



Beth Israel Deaconess Medical Center (BIDMC): An Implementation Plan for a Real-Time Data Processing System



Background

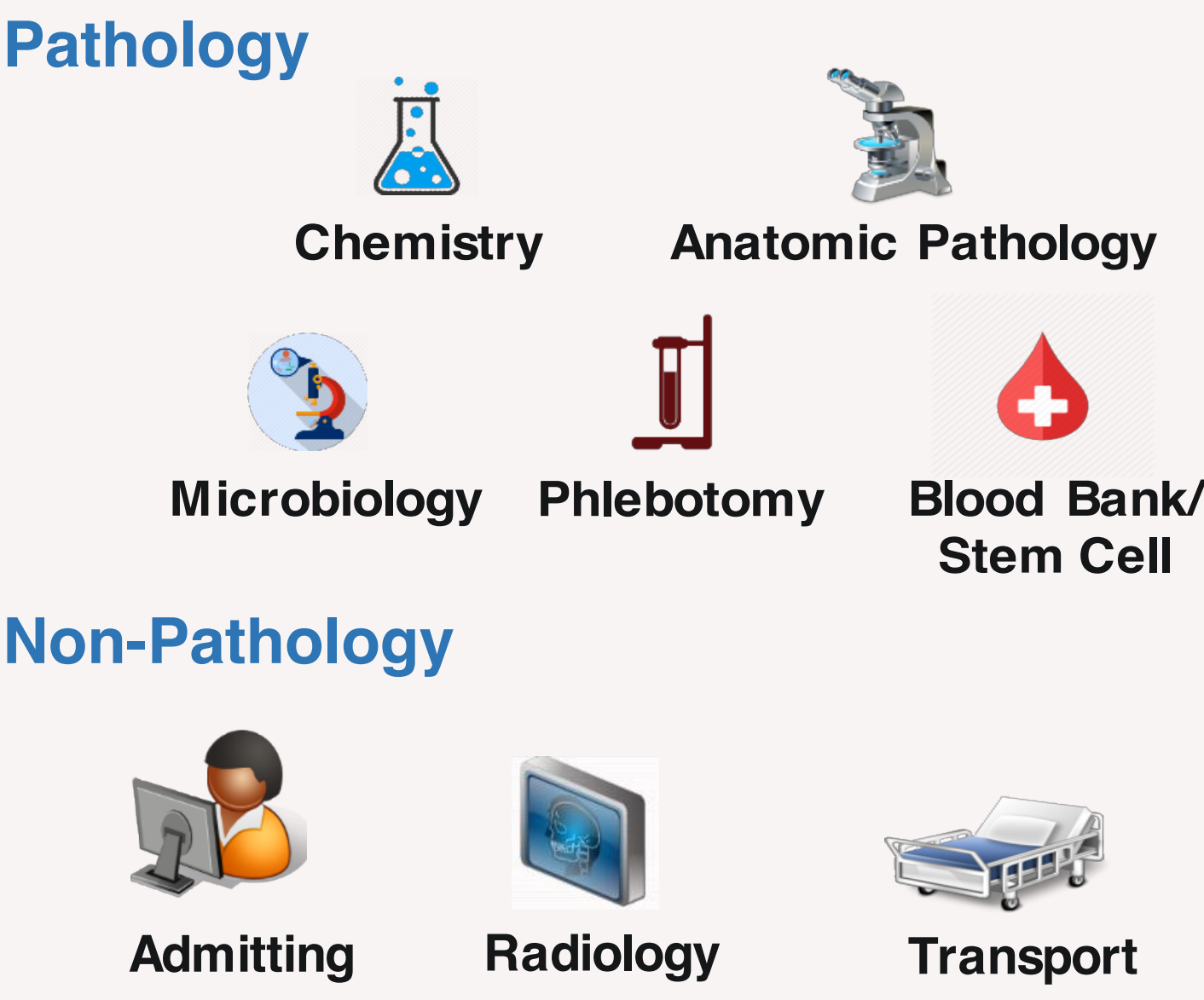


- BIDMC is one of the **leading hospitals in the U.S.** based on quality, safety, and access
- BIDMC has recently made an investment to **better enable real-time data availability**

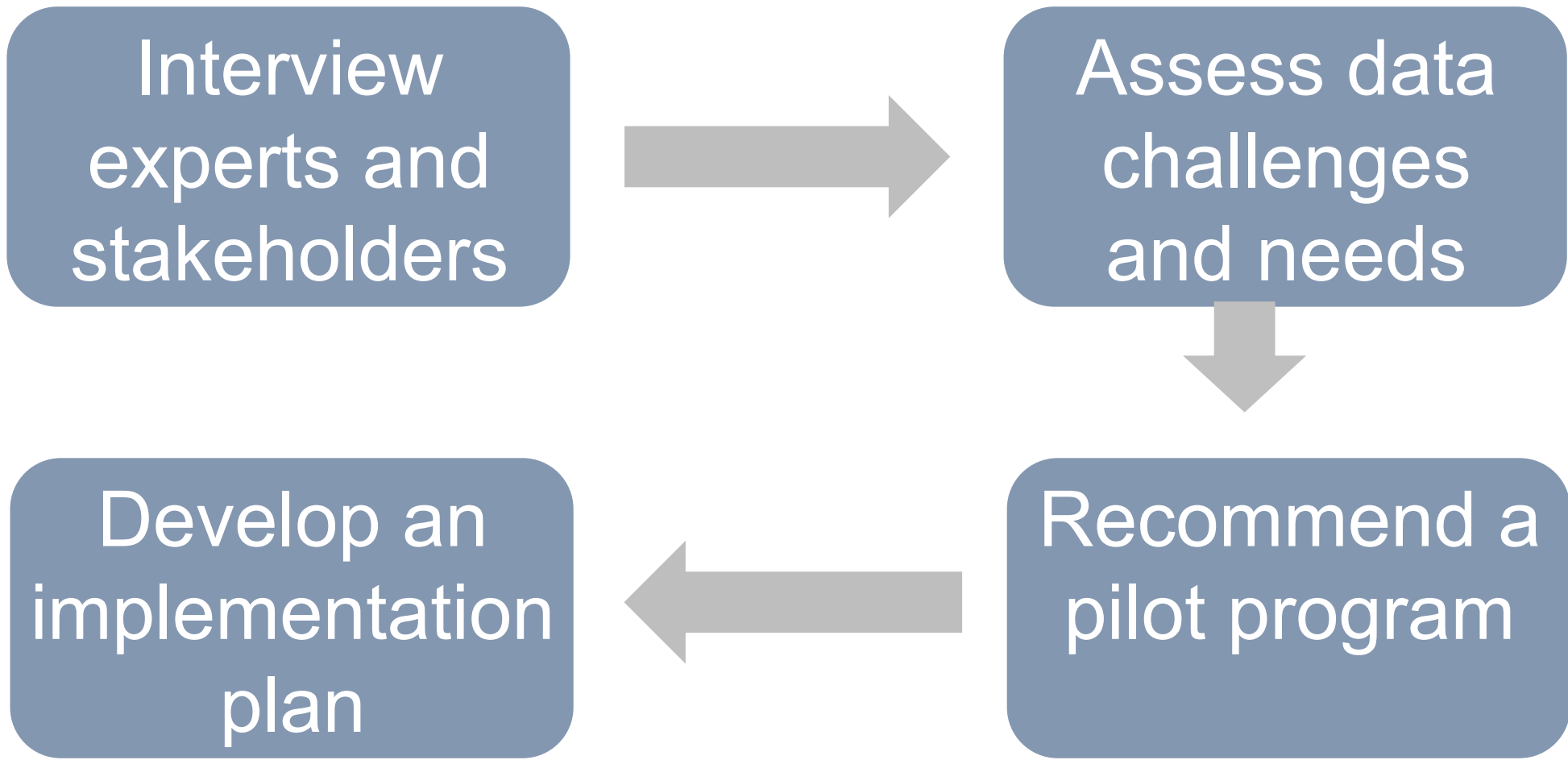
Problem Statement

- Identify **specific use cases for real-time data** that can improve operational efficiency and the patient experience
- **Evaluate operational processes** to identify the best candidate for a pilot, as well as the optimal implementation sequence

Scope



Methodology

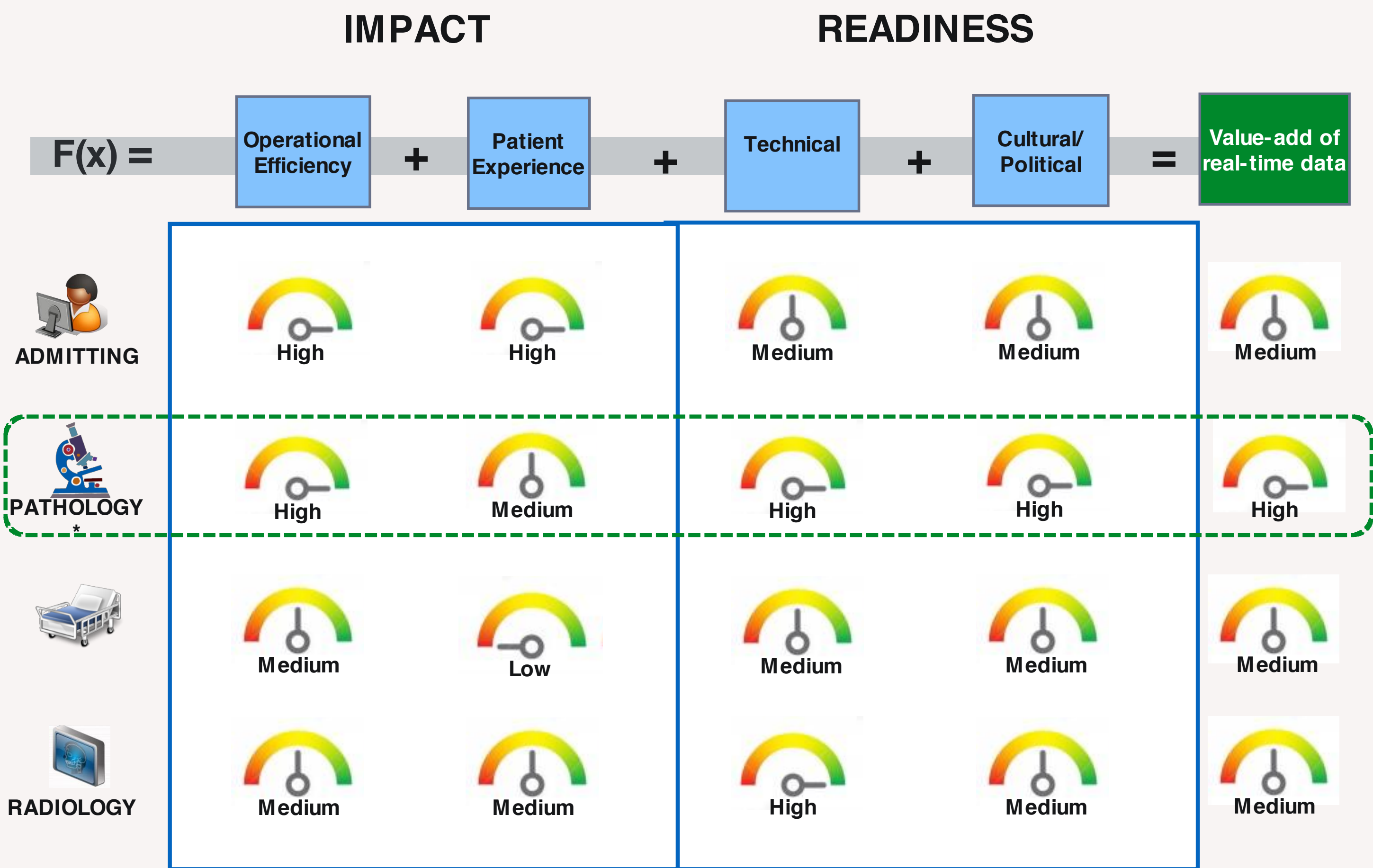


Analytical Framework

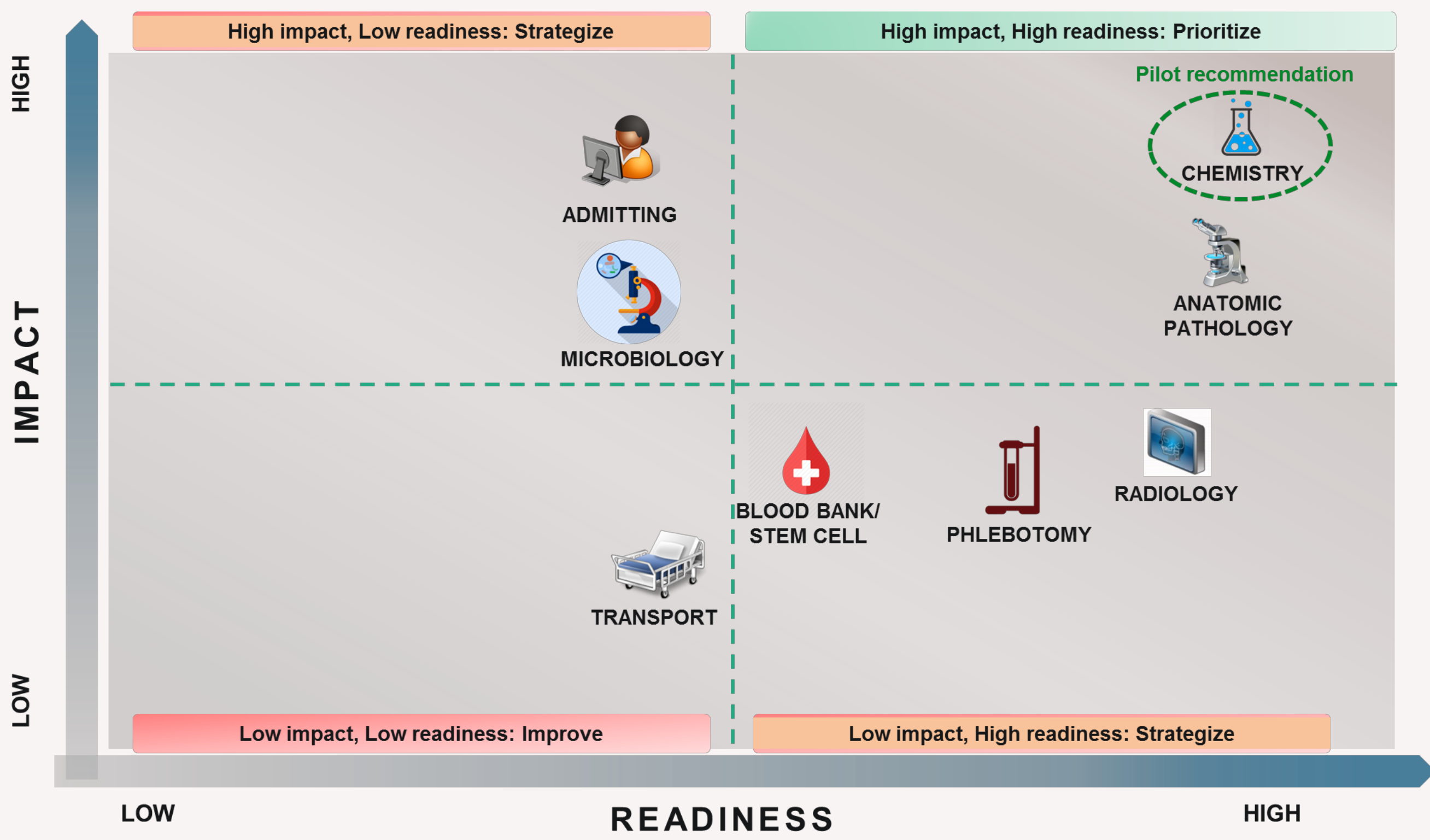


Analysis and Findings

Assessment of Impact and Readiness

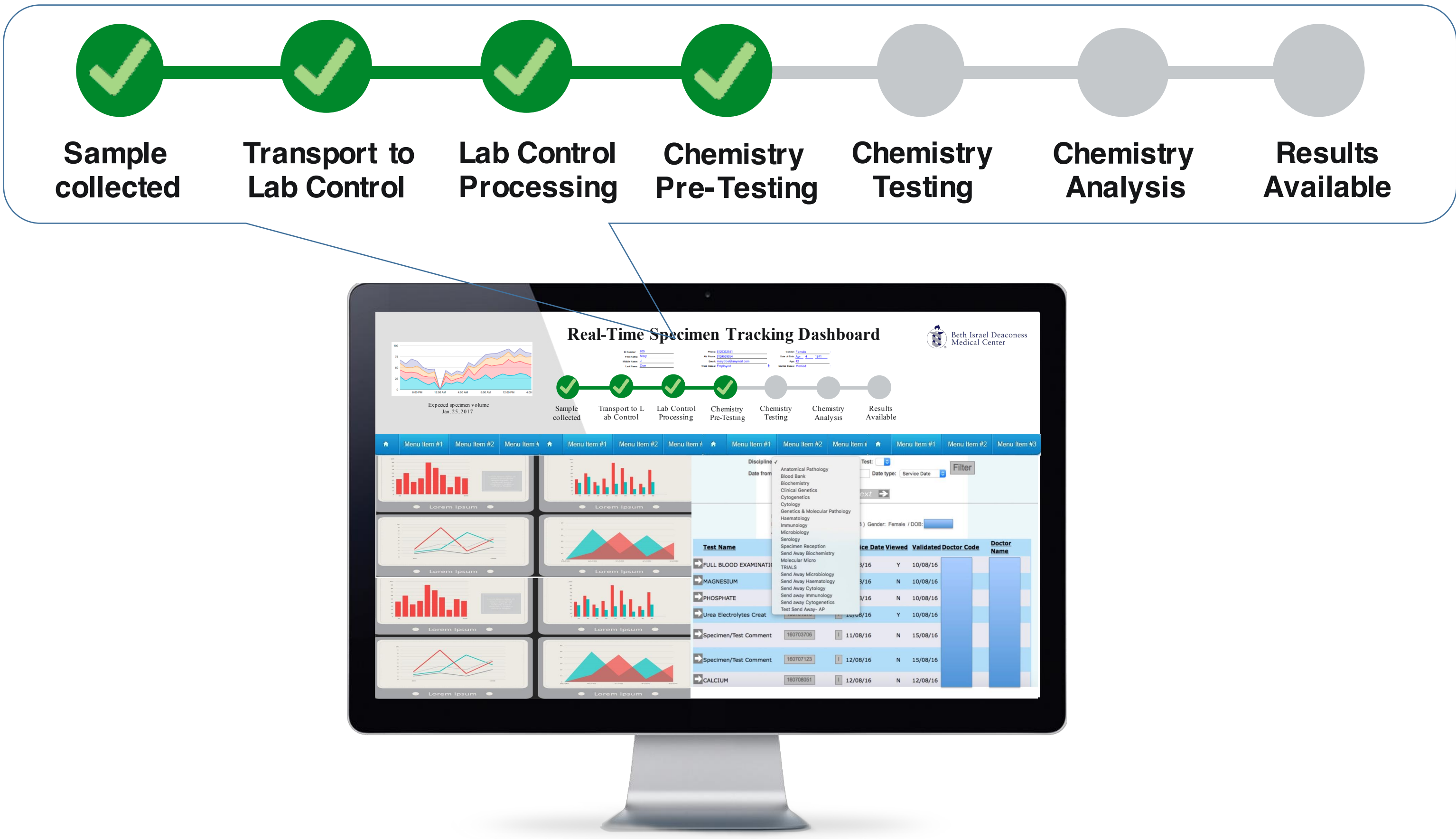


Pilot Recommendation: Chemistry

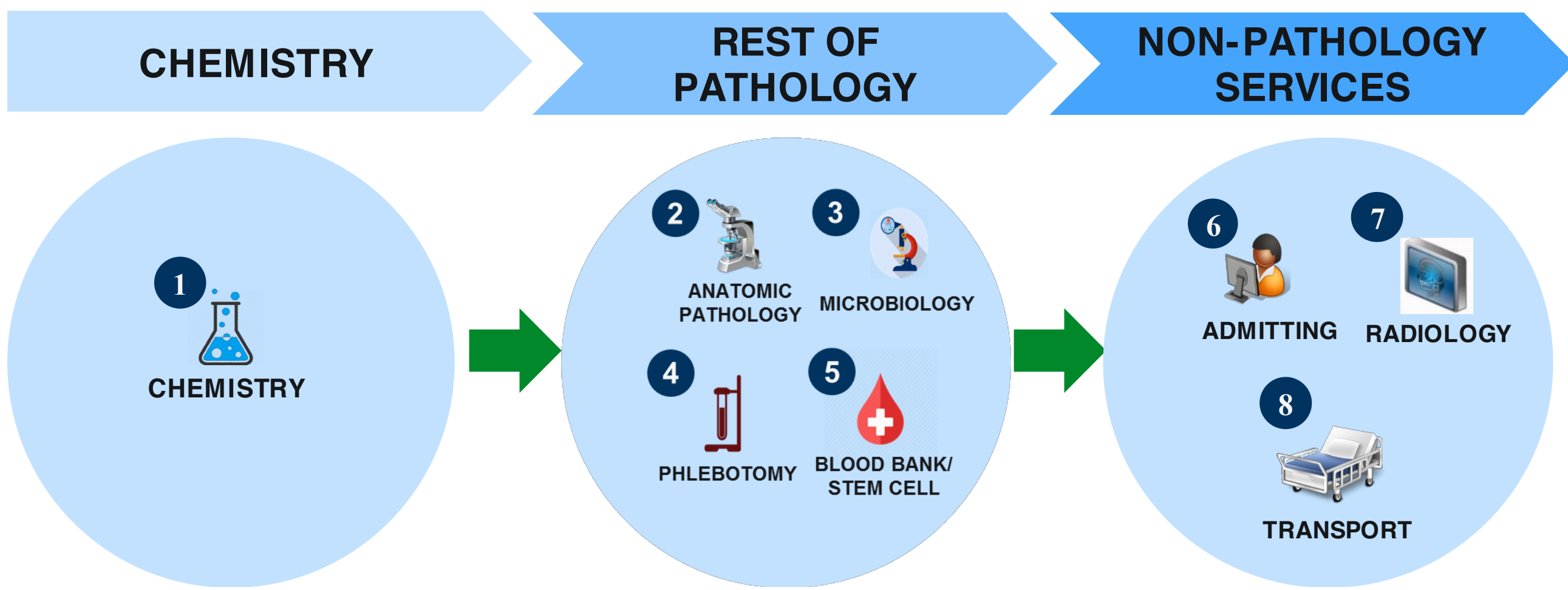


Implementation Plan

Proposed Real-time Dashboard Solution



Implementation Sequence



Benefits of Real-Time Data System

- Better resource allocation
- Greater visibility into bottlenecks and inefficiencies
- Faster work processes
- Improved communication and coordination
- Reduced patient wait times



Acknowledgement

Faculty Mentor: H-Lab 2016:
Anne Quaadgras Retsef Levi

Host Organization: BIDMC (Boston, MA)

Team



Eric Parks
EMBA 2017



Miguel Garrido
MBA 2017



Shijie Zhao
PhD 2018

