



City of Fort Worth's Automation Journey

2019 TEXAS GOVERNMENT DATA FORUM

Kevin Gunn
Thomas Ortiz

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Presenters



Kevin Gunn

CTO and IT Solutions Director
City of Fort Worth



Thomas Ortiz

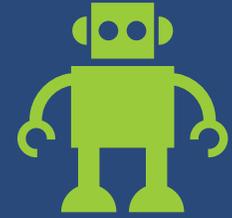
Partner and Public Sector Vertical
Lead
Information Services Group

Robots today are working in the City



Agenda

- How did the automation journey start?
- What is robotic process automation?
- What can it do...for the City of Fort Worth?
- Where did we first apply RPA?
- What's next?



How did the automation journey start?

Overall Change in the Market by Wave

City of Fort Worth in 2007 had not reached Wave 1



In 2018 the City has launched its RPA Program as a first step into Connected Machines



- Networking – Internet
- Digital infrastructure plays – computers, telecom/content
- Enterprise systems (ERP, CRM)

- Digitization of transactions – retail, banking
- Social networking
- Mobile & sharing economy

- Internet of Things – auto, aero, industrial, energy
- Rapid automation of activities & decisions using algorithms

Disruptors



Disrupted



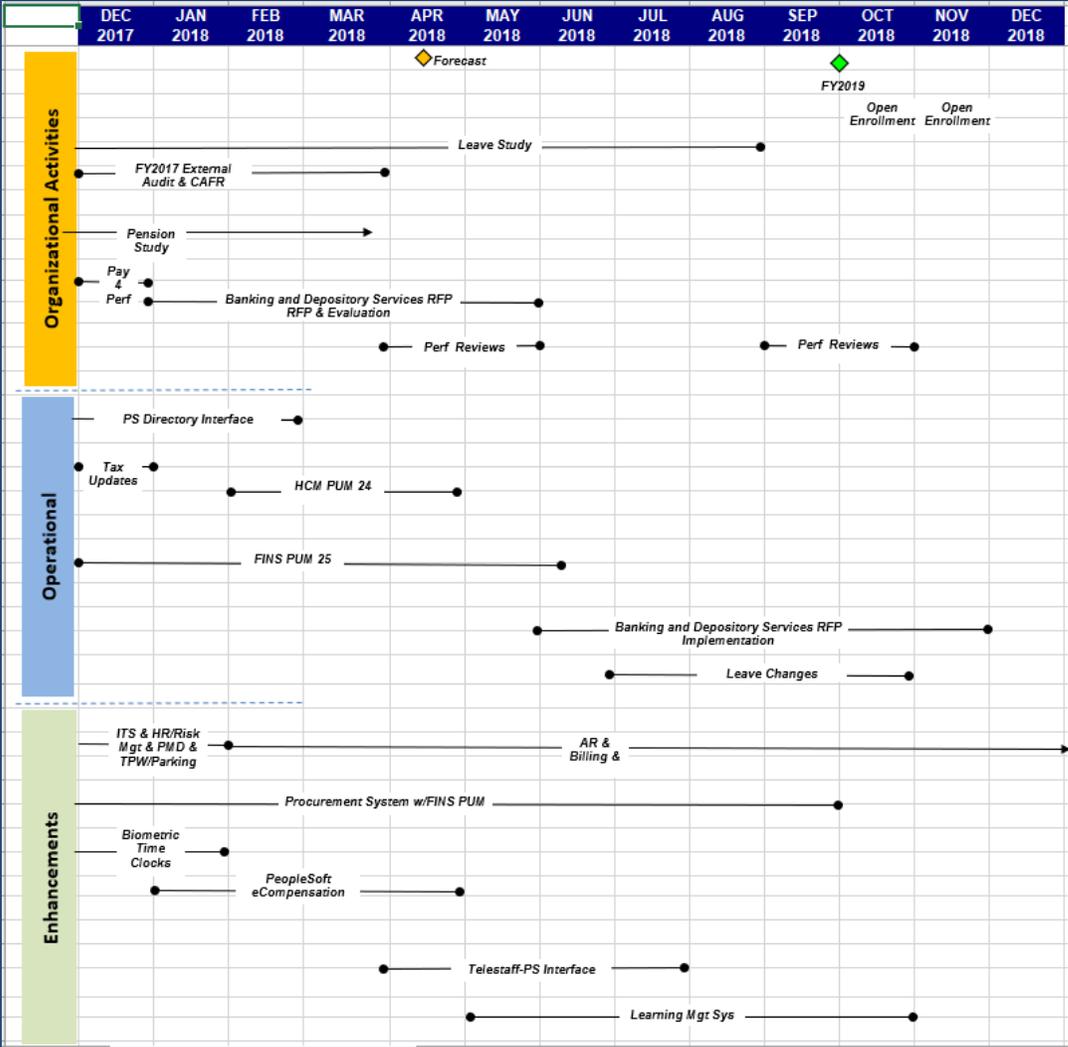
Source: ISG Research

Governance Enables Technology Adoption

Organizational Activities
(e.g. annual audit, open enrollment)

IT Operational
(e.g. ERP system updates, tax updates)

Enhancements
(e.g. new modules & system projects)



Municipal Level Challenges

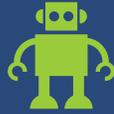
Municipal environments today are presented with significant challenges:

- Attracting industry and jobs;
- Managing the associated growth;
- Addressing pressures on existing infrastructure; and
- Meeting the expanding demands on City services while...

...rising pension and healthcare costs constrain the ability to increase staff

What is Robotic Process Automation?

Intelligent Automation



Robotic Process Automation



OCR/Image Recognition



Natural Language Processing



Cognitive Reasoning

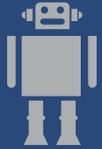


Conversational Artificial Intelligence

	Robotic Process Automation	OCR/Image Recognition	Natural Language Processing	Cognitive Reasoning	Conversational Artificial Intelligence
Current Usage	High	Medium	Low	Low	Medium
Implementation Effort	Low	Low	Medium	High	High
Cost	Low	Low	Low	High	Medium
Benefits	High	Low	Low	Medium	High
Process Penetration	High	Low	High	High	Medium

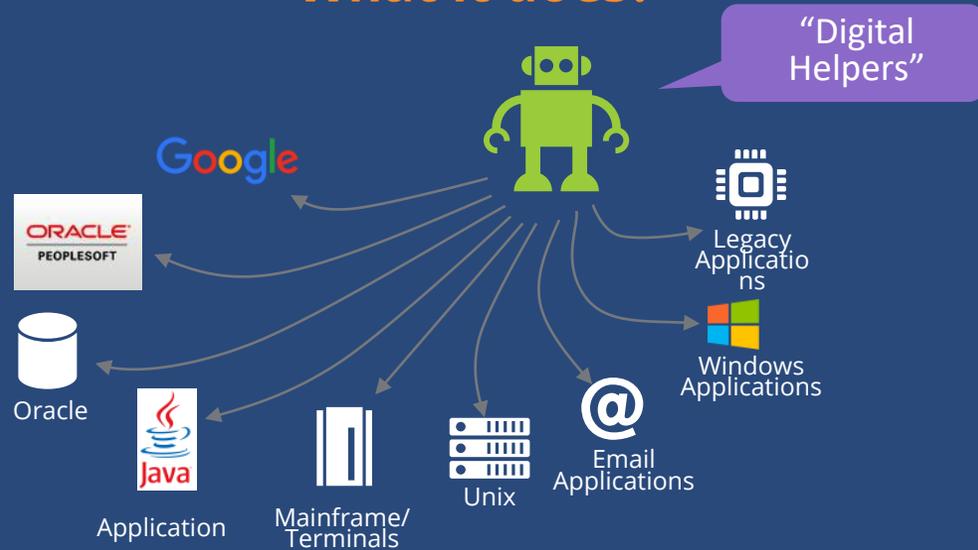
Robotic Process Automation Overview

What is it?



Software Platform

What it does?



Automatically executes manual, routine tasks that we have people doing today

Where does it work best?

- Structured data found in applications
- Activities with clear rules
- Space between applications where manual steps occur

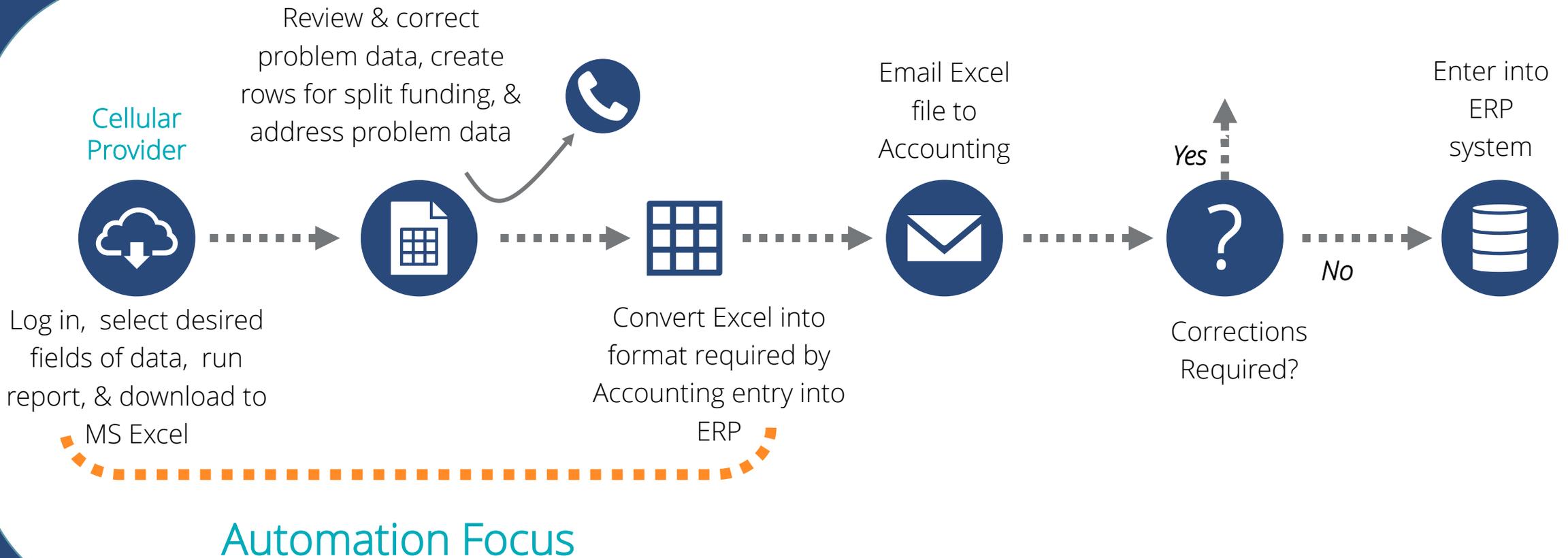
What are the benefits?

- Improves efficiency
- Improves compliance
- Reduces errors
- Reduces proliferation of more manual, uninteresting tasks

What can RPA do...for the City of Fort Worth?

City of Fort Worth RPA Phase 1

Cellular Cost Allocation Process



Automation Demonstration

What we saw in this opportunity

- Quick development
- Follows existing processes
- No interfaces
- No modification of existing systems
- General purpose applicability
- 24 x 7 x 365 schedule

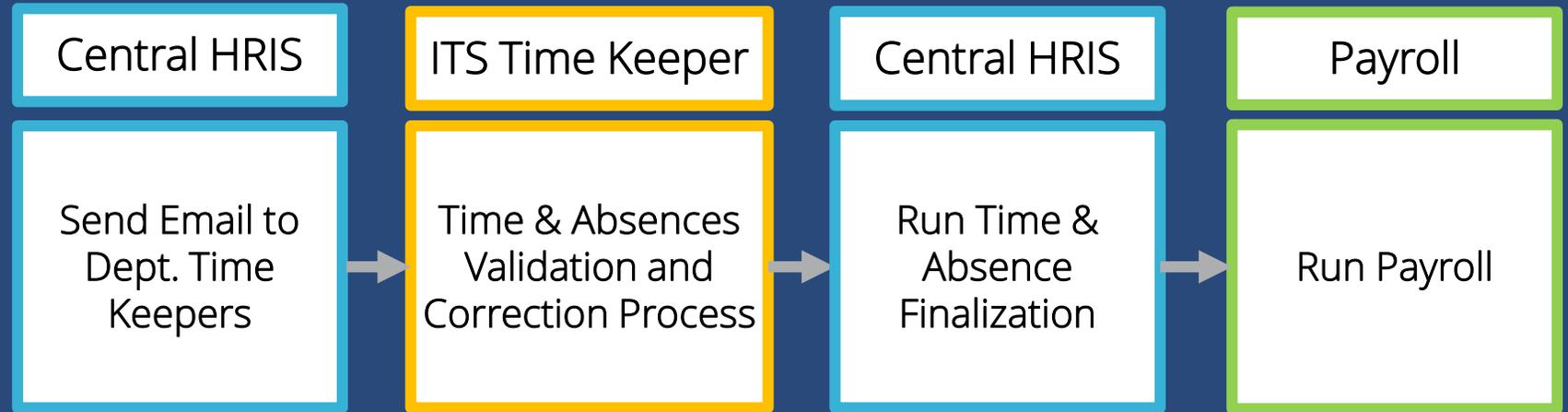
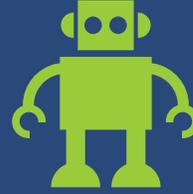
....most importantly we can reimagine IT

Where did we first apply RPA?

City of Fort Worth Production Bot

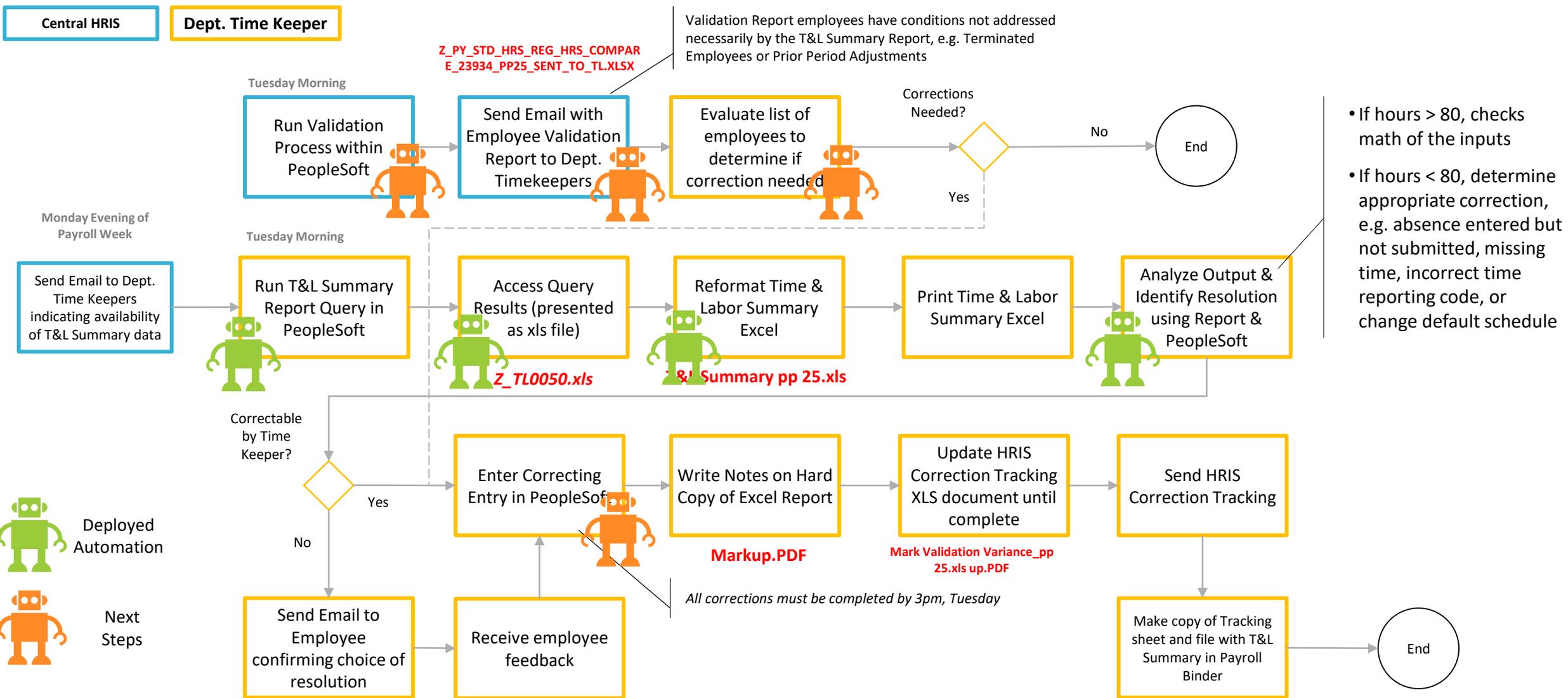
Bi-Weekly Review of Time and Absence Records for Corrections

- Payroll is important
- Meeting the 3pm deadline is important
- Over 100 time keepers across the City doing something similar to ITS



Bot is live in IT and working with PeopleSoft HCM

Time Keeper Correction Process Overview



Calendar

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 0	Installation			Process Interviews	
Week 1	Process Design Activities		System Design Activities		
Week 2	Labor Day	Automation Development			◆ Sprint Review
Week 3	Automation Development				◆ Sprint Review
Week 4	Automation Development			◆ Sprint Review	End to End Testing
Week 5	End to End Testing		User Acceptance Testing		

Why RPA Matters to Public Sector

Challenges For Public Sector

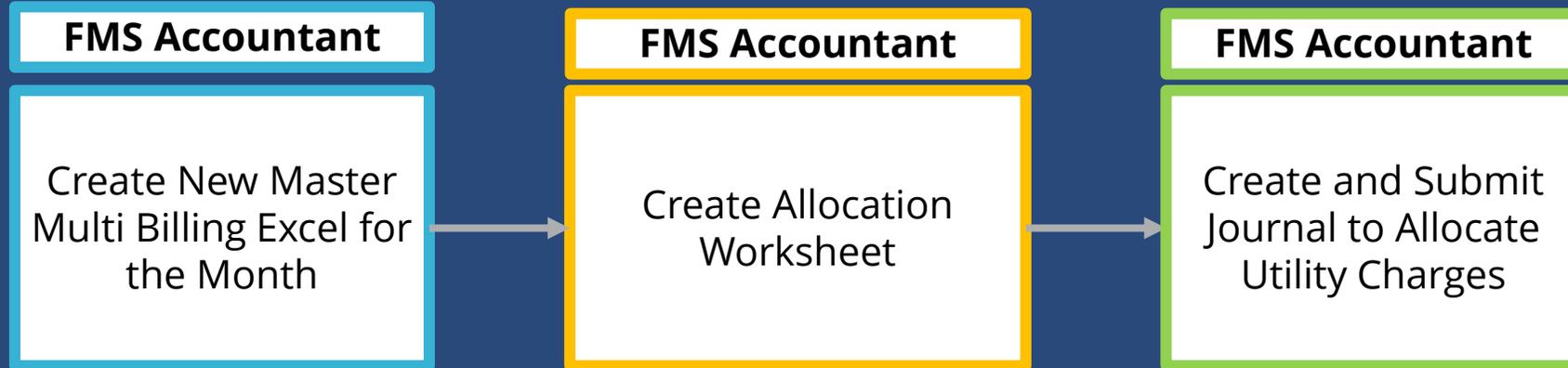
- More work “on the plate” than staff size and skills can typically support
- Inconsistent policy/procedure compliance
- Labor intense, time-consuming processes for unintegrated systems that require humans to key data from one to another
- Systems that were new at Y2K now aging; challenging upkeep, skill sets, repair and functionality
- Many important responsibilities get pushed back due to higher priorities or emergencies that arise
- Waves of experienced workers retiring
- Need “quick” return on investments to drive savings in budget year
- Enable technology improvements while preserving effective workforce and transitioning into digital future
- Citizens heightened expectations for seamless automation when interacting with governmental agencies
- Complexity of security, controls and auditability

RPA Advantages

- Automate business processes to relieve workers of routine and repetitive tasks, allowing staff to be repurposed to more urgent matters
- Improve efficiency and effectiveness of vital but time-consuming processes
- Drive increased output with reduced errors and improved policy compliance
- Speedier design, configuration and technical deployment and integration than traditional automation solutions
- Enables doing more with the same resources, or more with less
- Automations not pre-configured and not limited to certain departmental, functional or process areas
- No requirement to change the current process, systems and applications – works with processes, systems and applications “as is”
- Supports requirements for security, controls, change management, auditability, scalability, reporting
- High compliance with process requirements and sensitive data, clear audit trails and thorough documentation

What's Next?

Monthly Electricity Cost Allocation Process



Systems/Applications



PeopleSoft Query



Outlook

PeopleSoft GL



Excel – Master Multi Billing Workbook



Excel – Cavallo Bill
Excel – Master Multi Billing Workbook

Excel – Master Multi Billing Workbook



Contact Information

Kevin Gunn

CTO and IT Solutions Director

City of Fort Worth

Kevin.Gunn@fortworthtexas.gov

+1 817-392-2015

Thomas Ortiz

ISG Partner, Public Sector Vertical Lead

Thomas.Ortiz@isg-one.com

+1 512 762 3975

Twitter: T_C_Ortiz

www.linkedin.com/in/thomas-ortiz-a005b24

