Child Health Evaluation and Research Unit

University of Michigan

University of Michigan
C.S. Mott Children's Hospital

Immunization Registry Operational Guidelines Evaluation

Progress to Date

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October 7, 2013

Today’s Update

- Background
- Approach
- Current status
- Next steps

What are the MIROW guides?

- Modeling of Immunization Registry Operations Work Group (MIROW)
- Identify and prioritize functional areas of IIS that can:
  - benefit from a collective approach
  - develop best practices
- Provide recommendations that are technology-independent

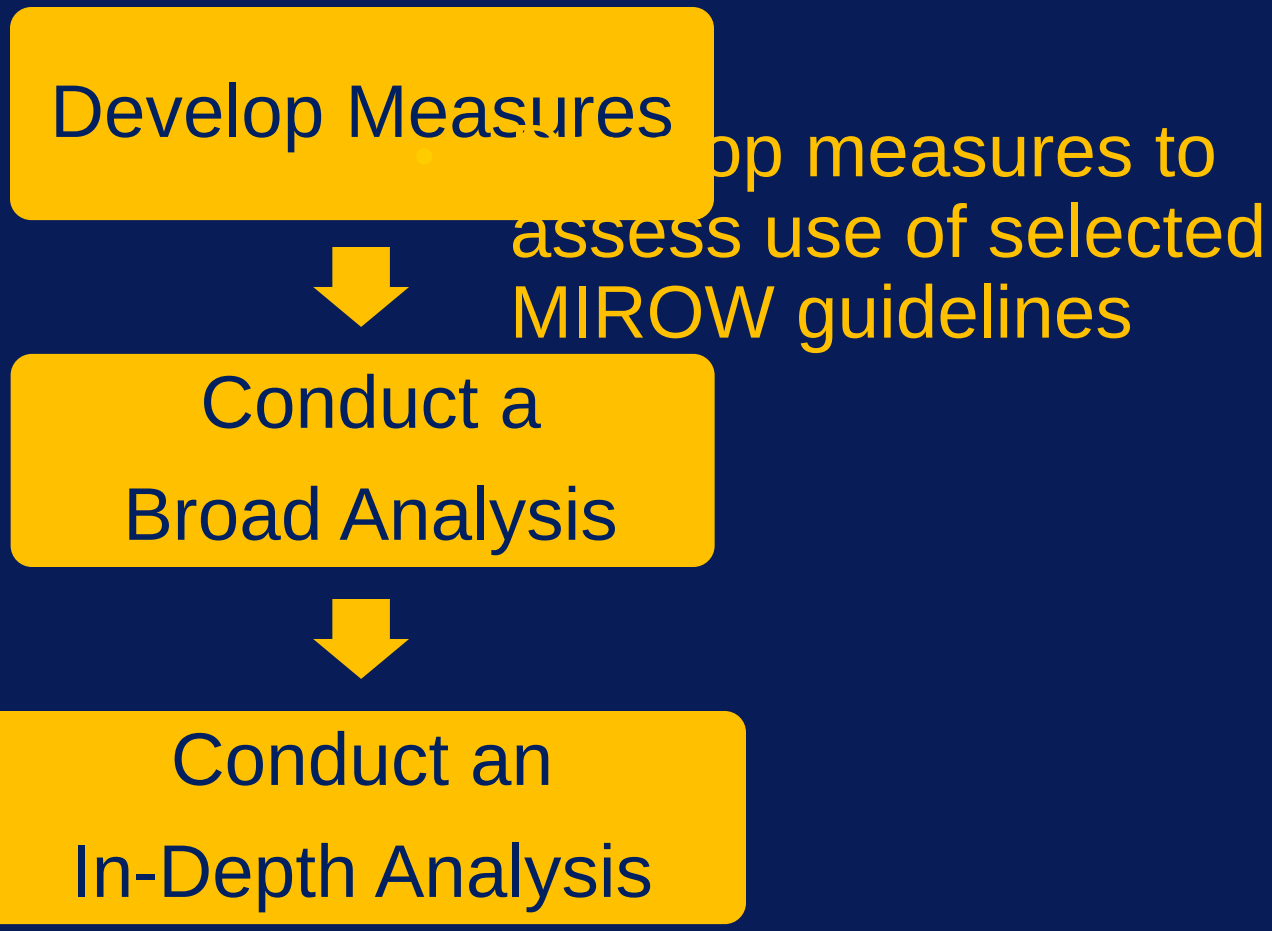
MIROW Best Practice Guides

- Principles, business rules, terms and definitions
- Business process models
- Challenges and solutions
- Peer-reviewed literature references
- Implementation examples

MIROW Evaluation Objectives

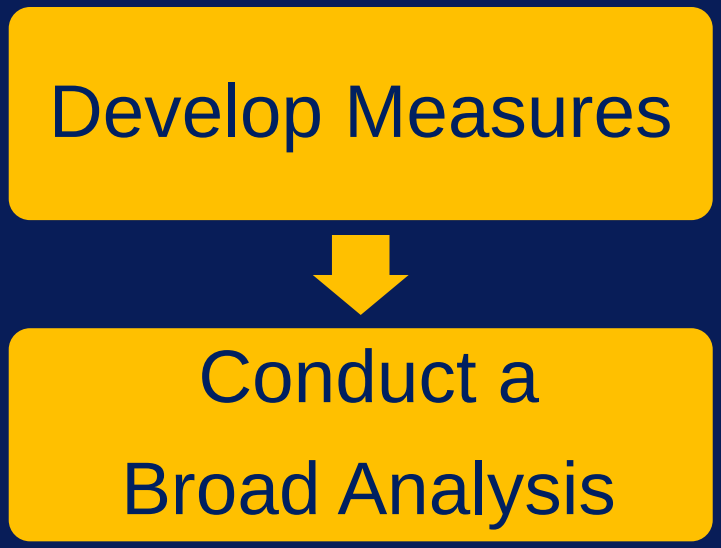
- To provide AIRA and the IIS community with an analysis of the impact on IIS operations of selected MIROW guides:
  1. management of patients' active / inactive (MOGE) status (2005)
  2. vaccine-level deduplication (2006)
  3. data quality assurance (2008)
- Timeline: May - December, 2013

Overview of Evaluation Process

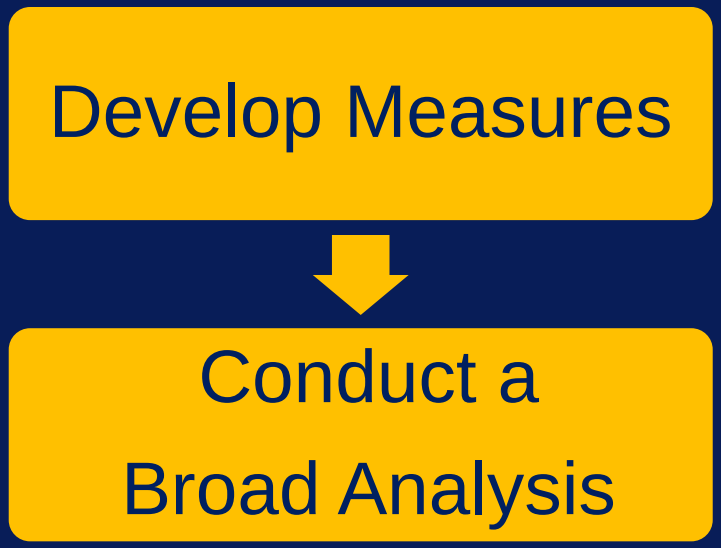

Develop Measures
op measures to assess use of selected MIROW guidelines
Conduct a Broad Analysis
Conduct an In-Depth Analysis

Develop Measures

- Explore familiarity with and usage of MIROW guidelines, including:
  - degree to which it is used
  - impacts on IIS operations
  - perceived benefits
  - barriers to implementation



- Conduct a broad analysis of MIROW guideline use among state and local IIS



- Contact IIS program:
  - email announcement sent by AIRA
  - follow-up email from CHEAR
  - schedule interview with IIS manager

Develop Measures

Conduct a Broad Analysis

- Interview IIS vendors
- Interview IIS programs:
  - verify & update background information (e.g., vendor)
  - collect MIROW-specific information
  - prepare notes & clarify
  - summarize themes

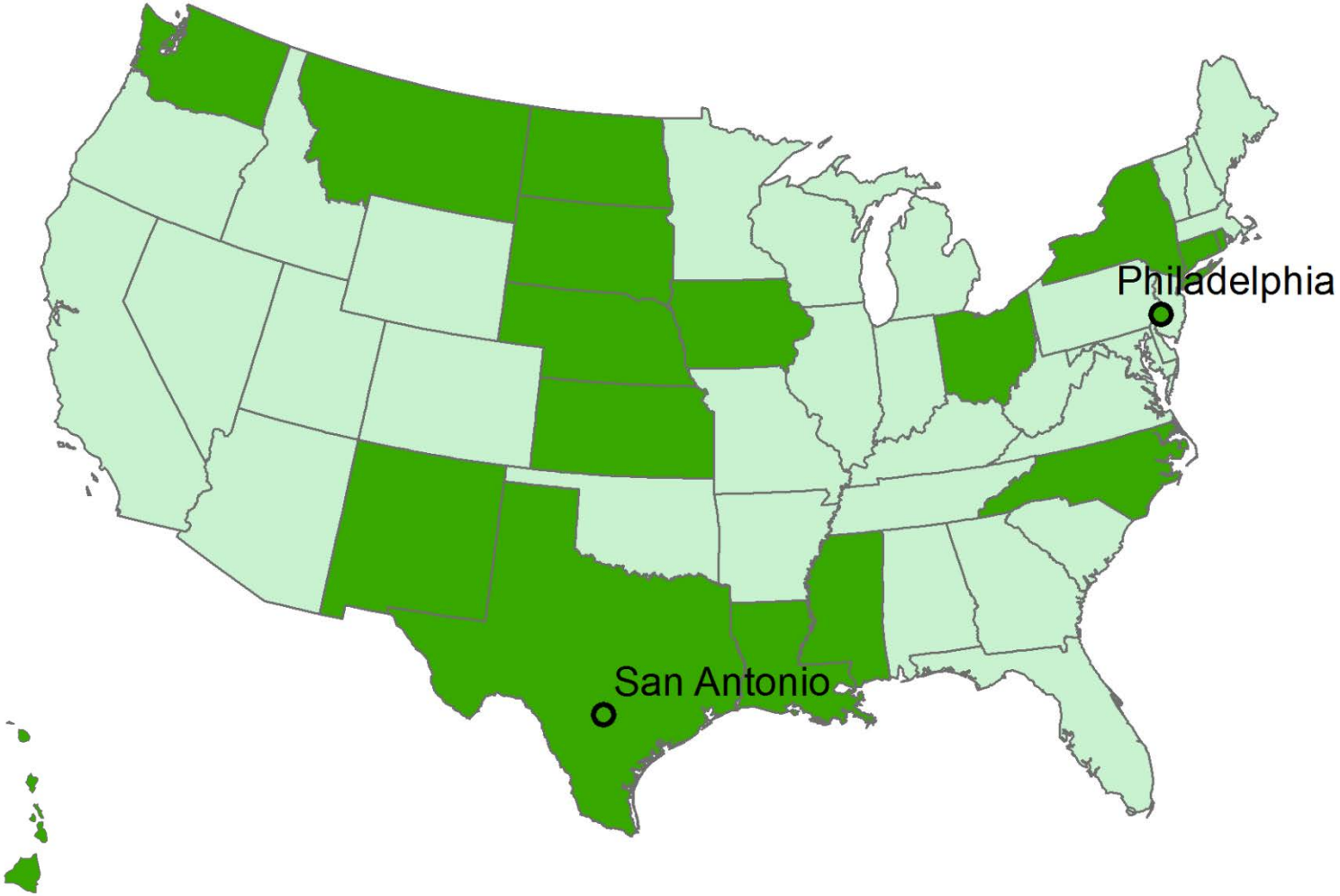
- Explore the impacts of key MIROW recommendations among a subset of IIS

- Consider key recommendations, e.g.:
  - patient status at provider & geographic levels
  - consistent definition and use of MOGE status
  - logic used for reminder / recall, assessment

- Process:
  - assess vendor representation across IIS
  - identify pool of candidate sites
  - conduct broad evaluation, all IIS
  - conduct in-depth interviews among subset

Preliminary Observations

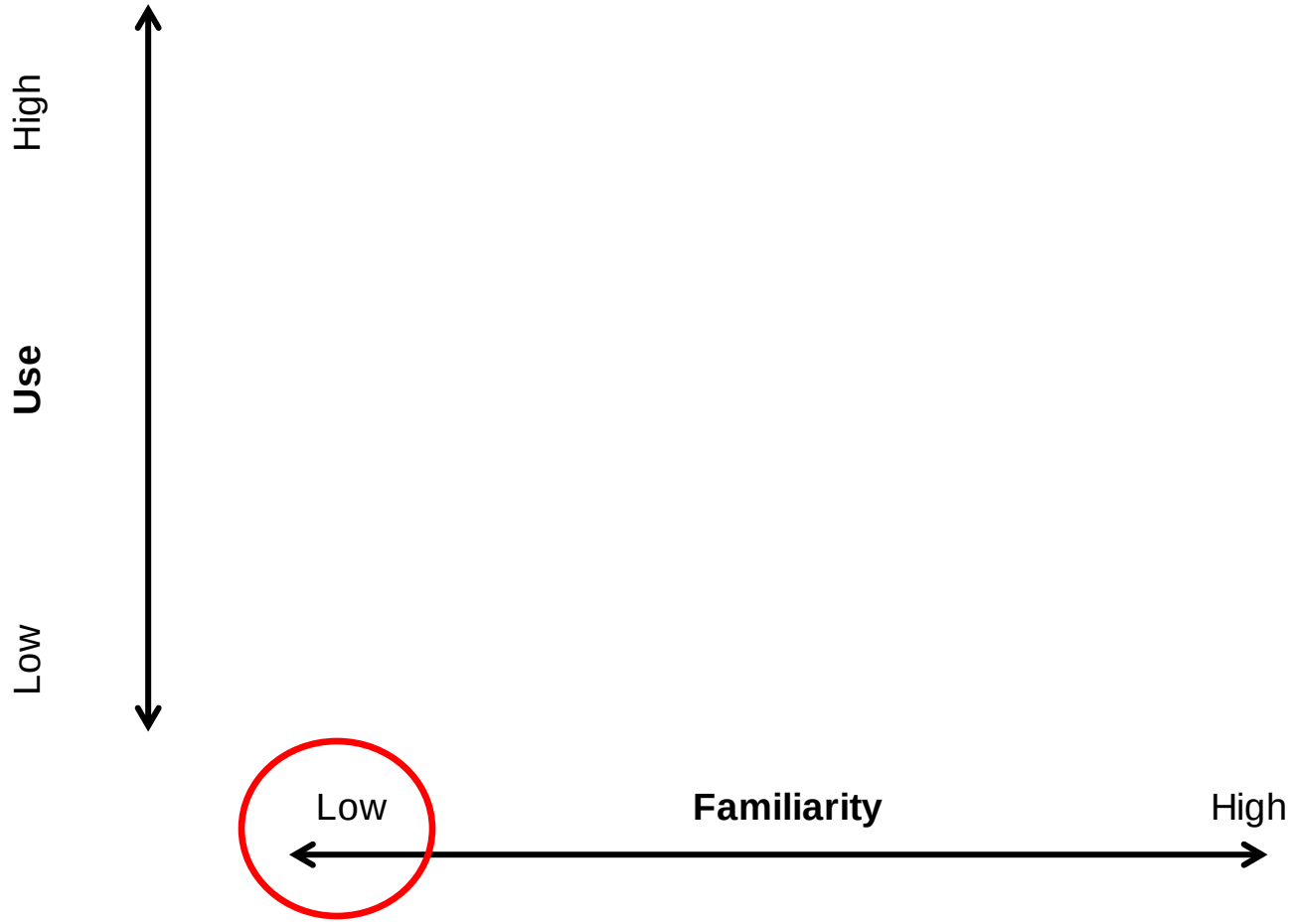
Interviews Conducted to Date



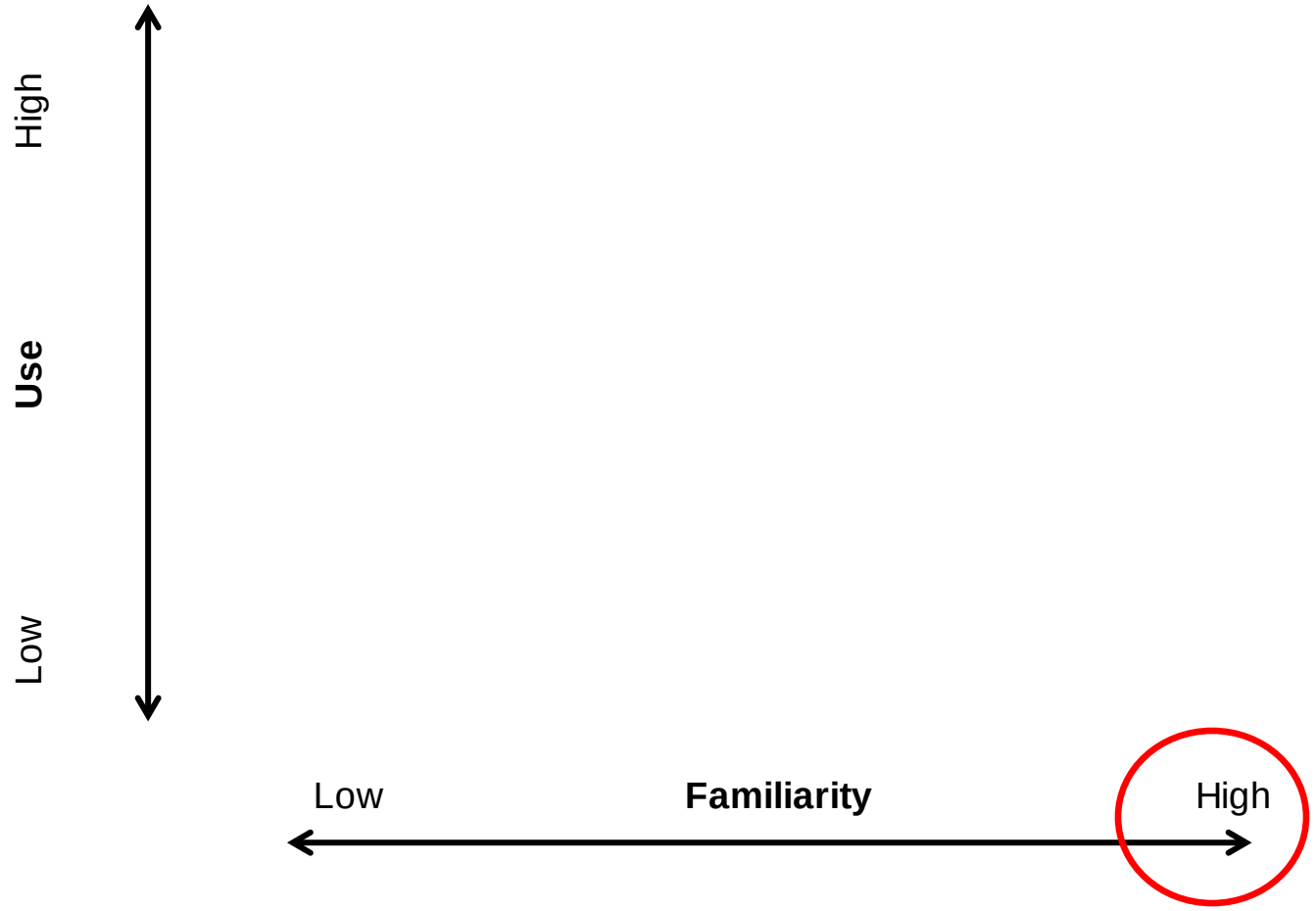
Preliminary Observations

- Most are familiar with the MIROW guides
  - of those, most have found at least one of the MIROW guides to be helpful
- Some variability in terms of:
  - familiarity
  - degree of use
  - timing of use
  - potential impact

MIROW Guide Familiarity vs. Use



MIROW Guide Familiarity vs. Use



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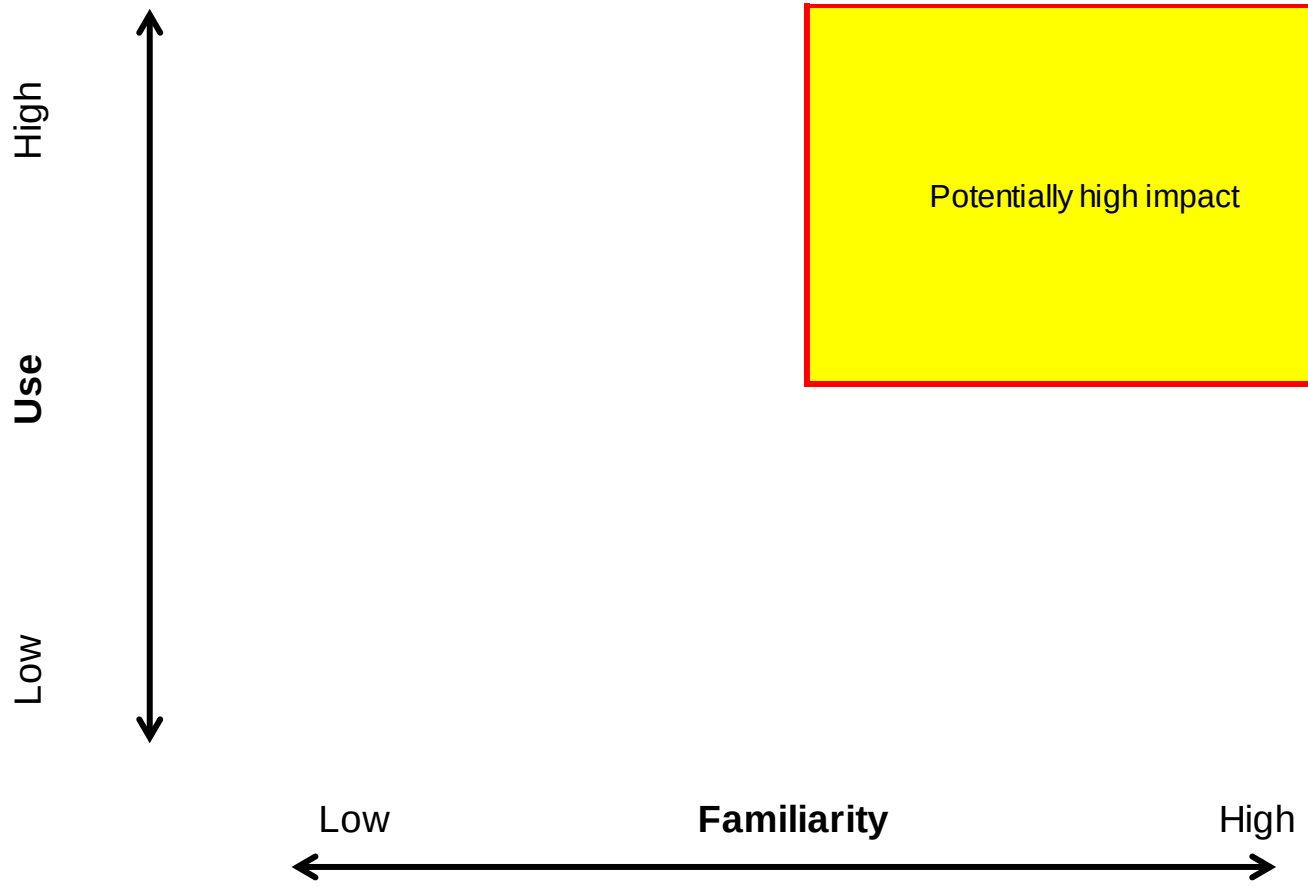

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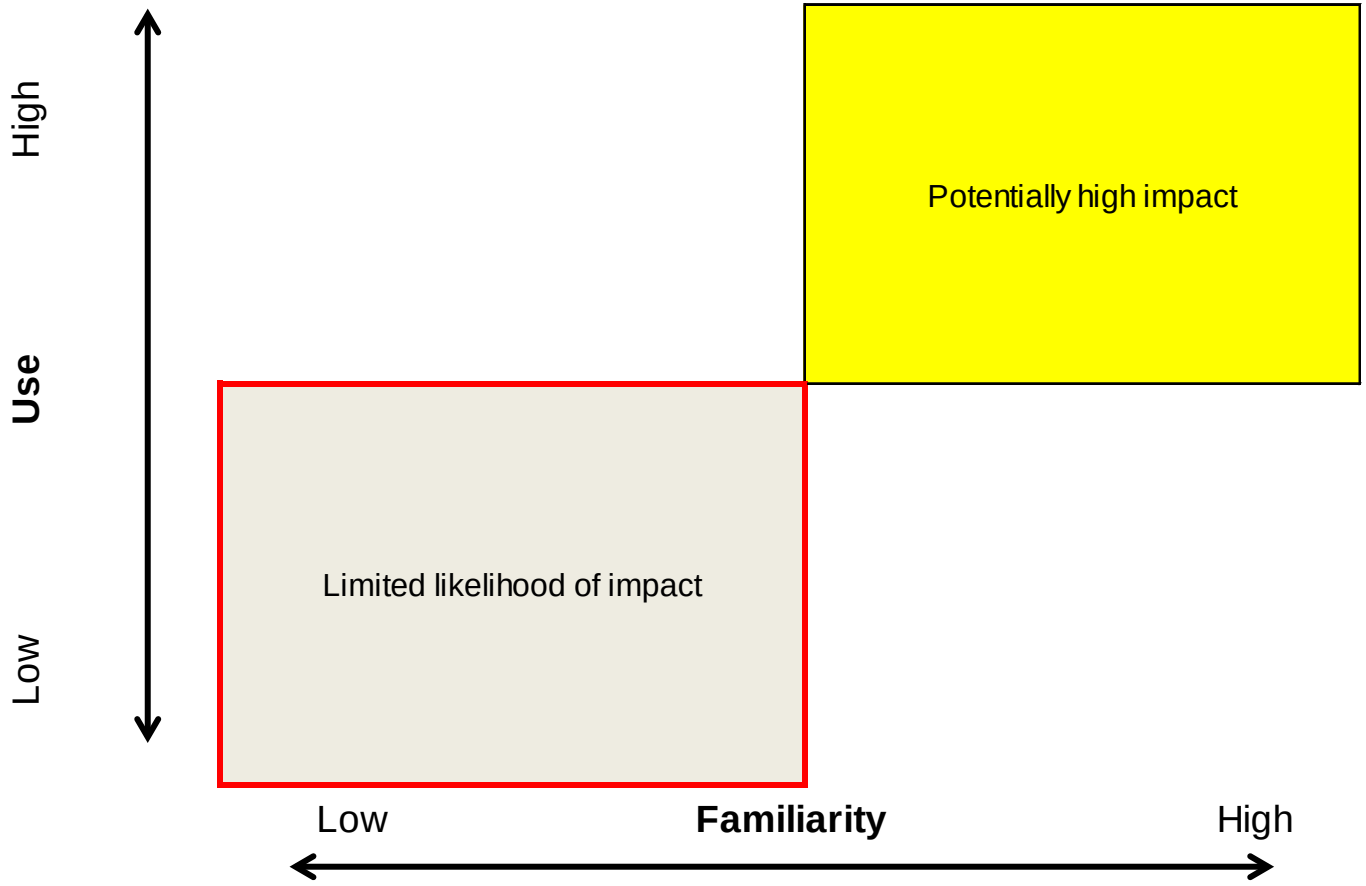

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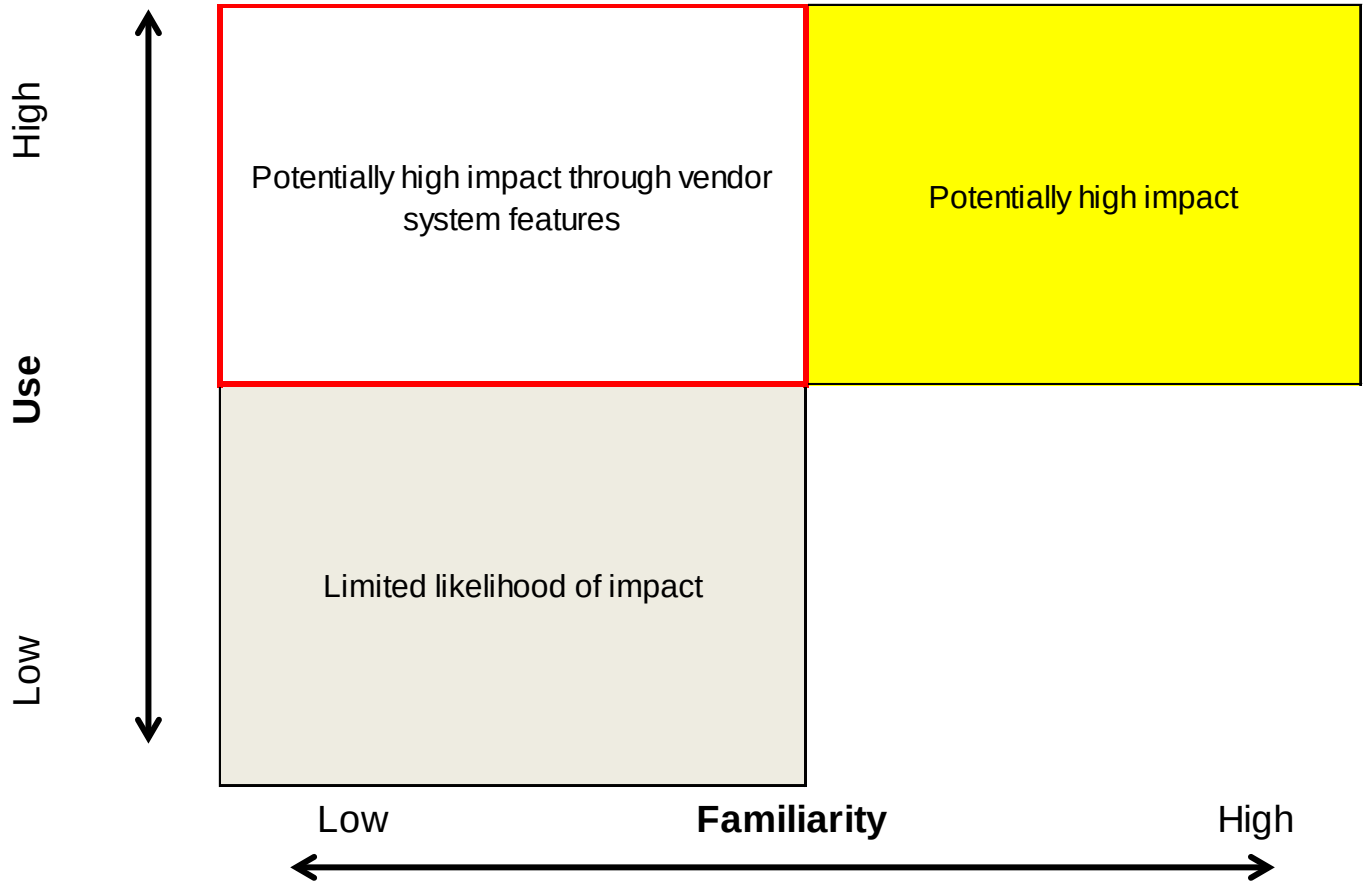

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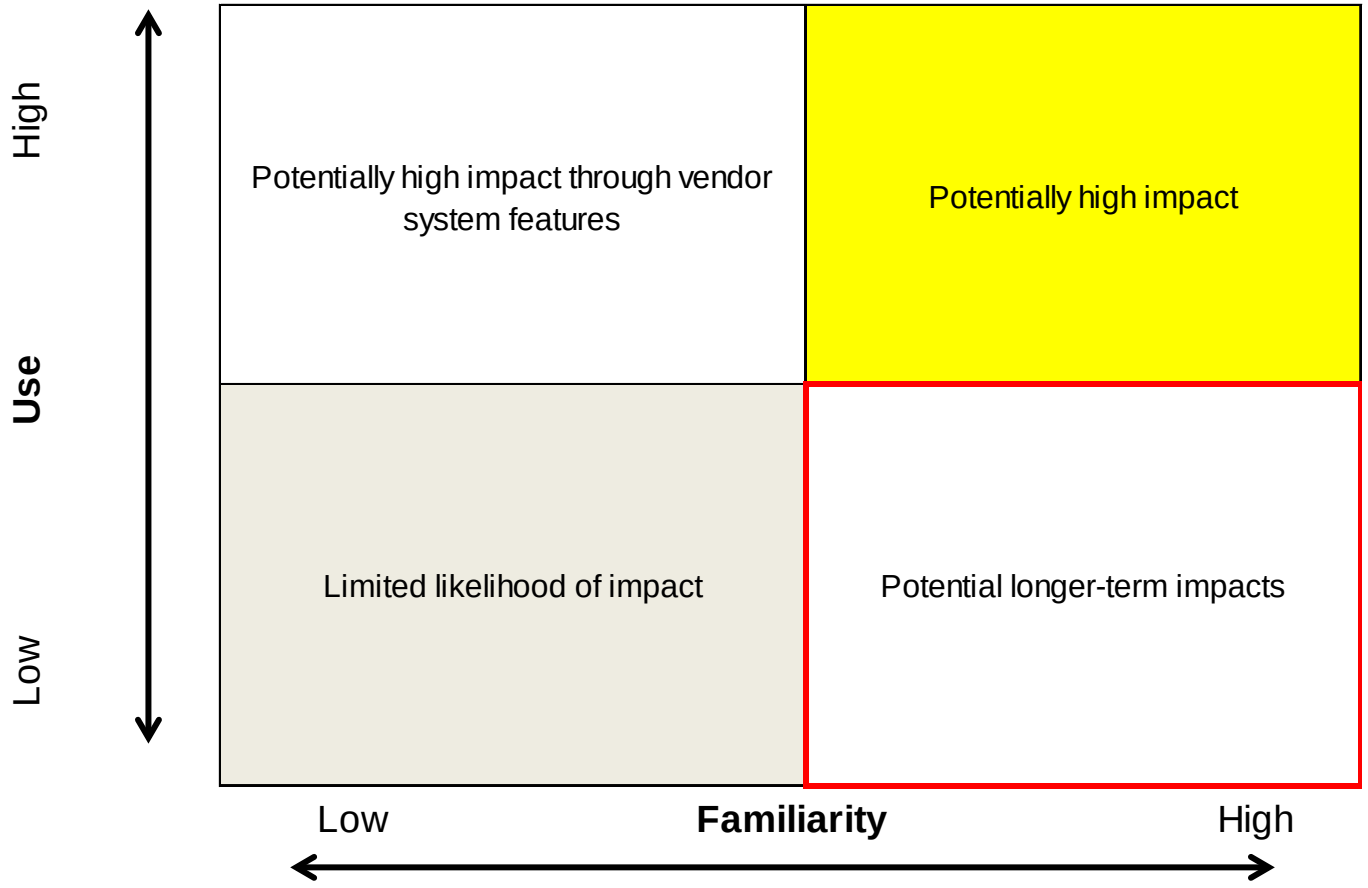


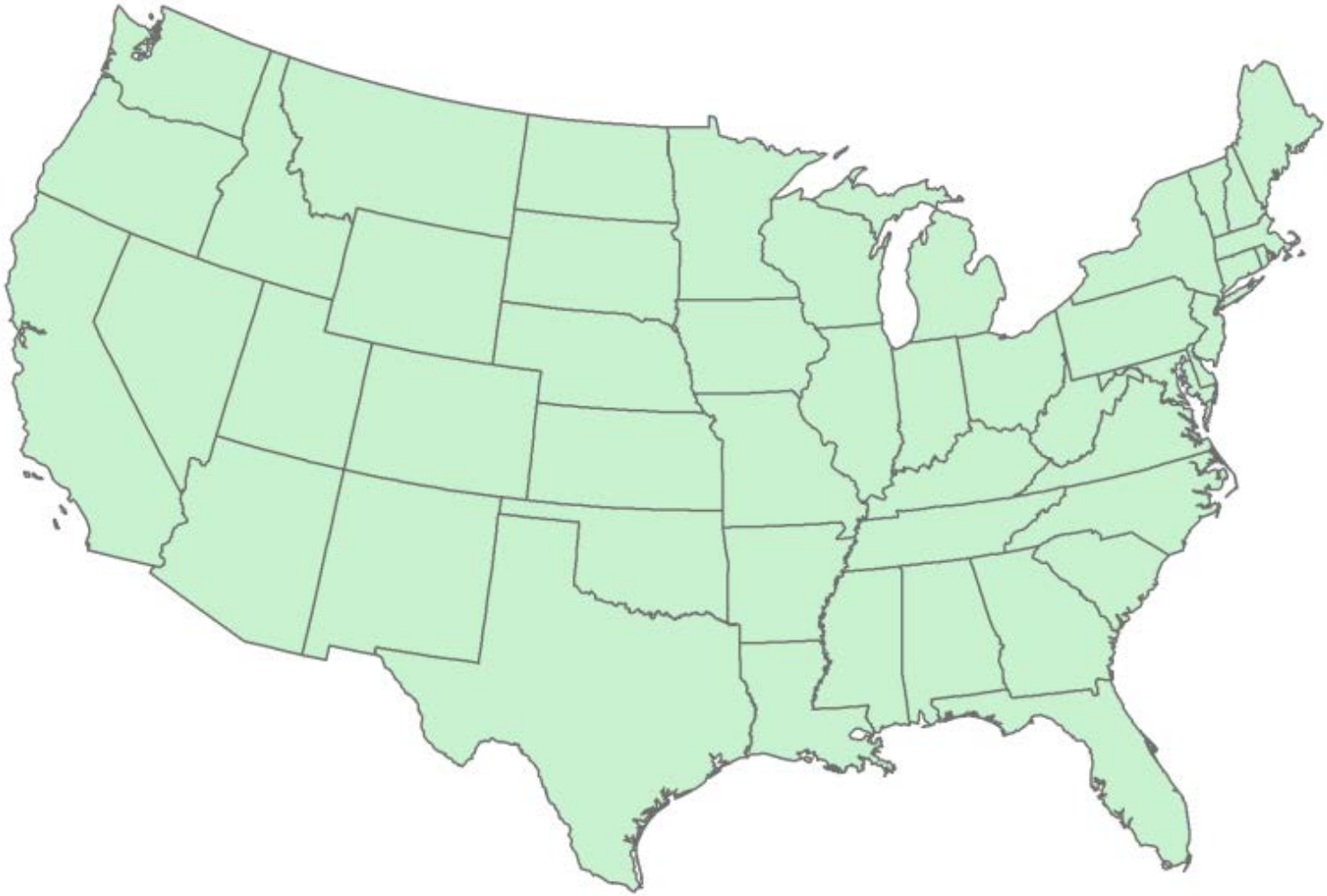
Preliminary Observations

- MIROW guide use is often spurred by a trigger event, e.g.:
  - new IIS procurement
  - new initiatives (e.g., EHR interoperability)
  - staff transitions
- MIROW guide recommendations may not align with jurisdiction business practices

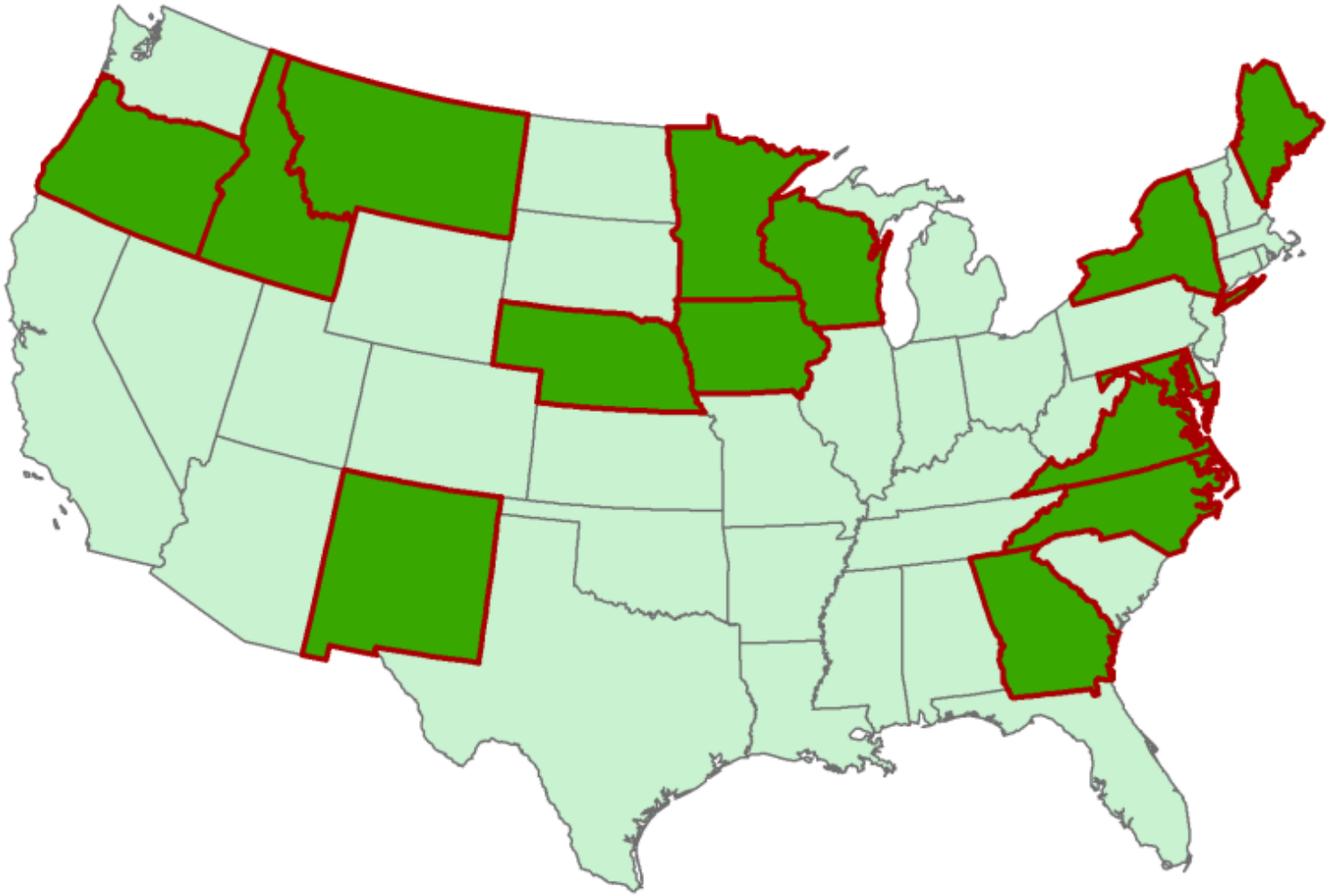
Preliminary Observations

- MIROW guide adoption is partially influenced by the IIS vendor product used
- Some vendor products may offer more uniform capabilities across jurisdictions
- Others products may seem to be the same, but may vary across jurisdictions, e.g., WIR

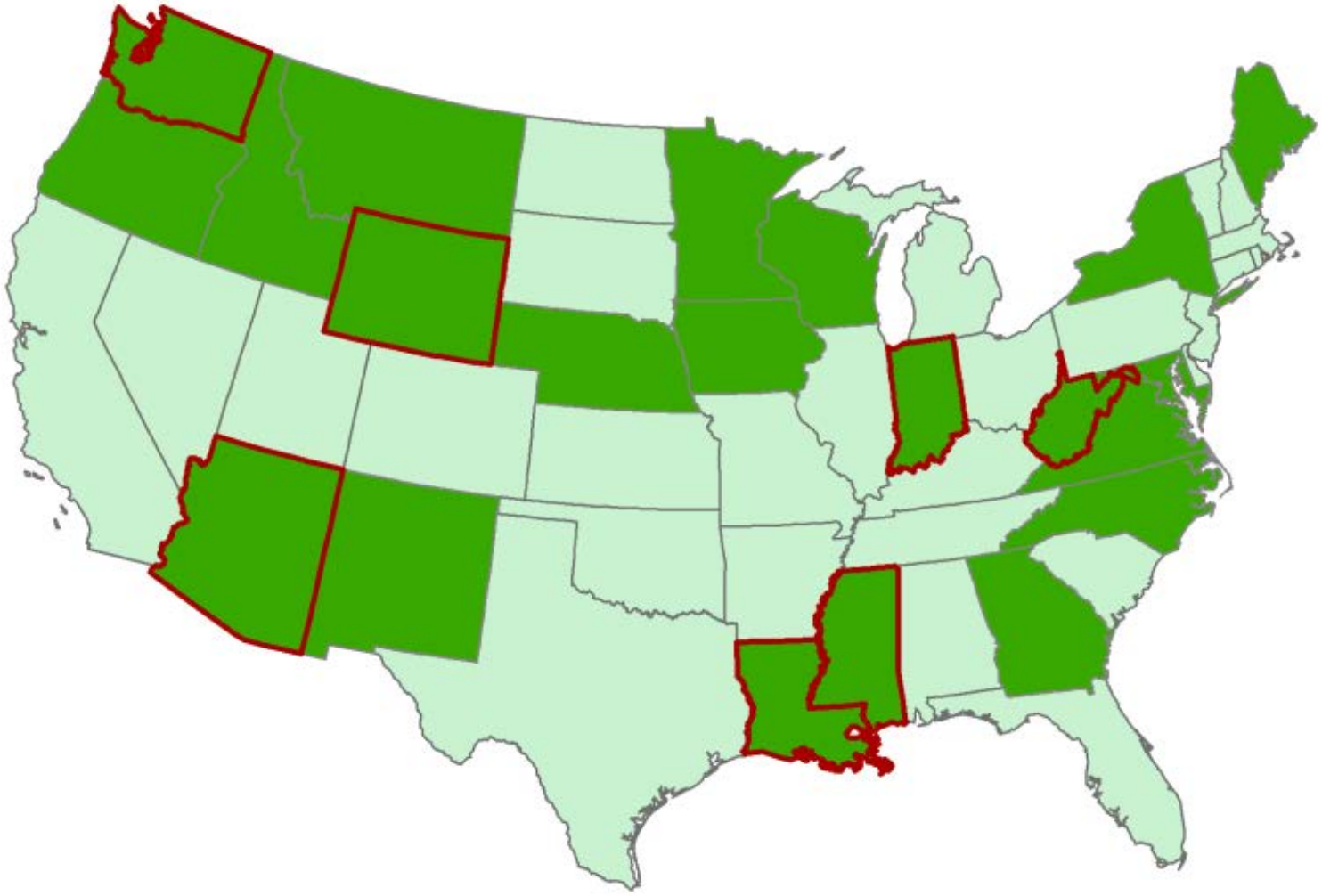
IIS Vendors



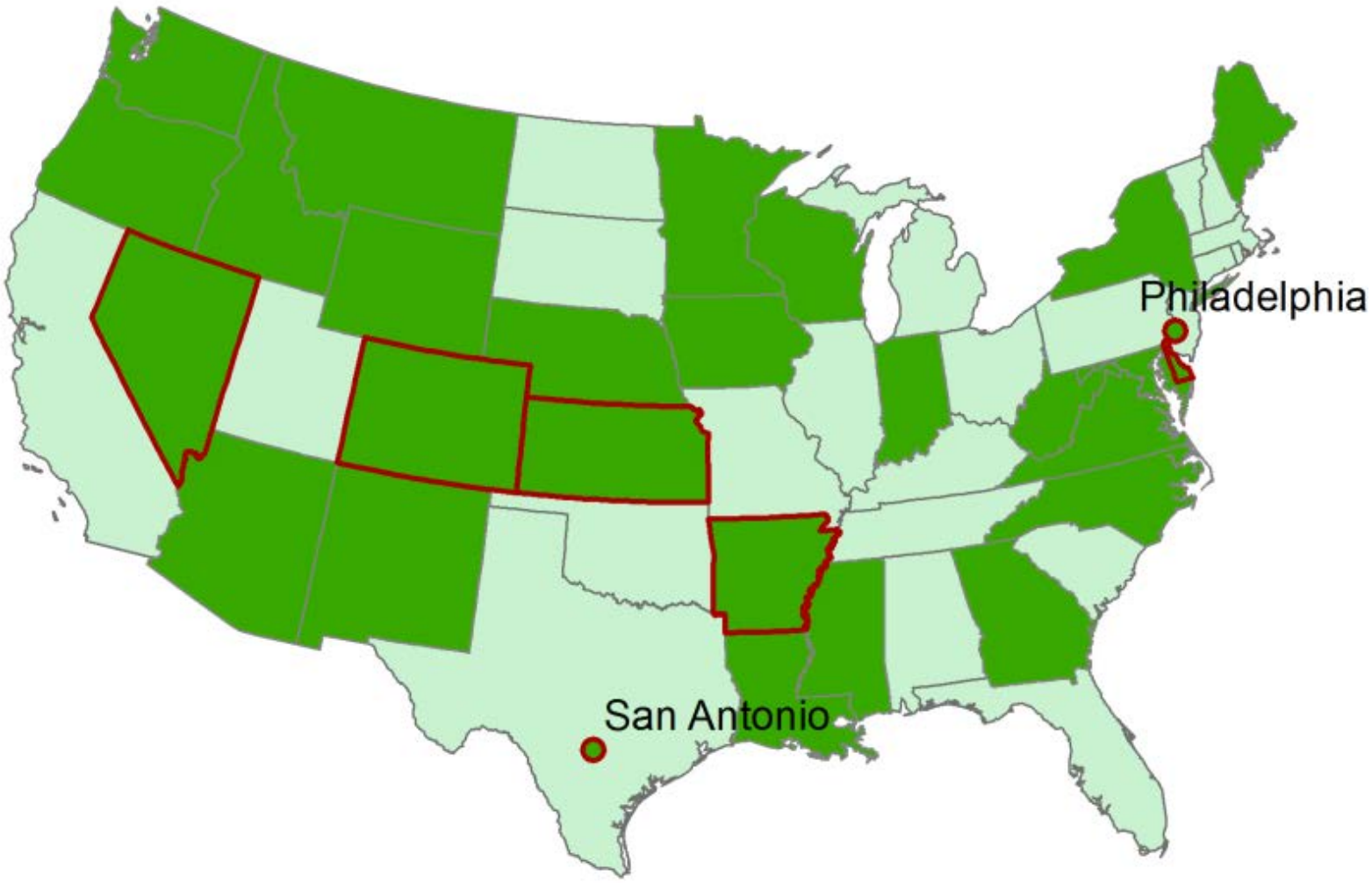
WIR



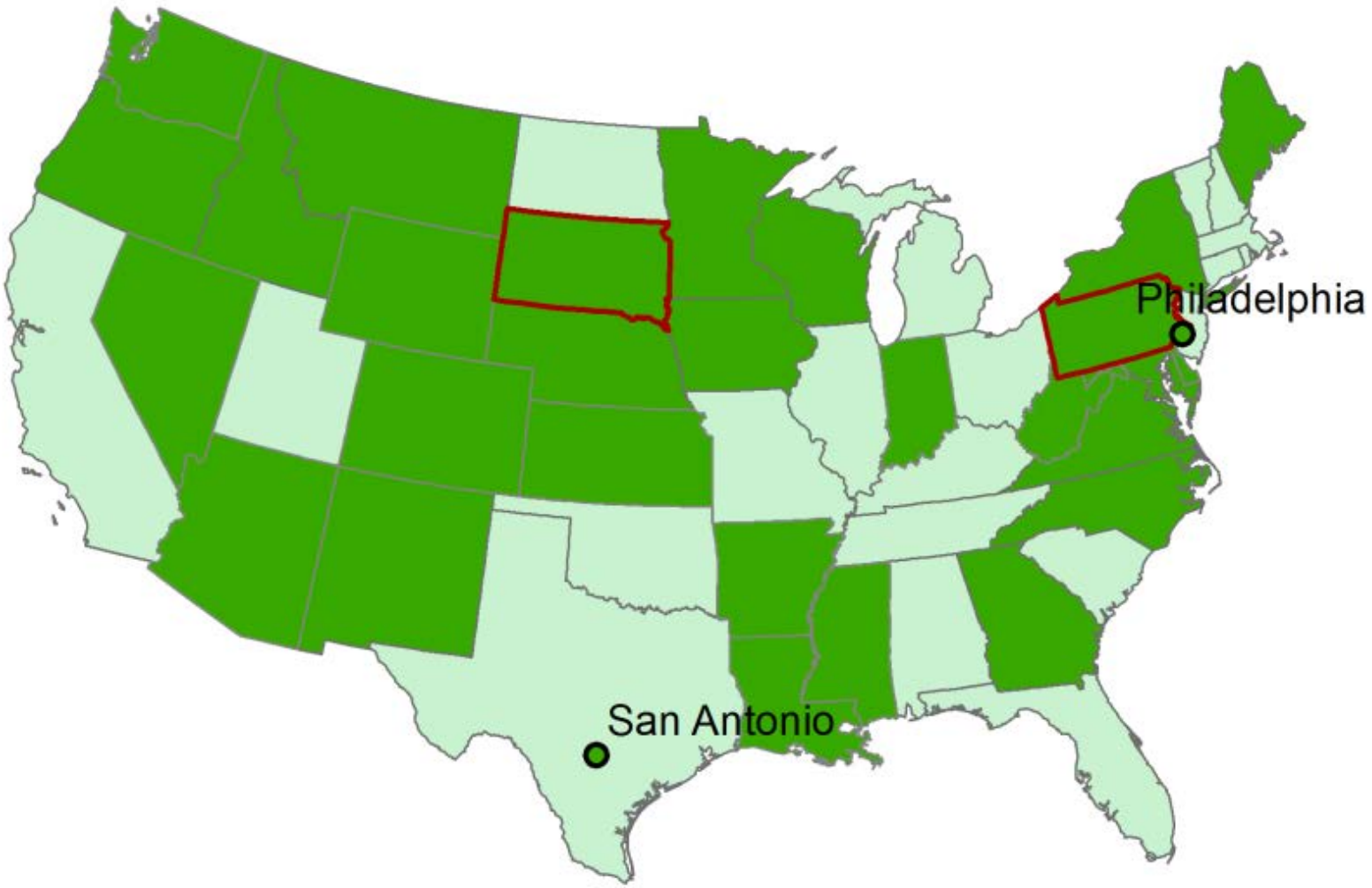
STC



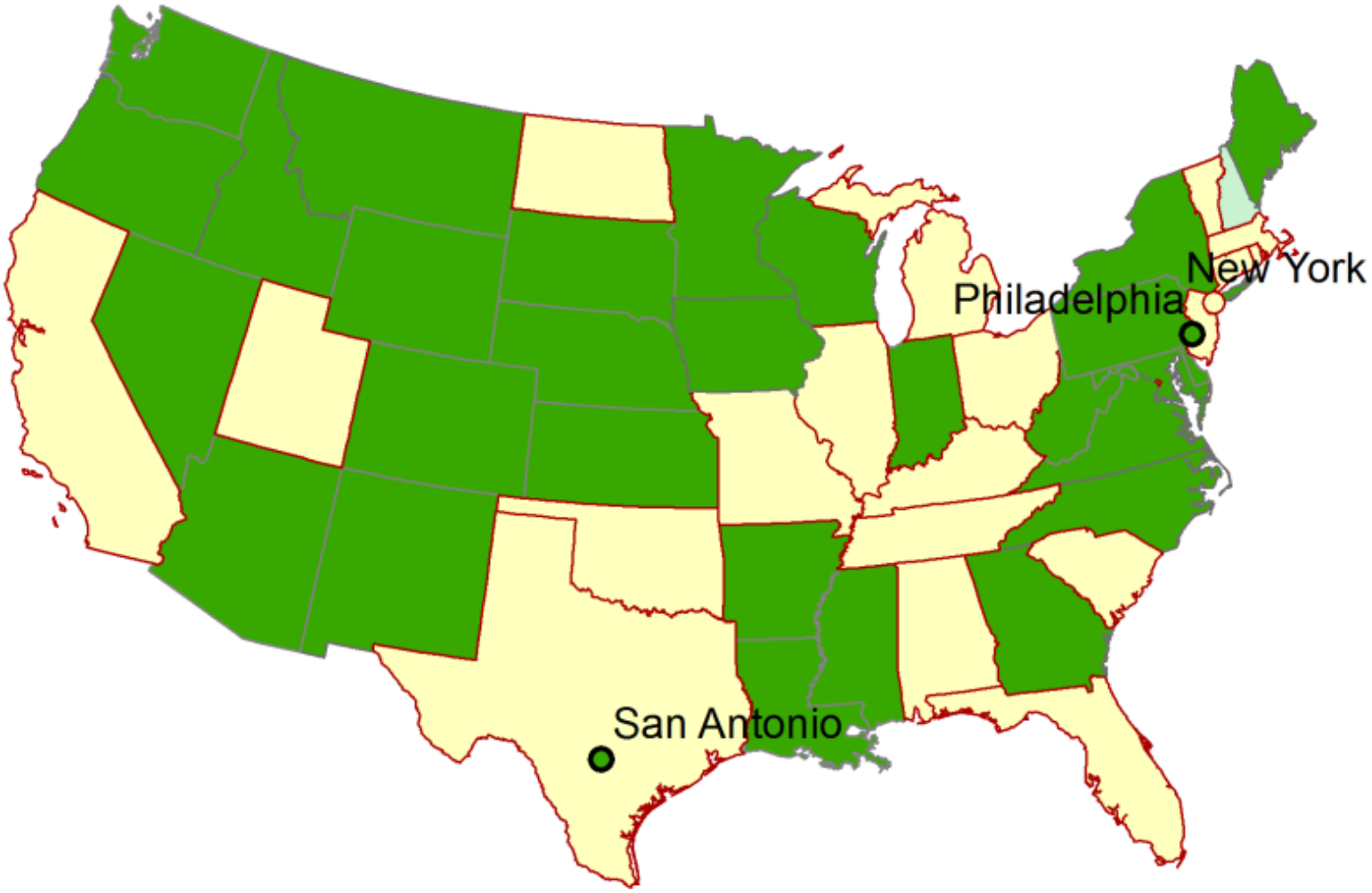
Envision



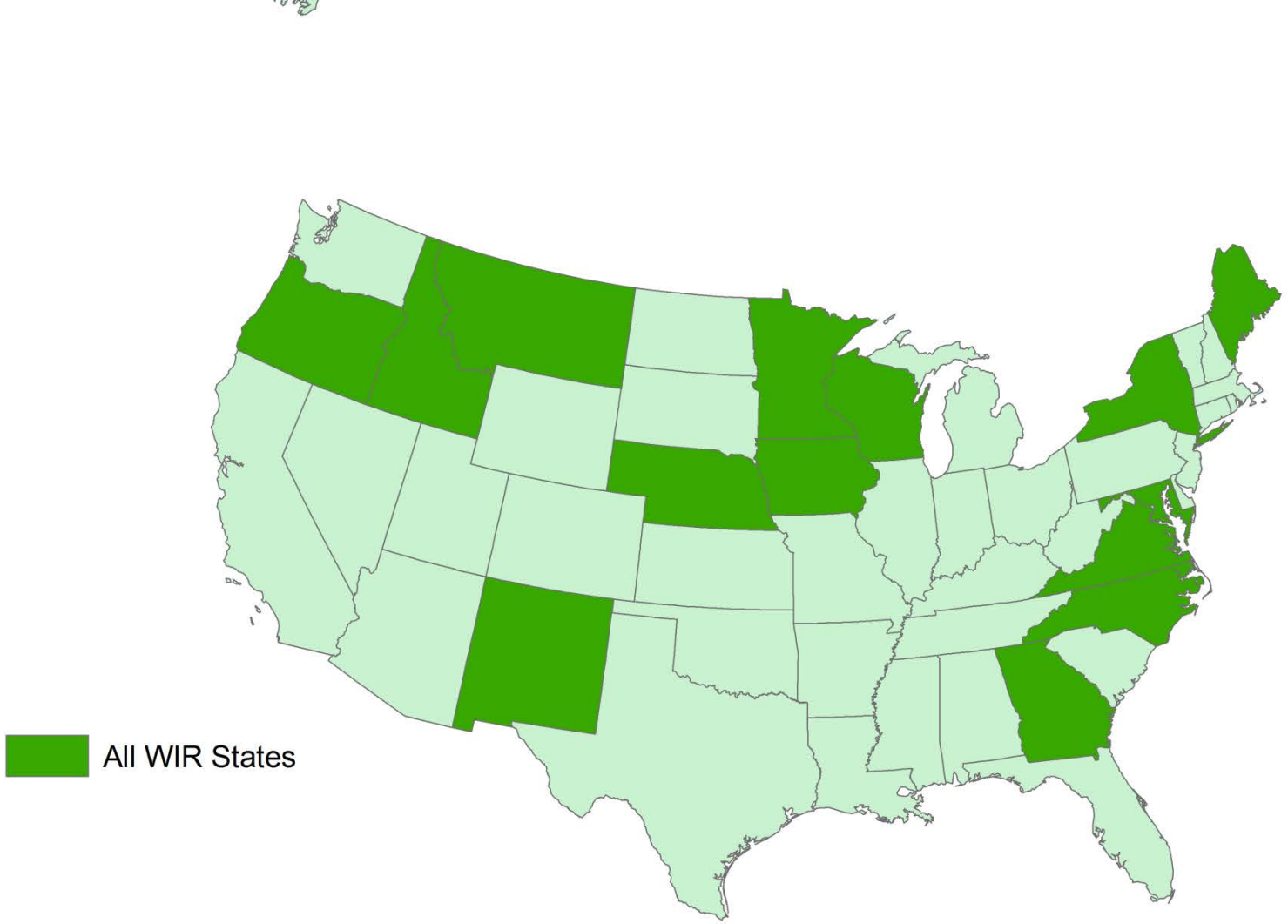
Avanza

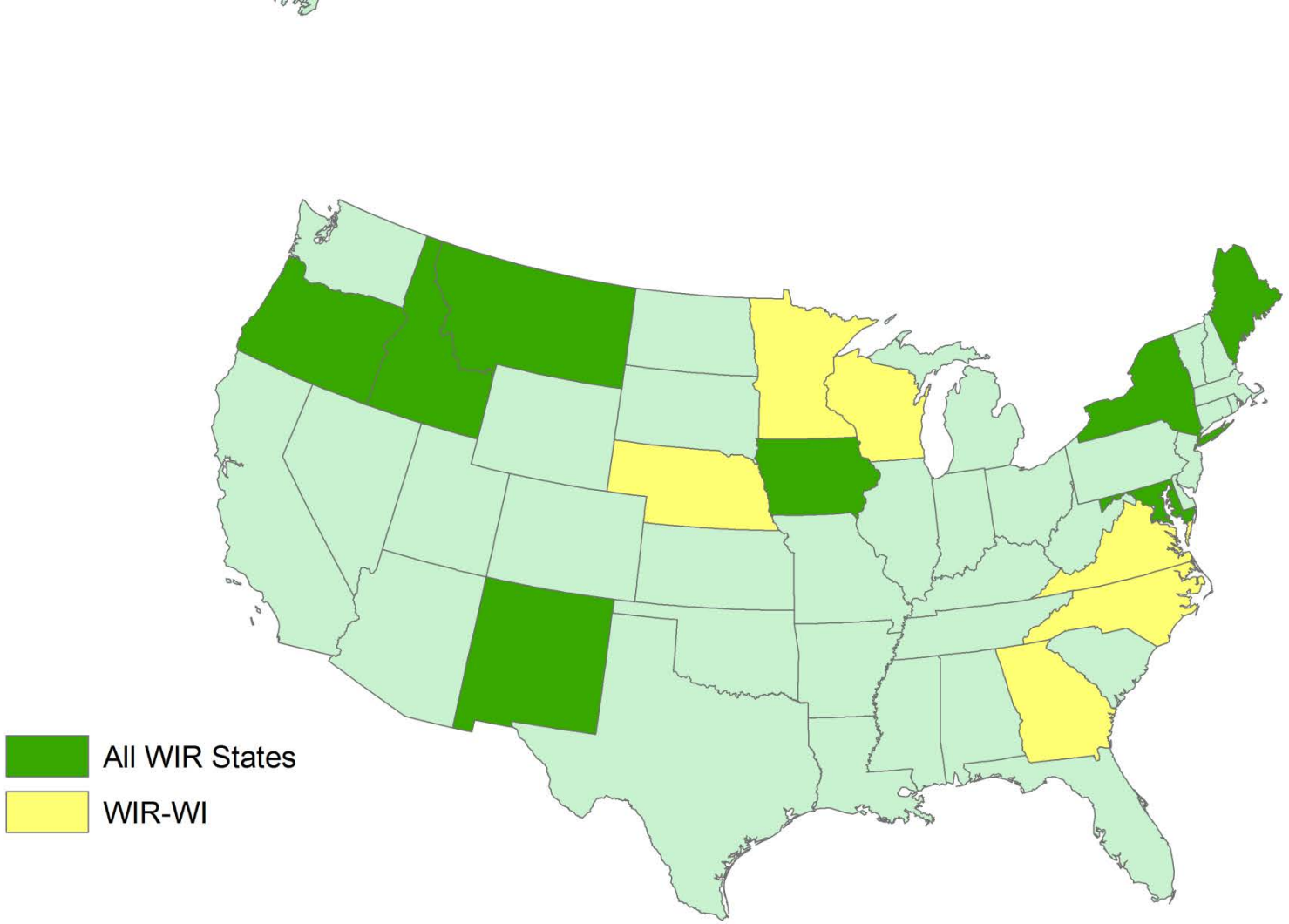


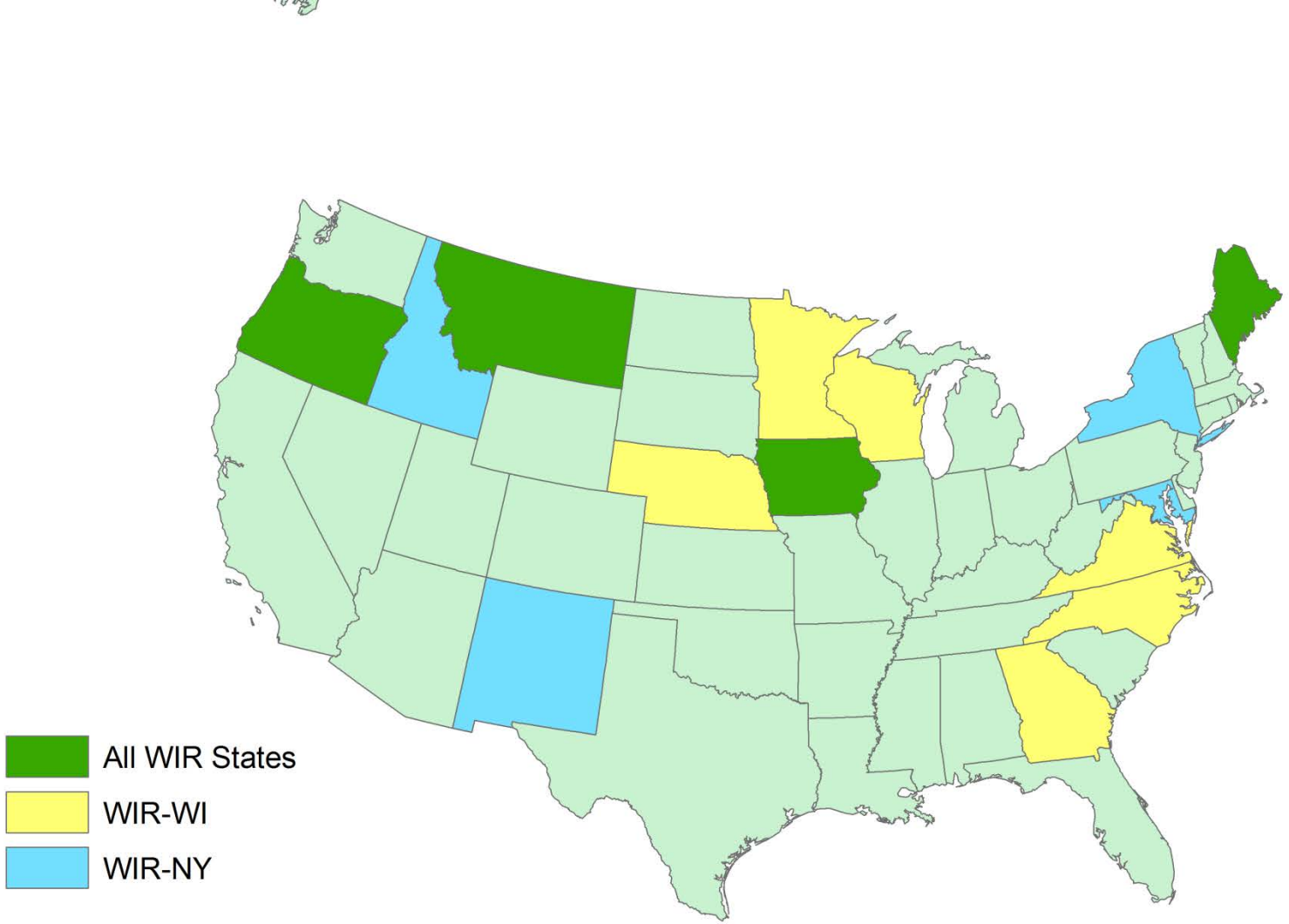
All Other IIS

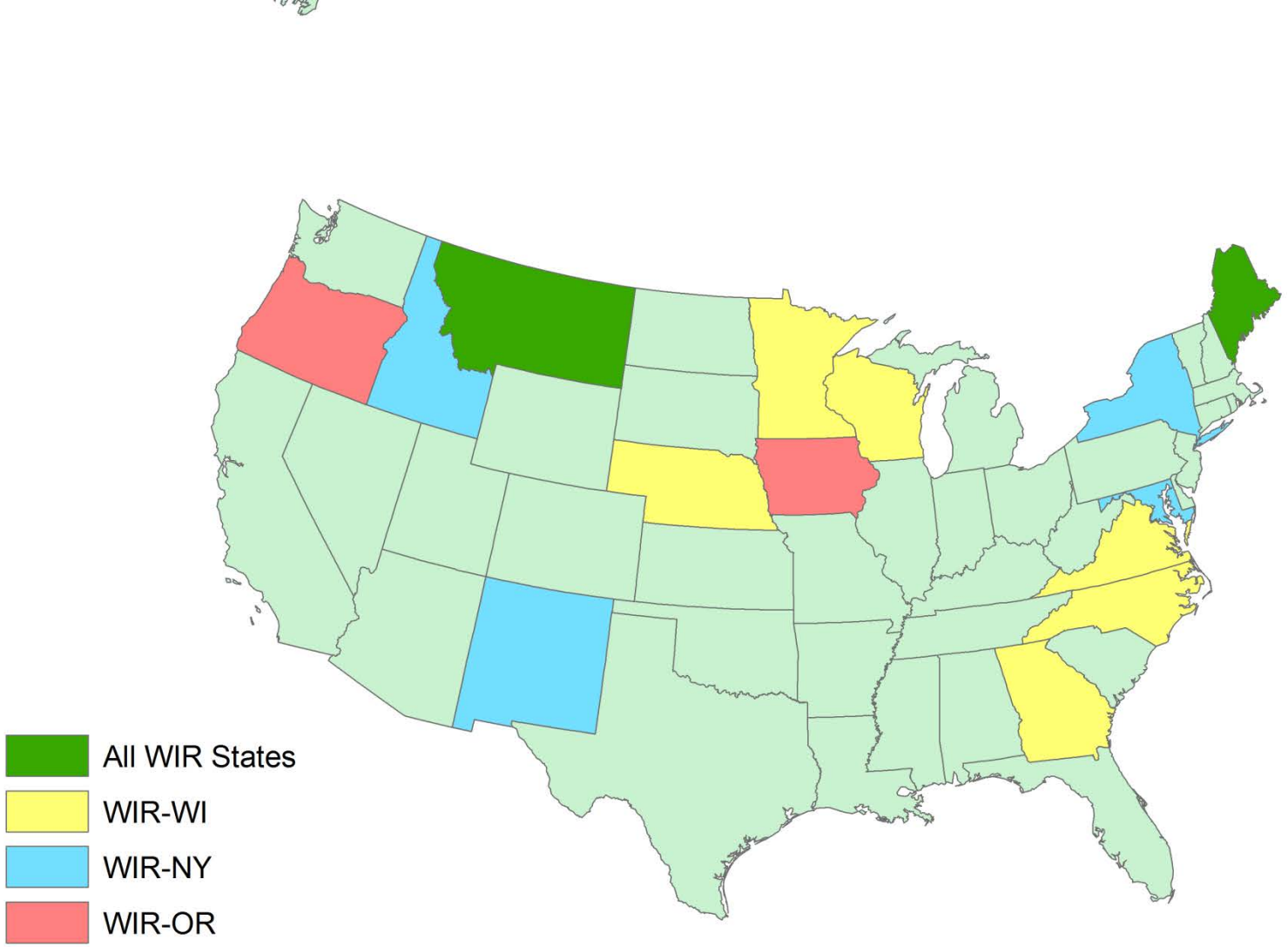


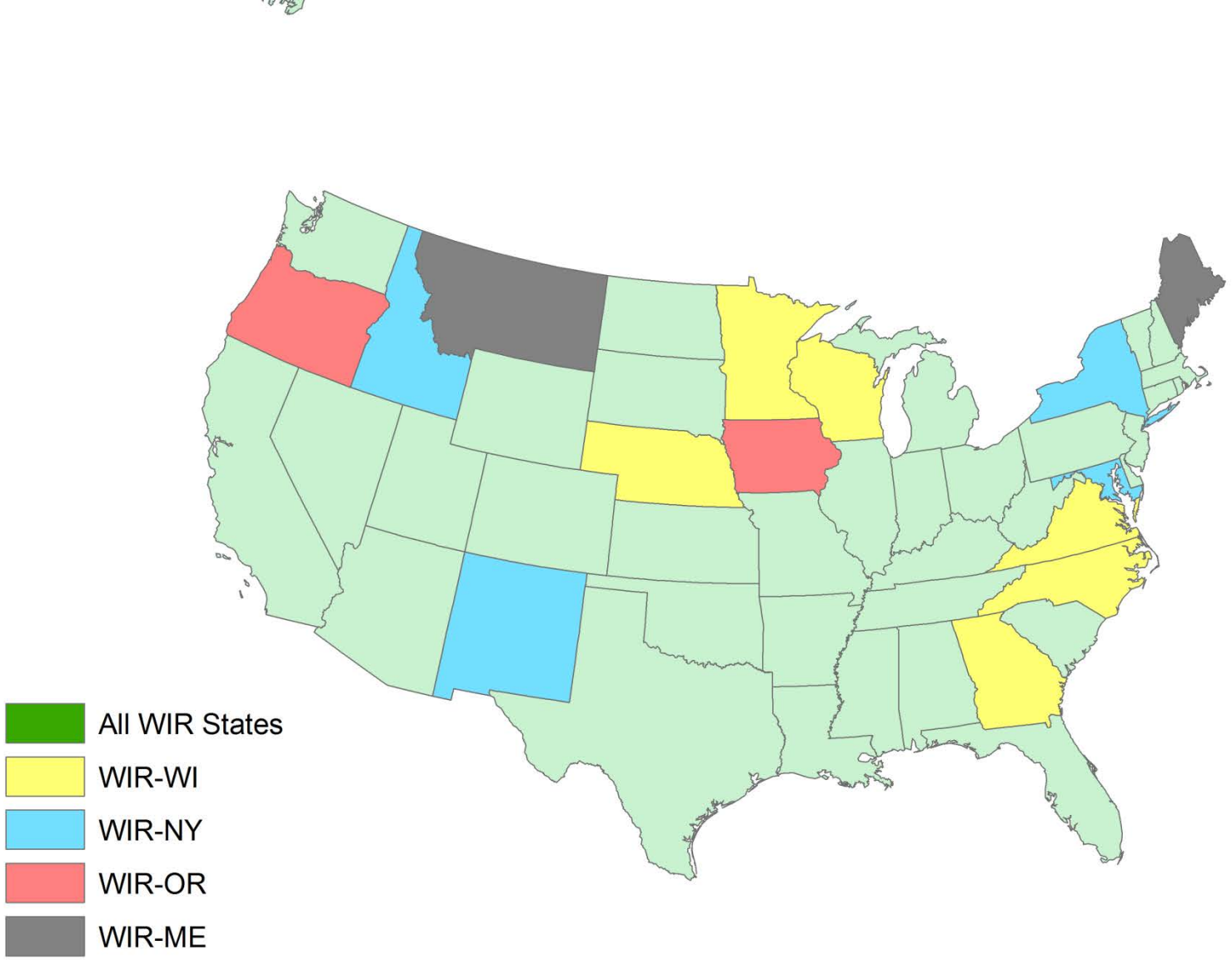
WIR: Variations on a Theme


All WIR States


All WIR States
WIR-WI


All WIR States
WIR-WI
WIR-NY


All WIR States
WIR-WI
WIR-NY
WIR-OR


All WIR States
WIR-WI
WIR-NY
WIR-OR
WIR-ME

Preliminary Observations

- Adoption of technical capabilities ≠ adoption of business practices
  - variable interpretation of appropriate use
  - may lead to inconsistencies
  - example: MOGE / patient status
- Jurisdictions adopting practices for one MIROW guide may not have done so for other guides

Preliminary Observations

- MIROW guides may be operationalized at different levels of IIS control, e.g.:
  - DQA process administered centrally
  - MOGE flags used at practice level by many providers

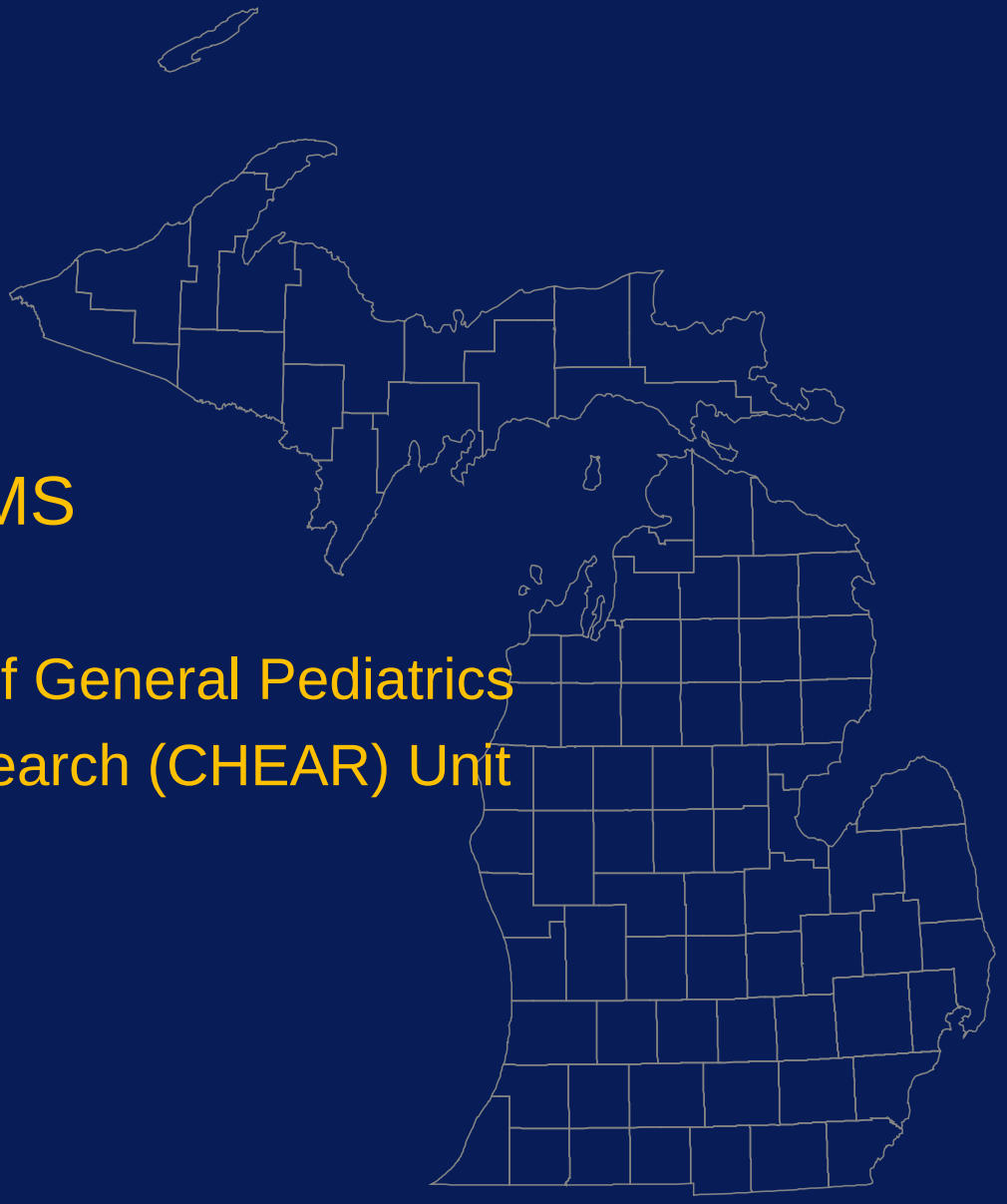
Preliminary Observations

- MIROW guides represent consensus-based best practices
- These are not necessarily the universe of all good practice
- Important to understand guidelines that were considered, but not adopted

Next Steps

- Continue interviews with IIS programs
  - schedule an appointment!
- Select subset for additional in-depth follow up
  - diversity of vendors
  - year implemented
  - MIROW steering committee participation
- Summarize findings December 2013

Collaborators

- Anne Cowan, Sarah Clark
- AIRA
- MIROW Steering Committee
- IIS program staff

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