

58th Annual
WESTERN WINTER
WORKSHOP

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UAT and SIT

Crucial Elements for Successful PMIS Adoption

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Need to know...

The following presentation is intended to discuss the importance of UAT and SIT in systems implementations and share some tips & tricks for successfully implementing them during the Adoption phase.

The configuration and release of any PMIS system is generally tailored to organizations needs, timing, and business requirements.

Before we start ... a quick show of hands

- Who is using some sort of a PMIS?
- Who is in the stages of considering implementing a PMIS system?
- Who has been part of a system configuration and deployment process?




What should you expect?

- Some general description on PMIS and the benefits they provide
- A brief overview of project management system implementation phases
- **Explanation on Why UAT and SIT are important?**
- Tips & Tricks for your use
- Time for a discussion and Q&A



But first, what is a PMIS and what does it do?

- Simplifies Project Management & Delivery Process
 - Infused with customizable workflow processes
 - Has a comprehensive cost and fund management features
- Streamlines Organization & Project Reports
 - Integrates and centralizes data
 - Streamlines data entry and access
- Expands your data driven stories through dashboards & analytics
 - Turns data into useful information



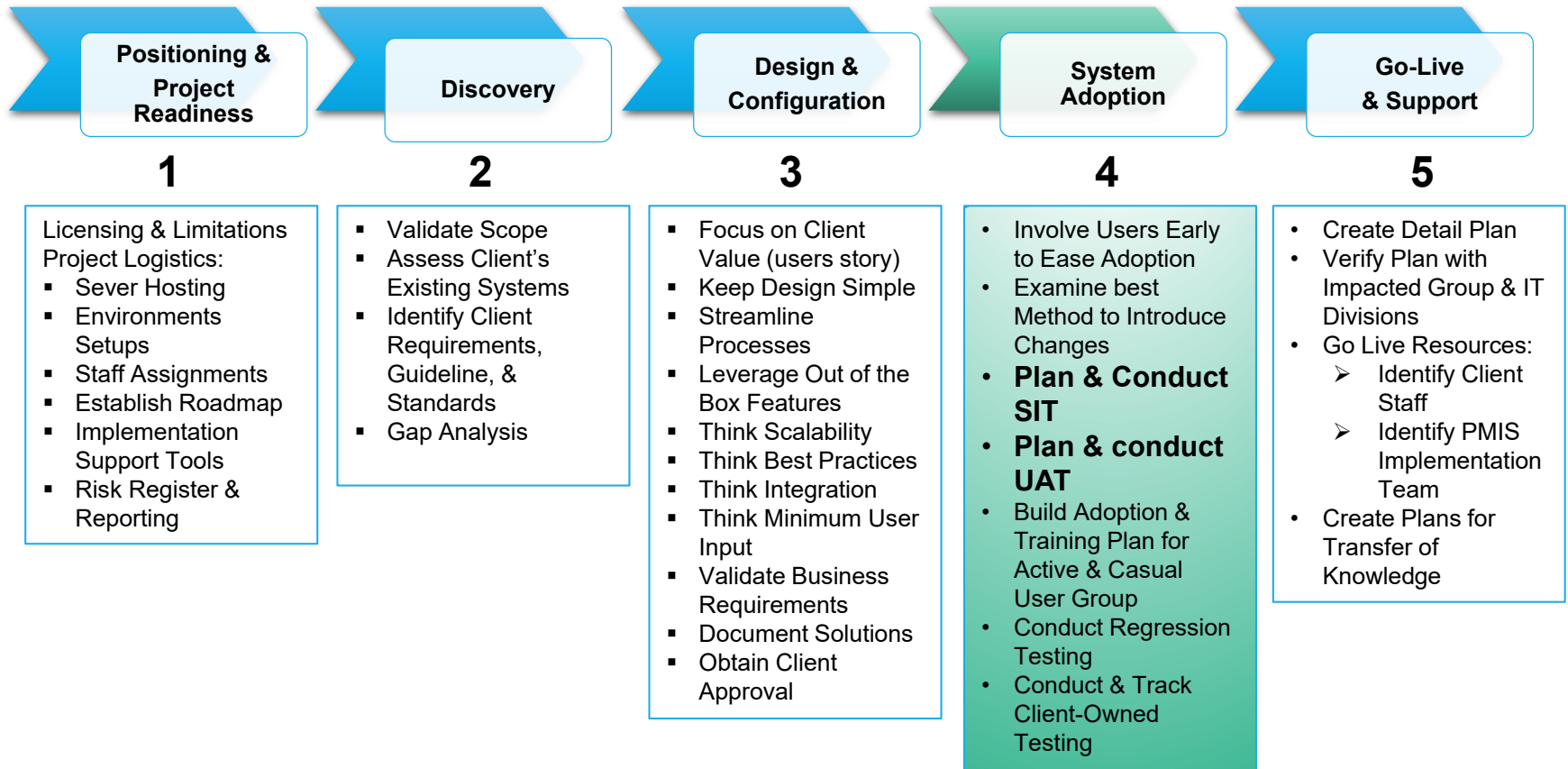
What about the
Platform:
Secure Cloud??
SaaS?? Hybrid
Cloud??

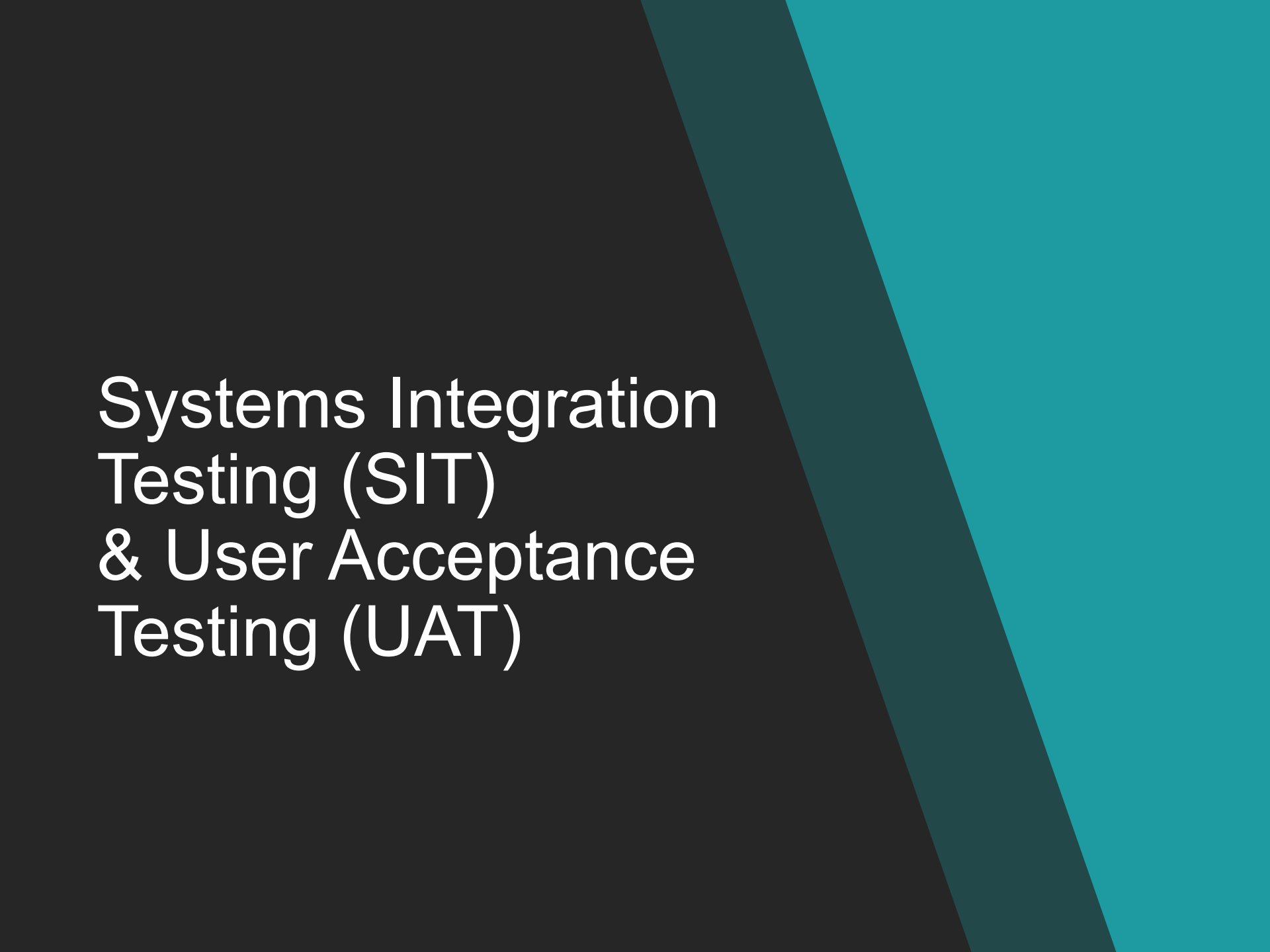
SaaS, Cloud, Hybrid Cloud?

- **Software as a service (SaaS)** is a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted. It is sometimes referred to as "on-demand software". For example "GoToMeeting" is a SaaS system.
- **Cloud computing** is the practice of using a network of remote servers hosted on the Internet to store, manage, and process data, rather than a local server or a personal computer.
- **Hybrid cloud** is a cloud computing environment that uses a mix of on-premises, private cloud and third-party, public cloud services with orchestration between the three platforms.



System Implementation Stages

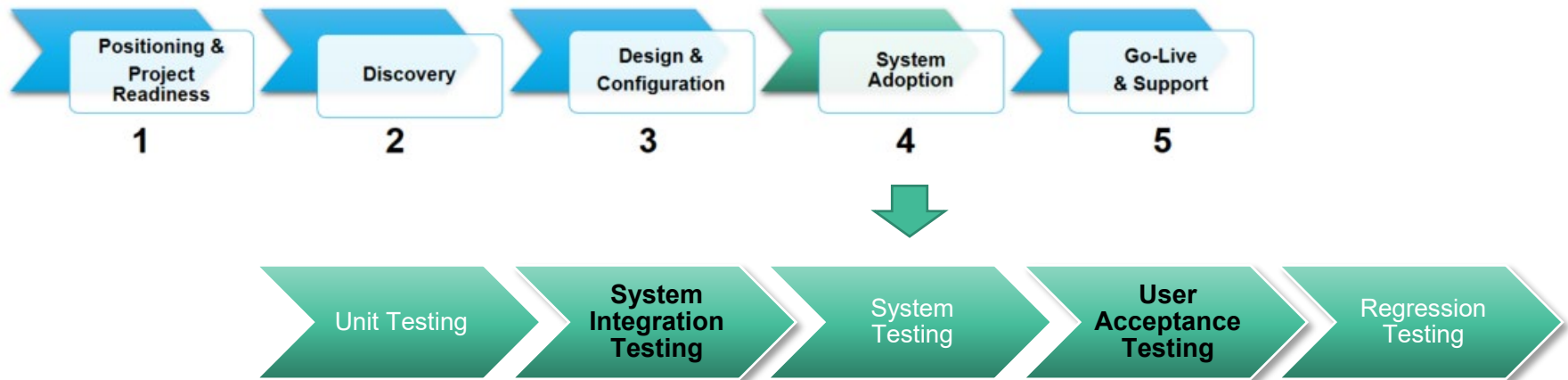


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Systems Integration Testing (SIT) & User Acceptance Testing (UAT)

System Integration & User Acceptance Testing!

System Integration Testing (SIT) and User Acceptance Testing (UAT) are two of the most common and traditional testing types. They are conducted at different times & by different people during software testing life cycle.





What is SIT and why is it important?

WHAT? SIT is needed when PMIS will be integrated with other systems to achieve business needs.

WHY? Although, PMIS may be working perfectly alone - it might not when it's connected to other systems via bi-directional integration processes.

PMIS could be Integrated with:

- Schedule data (baseline and progress data points)
- Financial data (actual cost transfer)
- Timesheet data (in-house labor)
- Existing legacy systems

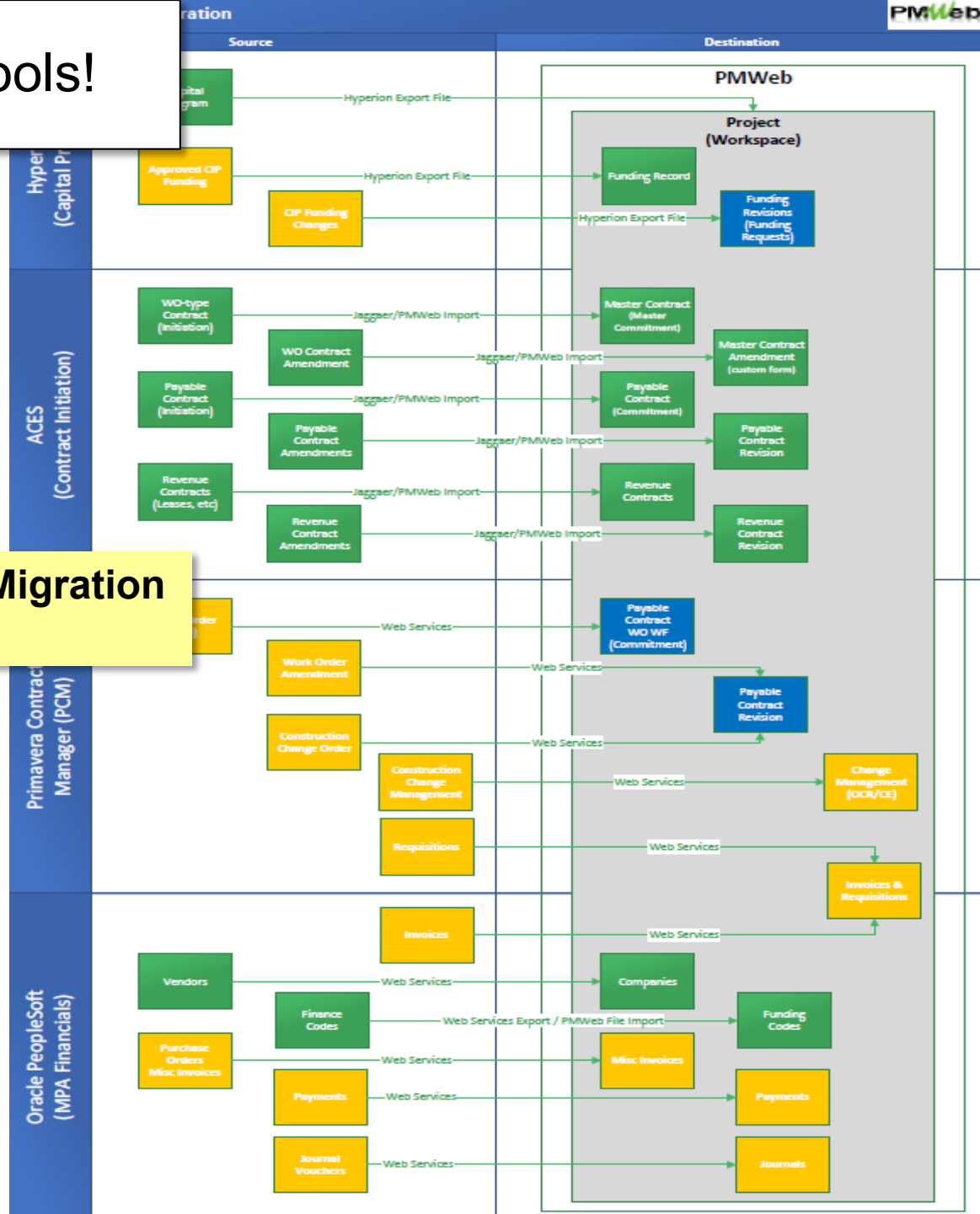
SIT Plan “*Tips & Tricks*”

- Create integration plan
- Create artifacts to communicate with business group
- Select pilot projects
- Create field mapping tables
- Verify integrated systems versions
- Create diverse exception reports (generally excel pivot tables)
- Run manual integration testing on different scenarios
- Conduct a structured QA & spot checks for integrated pilot projects
- Prioritize SIT results by impact to schedule, scope, & cost
- Prepare sign-off checklist(s)

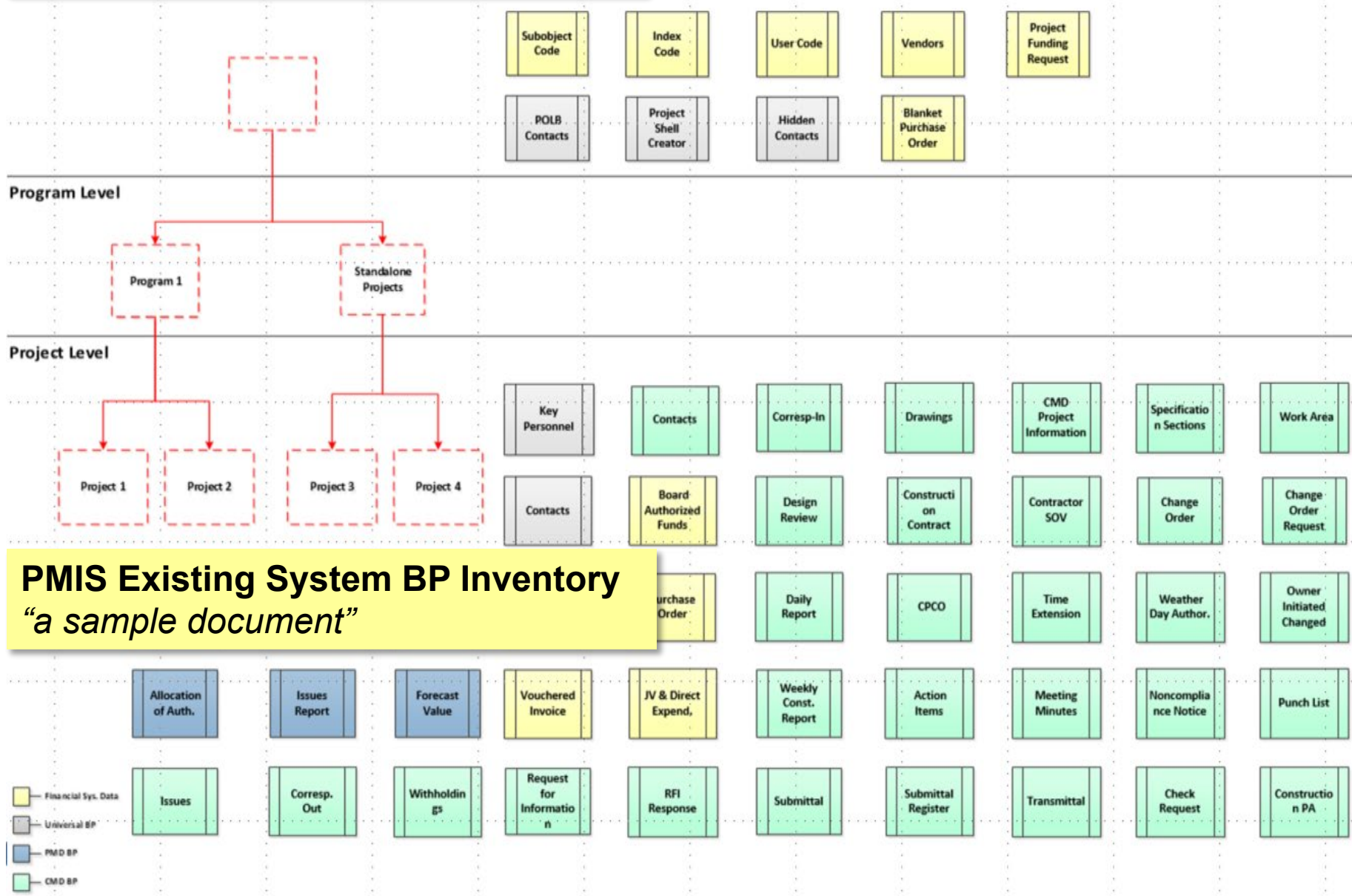


SIT Communication Tools!

System Integration & Data Migration "a sample document"



SAT Communication Tools!



PMIS Existing System BP Inventory

"a sample document"

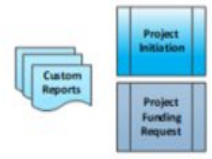
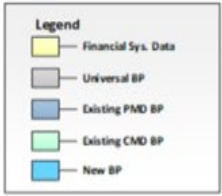
- Financial Sys. Data
- Universal BP
- PMI BP
- CMD BP

SIT Communication Tools!

Company Workspace



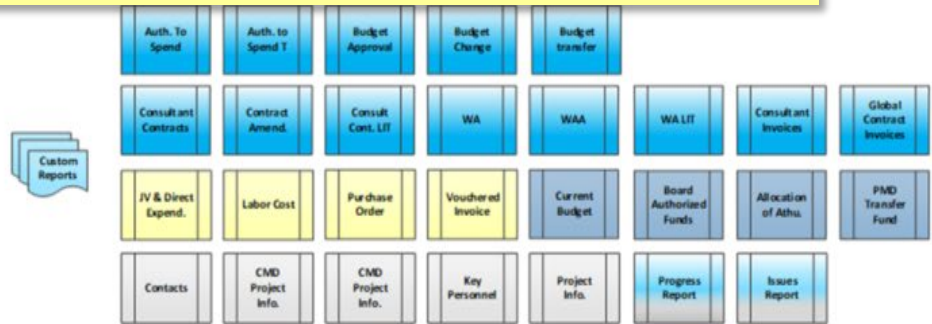
Home



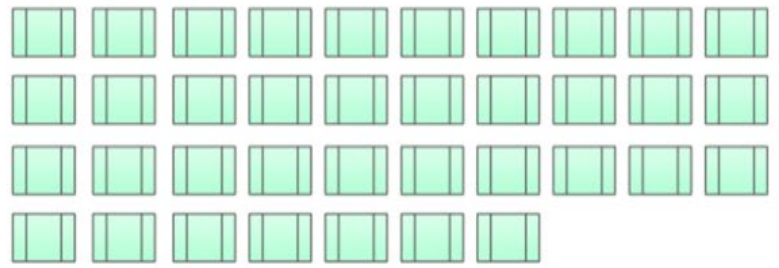
Program



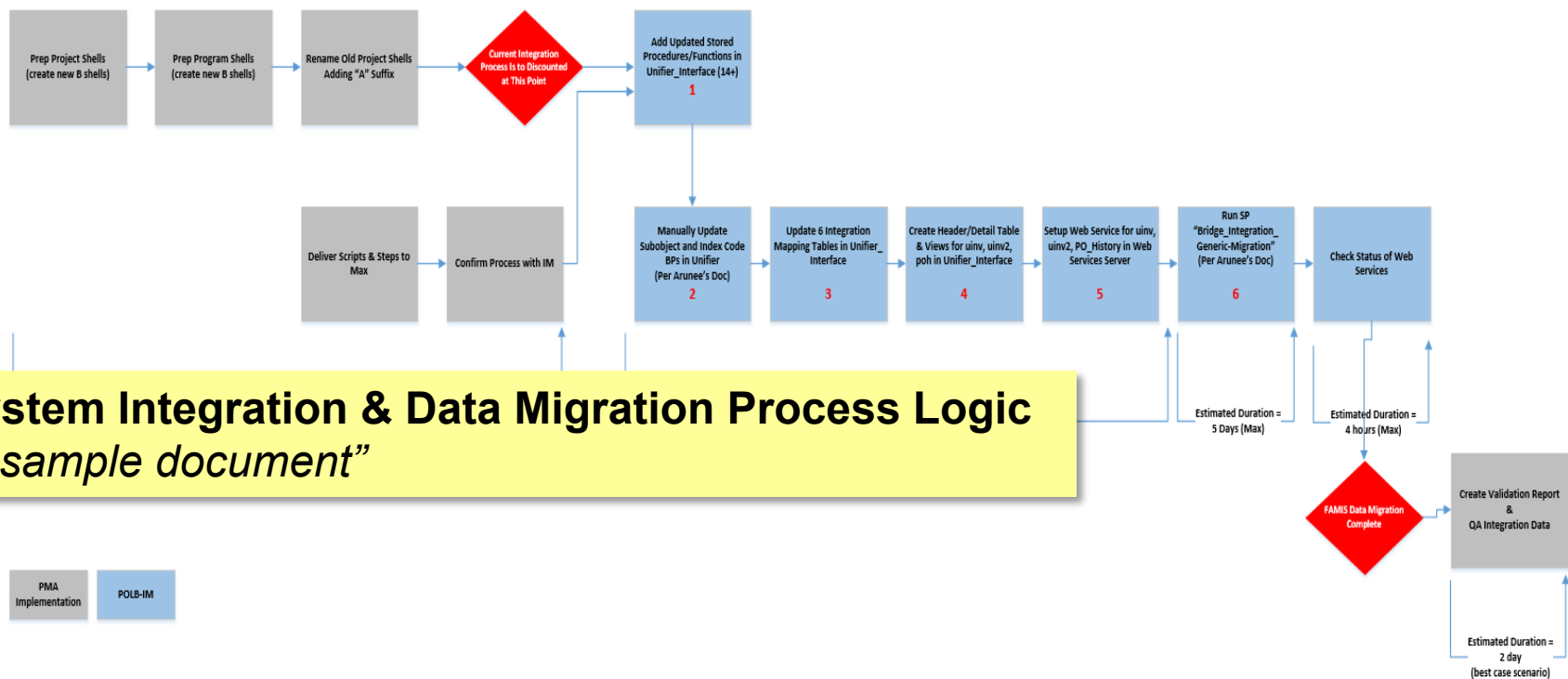
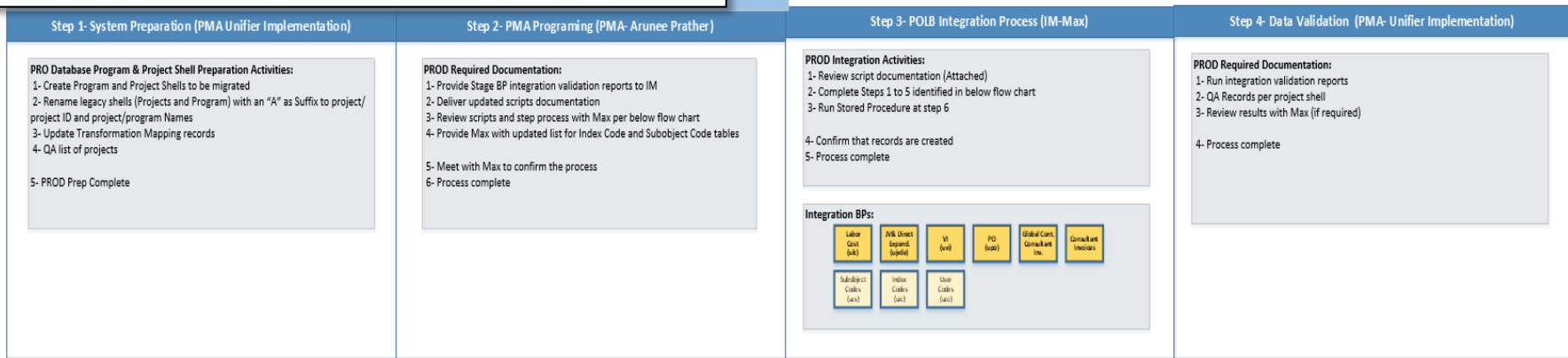
PMIS New Enhancements
"a sample document"



CMD Existing 37 Current BPs



SIT Communication Tools!



System Integration & Data Migration Process Logic

"a sample document"



SIT “Pitfalls”

- Poor participation by systems administrators and key users
- Incorrect testing environments
- Unclear or ambiguity in the requirements
- Ever changing data migration logic by client
- Lack of communication between the between the technical, functional teams



What is UAT and why is it important?

User Acceptance Testing (UAT) is the process of verifying that a created solution within the system works for “the user”. This might sound easy but, in practice, it isn't.

- Keeps ongoing maintenance cost as low as possible
- Provides best opportunities to identify and repair broken features and usability issues
- Provide an end-user vision

UAT Plan *"Tips & Tricks"*

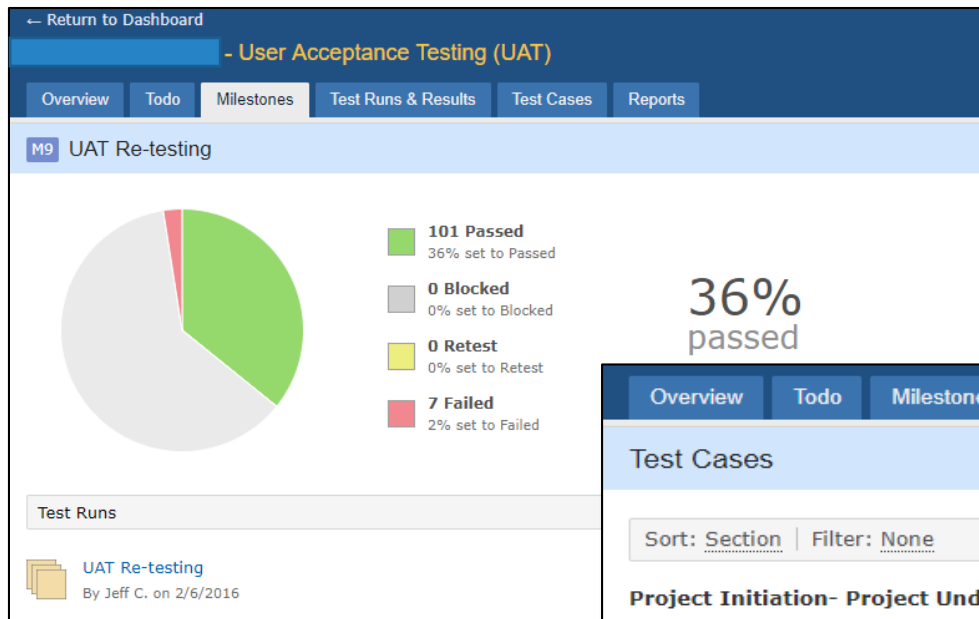
- **Identify your UAT group from different level in the organization**
- Confirm Client staff availability and work with their schedule
- Setup PMIS testing environment
- Verify PMIS versions
- Identify, write, & test clear & distinct scenarios
- Use collaborative and tools to increase efficiency



UAT Collaborative Tools

TestRail “a UAT Tool”

Cloud base, provides real-time reports, save time, save cost ...



Overview | **Todo** | Milestones | Test Runs & Results | **Test Cases** | Reports

Test Cases

Sort: Section | Filter: None

Project Initiation- Project Under Program (4)

ID	Title
C203	Program Manager Initiates the Business Process
C204	Issue Spec Number (step managed by Specification Section Group)
C205	Issue Work Order (step managed by Finance)
C206	Project Creation Process (step managed by Project Control)

[Add Case](#) | [Add Subsection](#)

UAT Collaborative Tools?

TestRail “a UAT Tool”

2/18/2019 Program Manager Initiates the Business Process - TestRail

C203: Program Manager Initiates the Business Process

Type	Priority	Estimate	References
Other	Medium	None	None

Automation Type
None

Preconditions

Access Information:
* URL for the Unifier Test Instance:
* Tester Username
* Tester Password

User has navigated to the Unifier Application page and authenticated to the Unifier system.

Business Process Overview

For Projects under an existing program, the **Project Initiation** business process is officially initiated by the Project Manager in the **Unifier** environment. This is a shorter Business Process to get the **WO number** and the **Project Shell** initiated in **Unifier**.

Procedure - Once the Project Requester completes and submits the request form, the Project Controls Division receives an email notification. The **request detail** is then reviewed for accuracy by a member of the project controls staff. Approved requests result in the generation of a project workspace for that project where all other business process logs and forms will be accessed for that project.

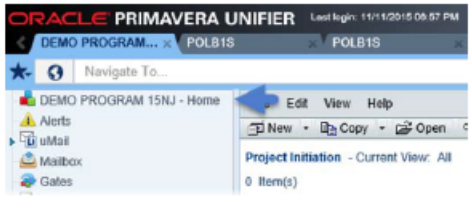
Please see the attached "Business Process Workflow Diagram" in the **Attachments** section to the right ----->

Steps

Please complete the **Project Request** form per the instructions below. Be sure to fill out all required fields (designated by an "*").
Note: You may click on any figure to view the expanded version.

The primary means of accessing **Primavera Unifier** features under any tab is through the **Navigator**, located in the left pane of the **Unifier** application window. The **Navigator** is similar to a folder system, much like a network drive.

- Locate **Search** field next to star icon under any tab at top left side of the page
- Type **program name: "UAT Testing Program"** to access the test program



1- Click **Project Creator** folder, Click **Project Initiation**
2- In **Project Initiation** page, Click **New**

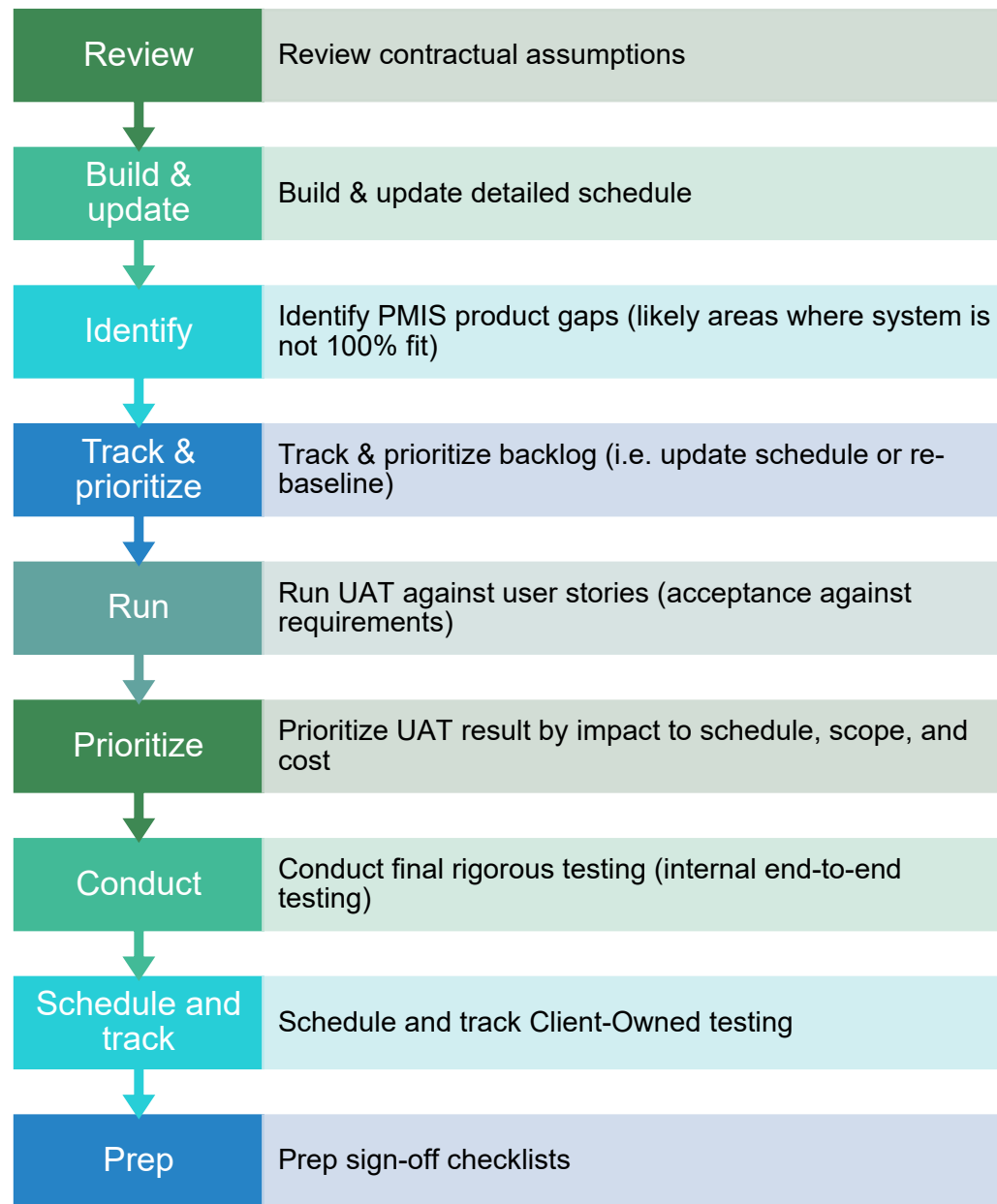
UAT “Pitfalls”


- Poor participation in UAT, users reluctance to show up or perform UAT
- Application which is being tested is not the latest version
- The testers are not properly trained
- Unclear or ambiguity in the requirements
- Lack of communication between the technical team, UAT team & testing team if they are present at different locations
- The business team tries to put down the development and testing team. It is very rare and happens only if there are some politics going on the organization. It can be avoided by building positive relation with the teams (chocolate always works!).



Finally, a Few Tips & Tricks

Implementation Tips





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Thank you.

