Save **Time**, ***Resources*** and Be **Successful**

Evaluating, Selecting and implementing

Laboratory Informatics

Leveraging Strategic Consultation for Informatics Modernization

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Introduction

Laboratory informatics systems selection support services is a need for public health laboratories on an infrequent basis. The typical laboratory software system is used for a decade or longer. This means when replacement is needed and financially possible, the expertise to guide the selection process is often not available internally. The purpose of this presentation is to present a method to leverage independent consultants to make strategic decisions on laboratory informatics.

Methods

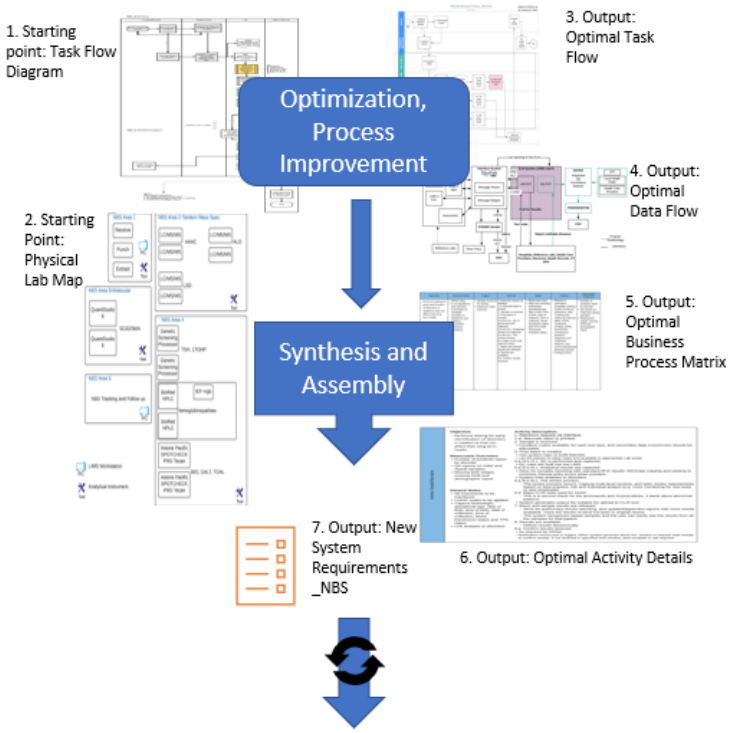
Over a period of 10 years, we have created tools, documented themes, and commonalities, and delivered approaches for informatics creation and implementation in public health laboratories. We have served as an extension of the laboratory leadership and staffing and as a go-between from software vendors to the laboratory.

Results

We will present a general approach to systematically determine informatics needs, evaluate existing software options, formulate system requirements, and manage the implementation. Tools, tips, and tricks will be shared. This approach can form the basis to identify the right consulting partners for strategic planning and implementation purposes.

Conclusion

Public health laboratory leadership will be provided with an approach to methodically identify resources to augment IT and laboratory staffing to support laboratory informatics infrastructure.



Document Current Lab Workflows and Data-flows	Conduct Gap Analysis	Process Improvement Report	LIMS Comparison	RFP Preparation	LIMS Selection
Objective: • Define and document current laboratory workflows and data flows **Tools:** • Interviews with lab and program staff • Gather documentation platform, e.g. Teams • Information Technology Landscape Assessment (ITLA) Questionnaire • Diagramming and Visualization Software	**Objective:** • Compare the current state to the future state workflows and evaluate how well the current LIMS meets the needs of the laboratory **Tools:** • Gather documentation platform, e.g. Teams • Information Technology Landscape Assessment (ITLA) Questionnaire • Diagramming and Visualization Software	**Objective:** • Leverage the current state workflows and documented gaps to present opportunities for improvement **Tools:** • Gather documentation platform, e.g. Teams • Information Technology Landscape Assessment (ITLA) Questionnaire • Diagramming and Visualization Software	**Objective:** • Use public and vendor supplied information to compare functions, interactions, and corresponding IT needs for different LIMS vendors **Tools:** • System Requirements questionnaire provided to the vendors as a Request for Information (RFI) • Microsoft Excel and Visualization tools • Scoring tools to compare vendor information	**Objective:** • Finalize system requirements for desired future state • Create RFP package **Tools:** • System Requirements questionnaire for vendors • System Requirements Prioritization spreadsheet • RFP Package templates	**Objective:** • Finalize LIMS Selection **Tools:** • Scoring Tools to compare vendor proposals • Demo scripts • Scoring Tools to compare vendor demos

Requirements and information reusability is the process of reusing requirements and information that have already been authored and implemented before in previous phases of the project. This technique is used by JMC to ensure that maximum productivity and consistency are achieved throughout the product development lifecycle.

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