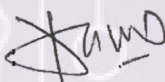
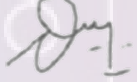

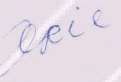


Acknowledge	Approved	Checked	Prepared
			
Daniel D -EMD GM-	FX. Dwi Anta -Dph TPMETK-	Bambang S	Ari Djunaedi

## Suggestion System

# PRODIGY VA

**PT. Toyota Motor Manufacturing Indonesia**  
**Engineering Management Division**  
**Technical Planning, Material Engineering and Technical Kaizen Dept**  
**Technical Kaizen Section**

# I. Employee Profile

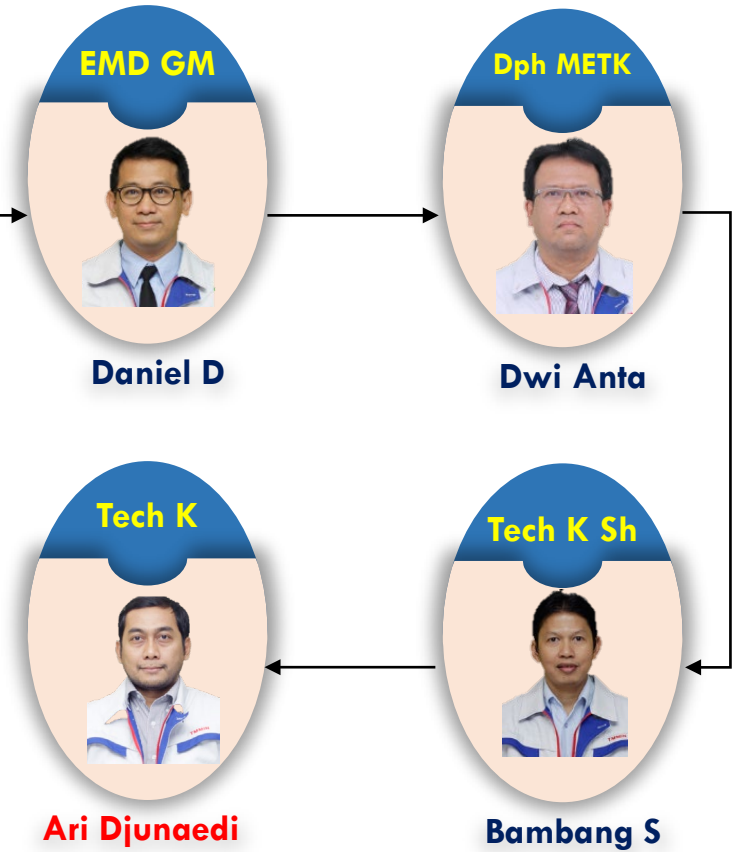


**North Jakarta  
Head Office**

**PT. Toyota Motor Manufacturing Indonesia**  
**JL. Laks Yos Sudarso Sunter II**  
**Engineering Management Division 6th floor**  
**Technical Planning, Material Engineering and Technical Kaizen Dept**  
**Technical Kaizen Section**

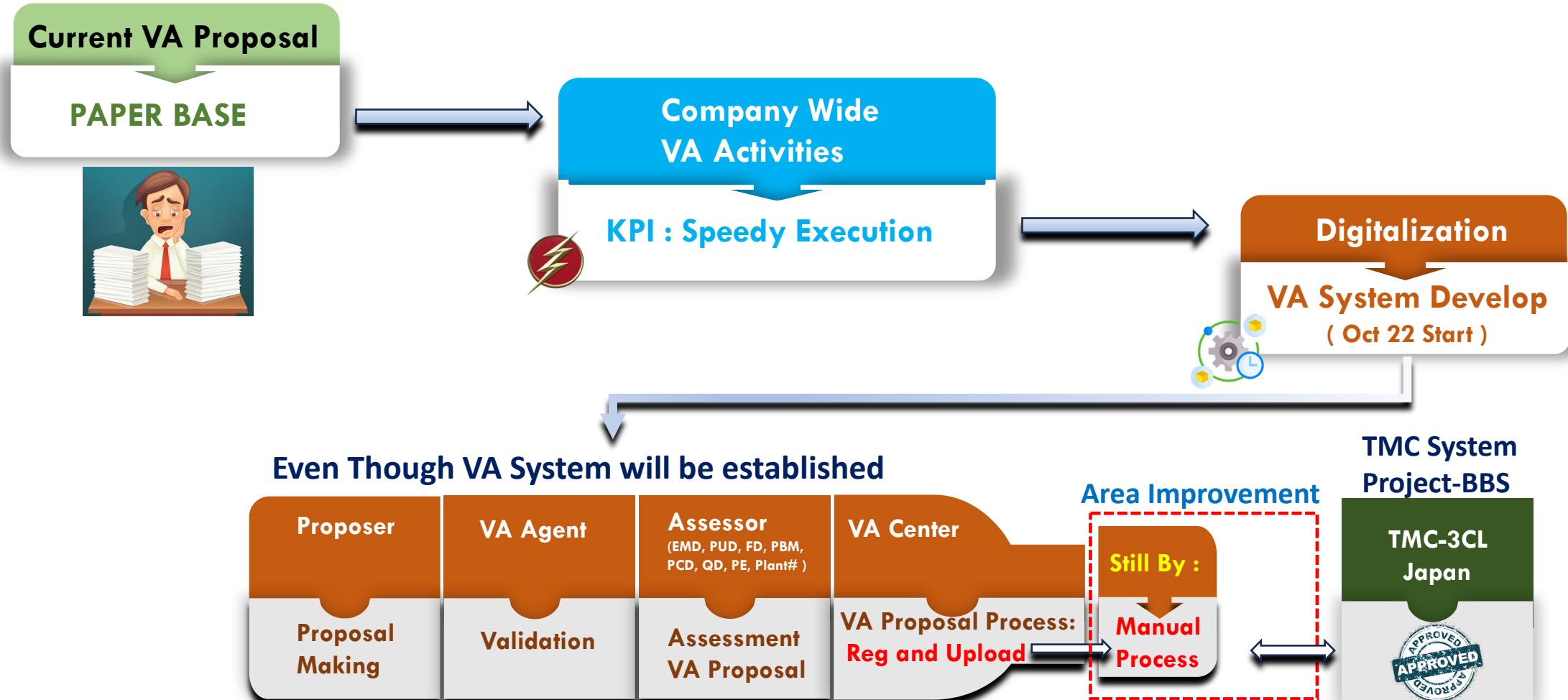
## Job Description :

1. Technical Engineering Management
2. Promote Company Wide VA Activity  
→ Speedy VA Execution



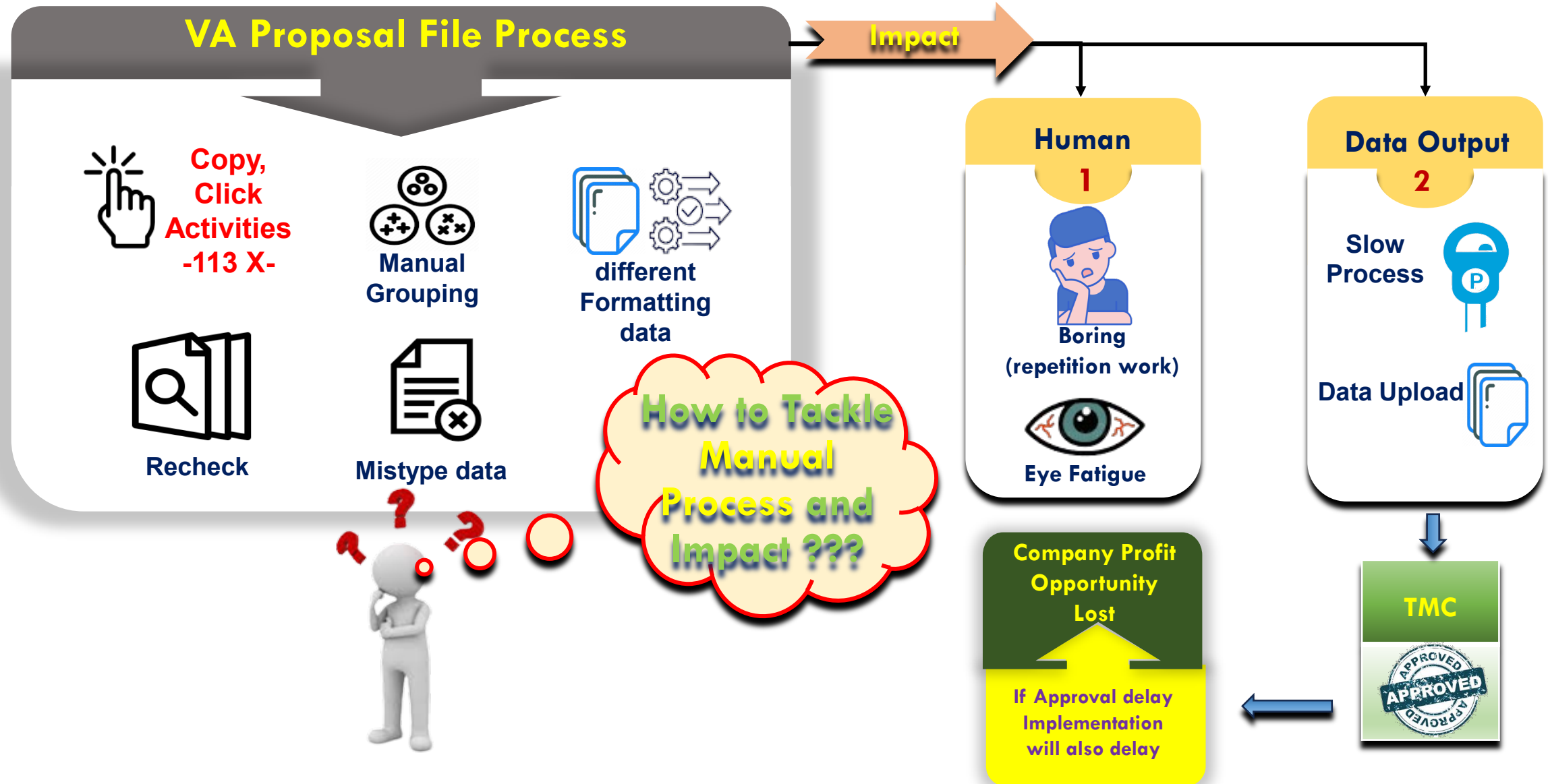
## II. VA Center Activities Preview

“Manage, control and **Process VA Proposal Idea** from TMMIN manufacturing (Inhouse) and Supplier(Outhouse)“

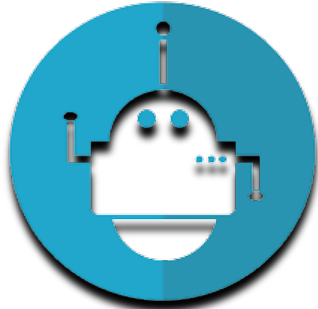


Note = VA Proposal : Idea Cost Reduction

### III. VA Process Paint Point



## IV. Idea Creation Found



RPA Training  
12/13/14/19  
September 2022



### Get Knowledge

**Robotic process automation (RPA) :**  
is a software technology that makes it easy to build, deploy and manage software robots that **emulate humans actions** interacting with digital systems and software



### Likes

Click, Open Files, Open Folder, Convert Data, Copy, Paste, open browser, login etc.

I Think ! RPA can  
handle VA  
Proposal Manual  
Process



#### Current :

Manual  
Process



#### Improvement



Digitalization  
with RPA

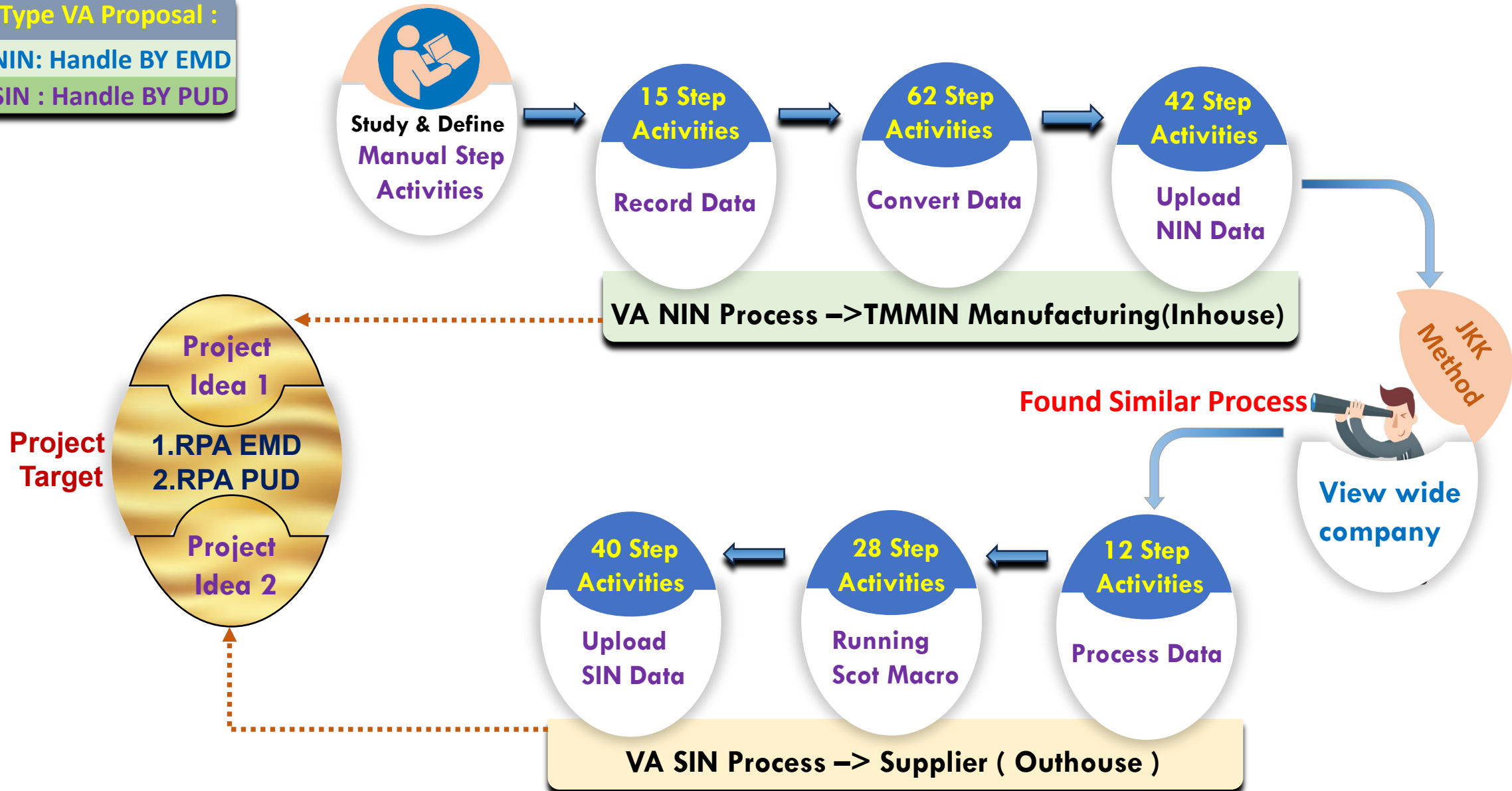


## V. Project Idea and target Implement

### Additional Info

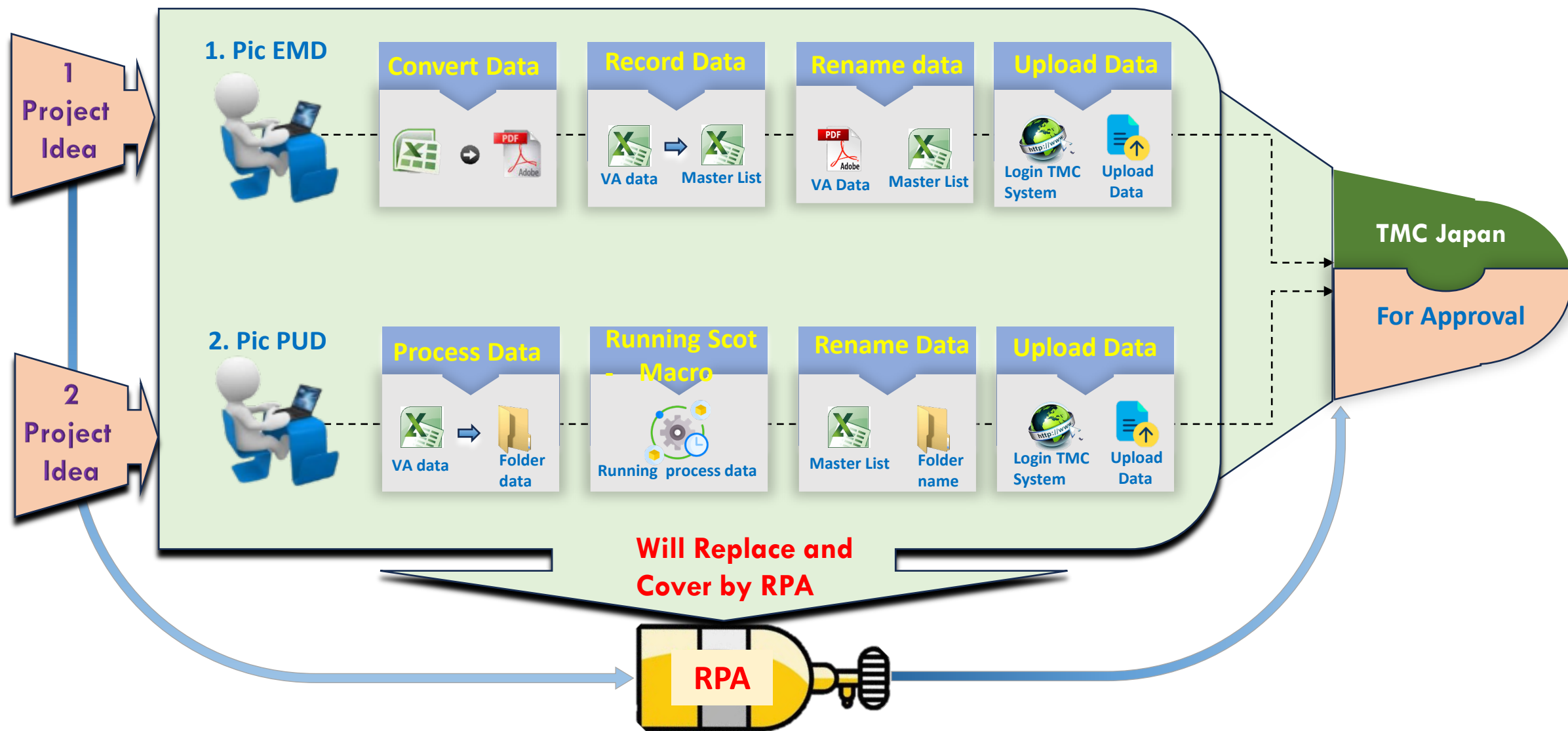
2 (two) Type VA Proposal :

- 1. NIN: Handle BY EMD
- 2. SIN : Handle BY PUD





# VI. RPA Project target Implement covered Process

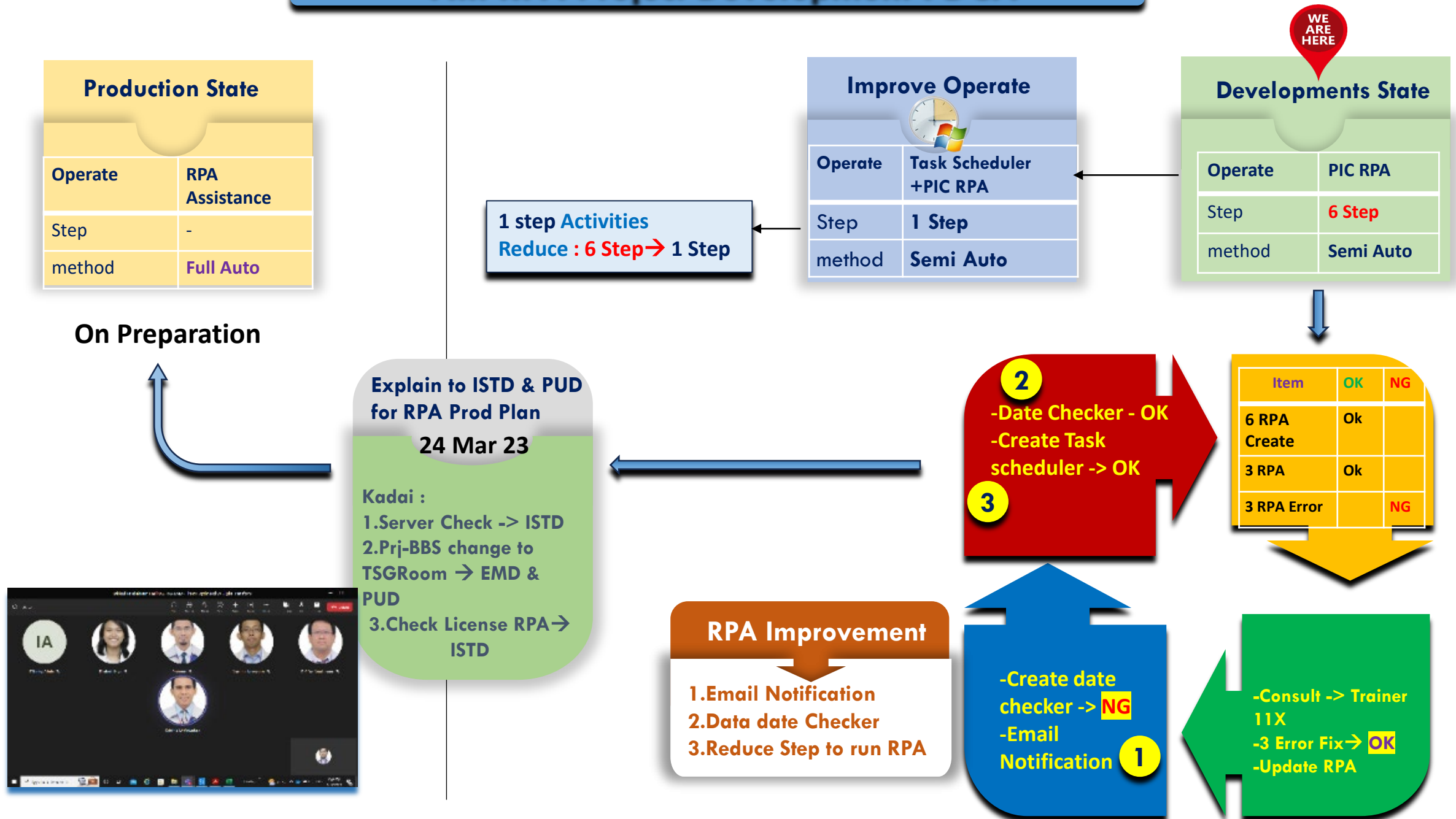


## VII. RPA Project Development

Activities	Schedule		Remarks	Next
	2022	2023		
RPA Training	12, 13, 14 and 19 September		Online Training Teams	Request advance Training
RPA EMD	Start Mid November	Until Mid February	Online Dev	Study for RPA Production
RPA PUD	Start End Of December	Until End Or March	Online Dev	Study for RPA Production
RPA Enhance		9 May 2023	Gathering info	Set Meeting to the PIC In charge
BNF		Mid Of April	Upload VA Data Change(TMC)	Study for new system upload
RPA->TSGRoom		Mid Of May	Meeting with TMC-CL ( VA Manage )	New dev RPA for upload data
RPA->VA-Box		Mid of May	Meeting with TMC-Purchasing	New dev RPA for upload data



# VIII. RPA Project Development PDCA

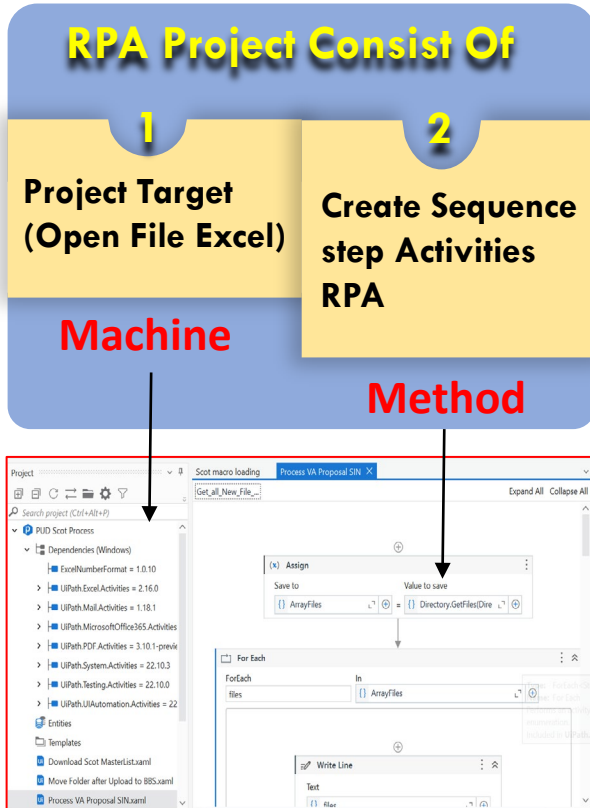


## IX. RPA Project Improvement ( Before )

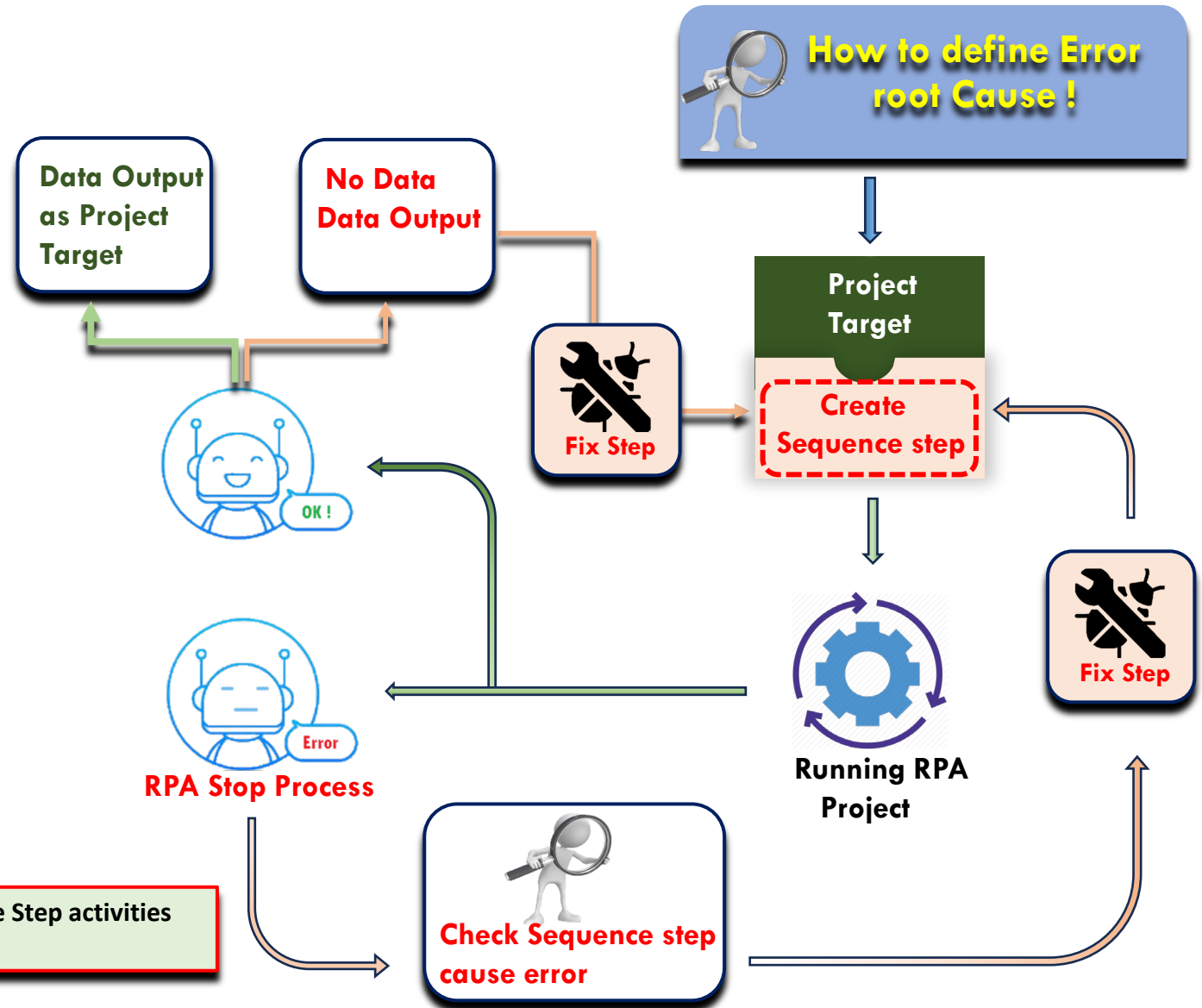
Project Item	Error Found	Cause	Classification			Running Result
			Apps	Parameter	browser	
1.Record Data	Can't open folder file	No Folder path	O	X	O	NG
2.Upload Data	-Can't select file	Windows popup to small	X	O	O	NG
	-can't login to Project-BBS	Take to long to open browser url	O	O	X	NG
3.Running Macro	Macro not Finish run	Windows macro to small	X	O	O	NG
4.Record Data	Open every data excel	Take need time if file alot	O	O	O	OK
5.Running Macro	Still many step in rpa activities	Many path to be select	O	O	O	OK
6.Task Scheduler	Still not fully auto to run RPA	Need 1 click to star RPA	O	O	O	OK

# X. RPA project how to define Error Root Cause

## RPA Project Preview



**Note : All Error found must check in the Sequence Step activities then Fix, Update or add Activities**



# XI. RPA Project Improvement ( After -> Error Fix)

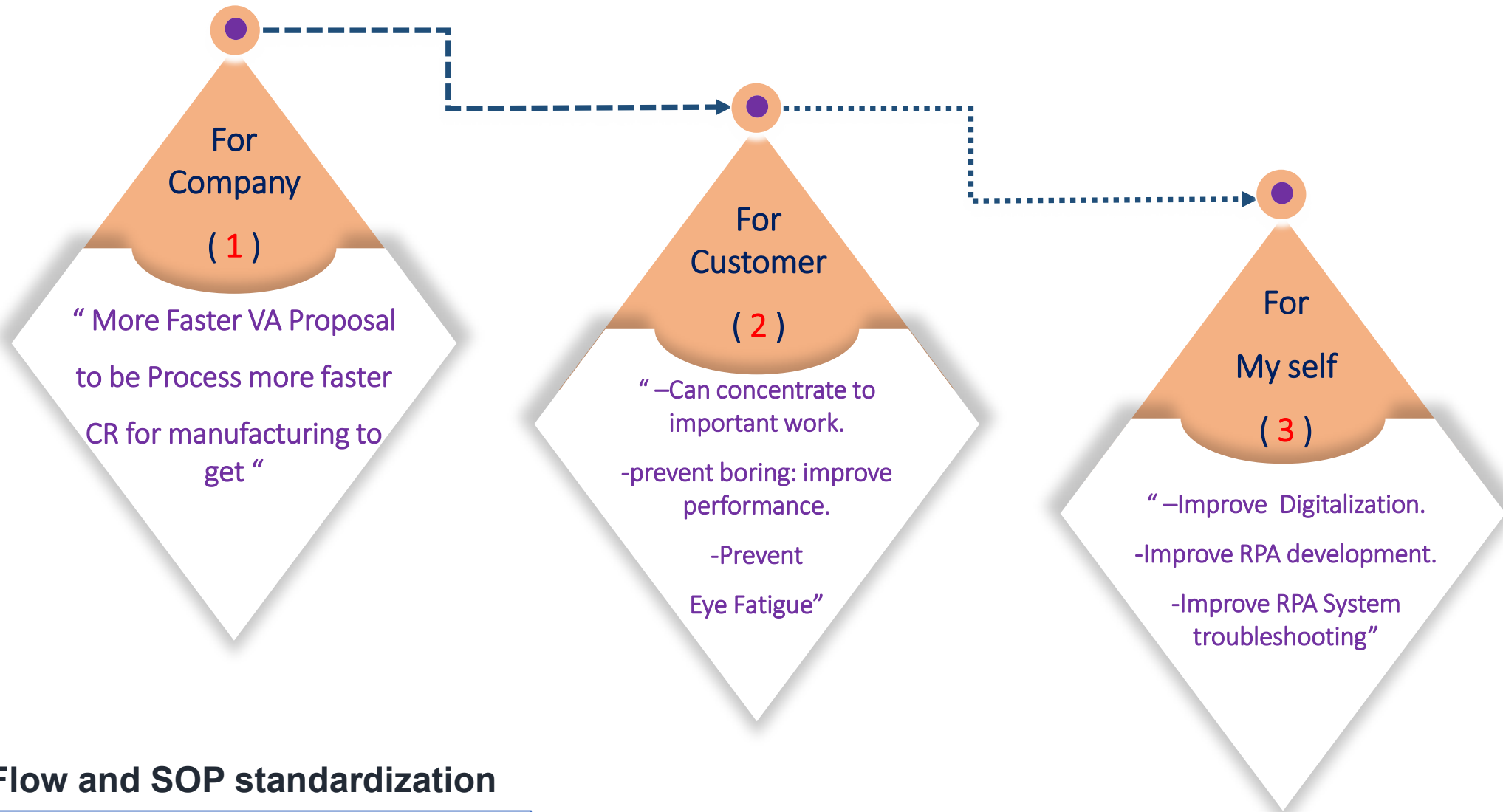
Project Name	Error found	Cause	Error Fix	Classification			Running result
				Apps	Paramete	browse	
1.Record Data	Can't open folder file	No Folder path	Add folder path in parameter RPA activities	O	O	O	OK
2.Upload Data	-Can't select file	Windows popup to small	Add scroll down activities	O	O	O	OK
	-can't login to project-BBS	Take to long to open browser url	Add delay activities	O	O	O	OK
3.Running Macro	Macro not Finish run	Windows macro to small	Add click maximized windows activities	O	O	O	OK
4.Record Data	Open every data excel	Take need time if file a lot	Study excel application scope activities	O	O	O	OK
5.Running Macro	Still many step in rpa activities	Many path to be select	Study shortcut path activities	O	O	O	OK
6.Task Scheduler	Still not fully auto to run RPA	Need 1 click to star RPA		O	O	O	OK

## XII. RPA Implement and Result

Division	Step Activities		Time Comparison Hour		Hour/Cost save		Process/Operate	
	Human	RPA	Human	RPA	Hour	Save	People	RPA
EMD	133 Step	6 Step	0.25	0.8	0.25	335K	1 person	-
Yokoten to others Division								
PUD	97 Step	6 Step	0.33	0.1	0.33	377K	1 person	-

Note : 1 Cycle File Processing

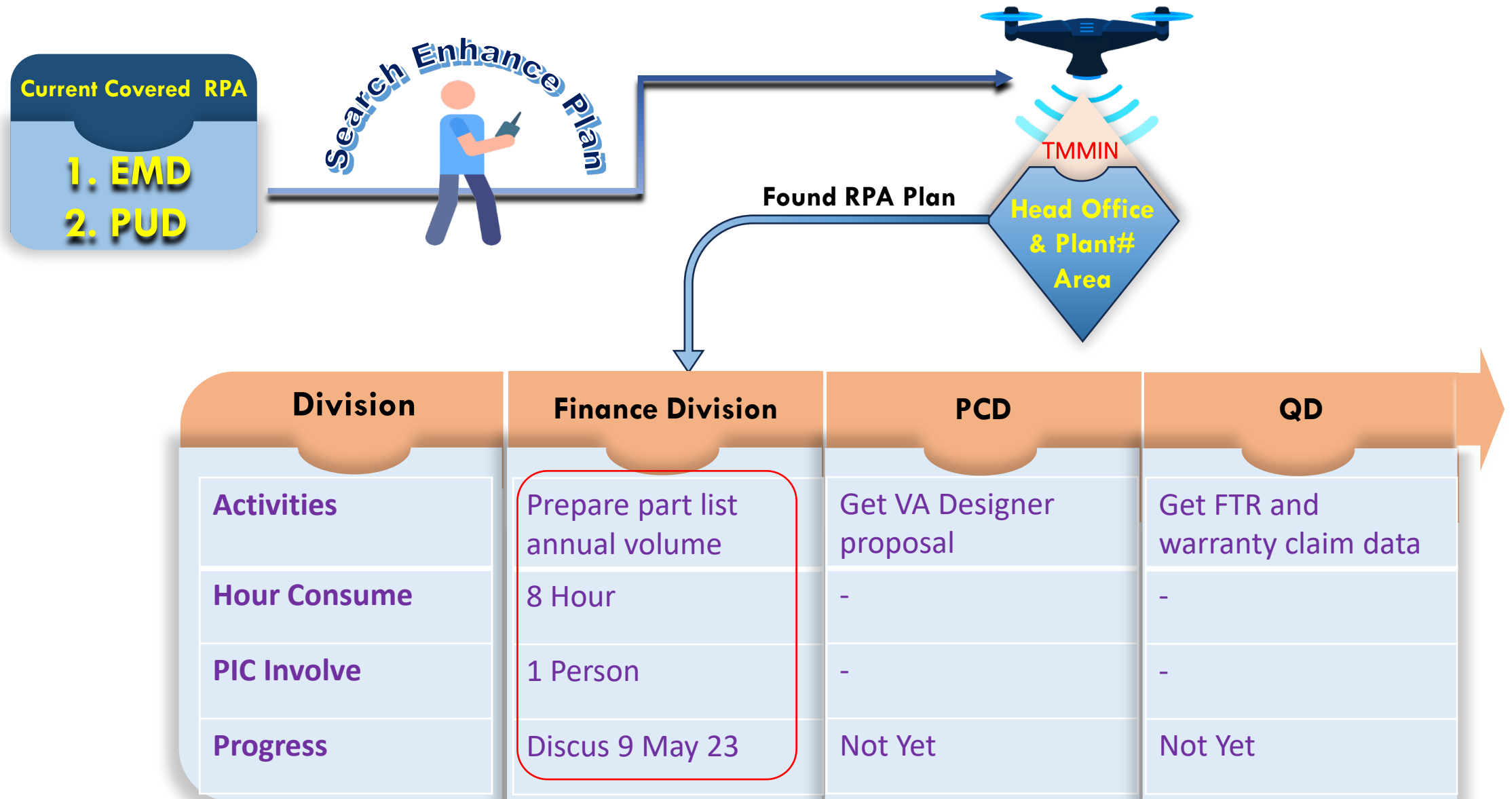
### XIII. Others Benefit



RPA Flow and SOP standardization

[23-ED-SOP-0001-RPA Flow Process](#)

## XIV. RPA Enhance Planning







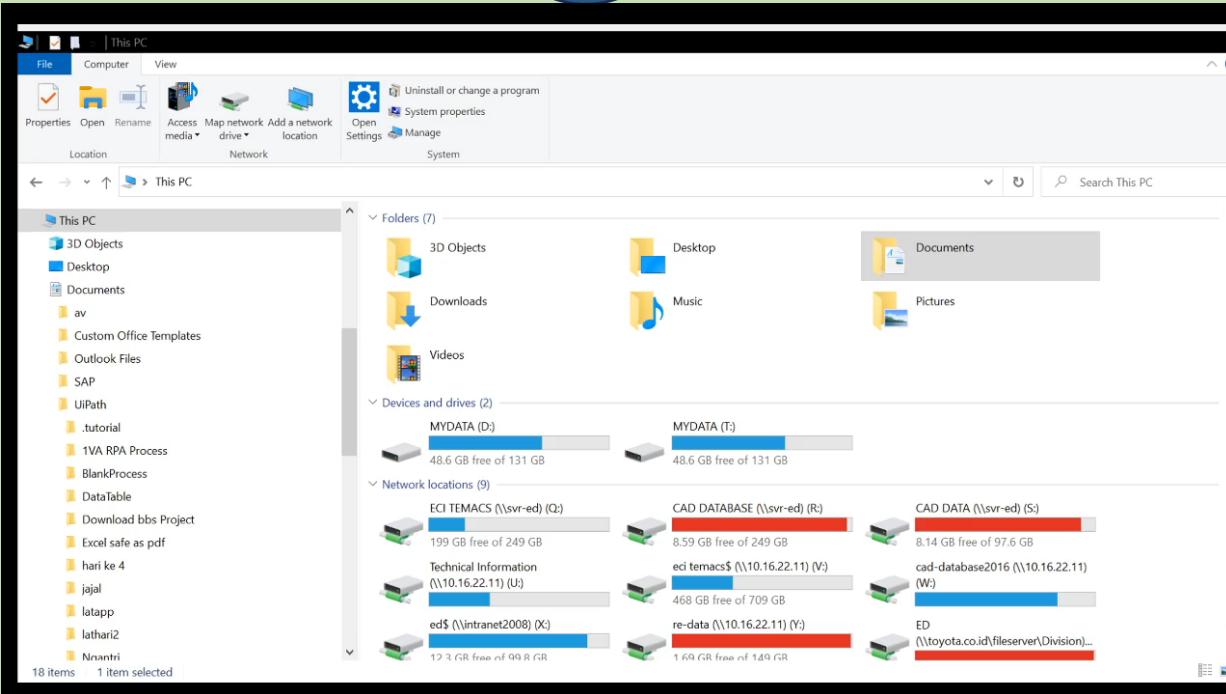
**Thank  
you!**

**This is the end of Our Presentation**

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# Movie Comparison

## Manual Process



## RPA Process

