

Where to Start: Planning for a New Data System or System Enhancement

Robin Nelson, DaSy Center Amy Nicholas, DaSy Center Noah Feldman, MA Part C Susan Franck, WA Part C

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Session Overview

- * This session is intended to identify key considerations for states before working through the action phases of developing or enhancing a Part C or Part B 619 data system.
- * We will describe data system features that states are using to improve the IFSP and IEP processes, facilitate date entry/workflow, and strengthen communication and collaboration.
- * State presenters will share experiences and learnings from managing their data system development projects.

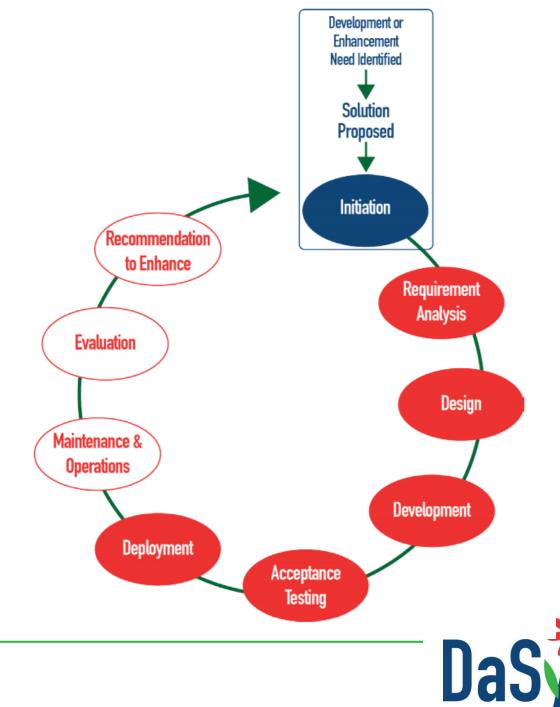


Typical Barriers and Pitfalls

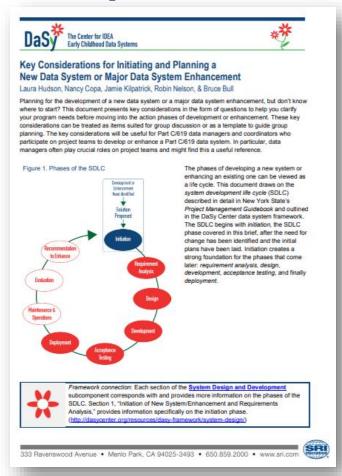
- * Lack of shared vision
- Needs of stakeholders not aligned with vision and scope
- Insufficient project/contract management
- * Taking shortcuts in development and deployment processes
- * Architecture unsuitable for scale/scope/context



Phases of System Development Life Cycle



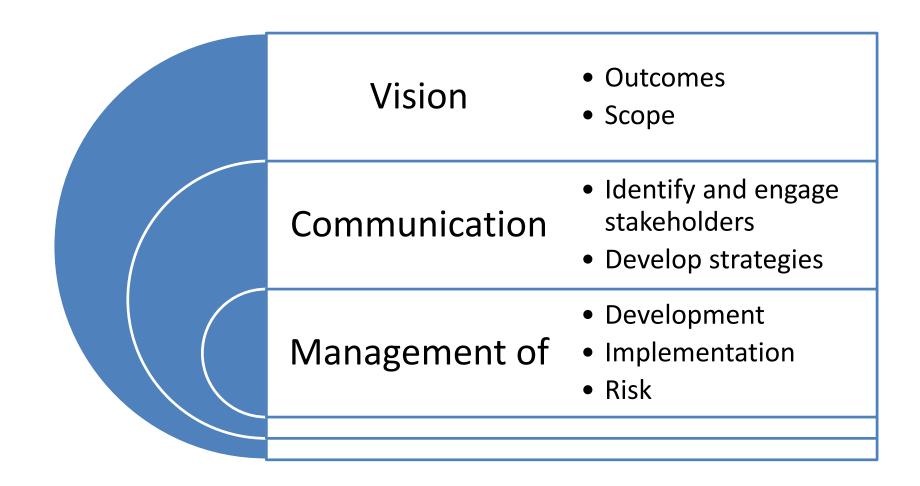
Key Considerations for Initiating and Planning a New Data System or Major Data System Enhancement



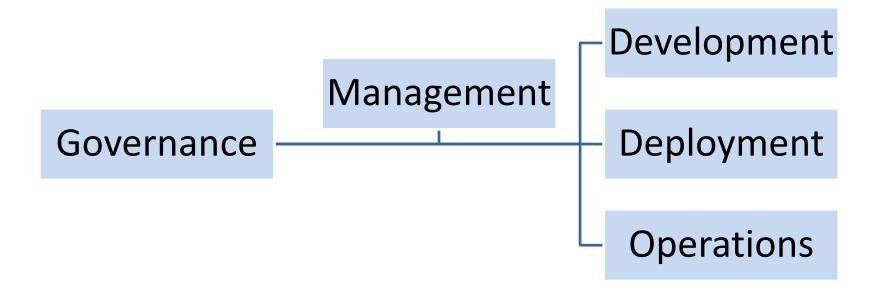
Available as standard pdf and fillable worksheet



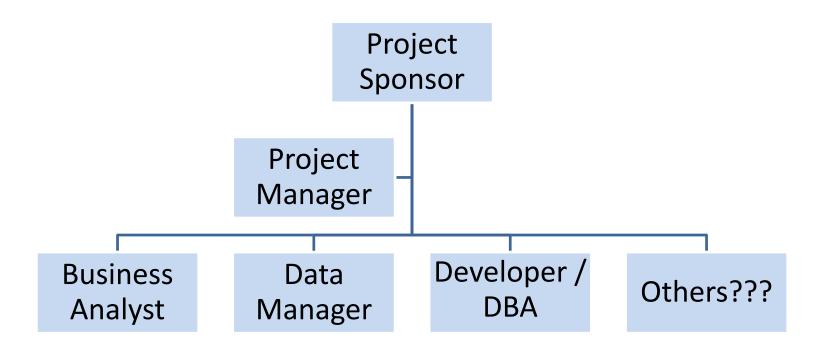
Big Picture Issues



Form Your Team



Project Team



Define what your system needs to do

- Describe business processes
- Identify and re-examine workflows
- Define requirements
 - Functional/business
 - Nonfunctional/technical





Find the Right Solution

In-house

- Internal agency
- External agency
- Contract

Procurement

- Competitive RFP
- Sole source
- Off-the-shelf
- Custom build

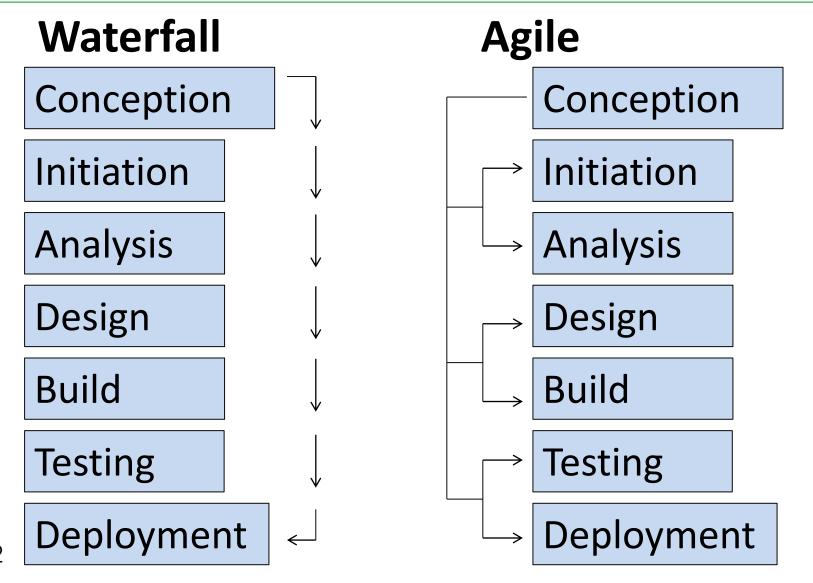
Options for

- Development
- Hosting
- Operations
- Maintenance

Financial Considerations

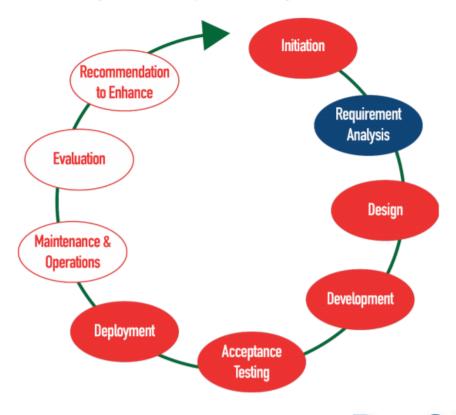
Potential development costs Potential budget allocation Potential funding sources Long-term costs: support, maintenance Potential cost savings

Software Development Approaches



State Experiences with Data System Projects

System Development Life Cycle



Washington Early Supports for Infants and Toddlers (ESIT)

- * Data management system (DMS) background
 - Microsoft Silverlight application
 - Databased structure was built for one workflow for service coordination
 - Reports were built for reporting, not monitoring or measuring progress
- Data system enhancement project
 - Research
 - IT staff turnover
 - Implemented Agile
 - Developed a communication plan



Washington ESIT DMS

Current System

Built around the service coordinator

Data collection by geographic service areas

System has many "hard stops" which disrupts work flow

Limited administrative functions

New System

Built around the child

Data collection by early intervention programs

Limit the number of "hard stops" to ease work flow

Add administrative functions



Washington ESIT DMS (cont.)

Current System

Multiple logins

Reports limited to reporting results

Records planned services

New System

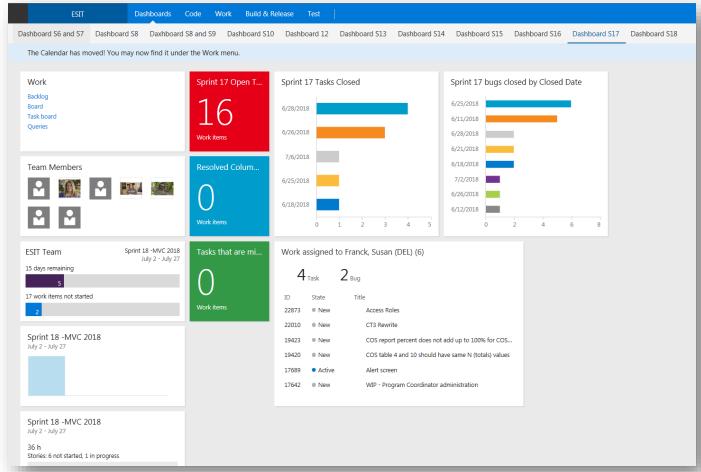
Single login

Reports include monitoring progress

Records actual service delivery

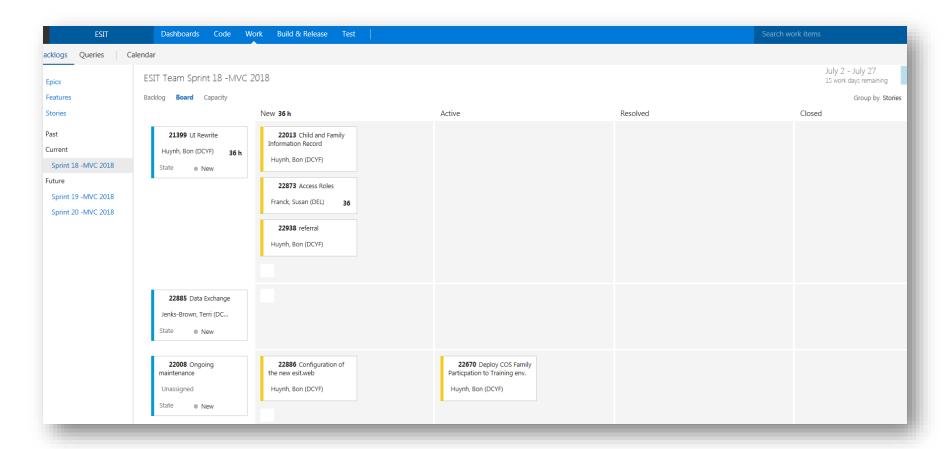


Team Foundation Server (TFS)



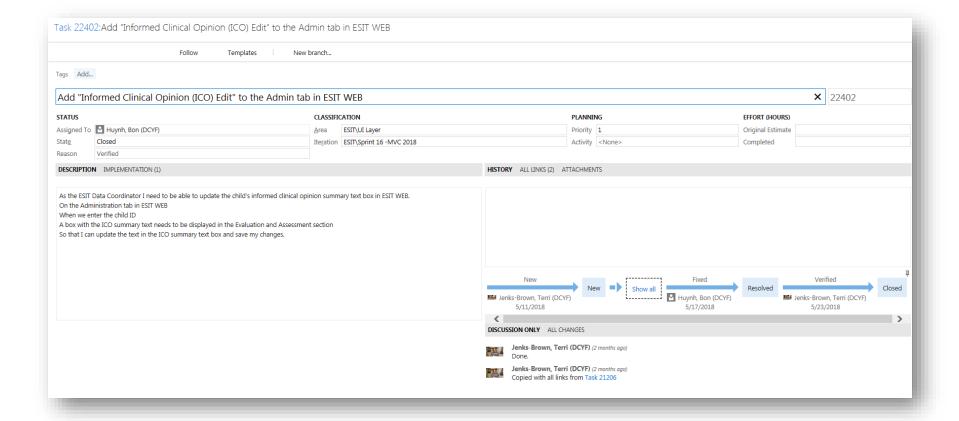


TFS (cont.)





TFS (cont.)



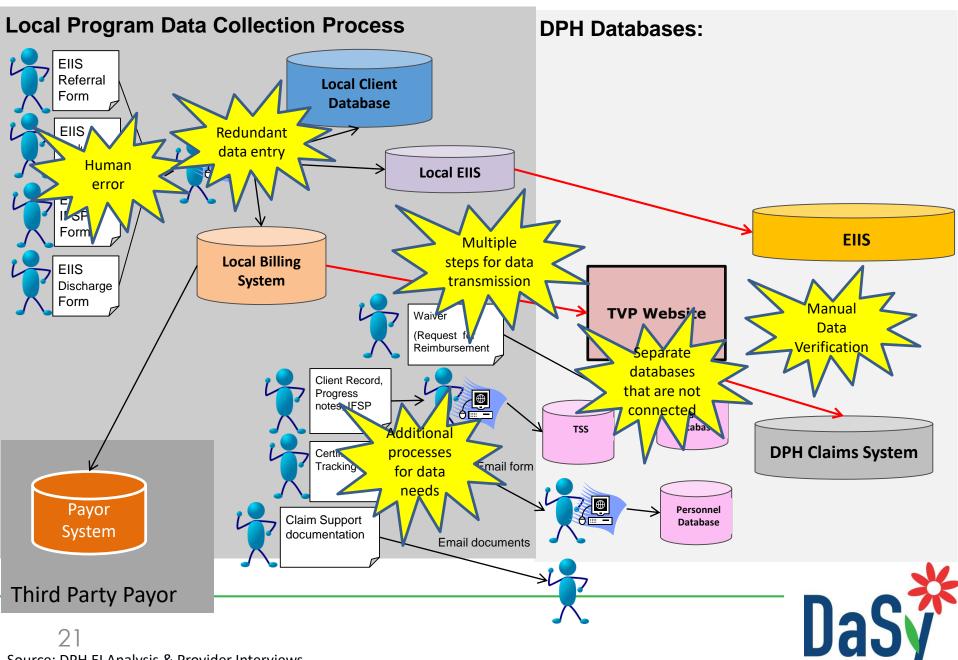


Massachusetts Early Intervention

- * Developing: New web-based client and fiscal system
 - Full Client record
 - EMR upload capability
 - Full Reimbursement and payment processing
- Replacing: El Information System (EIIS) and Fiscal System
 - 20+ years old systems
 - Access database and SQL

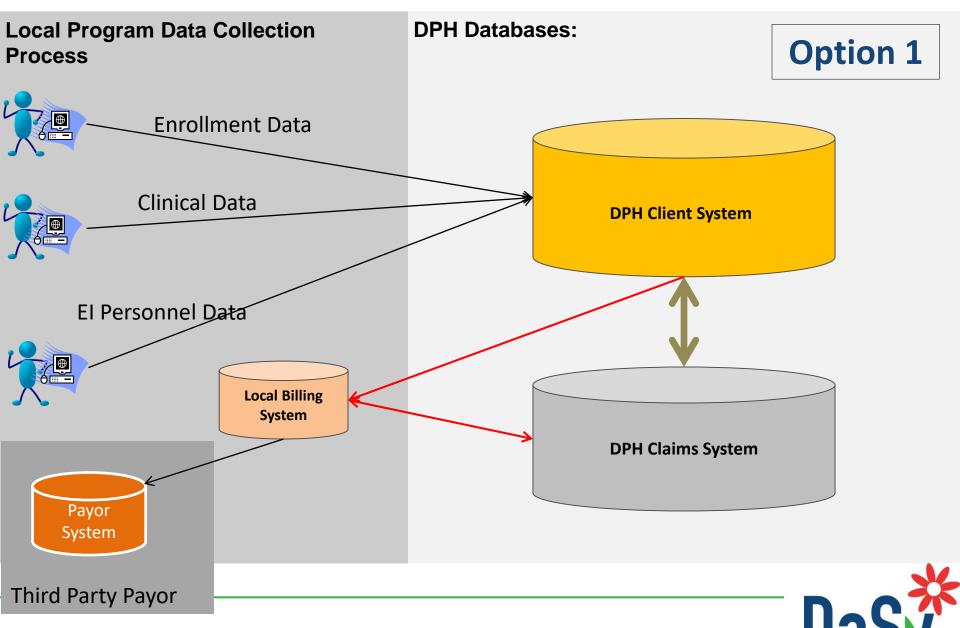


Massachusetts: Current El Data Processes



Source: DPH EI Analysis & Provider Interviews

Massachusetts: Future El Data Processes



Massachusetts: EMR Integration Becoming Reality

50% of EI agencies currently own EMR

New EIIS as primary software

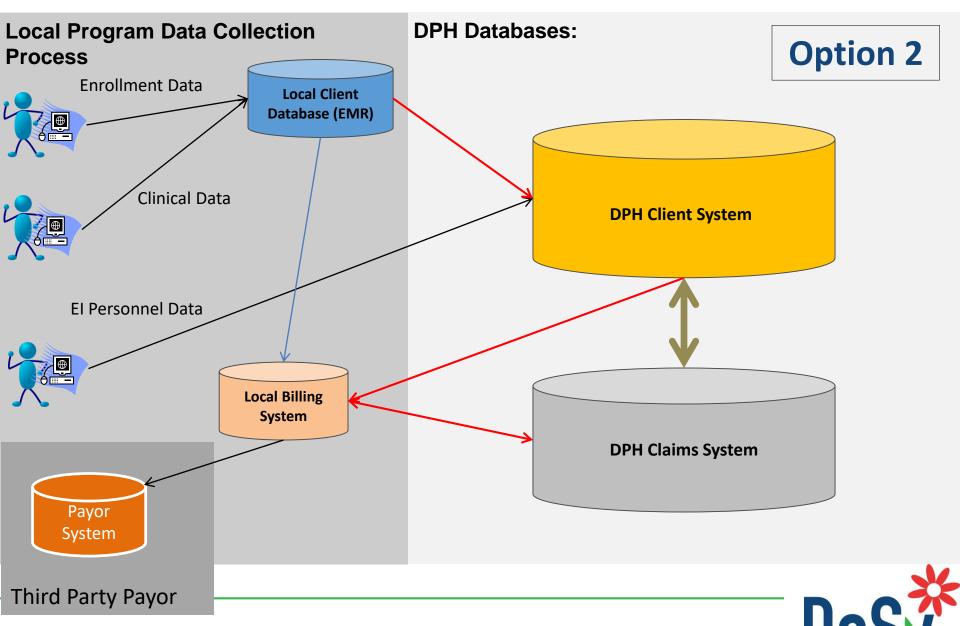
 EI DPH will develop extract for EMR upload

EMR as primary software (EIIS secondary)

- EI DPH will develop integration function for upload to EIIS
- EI agencies will develop extract for EIIS upload



Massachusetts: Future El Data Processes



Data System Features













Deciding on Features

- * States can benefit from exploring features other states are using to collect and facilitate the reporting and use of data, including IFSP and IEP data.
- * For each feature, specific business requirements are needed to communicate and document (in writing) all potential uses to meet program needs.
 - Developing and Sharing Your Business Requirements to Build a Better Data System



DaSy Center Toolkit

Including IFSP Information in Your Part C Data System: Selected Features and Related











What You'll Find for Each Feature

- * Connections to the **DaSy Data System Framework**;
- Potential data elements needed to develop various aspects of the feature;
- * A list of functionality options that could be used to implement the feature;
- * Key design considerations;
- State examples,* and
- * Related technical assistance resources.



Group Sharing & Discussion





Related DaSy Resources

- Key Considerations for Initiating and Planning a New Data System or Major Data System Enhancement
 - Standard PDF and fillable worksheet
- IFSP Toolkit Including IFSP Information in Your Part C Data System
- DaSy Framework: System Design
- Developing and Sharing Your Business Requirements to Build a Better Data System
- Building a Better Data System: What are Process and Data Models?

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