

**T R I N I T I**

WHERE TECHNOLOGY WORKS FOR BUSINESS

## **Automating New Market Entry Rollout**

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# Agenda

## □ Overview

- Traditional New Market Entity Creation Project
- New Approach to New Market Entity

## □ How does this Automation work?

## □ FAQs

# Context

A New Market Entity roll-out of Oracle for EPC Business involves setting up

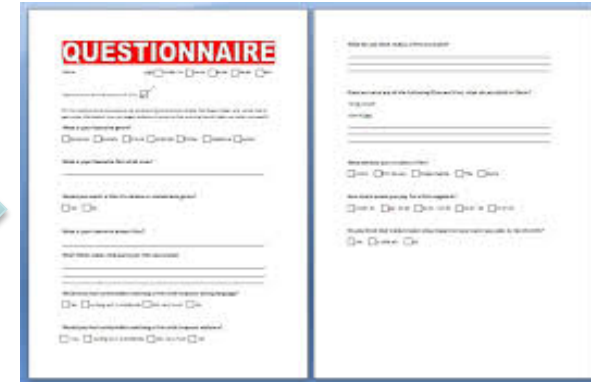
- New Legal Entity, Operating Unit ...
- Configuring the 200+ setups across several modules
- Multi-cycle testing – CRP, UAT before go-live

However, even after extensive time-consuming testing, when users start transacting in Production, they encounter some errors...

This project is an attempt to improve on the Time ( Project and User time) and Reliability factor of such recurring rollouts....

# Life Cycle of a Typical Oracle Entity Rollout...

# After the Project Starts....



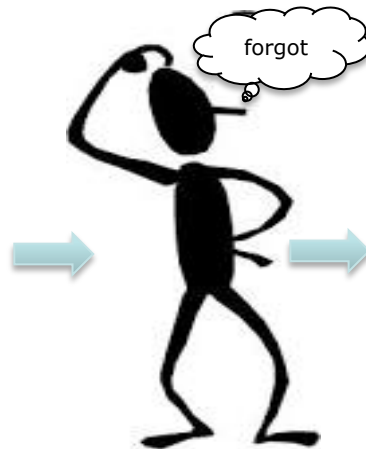
Business Users



# The System gets configured for CRP... Version 1



Consultant Hands @ Work – Ver1



Consultant



## (CRP) Conference Room Pilot

- Simulates the day, week, month environment
- Informs the users with the technology
- Provides feedback on the Standard Operating Procedure: "SOP"
- Must be done at least three times
- Uncover the errors in the procedures
- Stress test the system



Fix Issues

# Meanwhile, consultants create Documentation



What docs to prepare?



BR100....

# The System gets configured for UAT... Version 2



Many Hands @ Work – Ver 2



User Army – 11th Infantry Division



Testing same thing forever!





# The System gets configured for PROD...Version 3



Many Hands @ Work – Ver 3 !

# Users eagerly start transacting and then ....



Probability > 10%

Sorry, made a mistake in Version 3. However, UAT was correctly setup !



3WI

*Time for change ....*

New Approach – Standardize and Automate

...Change the script to change the outcome...



# Before IT Project Kickoff...



Job Delivery Worksheet - Test Case - Software TIC

Job Delivery Worksheet - Invoiced To, 12 Nov 2014 22:28:18 PST

Alias Name	Target Label Values	Description	Area	Included Area
Accounting Organization Name	Software Proj (SPTM) OLI	Accounting Organization		
Operating Unit Name	Software Proj (SPTM) OLI	Operating Unit Name		
Operating Unit Name	Software Project (SPTM) OLI	Operating Unit Name		OL
Organization Name	Proj (SPTM) PROJECTS	Other Party / All Invoiced Organiza		
Organization Name	Proj (SPTM) PROJECTS	Organization Name		
Organization Name	Proj (SPTM) PROJECTS	Organization Link Related To Proj		
Organization Name	Proj (SPTM) PROJECTS	Organization Name		Project
Organization Name	Proj (SPTM) PROJECTS	Organization Name		AP
Organization Name	Software Proj (SPTM) OLI	Operating Unit Name		
Primary Ledger Name	SPTM (SPTM) A	Primary Ledger Name		AP
Primary Ledger Name	SPTM (SPTM) A	Primary Ledger Name		AP
Primary Ledger Name	SPTM (SPTM) A	Primary Ledger Name		PA
Primary Ledger Name	SPTM (SPTM) A	Primary Ledger Name		PA
Primary Ledger Name	SPTM (SPTM) A	Primary Ledger Name		PA
Secondary Ledger Name	SPTM (SPTM) A	Secondary Ledger Name		PA
Legal Entity Name	SPTM (SPTM) A	Legal Entity Name		AP
Legal Entity Name	SPTM (SPTM) A	Legal Entity Name		AP
Legal Entity Name	SPTM (SPTM) A	Legal Entity Name		CP
Legal Entity Name	SPTM (SPTM) A	Legal Entity Name		CP
Legal Entity Name	Software Project (SPTM) OLI	Legal Entity Name		CP
Organization Code	SPTM (SPTM) A	Organization Code		CP

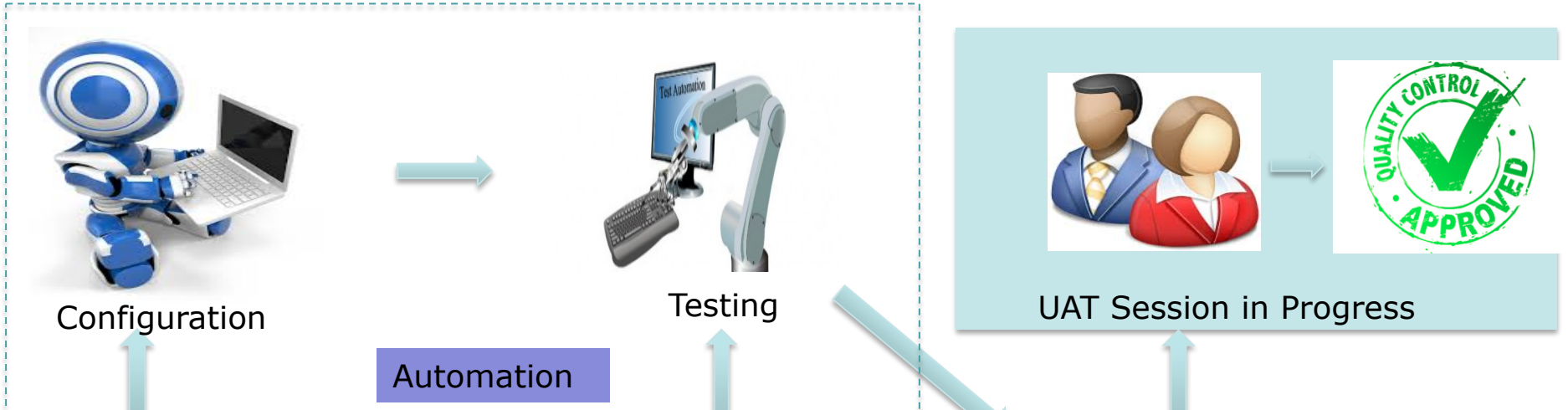


Standardized, Pre-decided Template

Business Users Meeting  
 ✓ Key Decisions  
 ✓ Fill up Questionnaire

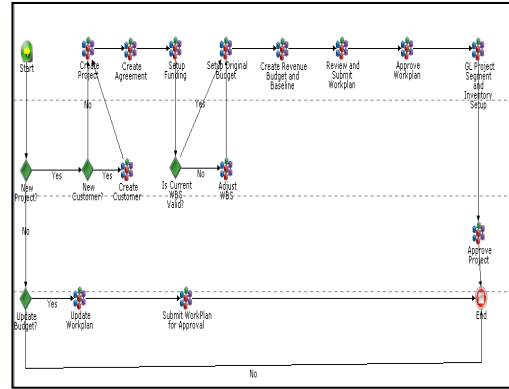
Call the Consultant

# System Configuration ...Testing ...& Docs !



Data Gathering Worksheet: Test Cases: SunPower TR2

Alias Name	Input Label Values	Description	Area	Related Area
1. Expenditure Organization	SunPower Peru (SPRRA.OU)	Expenditure Organization		
2. Operating Unit Name	SunPower Peru (SPRRA.OU)	Operating Unit Name		
3. Operating Unit Name	SunPower Poland (SPPL.OU)	Operating Unit Name		OL
4. Inventory Organization Name	PS4-PEBU-PROJECTS	Enter Party / Full Inventory Organiza...		
5. Inventory Organization Name	PS4-PEBU-PROJECTS	Inventory Organization Name		
6. Inventory Organization Name	PS4-PEBU-PROJECTS	Organization Code followed by Div...		
7. Inventory Organization Name	PS4-PEBU-PROJECTS	Inventory Organization Name		
8. Inventory Organization Name	PS7-PEBU-PROJECTS	Inventory Organization Name		Projects
9. Operating Unit Name	SunPower Peru (SPRRA.OU)	Operating Unit Name		AP
10. Primary Ledger Name	SPWR-PEBU 4	Primary Ledger Name		AP
11. Primary Ledger Name	SPWR-PEBU 4	Primary Ledger Name		AR
12. Primary Ledger Name	SPWR-PEBU 4	Primary Ledger Name		FA
13. Primary Ledger Name	SPWR-PEBU 4	Primary Ledger Name		AP
14. Primary Ledger Name	SPWR-PEBU 4	Primary Ledger Name		AR
15. Secondary Ledger Name	SPSS-SPWR-POLAND	Secondary Ledger Name		OL
16. Legal Entity Name	SPRRS LE	Legal Entity Name		AP
17. Legal Entity Name	SPRRS LE	Legal Entity Name		AR
18. Legal Entity Name	SPRRS LE	Legal Entity Name		CH
19. Legal Entity Name	SPRRS LE	Legal Entity Name		OL
20. Legal Entity Name	SunPower Poland (SPPL LE)	Legal Entity Name		OL
21. Organization Code	NUPSA%	Give partial / Full Inventory Organiza...		



O2C EPC Order User Manual  
 Created Date: 04-Feb-2014  
 Created By: Devisetty N.V.L Anusha

User Given Configuration Data

User Approved Business Processes

Automatic Runtime Document Generation  
 ✓ Training Documentation  
 ✓ BR100

Automation Layer

# Project Go-Live...

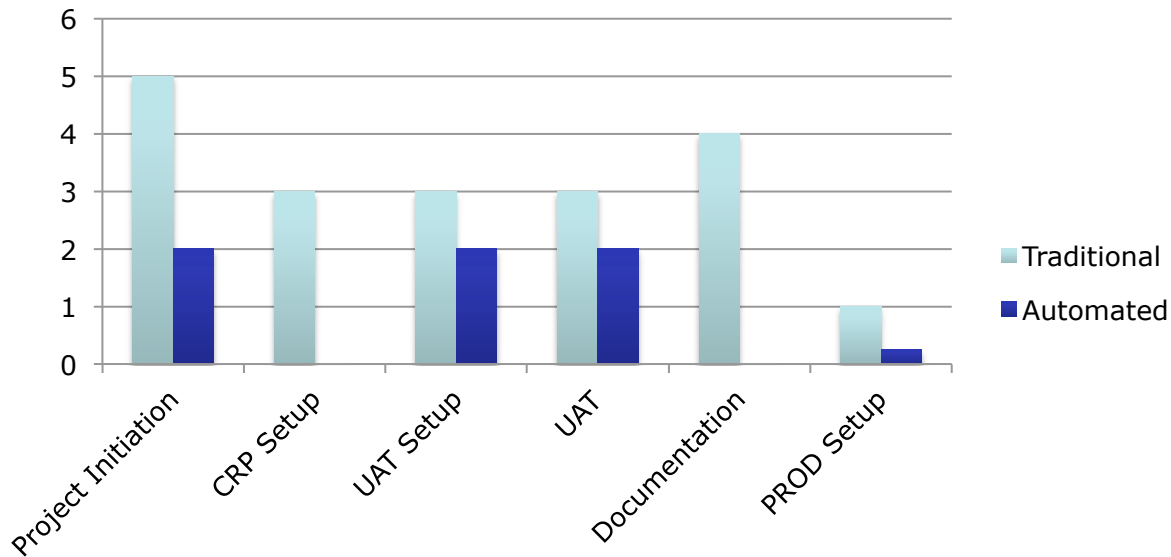


Users, Bosses



IT , Consultants

# The Automation Difference



Highly Reduced User involvement in routine rollout test cases

Pre-tested and reliable project delivery mechanism

Detailed and guaranteed documentation

Audit Trail

Now for the Details...



# Basic Terminology and Behavior

<b>Term</b>	<b>Automation Meaning</b>	<b>Oracle Analogy</b>
UI RnR	User Interface Record and Replay	
BPM	Trinity Business Process Modeler	
Script	<p>UI RnR recording of performing actions on an Oracle screen.</p> <p>One save by the user on the screen equates to one "Script"</p>	<p>This represents a Manual Test case step .</p> <p>Behavior similar to concurrent request.</p>
Scenario	Sequenced string of scripts .	<p>This represents a Test scenario.</p> <p>When in action, this is similar to running a request set</p>
eWorksheet(s)	<p>Editable excel like clone for data maintenance. This is used to maintain</p> <ol style="list-style-type: none"> <li>1) Sequence</li> <li>2) Predecessor information</li> <li>3) Input Parameters</li> <li>4) Executing and Tracking Test scenarios</li> </ol>	

# Test Script Input Parameter Maintenance

Parameter Type	Automation Usage
Constant	<p>These parameters are default values for the specific script. For ex. – Match Type = 3 Way for Material PO's</p>
Variable	<p>Runtime derivation of parameter carried forward from the previous step in the scenario.</p> <p>Ex. Order #, PO #</p>
Dynamic	<p>Parameter derived by running a special program specific to the field in the script. This is done using ETK – a Trinita SOA toolset.</p> <p>Ex. Say, a scenario involves running a concurrent program at Step 5 and then the output of the concurrent program creates the necessary data for Step 6. In such cases, ETK is used to find the value to be used as input parameter for the specific field in Step 6.</p> <p>Specific to EPC process, a concurrent program is used to create Work Orders from Project Sales Orders. ETK is used to find the work order number created as an outcome of the concurrent program. This is then used as the input for Work Order Transactions</p>

# Statistics

<b>Activity</b>	<b>Configuration</b>		
Details	Type	Count	Percent
	Manual Configuration Steps	34	9.5%
	Object Migration	24	13.5%
	Automated Scripts	194	77.0%
Cycles	5 Rehearsals		
Automation	90.5%		

<b>Activity</b>	<b>Transactional Testing</b>	
Scenario details	Type	Count
	Scenarios	15
	UI RnR Scripts	198
Cycles	3 Rehearsals	
Automation	100% of known EPC Business Processes	

# Configuration Automation Key Features

- ✓ Audit Trail of Data used at the time of configuration
- ✓ Automatic Document generation ( BR100)
- ✓ Single point of data entry by users for all data required for Rollout.
- ✓ Over 90% automation.

# Listing of EPC Transactional Testing Scenarios

1. GL Finance Transactions
2. O2C Cycle
3. P2P Cycle
4. ACF Transactions
5. Cash Management Transactions
6. Fixed Asset Transactions
7. Project Creation
8. Projects AR Process
9. iExpense to Projects
10. OTL for Projects
11. Projects Miscellaneous Batches
12. Projects Interface to GL
13. Project Inventory transfer process
14. PA Reports
15. Projects InterCompany Process

# FAQs

Q. What is the scope for this automation?

A. The current scope covers the EPC business along the lines of the Solar Star implementation

Q. What if a new EPC Process is introduced?

A. We need to model the process using the Business Process Modeler(BPM), Record using UI RnR and then add it to the Test repository

Q. What if an existing EPC Process is changed?

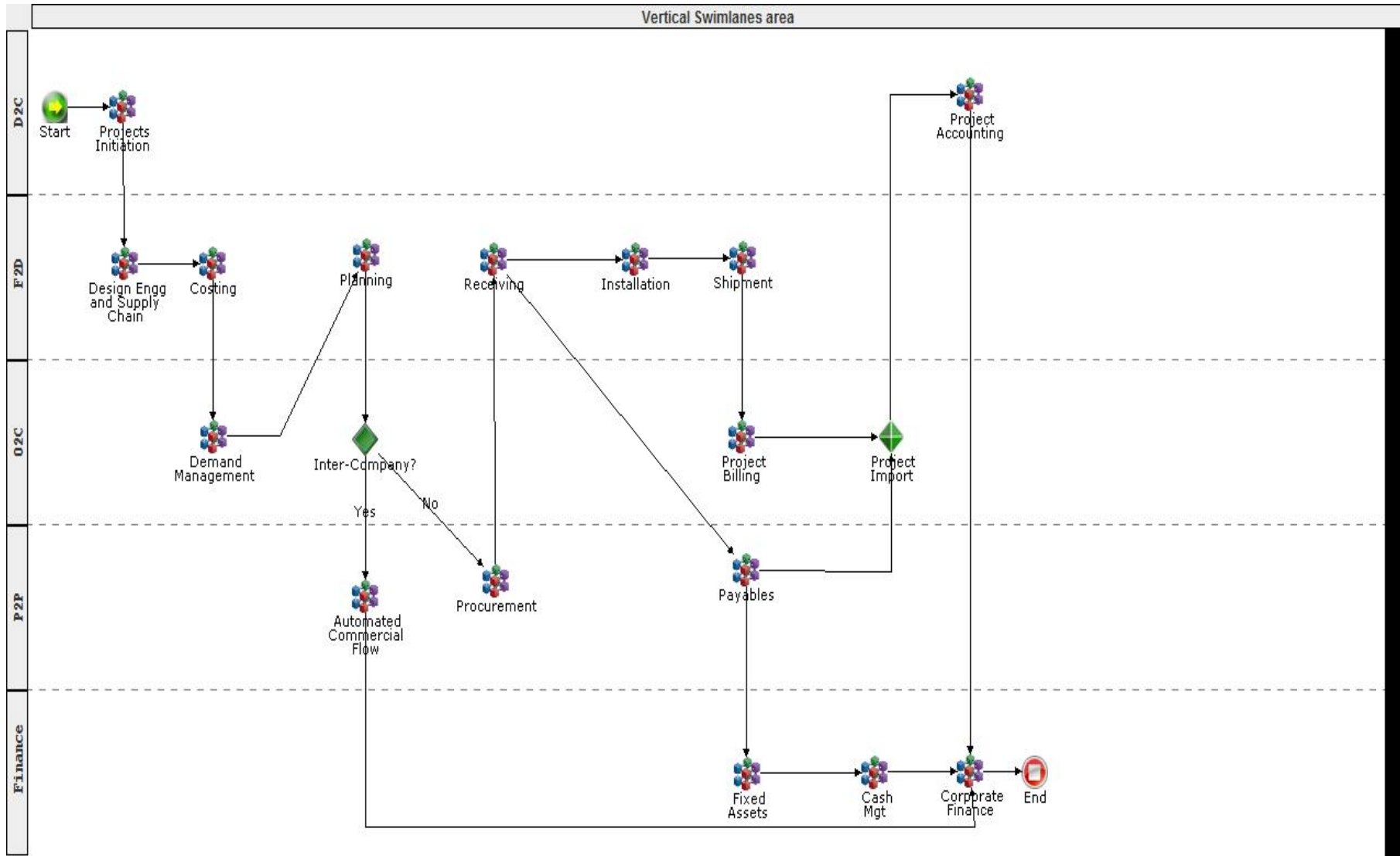
A. Change the Business Process Model to reflect the change , re-record using UI RnR and add it to the Test repository

Q. Can I use these scripts for other regression testing?

A. Depends. For example, iProcurement PO approval process is fungible however B2C Sales Order Creation vs EPC Sales Order Creation follow totally different flows vis-à-vis the mandatory DFF fields and values.

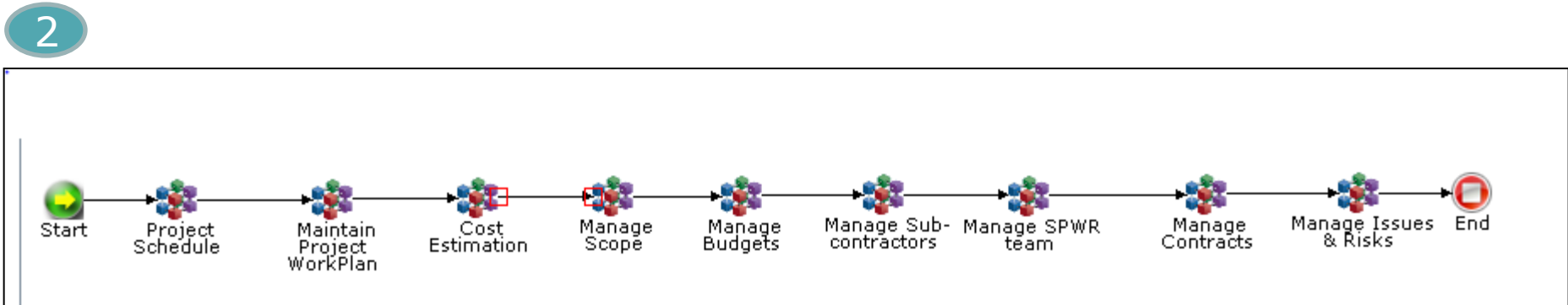
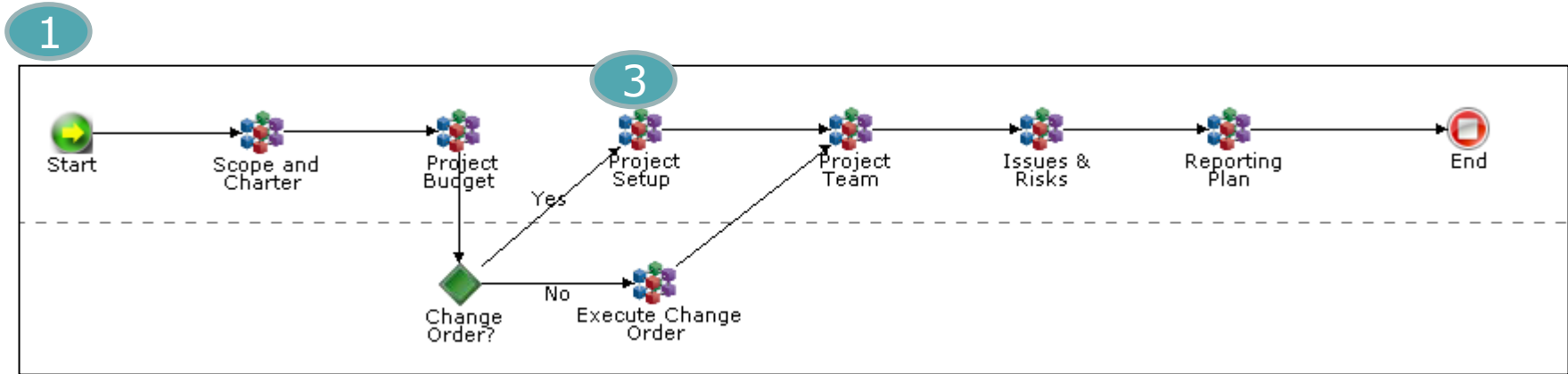
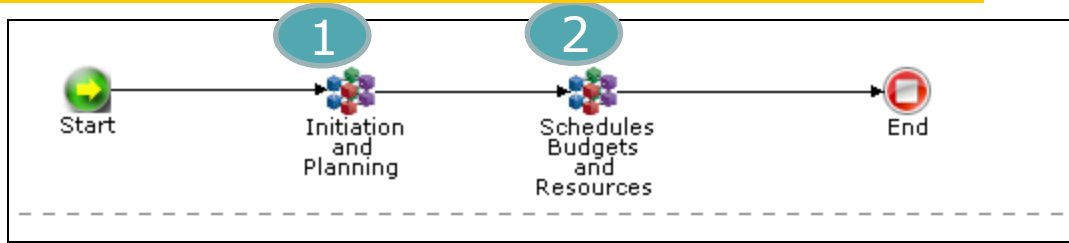
# Appendix

# Level 0 Flow : *Sample Only*



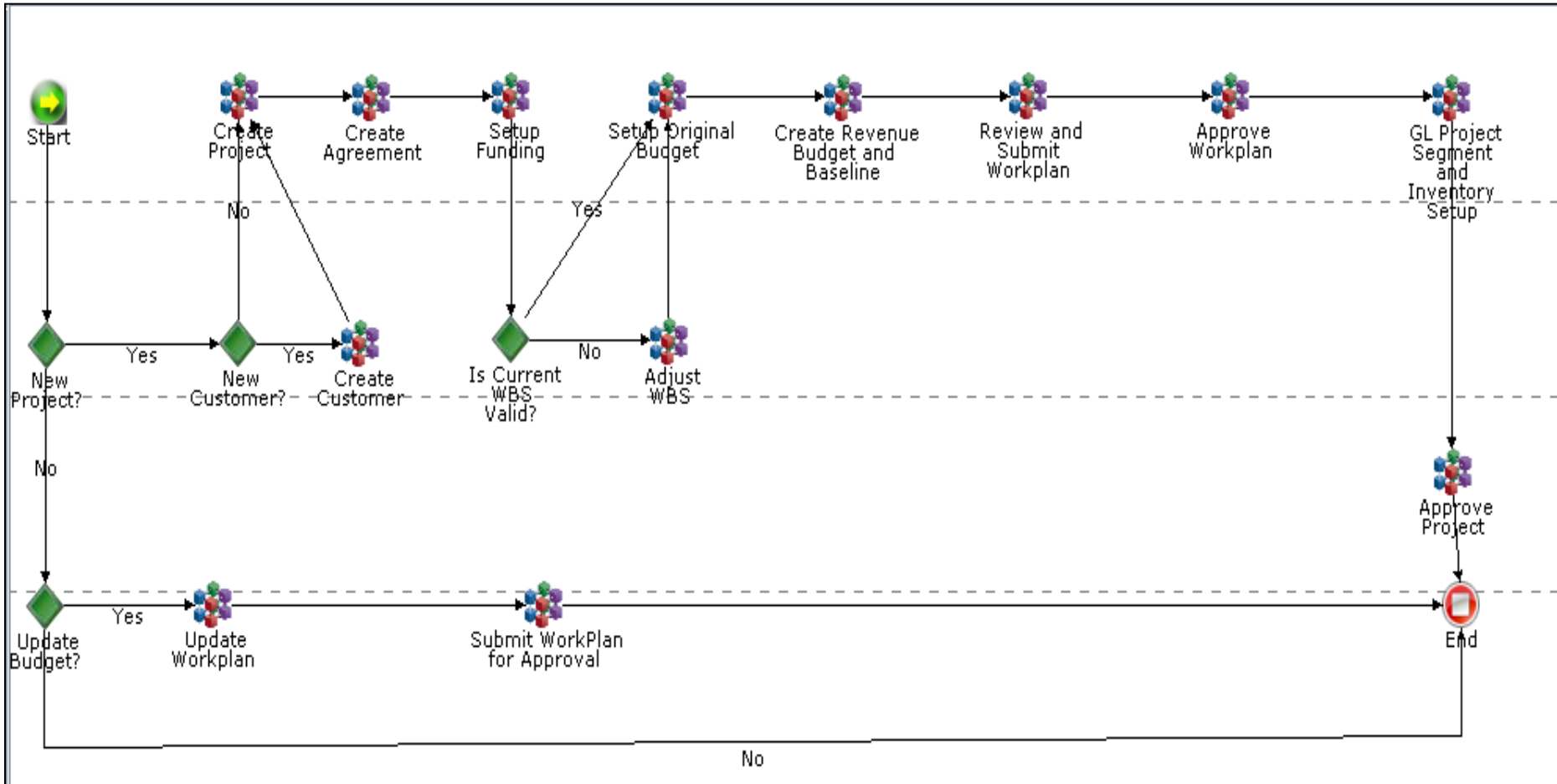


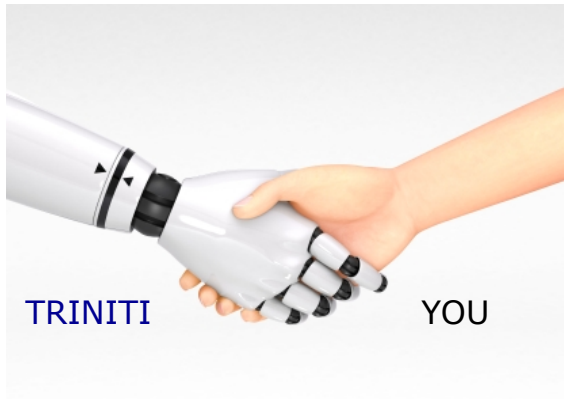
# Level 1 Flow : Project Initiation Sample



# Level 2 Flow : Project Setup Sample

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