

# **RESEARCH INFORMATICS STRATEGY:**

## **Master Research Affiliation Agreement**

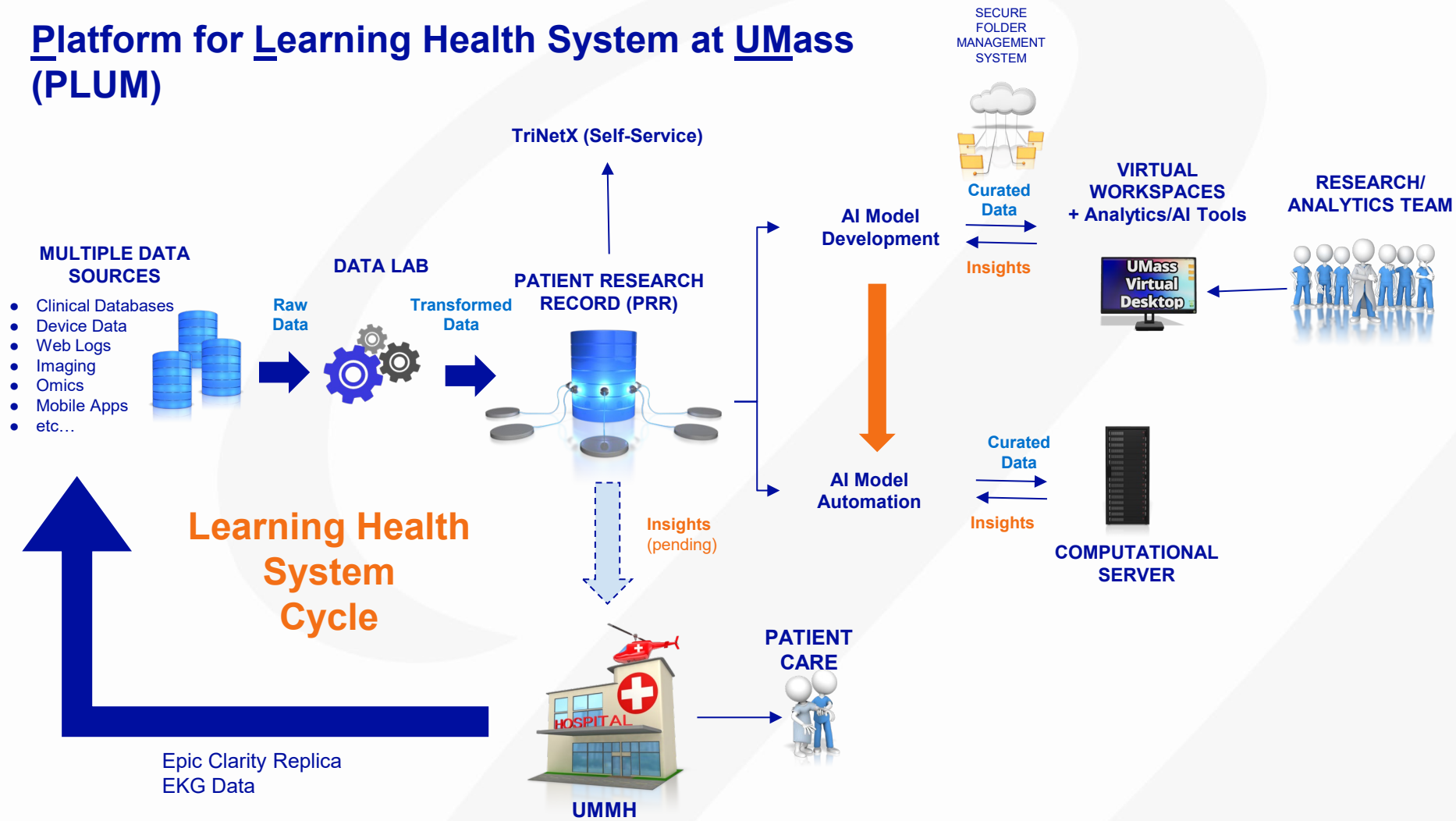
### **Between UMass Chan and Lahey**

Executive Council  
September 19th, 2024

# Master Research Affiliation Agreement Objectives

- 1. Enhance Medical Education and Research**  
Advance health and wellness through leading education, research, healthcare delivery, and public service.
- 1. Create a Regional Campus**  
Establish a UMass Chan regional campus with a focus on population health and interprofessional education.
- 1. Develop a Collaborative Research Program**  
Expand research addressing healthcare needs and support research training for faculty, students, and staff.
- 1. Establish a Lahey Institute for Healthcare Delivery Science**  
Foster collaborative research in healthcare delivery science that follows the Learning Health System Model.
- 5. Integrate Lahey into UMass Chan's Clinical Translational Science Award Program**  
Provide access to cores, services, pilot project funding, and career development programs.
- 6. Promote Medical Student Research**  
Develop research opportunities and infrastructure for UMass Chan-Lahey students.
- 7. Joint Recruitment of Research Faculty**  
Recruit faculty to enhance research capabilities.
- 8. Establish a Joint Data Governance Model**  
Ensure proper data governance for collaborative research.
- 9. Support Financial Commitments for Research Initiatives**  
Provide funding for faculty hires, research, and data management.

# Platform for Learning Health System at UMass (PLUM)



# UMass-Lahey Research Informatics Strategy

## 1. Lahey Research Informatics Core (LRIC)

- a. Establish a cloud-based environment for research data management and analytics, similar to PLUM.
- b. Integrate patient data from Lahey Health System institutions into the same UMass OMOP common data model.

## 2. Shared Data Storage and Governance

- a. Create a Shared Storage Space for collaborative research data.
- b. Governed by the Joint Data Governance Committee to ensure compliance, ethical standards, and proper data usage.
- c. Develop standardized data governance guidelines.

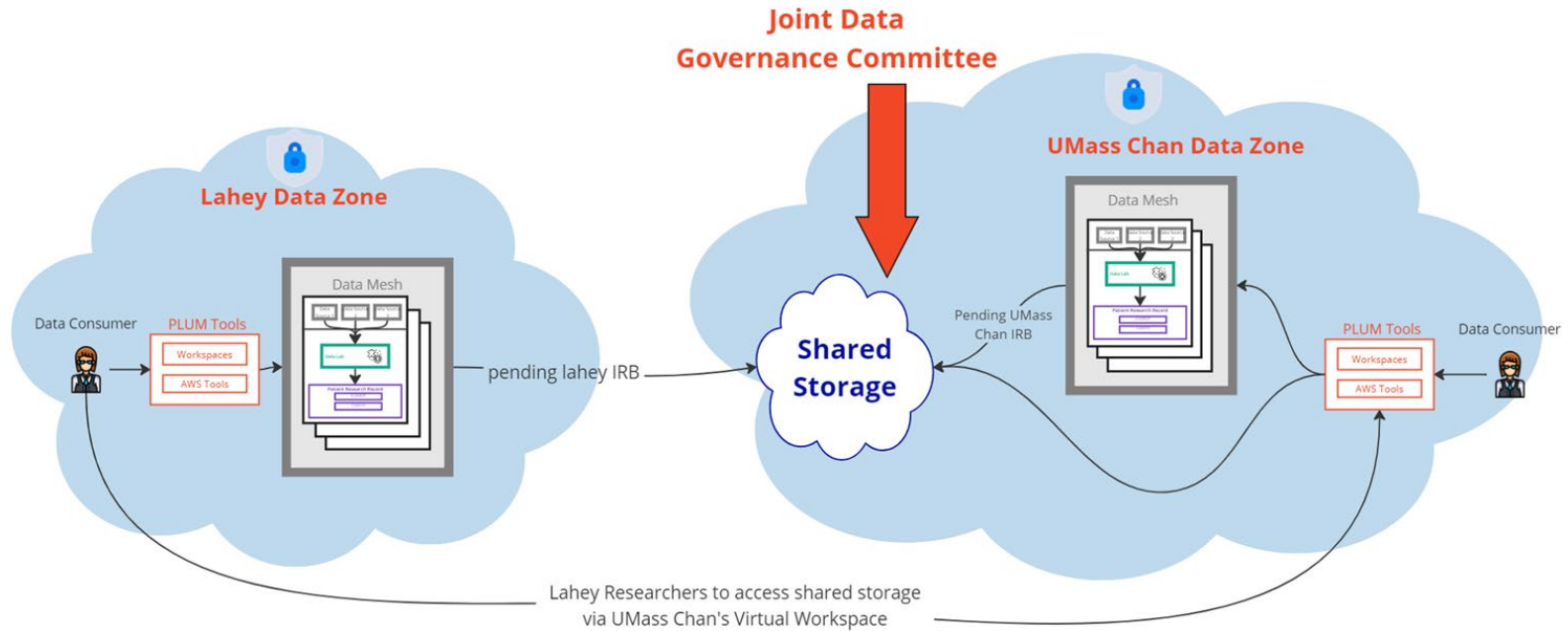
## 3. Privacy, Security, and Compliance Measures

- a. UMass Chan responsible for data security and compliance within the Shared Storage Space.
- b. Implement strict access controls and multi-factor authentication.
- c. Ensure all data management practices adhere to HIPAA and institutional policies.

## 4. Collaboration and Standard Setting

- a. Align Lahey and UMass Chan's informatics standards to support collaborative research.
- b. Set mutual standards for data management, security, and privacy.





# Joint Data Governance Committee



## Committee Composition and Function

- Comprises equal membership from UMass Chan and Lahey.
- Includes experts in informatics, legal, security, privacy, and compliance.
- Oversees the data governance framework and ensures proper data usage.

## Policy Development and Implementation

- Formulates and implements a Data Governance Policy.
- Identifies appropriate use and restrictions of data within the Shared Storage Space.
- Establishes clear guidelines for data duplication, transfer, and external sharing.

## Decision-Making Process and Reporting

- Manages data sharing requests and resources through a collaborative approach.
- Provides regular reporting to the leadership of both institutions to ensure accountability.

## Performance Evaluation and Improvement

- Uses key performance indicators to assess the effectiveness of data governance practices.
- Allows for ongoing refinement and adaptation of data governance policies.

# Summary

1. **Develop a cloud-based infrastructure** for research data management and analytics that would support a Learning Health System.
2. **Integrate patient data** from Lahey Health System into the UMass OMOP Common Data Model.
3. **Ensure proper data governance** with a Joint Data Governance Committee.
4. **Implement strict access controls** and compliance measures adhering to HIPAA and institutional policies.

Thank You

**Questions?**