

Informed Data Sharing

Kentucky All Schedule Prescription Electronic Reporting (KASPER)
2019 Harold Rogers Prescription Drug Monitoring Program National Meeting
June 26, 2019

Why do PDMPs share data?

“To help ensure a more complete picture of a patient’s controlled substance usage for appropriate treatment, and because doctor shoppers and drug diverters are not constrained by state borders.”

Dave Hopkins

Background

- Kentucky began data sharing in 2011
- Since 2015, Kentucky has shared data with six of our seven border states
- Kentucky currently shares with 12 states which represents the resident states of 86% of the unique persons coming to KY for controlled substances

The Challenges of Data Sharing

- Background
 - Prescription Monitoring Information eXchange Standards Organization (PMIX)
 - Kentucky All Schedule Prescription Electronic Reporting System (KASPER)
- Differences in statute and regulation
- Patient matching
- Impetus for interstate querying

Data Sharing Methodology Concerns

- The success of our current interstate data sharing methodology is questionable
- The significant increase in queries from integrated partners and states sharing data may further decrease the efficacy
 - Potential increase in false positives and false negatives
- Characteristics of substance use disorder and diversion are not considered in PDMP data requests, in state or intra state
- There are currently no evidence based practices in place

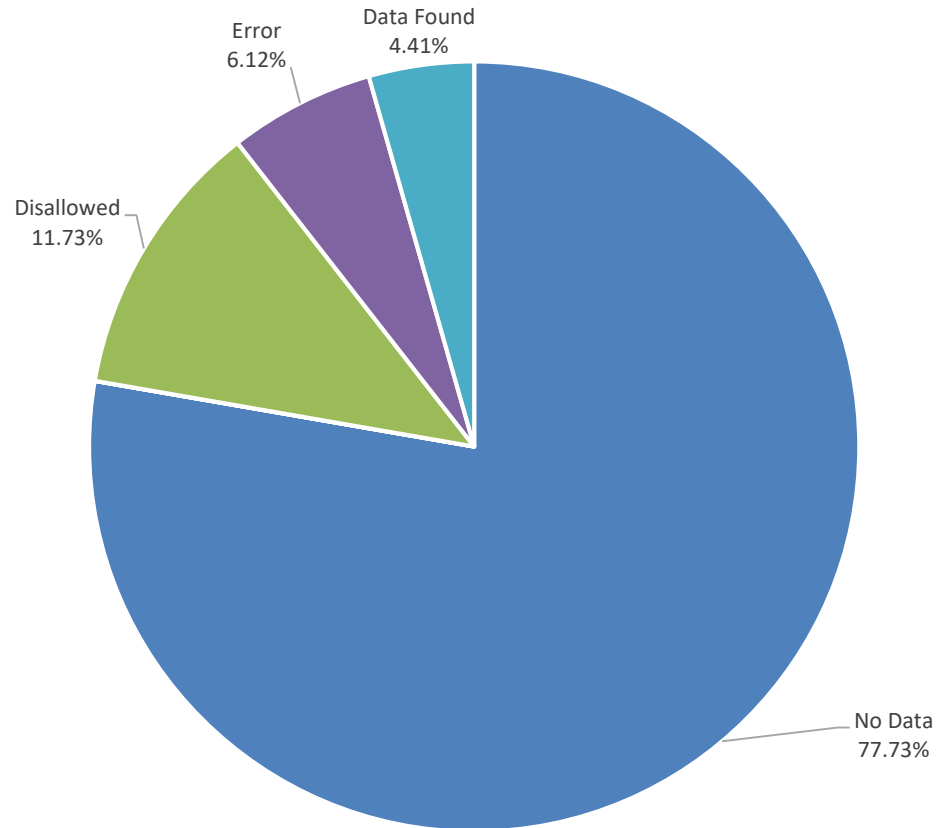
Interstate Requests Processed by KASPER

For the period January 1, 2017 through December 31st 2018:

- KASPER processed a total 23.7 million requests for information (intrastate and interstate)
- 11.7 million of those requests were processed in the KASPER portal
 - 19.4% of KASPER portal requests included a request for another state's data

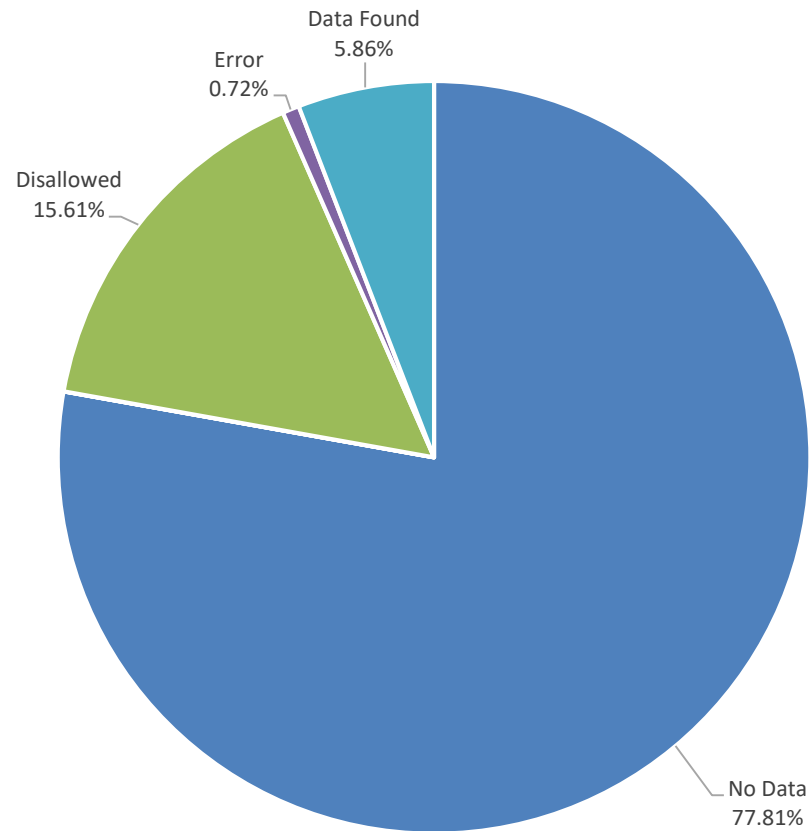
How Successful Are Our Requests?

Portal Requests to Kentucky from Other States: 2017– 2018



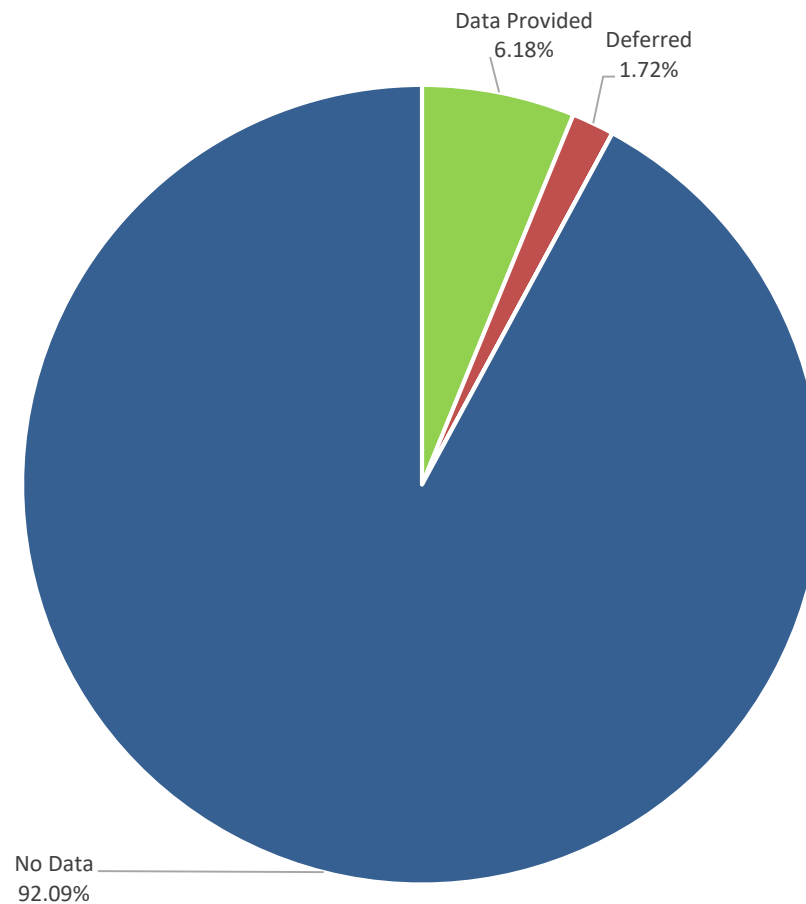
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Portal Requests to Kentucky from Border States: 2017– 2018



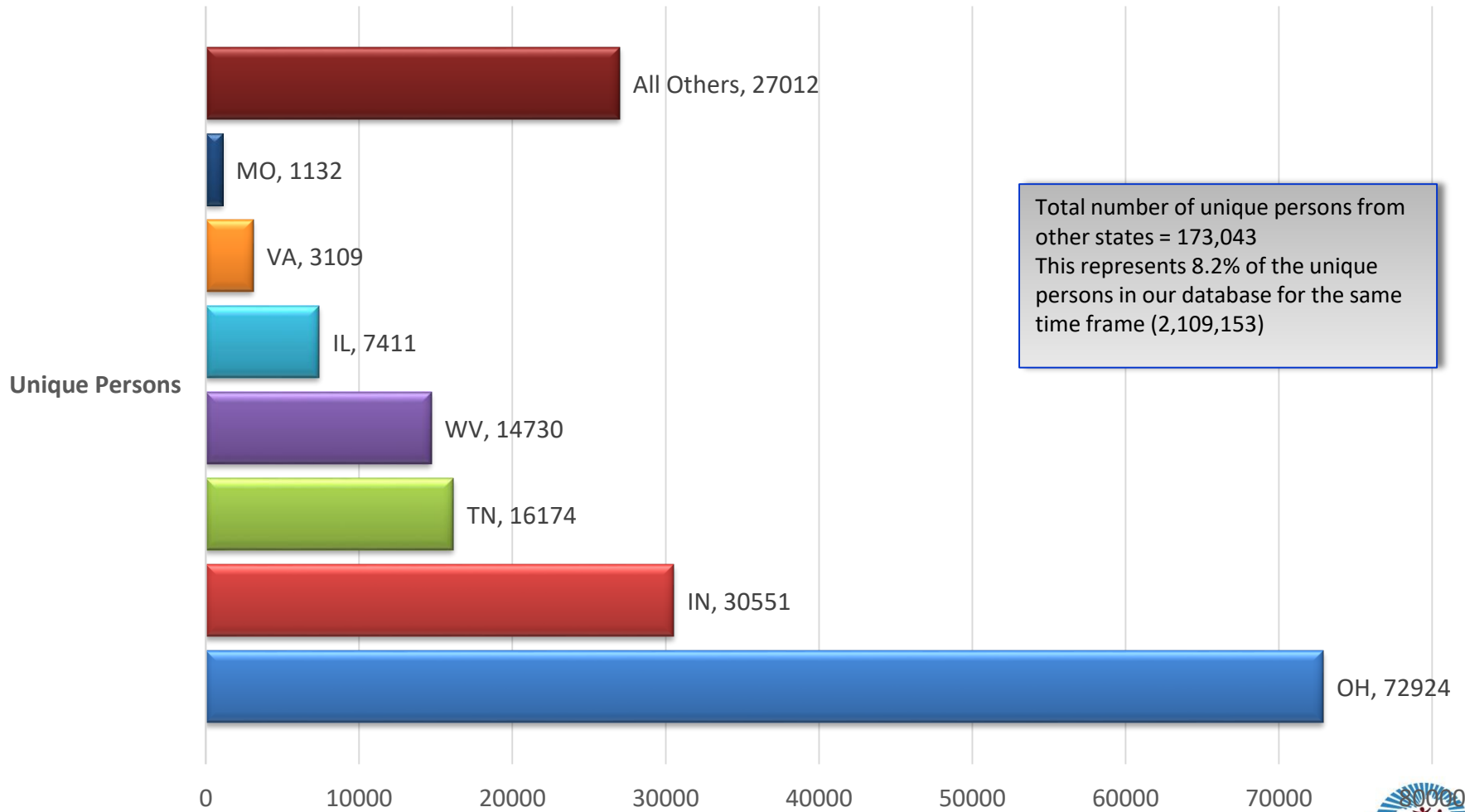
How Successful Are Other States' Requests to KASPER?

Other States' Requests to Kentucky: 2017– 2018

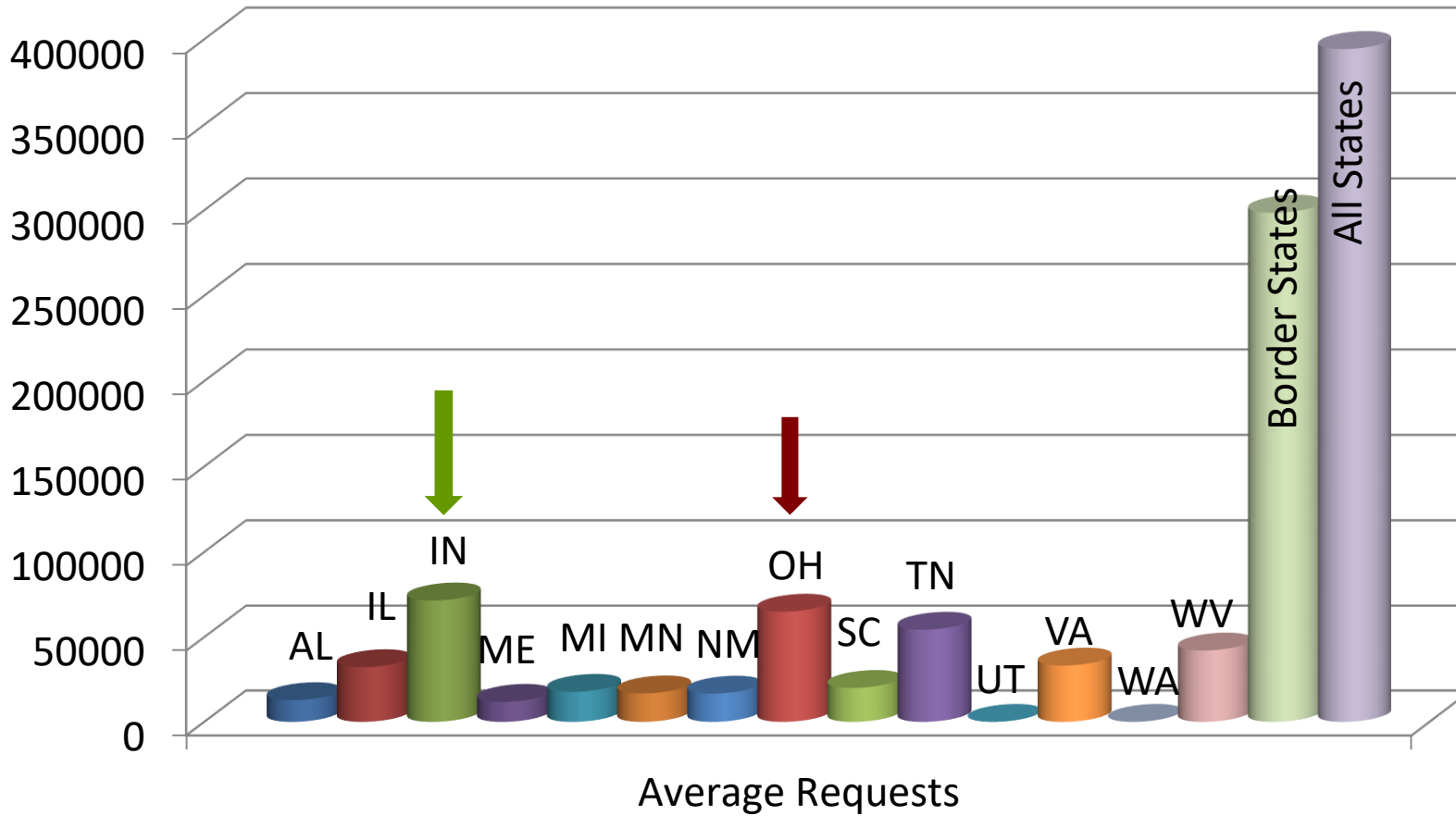


Out of State Residents with CS Dispenses

2017-2018

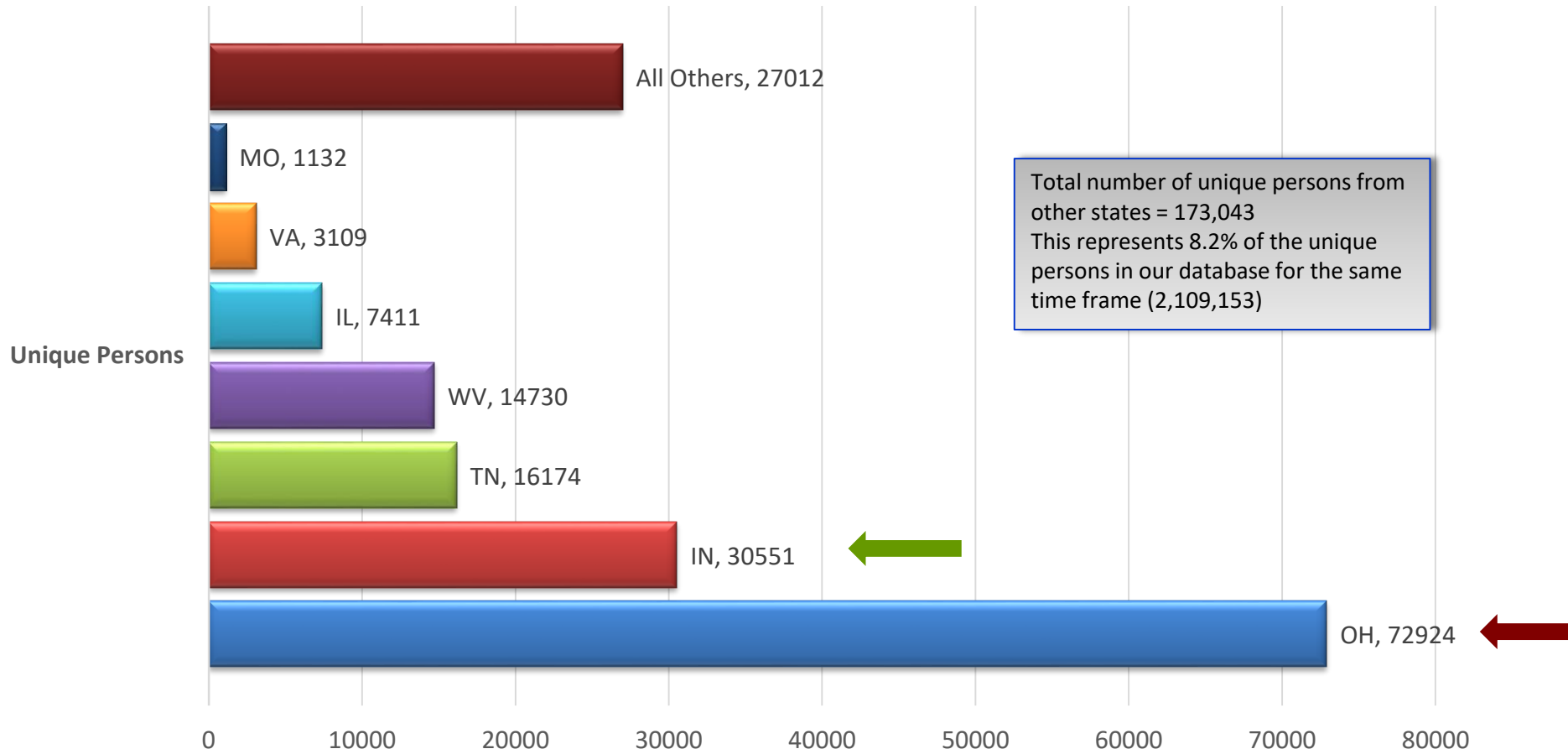


Average Interstate Requests per Month

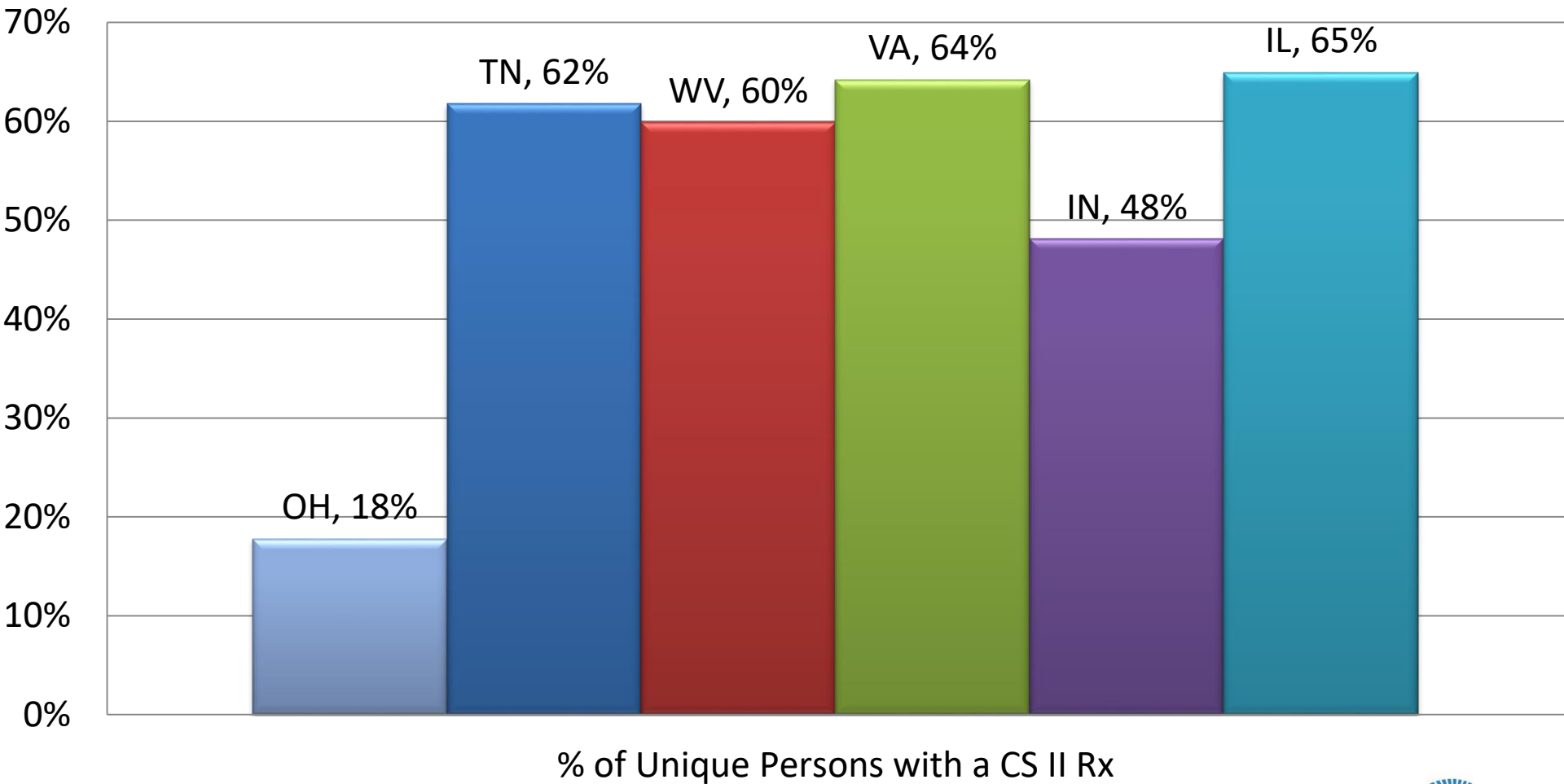


Out of State Residents with CS Dispenses

2017-2018



Border State Residents with CSII Dispenses



The Problem

- Querying other states
 - Requests in our portal are based on the individual user's selection
 - Integrated requests are based on a corporate decision
- Currently, composition of a patient request is based on what the originating state requires and not what the processing state utilizes
- Regular reports of false positives and false negatives

Project Goals

Conduct an analysis of the cross border transactions between Kentucky and a couple of border states as well as a couple of non-border states to determine the nature and pattern of the transactions by:

- Examining patients with other state addresses who are dispensed controlled substances in the home state;
- Analyzing the prescriber location of these transaction;
- Developing metrics to identify risk behavior patterns for diversion and substance use disorder in these populations;
- Mapping pharmacy, prescriber and patient zip codes considered to have risky behavior;
- Piloting in Kentucky a process to use this data to inform interstate data sharing at the end user level through modifications to the KASPER system, and
- Measuring the impact of informed sharing on CS II dispensing patterns in these states.

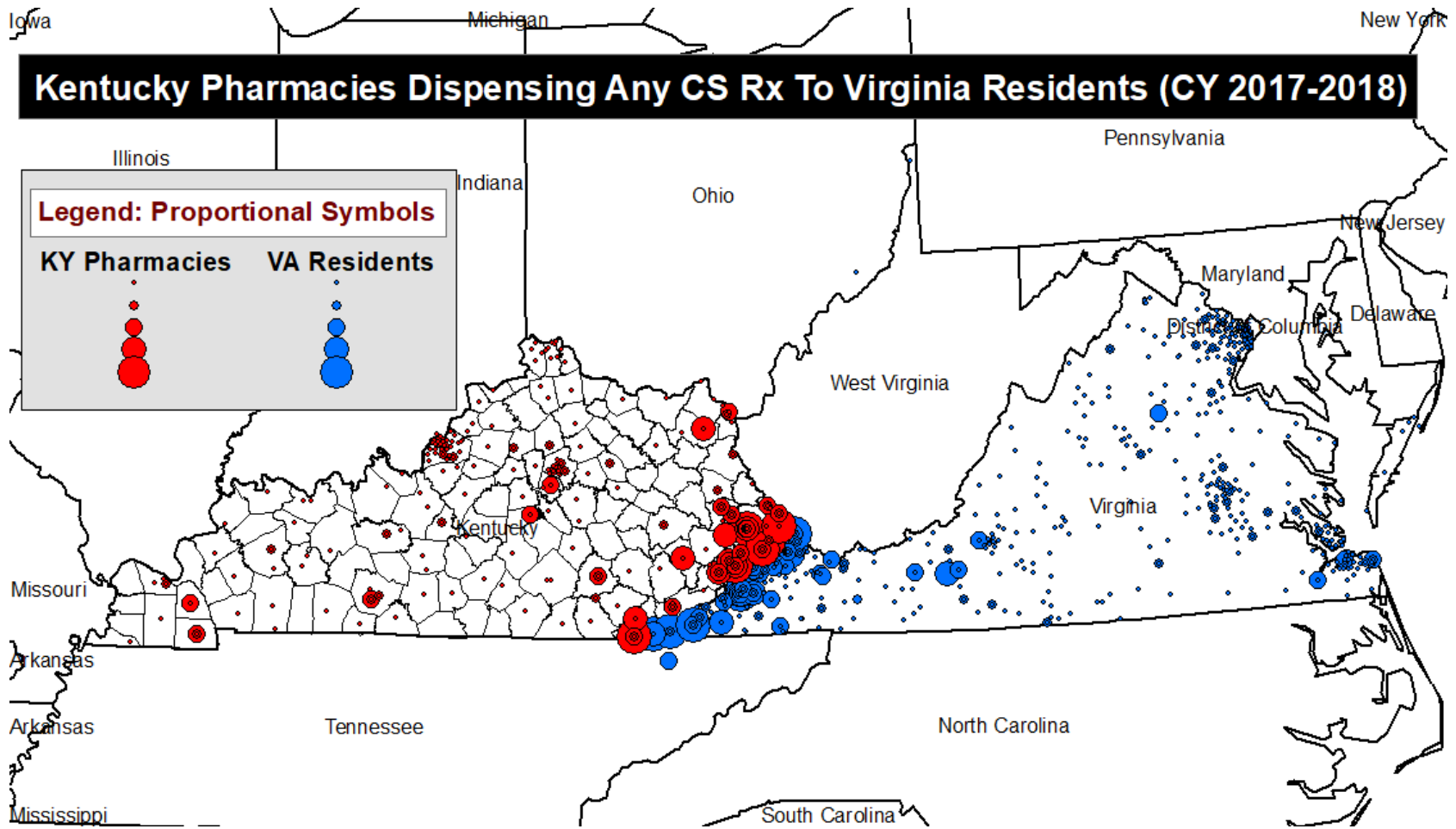
Future Phase:

- Comparing and contrasting the results of this analysis with a reverse analysis in the other partner states
- *This project will document the analysis process and system modification in order to share with other states at no cost.*

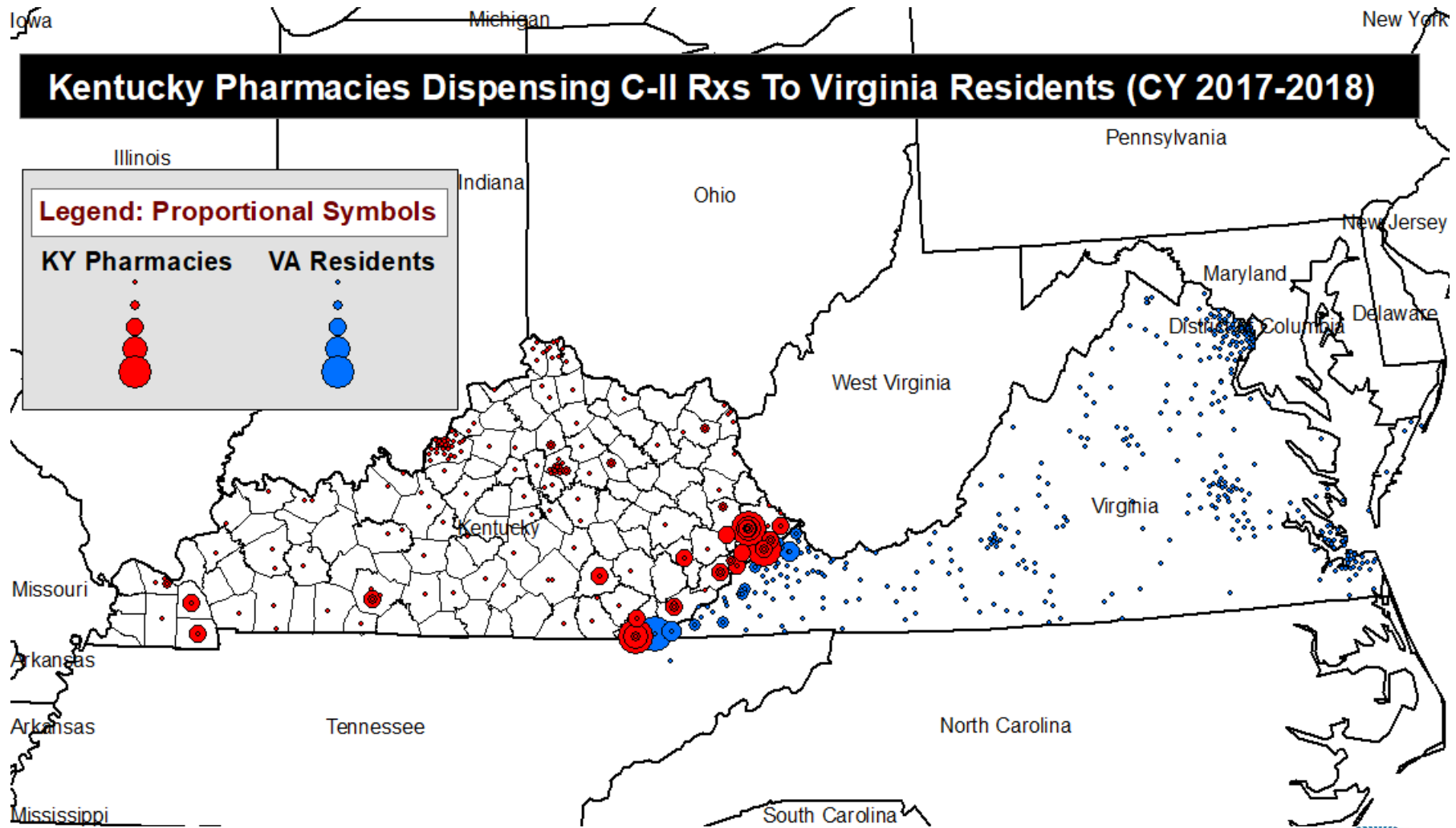
VA/KY Transactions: A Deeper Look

- Examined further by:
 - Mapping addresses of VA Unique Persons receiving CS II at a KY Pharmacy
 - Mapping KY Pharmacies Dispensing to VA Unique Persons

VA to KY Cross Border Dispenses



VA to KY Cross Border Dispenses



Comparison of Unique Persons to Requests

State	# of Unique Persons	# of Requests from KY	# of Responses with Data
State A	102	400,310	69 (*49 unique persons)
State B	259	403,761	12 (*9 unique persons)
State C	16,174	1,305,218	41,984 (*16,553 unique persons)

Intended Outcomes

- Reduce burden on requesters
- Increase the probability of a patient match
- Encourage interstate requests based on trends in interstate travel for controlled substances
- Ensure our data sharing results in informing healthcare providers

Thank you!

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