



# AI IN PUBLIC HEALTH



## AI Roadmap for Kansas Local Health Departments

### Purpose of the AI Roadmap for KS LHDs:

The purpose of this AI Roadmap is to harness the power of artificial intelligence to transform public health services across Kansas. By integrating AI technologies into our local health departments (LHDs), we aim to streamline operations, enhance data-driven decision-making, and improve health outcomes for our communities. This initiative is not just about keeping pace with technological advancements; it is about proactively leveraging these tools to address public health challenges more effectively and efficiently.

### Scope of the AI Roadmap for KS LHDs:

- **Operational Efficiency:** Implementing AI solutions to automate routine administrative tasks, thus freeing up valuable human resources for more critical, decision-centric work.
- **Data Collection and Analysis:** Utilizing AI to enhance the collection, processing, and analysis of health data, enabling LHDs to respond more swiftly and accurately to public health threats.
- **Service Delivery:** Improving the quality and accessibility of public health services through AI-driven platforms and tools that facilitate better patient interaction and community outreach.
- **Research and Development:** Encouraging the use of AI in public health research to develop innovative solutions tailored to the unique needs and challenges of Kansas's diverse population.

### Goals

- *Goal #1: Streamline operational and administrative tasks across LHDs using AI-driven tools to achieve measurable time savings and error reduction.*
- *Goal #2: Utilize AI to significantly improve the accuracy and speed of disease surveillance and enable real-time data analysis for agile public health decision-making.*
- *Goal #3: Develop AI-enhanced tools to refine public health services, including predictive models for health trend analysis and AI support for social referral systems.*
- *Goal #4: Promote partnerships and research initiatives with tech companies and academic institutions to pioneer AI solutions tailored to Kansas's public health needs.*
- *Goal #5: Leveraging AI to enhance the work of public health to address health equity.*





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## Implementation Plan for 2023-2026

### 1. Assessment of Current Capabilities & AI Landscape

- Conduct an LHD AI infrastructure review to identify current use of and needs with Aid to Local and Informatics Assessments in regards to AI tools and training.
- Continued research on current and emerging ethical considerations for AI.
- Collection and assessment of AI and AI-related policies passed at the state, county, local, and organizational levels.
- Collection of examples of AI use by LHDs /cities/counties nationally

### 2. Training and Development

- Plan introductory training sessions for staff on AI technologies and data handling.
- Set up a continuous learning platform for ongoing AI education (KPHC).

### 3. Technology Acquisition and Development

- Explore opportunities for customized AI tools tailored to specific LHD needs.

### 4. Pilot Testing and Evaluation

- Select pilot LHDs to implement AI practices and AI tools.
- Define metrics for evaluating AI tools' effectiveness.
- Create an AI-Power User group to support and align with the work of the KALHD Informatics Subcommittee and KDHE DMI work.

### 5. Full-scale Implementation

- Develop a timeline for rolling out successful AI applications across all LHDs (strive goal).

## Governance and Oversight

- **Establish an AI Governance Committee:** Include diverse stakeholders such as public health officials, IT experts, and community representatives.
- **Establish Ethical Guidelines:** Develop a set of comprehensive ethical guidelines specifically tailored for AI applications in public health (including principles on transparency, accountability, and fairness).
- **Policy Development:** Draft policies for AI use that ensure ethical standards and protect data privacy.

## Monitoring and Continuous Improvement

- **Regular Reviews:** Schedule regular assessments of AI impacts on public health outcomes, operational efficiency, and staff satisfaction
- **Feedback Mechanism:** Establish channels for feedback from staff and the public to continually refine AI tools and approaches.

