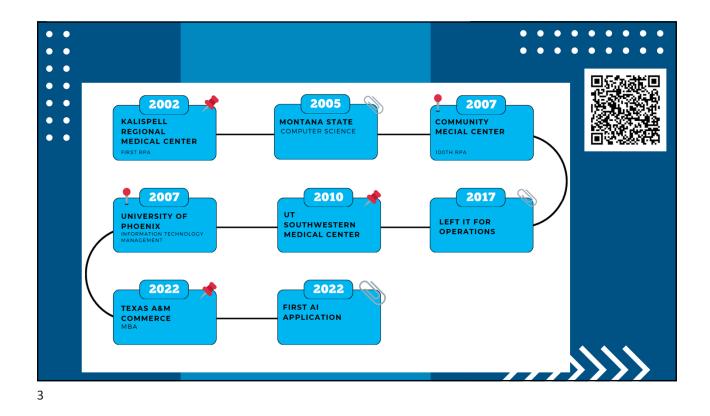
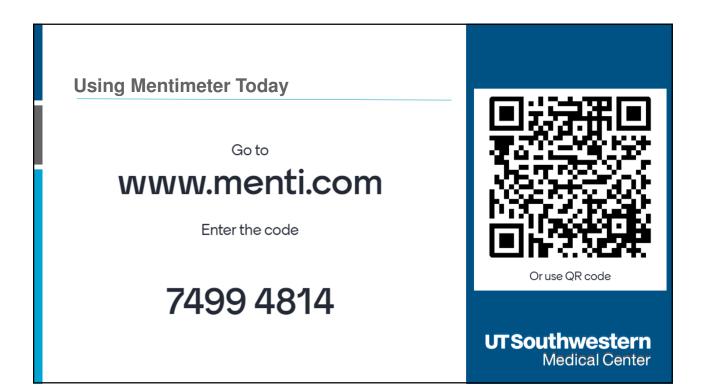
### UT Southwestern Medical Center

## **Robotic Process Automation** in Healthcare

Transforming Operations for the Future

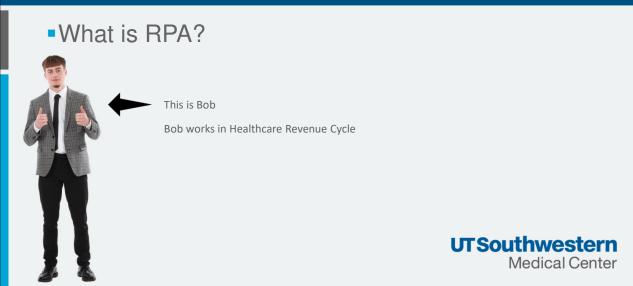


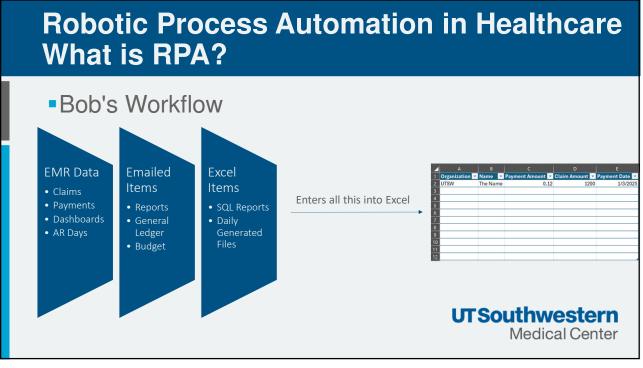






## **Robotic Process Automation in Healthcare** What is RPA?





### **Robotic Process Automation in Healthcare** What is RPA?

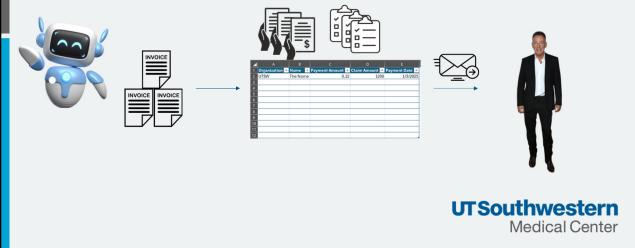




UT Southwestern Medical Center

### **Robotic Process Automation in Healthcare** What is RPA?

Bob has found Robotic Process Automation!



# Robotic Process Automation in Healthcare So what is it exactly?

What it is:

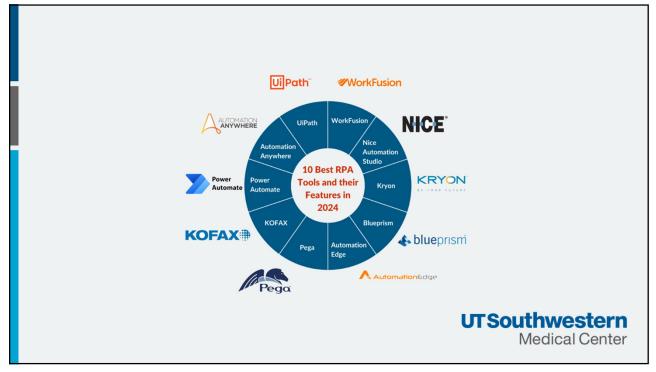
- · Software developed by humans to replicate tasks
- Tool for assistance of Repetitive Tasks
- Simplification Devices

What it is not:

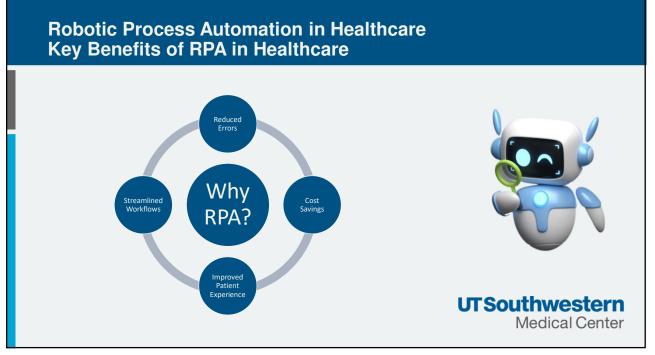
- Not a physical form robot
- Not a replacement for Human Workforce
- Not a critical thinking machine

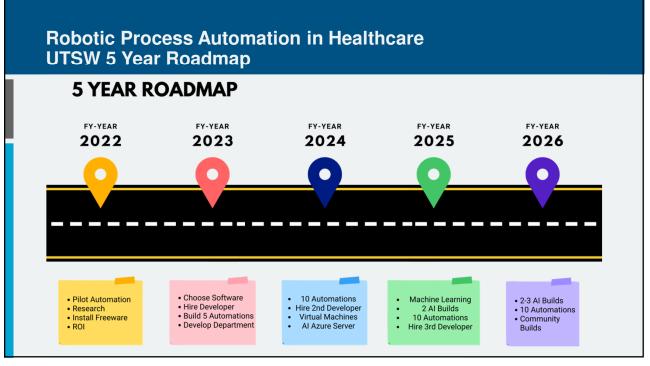


UTSouthwestern Medical Center









**UTSouthwestern** 

**Medical Center** 

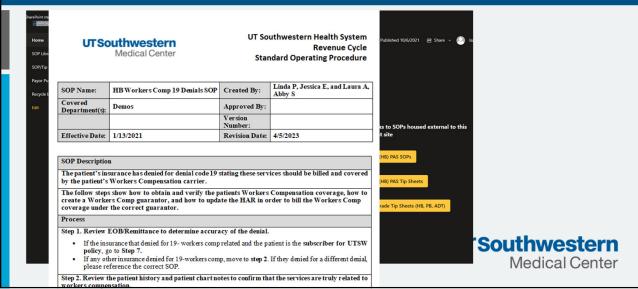
## Robotic Process Automation in Healthcare Awesome, So What Do We Automate?

- Inventory your Processes (SOP Library)
- Evaluate Tasks Using Key Criteria
  - o Repetitiveness
  - Time Consumption
  - Complexity vs. Standardization
  - Risk or Error Rate
  - Impact on Productivity
  - Cost-Benefit Analysis
- Prioritize Potential Automation Projects
- Conduct a Proof of Concept (Pilot program)
- Refine and Scale
- Measure Results and Continuously Improve <-- We are here</li>

15



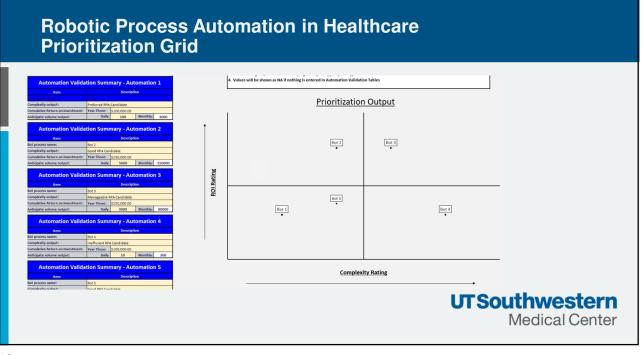
## **Robotic Process Automation in Healthcare SOP Library**



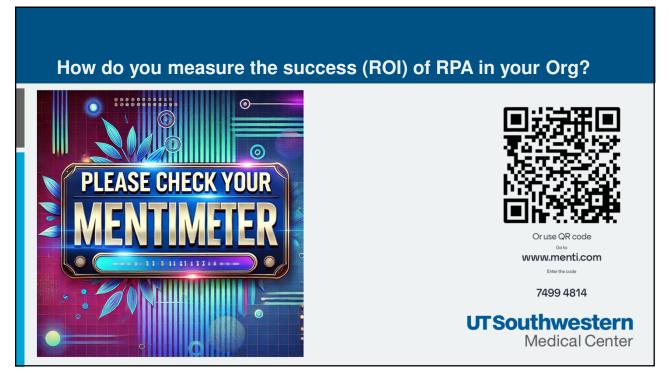
17

#### Robotic Process Automation in Healthcare Return on Investment Toolkit

	UTSV Return on Invest						
	Automation Der	nographics					
Intent: This section represents important demographic information of ea Directions: 1. Please complete the fields below. Refer to notes where applicable.	ch automation to be used in delibera	ation.			4.08		
Item		Description/I	Response		\$ 367,500.00		
Authoring organization name:							
Revenue Cycle Process:			Other:		s -		
Automation Tool/RPA Platform:			Other:				
Hospital Billing or Physician Billing:			Other:				
Primary application being automated:			Other:				
Insert environment for client applications:			Other:			nation implementation)	
Insert environment restrictions/prequisites:							
Select desired bot process from drop down:			Other:				
Automation description:							
Has a native, non-RPA, solution been pursued?	Description:						
Select desired process schedule and frequency: (If other, or specific configuration required, list in "Other" Section)			Other:				
Select anticipated input list source:			Other:		1	nation)	
				U	<b>rSo</b>	uthweste	e
						Medical Ce	







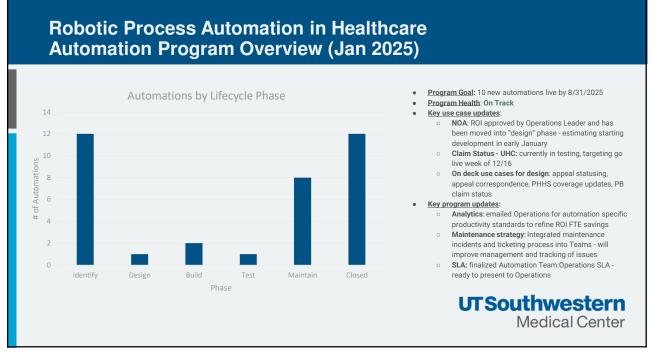
## Robotic Process Automation in Healthcare Great, Mike what did you Automate?

- Medicaid Look up
  - o 18,000 Patients looked up monthly between 4 staff members
  - $\circ$  Time to look up a patient ranged from 2 7 minutes (average of 3.5)
  - We broke down the cost, 260 working days 137 tasks per day (35,620)
    - Annual Salary 55,000
    - 55,000 / 36,620 is roughly \$1.54 a task
    - Monthly FTE savings is \$22,000
- EKG Charge Modifications
  - o Review EKG charges Determine Modifier (Same Day/Provider)
  - Time to complete 1 minute
  - o Volume 27000 a month
    - Task breakdown is \$1.90
    - Monthly FTE savings at \$25,000

#### UTSouthwestern

Medical Center

21



#### Robotic Process Automation in Healthcare ROI to Date (Jan 13, 2025)

AUTOMATION_NAME	2019	2020	2021	2022	2023	2024	2025	Total
TMHP Medicaid	\$44,000.00	\$264,000.00	\$264,000.00	\$264,000.00	\$264,000.00	\$264,000.00	\$22,000.00	\$1,386,000.00
Chaco/Paco				\$84,000.00	\$252,000.00	\$252,000.00		\$588,000.00
EKG Charge Modifier					\$2,986.80	\$253,650.00	\$11,715.40	\$268,352.20
Referrals Epic						\$36,536.50	\$3,286.25	\$39,822.75
Interface Errors						\$34,616.15	\$1,135.05	\$35,751.20
MSA Redistribute					\$226.00	\$5,386.00		\$5,612.00
Referrals Availity						\$2,255.00	\$176.00	\$2,431.00
MSA Offset					\$398.00	\$612.00		\$1,010.00
Medical Record Epic Download						\$709.65	\$78.85	\$788.50
Medical Record Epic Post Note						\$344.45	\$16.60	\$361.05
PB Adjustments						\$183.00		\$183.00
Medical Record Availity Upload						\$161.85		\$161.85
HB Adjustments						\$36.00		\$36.00
Total	\$44,000.00	\$264,000.00	\$264,000.00	\$348,000.00	\$519,610.80	\$850,490.60	\$38,408.15	\$2,328,509.55
						UTSo		<b>estern</b> al Center

23

In one word or short phrase, name the biggest challenge your organization faces in implementing RPA





Go to www.menti.com Enter the code

7499 4814

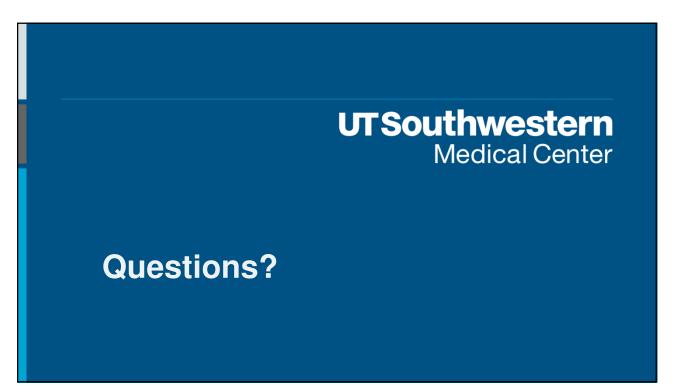
#### **UTSouthwestern**

Medical Center

#### Robotic Process Automation in Healthcare Current Barriers

Barrier	Details	Impact	Recommendation	Addressed in IR Initiative?
Unreliable machines	Frequent, unanticipated power outages at Brookriver VMs were included in the budget but funds have not been allocated	Automation downtime with difficulty anticipating resolution timeframe Operations must manually work accounts to avoid delays and backlogs once machines are back online	Utilize virtual machines rather than remoting into machines at Brookriver Michael received approval on this request but has run into fund allocation delays	Yes
Access barriers	Cannot install extensions (e.g. google authenticator for multi factor authentication) on Managed machines	Automations involving Availity must run on unmanaged machines (not recommended)	Approve google authenticator as an extension on selected machines for automation program	Yes
Epic build delays	There have been delays in tickets for Epic optimizations that impact volume inflow for our existing or new automations (e.g. PB and HB medical records)	Very low R0I for PB medical records automation and inability to move forward with HB medical records automation	Prioritize ticket with Epic IR due to positive impacts on automation return	Yes
Norkflows lacking standardization	Lack of standardization in targeted workflows (e.g. free text diagnosis codes impacting NOA and referrals automations)	Low ROI/not a candidate for continued pursuit	Prioritize process improvements and standardization efforts when surfaced by automation program Assign a resource for automation team to work with on PI efforts	No

UTSouthwestern Medical Center



## UT Southwestern Medical Center

**Michael Laukaitis** 



