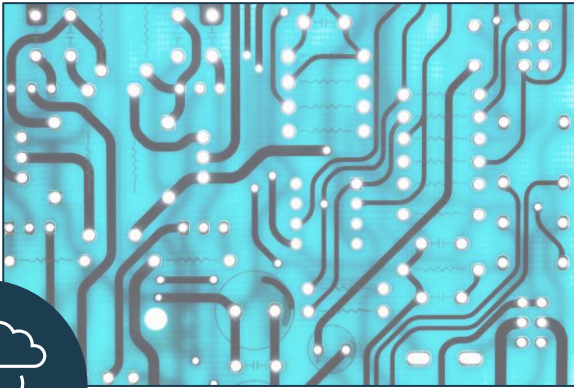**ELECTRONIC HEALTH RECORDS (EHR)**

PHARMACY SYSTEMS

OTHER SYSTEMS

In 2020, there were 121,000 data exchange connections

Policy

Technology

Operations

Workforce

Policies

Policies to consider

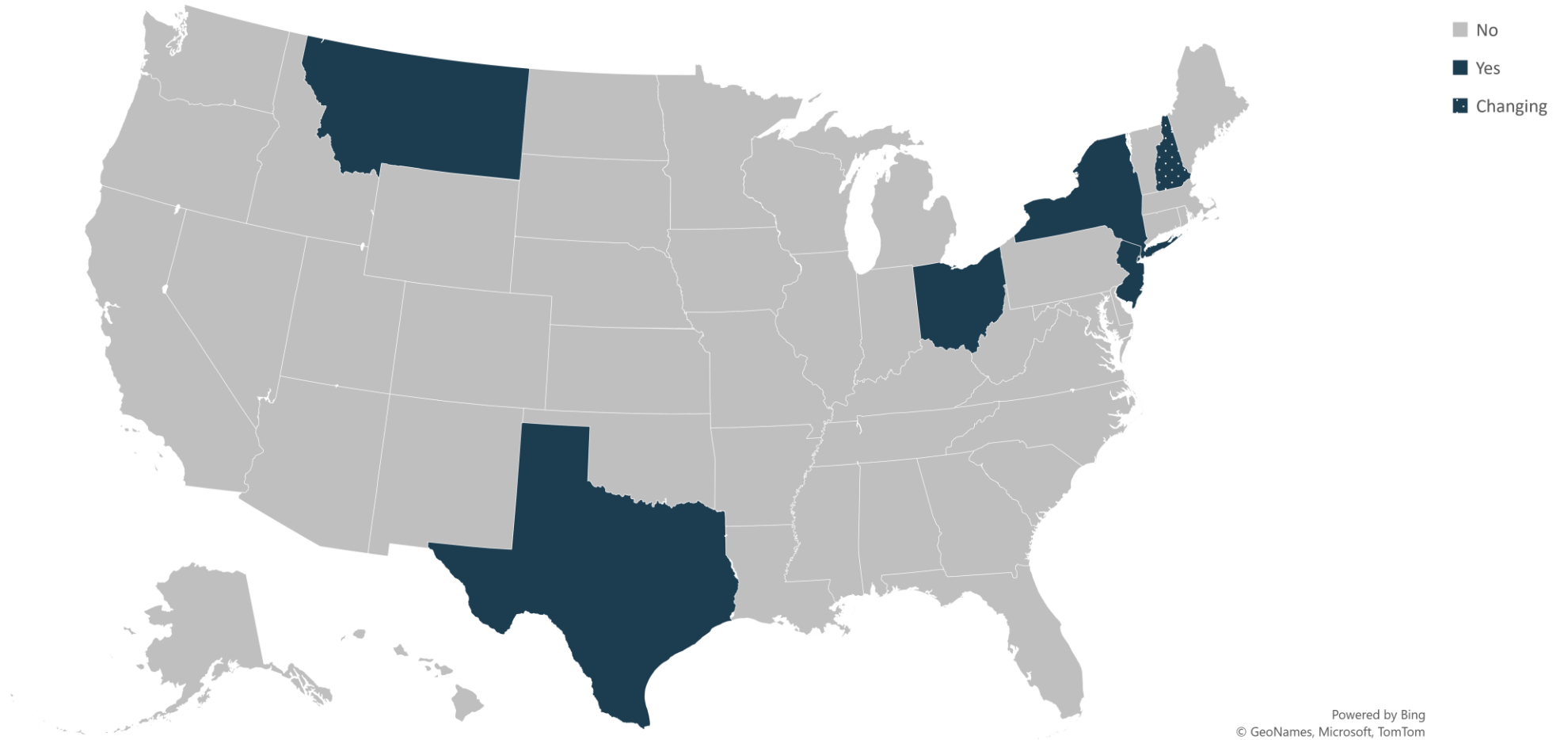## Does your state have IIS enabling legislation?
- Law/statute may be silent

Consent
- Is consent required?
- Is it required for specific populations (≥19)

Opt-in Required for Adults (19+)

No
Yes
Changing

Powered by Bing
© GeoNames, Microsoft, TomTom

Policies to consider

Does your state have IIS enabling legislation?
- Law/statute may be silent

Consent
- Is consent required?
- Is it required for specific populations (≥19)

Reporting to IIS
- Is it required for specific populations (e.g., 0-18)
- Is it required for specific provider types (e.g., pharmacies)

Required provider reporting for vaccinations administered for individuals >19 years

- **16** required for all vaccinations from all providers
- **12** required for all vaccines, but only from specific providers
- **7** only for adult vaccines provide through the state vaccine program
- **3** yes, for specific vaccinations from specific providers
- **16** no requirements

Data Capture

Data Capture Across All IIS – 2020
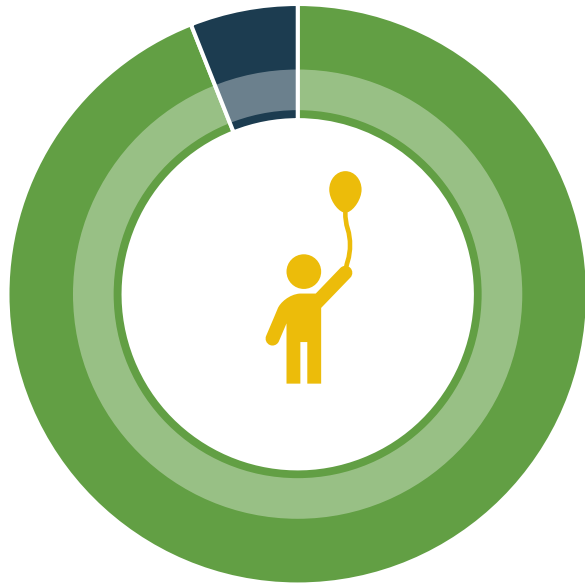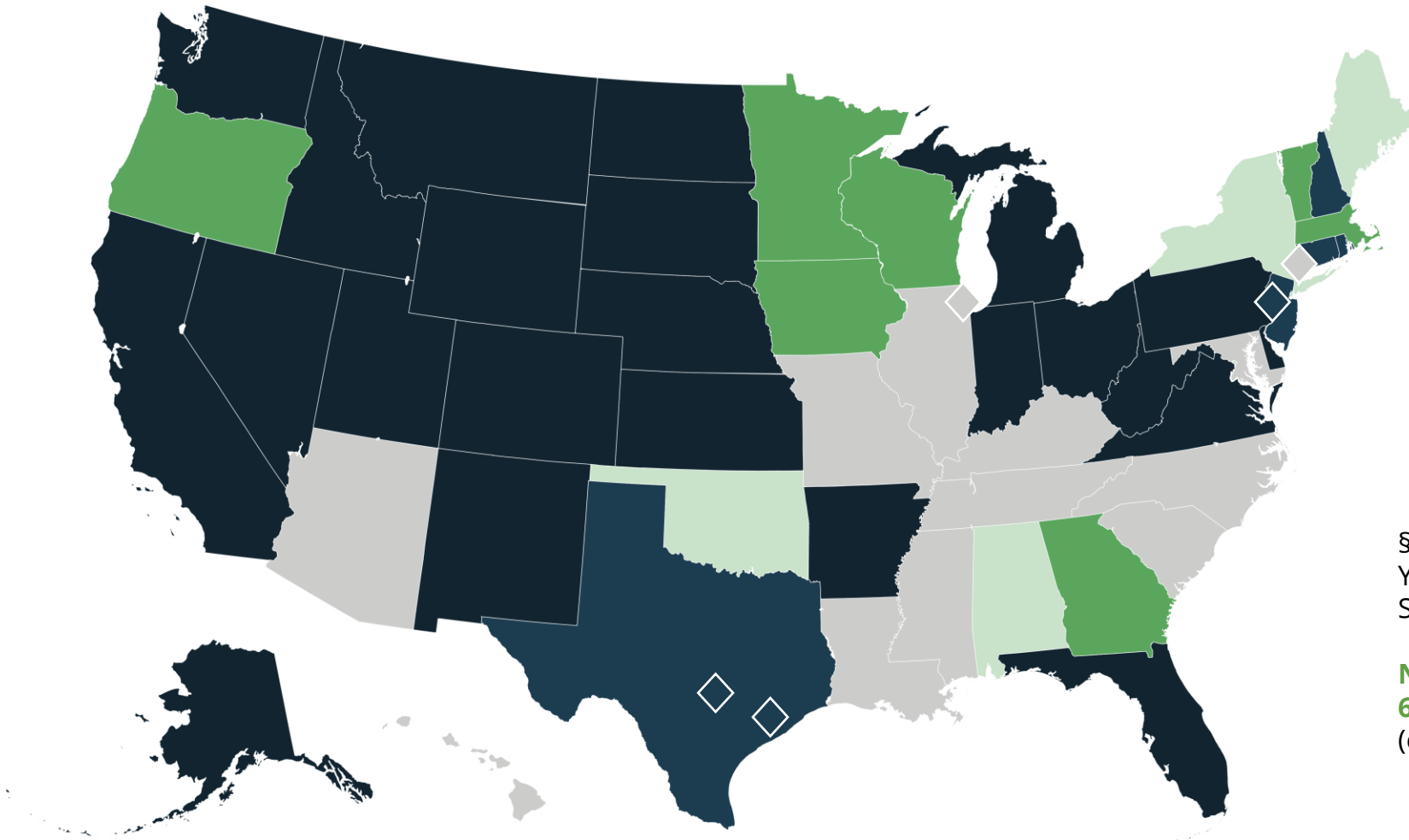
Children Under 6:
94%
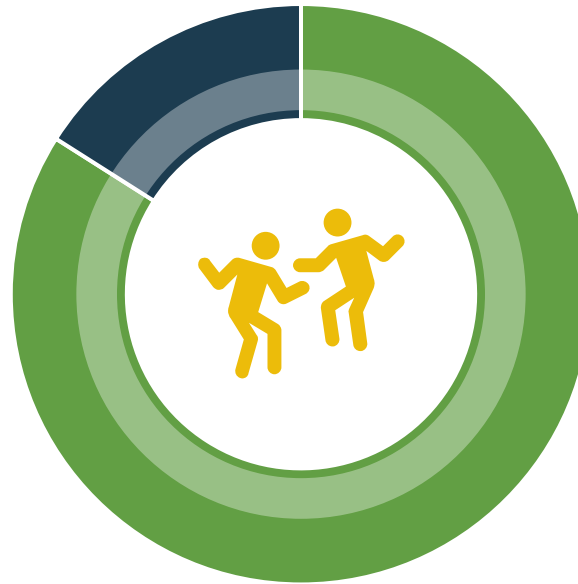
Adolescents 11–17:
84%

Adults 19+:
68%

- *Participation for children and adolescents requires two or more vaccines*
- *Participation for adults requires at least one adult vaccine*

Percentage of adults aged ≥19 years participating in an IIS
United States, five cities§, and D.C., 2020 (adapted)

Adults 19+:
68%

§Chicago, Houston, New
York City, Philadelphia,
San Antonio

**National Participation:
68%**
(excluding Territories)

■ <25%   ■ 25%-49%   ■ 50%-74%   ■ 75%-94%   ■ ≥95%

2020 IISAR

Purpose & Utility

Policies to consider

Access
- Who can have access and for what purposes?
  - Clinical care
  - Schools
  - Other public health programs, Medicaid, etc.?
  - Payers?

Data Use
- What can data be used for?
- In what format can data be shared (aggregate, deidentified, etc.)
- Research?

Consumer Access

- There are differences across the U.S.

- Each state determines
    - Who can access the IIS
    - What records it will provide
    - What format(s) it will provide

Yes
Under Review
No
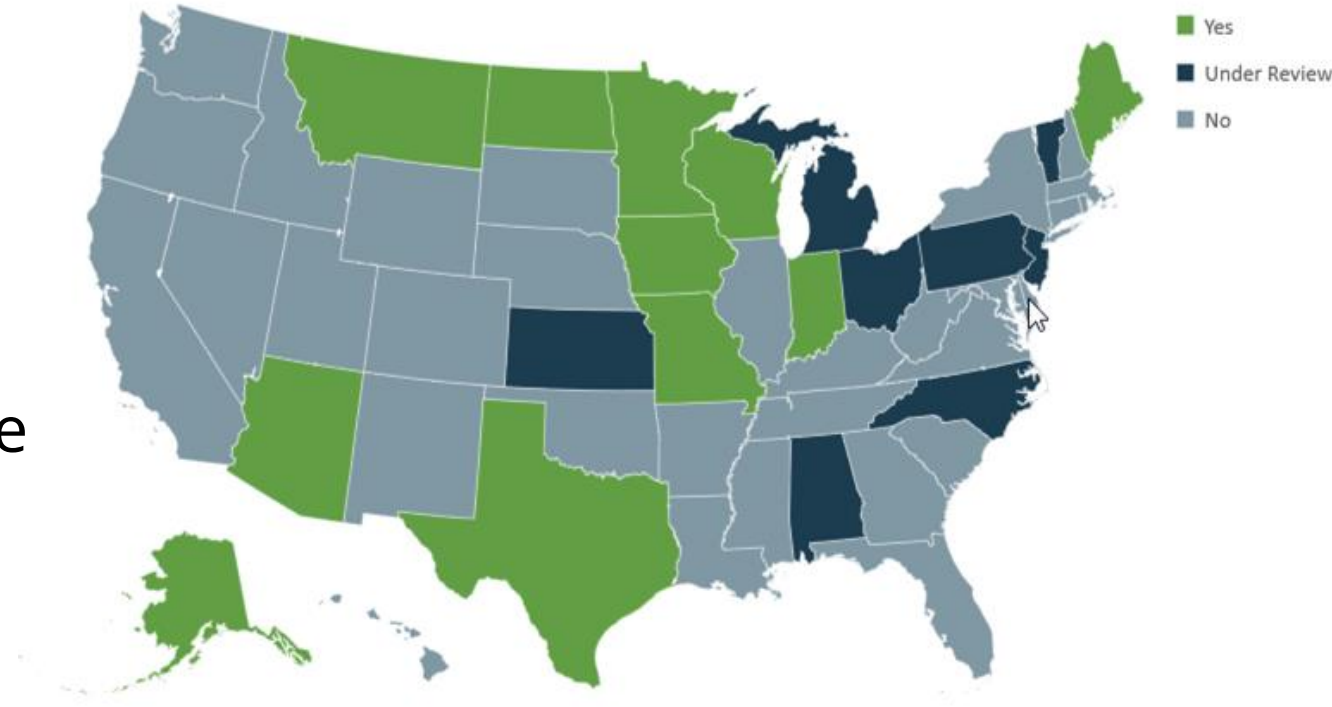
The Evolution of Vaccine Records

"I am not an advocate for frequent changes in laws and constitutions, but laws and institutions must go hand in hand with the progress of the human mind. As that becomes more developed, more enlightened, as new discoveries are made, new truths discovered and manners and opinions change, with the change of circumstances, institutions must advance also to keep pace with the times…"

Thank you!
More information @ www.immregistries.org

Extra Slides

Federal laws relevant to IIS

- Health Insurance Portability and Accountability Act (HIPAA)
  - **Is the IIS a covered entity? A hybrid?**

- Family Educational Rights and Privacy Act (FERPA)
  - Protects the privacy of student education records but indirectly affects data exchange between schools/IIS

- 21st Century Cures Act
  - Health information reform, includes provisions around TEFCA (Trusted Exchange Framework and Common Agreement)

Technology

- Update and maintain systems
- Enhancements,
- New developments
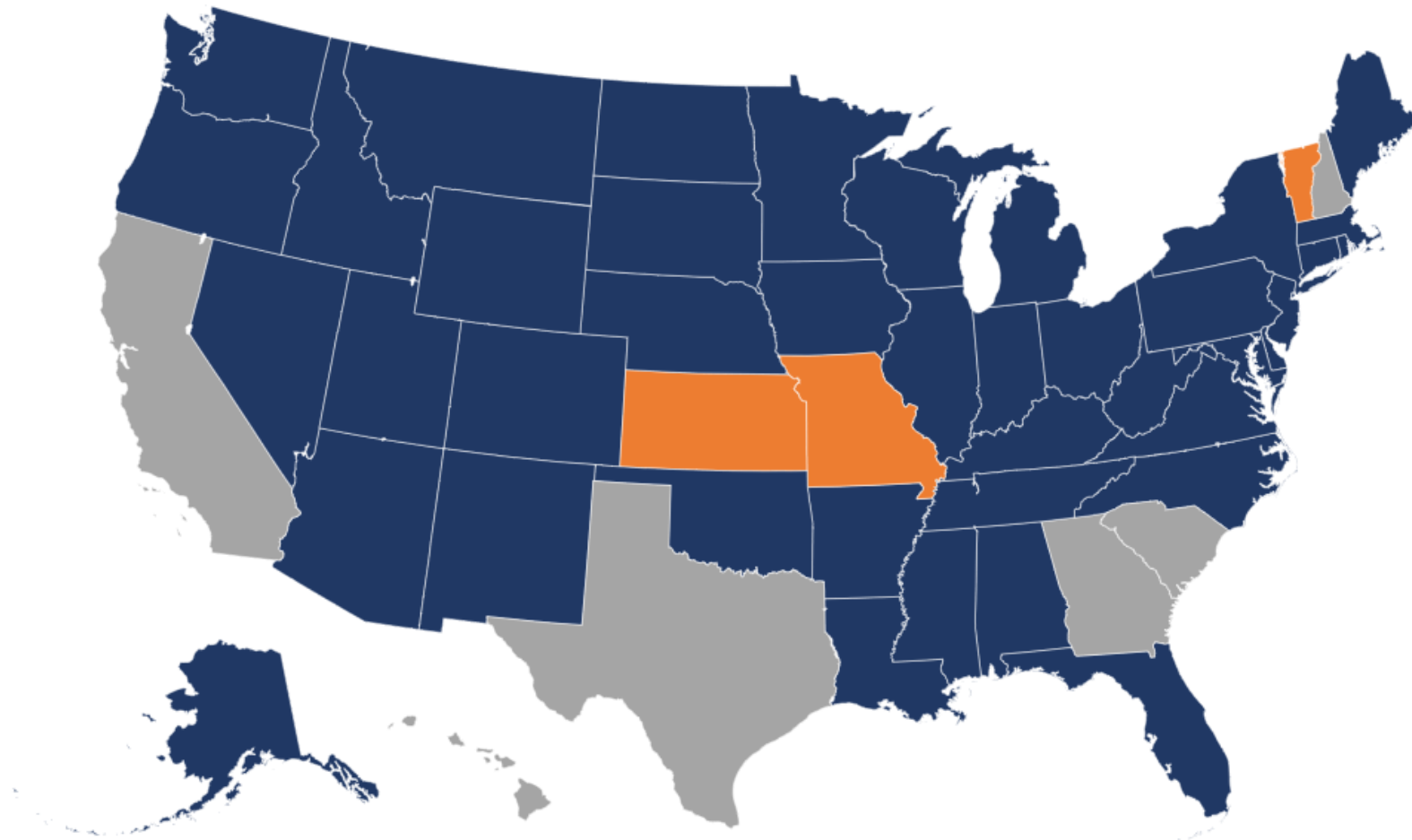- Monitor quality
- etc.
- System security

Operations

- Funding to support IIS
- State funds can open the door to more funds (Medicaid match funds), state priorities
- Integration

Bidirectional Data Exchange

- In 2020, IIS reported **over 121,000** HL7 data exchange connections
  - 2021 data forthcoming

- **~58%** of connections were bidirectional
  - ~46% in 2019

Interjurisdictional MOU Signatories

Signed   Not Signed   2015/2016 MOU