

Powering a Healthier Kentucky

KHIE and CSS Partnership for a Sustainable HIE for the Commonwealth

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Kentucky Health Information Exchange (KHIE)

- » Kentucky's designated public health reporting authority
- » Trusted source for aggregated patient health data from providers across the Commonwealth
- » Access to demographics, labs, radiology, immunizations, care summaries, ADT data, behavioral health, EMS, and corrections data
- » Connected to all acute care hospitals, most ambulatory sites, and state agencies
- » Our mission is to enable better care coordination and health outcomes statewide
- » **KHIE is a critical network relied on daily**



Partnership with CRISP Shared Services

- » CSS's modern and flexible technology platform will enable KHIE to expand services and support broader data integration—when and where it's needed
- » New capabilities include public health, social needs, and behavioral health data, along with advanced Medicaid claims and population health analytics
- » Ensures **KHIE's long-term sustainability, while allowing it to remain a free service for participants across the Commonwealth**
- » KHIE can power more robust, meaningful use cases and care coordination tools—now and into the future



CSS Leadership



Craig Behm
Chief Executive Officer



Marc Rabner, M.D
Chief Medical Officer



Nichole Sweeney, J.D
Chief Privacy Officer

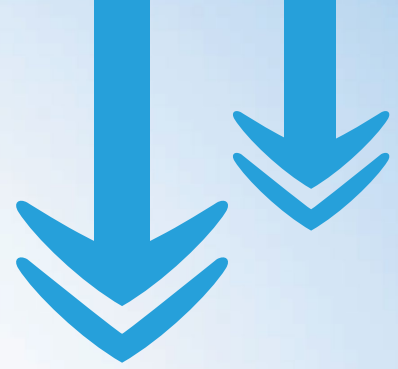


IN PARTNERSHIP WITH



CRISP Shared Services:

An Introduction to Who We Are



What We Do and What We Believe

» CRISP Shared Services is an innovative nonprofit sharing technology and expert strategy to empower localized healthcare ecosystems.



Sustainable

Modern infrastructure can be interoperable and efficient – which is why our approach focuses on optimizing existing technologies and cross-sector resources.



Collaborative

Solutions are impactful when developed by those that rely on them – which is why we co-create answers directly with the users of our tools.



Autonomous

Stakeholders know the unique needs of their communities - which is why we preserve the autonomy and individuality of our affiliates and partners.

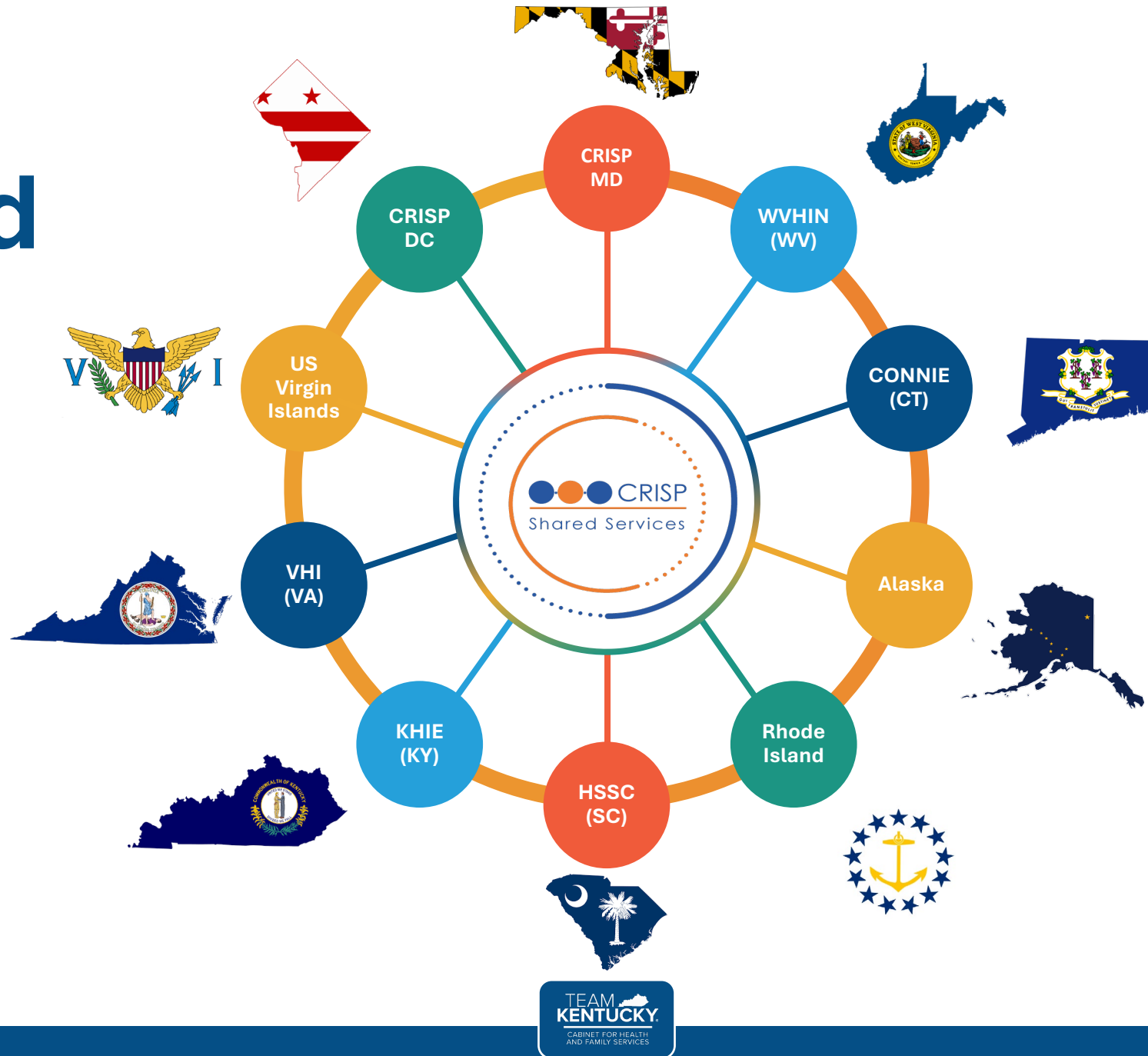


Flexible

Improving the utility of data while reducing total costs is possible – which is why we leverage reusable technologies and share economic incentives.



Areas Served



Core Technology, Tools & Services

Scalable HIE Infrastructure

- » • **Master Patient Index:** Ensure data accuracy with seamlessly complete and reconciled patient records.
- **FHIR/USCDI API Integration Layer:** Utilize efficient data interoperability and advanced patient matching and parsing.
- **Data Lake:** Master and link data sets from multiple sources for curated reporting efforts using cloud-based infrastructure.

Localized Data Management & Analytics

- » • **Integration Engine:** Modernized and standardized data exchange capabilities and compatibility.
- **Public Health Registry Infrastructure:** Enhance public health efforts with centralized infrastructure and data.
- **Social Determinants of Health Integration Layer and Tools:** Gain insight into social health needs and streamlined tools for screening and closed-loop referrals.

Patient & Provider-Centric Tools

- » • **Advanced Consent Management:** Give patients advanced consent options and control over their data.
- **CSS Event Notification Delivery (CEND):** Provide critical and timely notifications to care providers for improved patient outcomes.
- **Portal and InContext App Integration:** Ensure flexible and dependable access to vital patient information through portal access and seamless EHR integration.



Point-of-Care Tools: InContext

» Demographics

- Next of Kin

» Medication Management

- PDMP
- Medications from CCDs

» Clinical Data

- Encounters
- Clinical Notes
- Labs
- Radiology Reports
- CCDs
 - Problems, Allergies, Immunizations, Vitals*, Procedures*

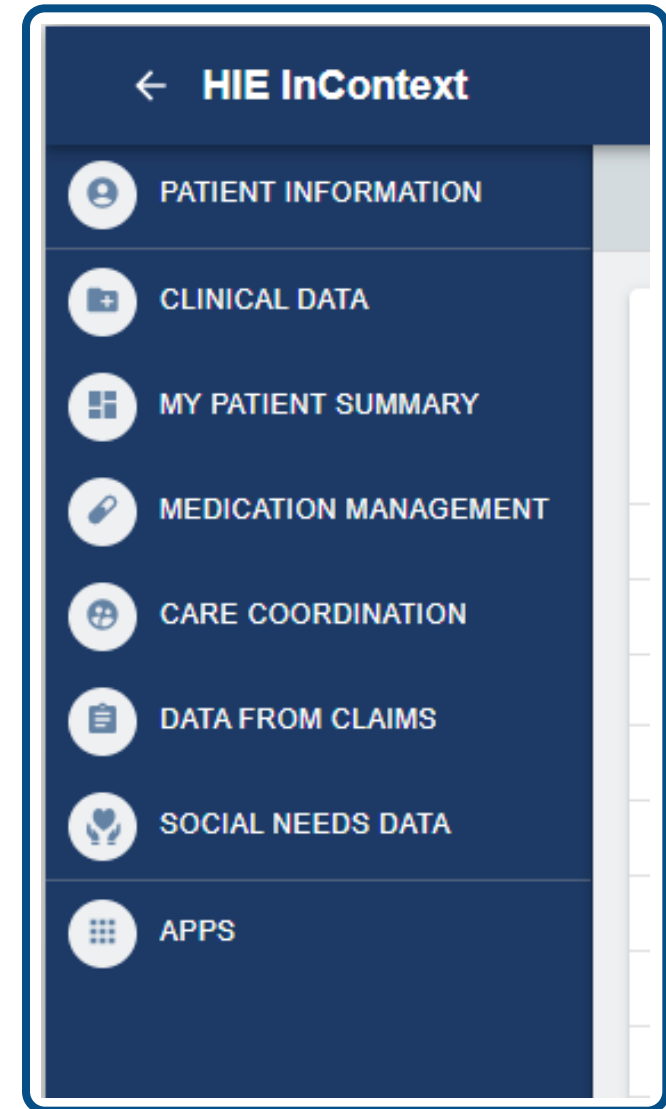
» Care Coordination

- Care Team

» Claims

» Social Needs

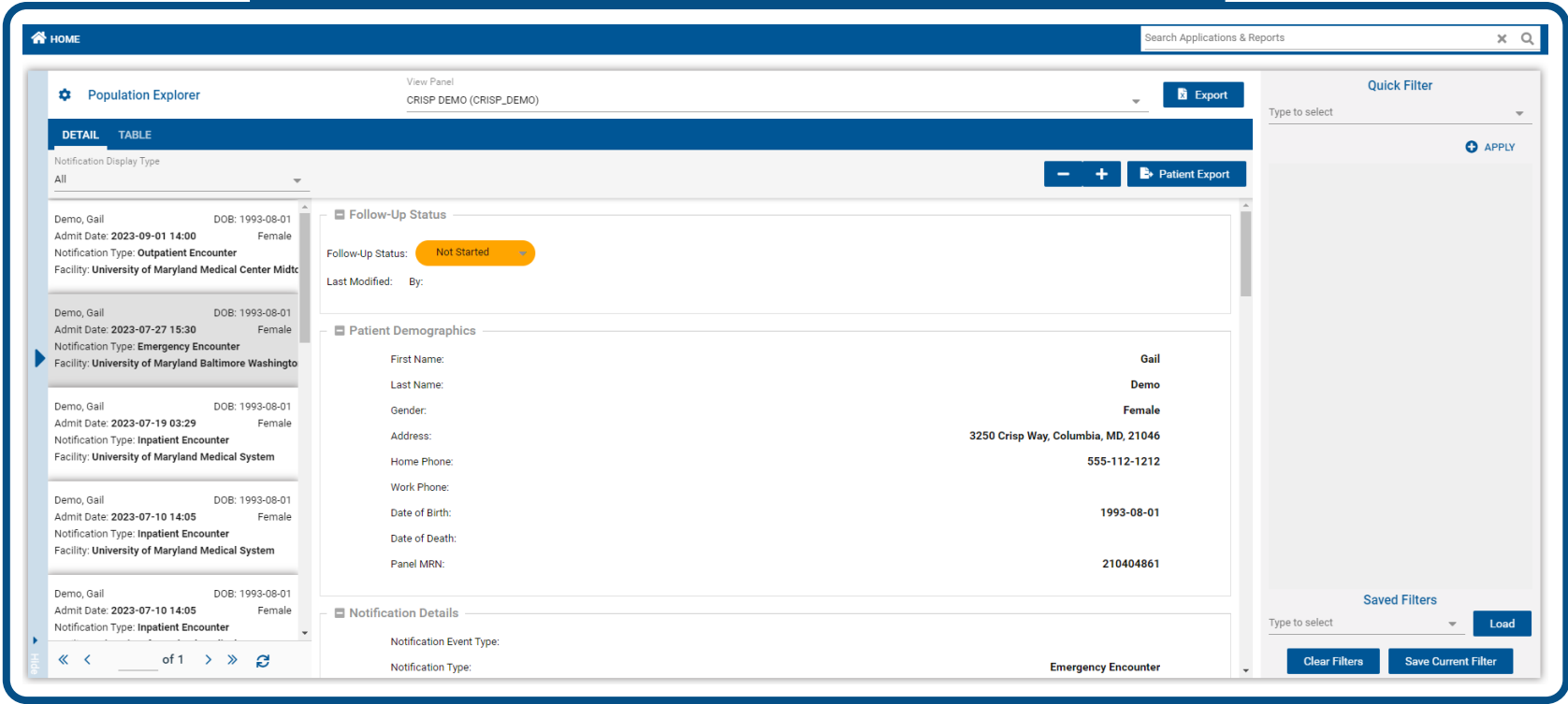
» My Patient Summary



Care Coordination: CSS Event Notification Delivery Service (CEND)

- » **Real-time alerts** to appropriate end users based on treatment and care management relationships
- » **Interactive user interface** within CRISP Portal or messages delivered into EHRs
- » **Subscription information** (a patient's Care Team) is displayed at the point of care through Portal or In-Context

Population Explorer



The screenshot displays the 'Population Explorer' interface. It features a top navigation bar with a 'HOME' button and a search bar. Below the navigation bar, there's a 'View Panel' dropdown set to 'CRISP DEMO (CRISP_DEMO)' and an 'Export' button. The main content area is divided into several sections: a 'DETAIL' tab, a 'Notification Display Type' dropdown set to 'All', a list of patient records, a 'Follow-Up Status' section showing 'Not Started', a 'Patient Demographics' section with fields like First Name, Last Name, Gender, Address, Home Phone, Work Phone, Date of Birth, Date of Death, and Panel MRN, and a 'Notification Details' section showing 'Notification Event Type' and 'Notification Type'. On the right side, there's a 'Quick Filter' section with a 'Type to select' dropdown and an 'APPLY' button, and a 'Saved Filters' section with a 'Type to select' dropdown, a 'Load' button, and 'Clear Filters' and 'Save Current Filter' buttons.



Solutions in Action

Overdose Prevention

» Point-of-Care Intervention

- InWorkflow (InContext) embeds HIE overdose history directly into providers' ordering workflows
- 35 unique patients, 100 overdose alerts, and 20 Narcan orders placed in first 2 months—without switching systems

Care Coordination & Surveillance

- CEND real-time alerts to local health departments
- State-level population health reports for trend monitoring and targeted outreach

Maternal Health

» Integrated Care Delivery

- InContext delivers up-to-date prenatal and delivery data across care teams at the point of care

Postpartum Follow-Up & Monitoring

- Population Explorer (CEND front end) surfaces patients overdue for follow-up or at high risk
- State-level reports track severe maternal morbidity and guide programmatic response



Empowering Trust & Access: CSS's Consent Tool



What Is the CSS Consent Tool?

- » A powerful, flexible solution enabling affirmative patient consent for sensitive data sharing
- » Supports SUD (42 CFR Part 2), mental health, reproductive health, and other protected/sensitive data types
- » Embedded in both the CRISP HIE Portal and InContext App (EHR-integrated) for seamless clinical workflows
- » **In development:** Capability for participants to send/receive consented Part 2 and other sensitive data *in bulk* from other providers and facilities where consent has been obtained outside of the Consent Tool



Real-World Innovation: Maryland Reproductive Health Consent

- » CSS deployed enhanced consent controls for reproductive health data
 - Fulfilling first-in-the-nation legislation (MD SB786, passed in 2023)
- » *Patient data and information regarding any legal reproductive health services or care provided in MD must be filtered out of records unless a patient consents to their data being shared*
- » **In development:** Provider search capability where a patient can choose specific care teams to share their sensitive data with



Governance: Empowering Localized Infrastructure

- » You understand your communities best. We empower the infrastructure for KHIE participants to care for their populations – the Commonwealth way
- » Everything from use-cases to clinical data exchange and consent are controlled and governed by KHIE and its stakeholders
- » Delivering real-world services that show the efficiency and effectiveness of linking disparate data through scalable technology and collaborative governance

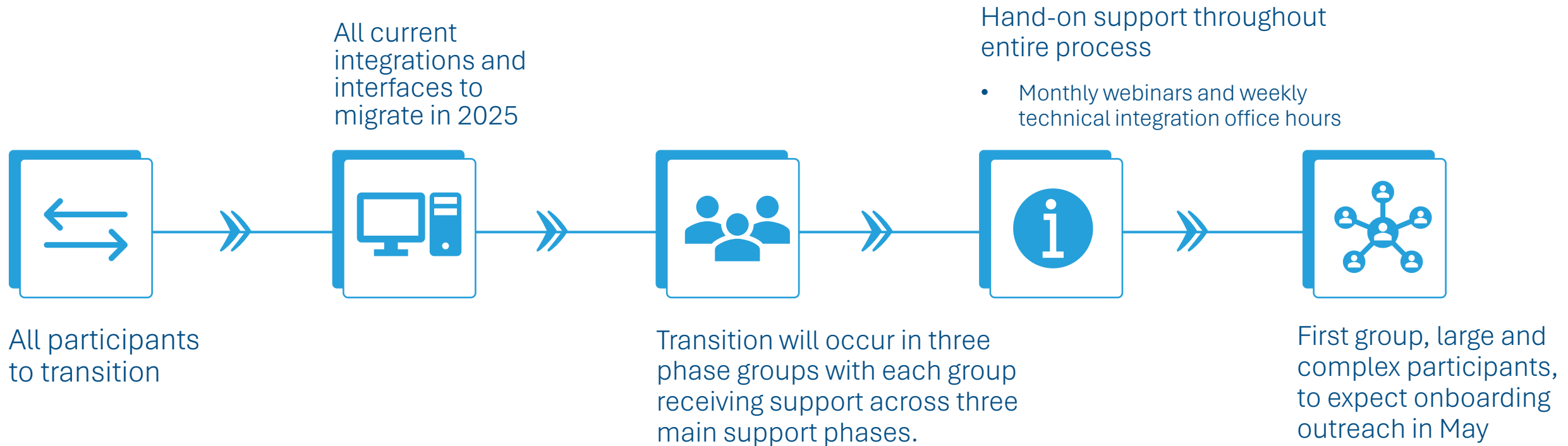


Why This Matters for Kentucky

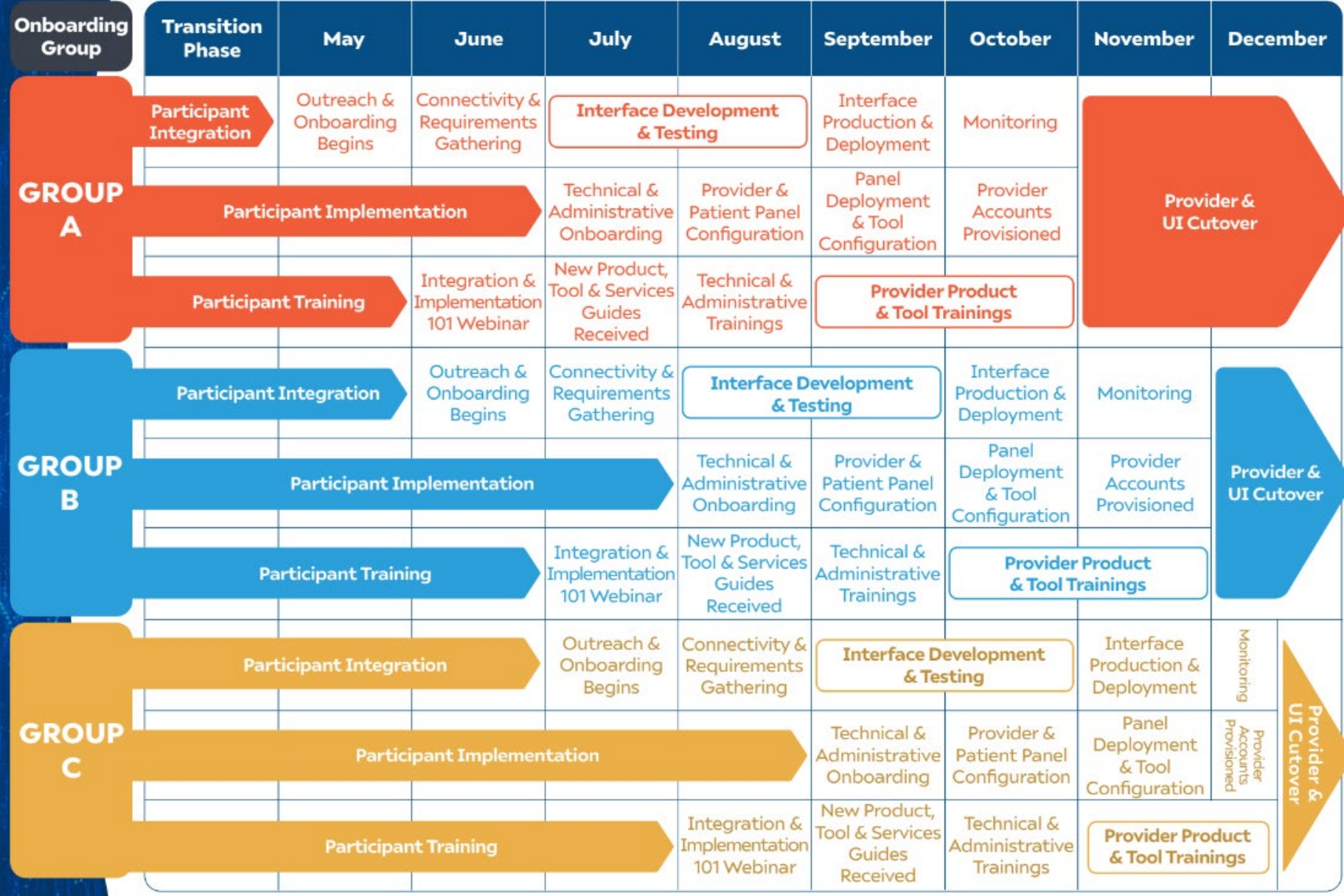
- » Enables KHIE to expand consent-based access to sensitive data
- » Gives providers peace of mind for maintain compliance in fast-evolving, complex regulatory landscape
- » Improves coordination and outcomes for patients in SUD, maternal health, behavioral health, and more
- » Substantially reduces administrative burden and operational workflow challenges for providers
- » Centers patient choice and safety while still enabling data flow for care coordination and continuity of care



What to Expect



Transition to CSS: KHIE Participant Onboarding Timeline





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Questions?

Visit our website: www.khie.ky.gov

Email us: khie@ky.gov

