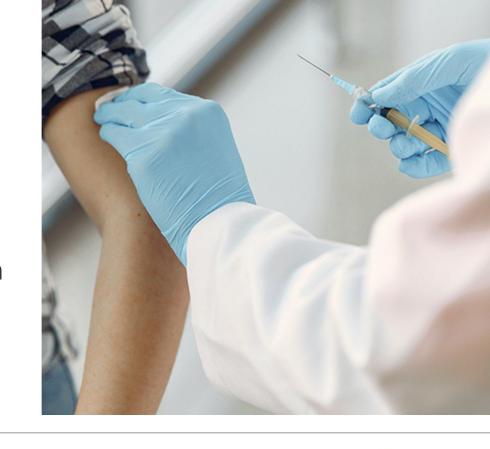
Fighting the Flu VCH Staff Influenza Vaccination



Presented to: Vancouver Coastal Health

Presented by: ABC-R Consulting Date: November 24th, 2022



Executive Summary

Introduction

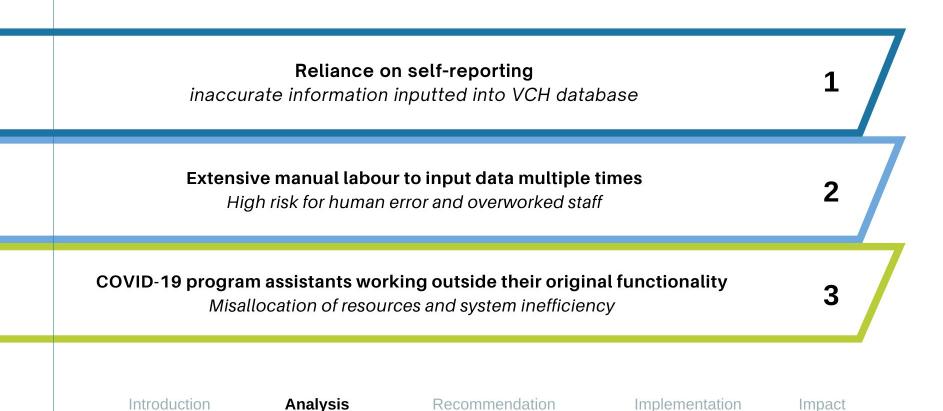
Analysis

Objective How can VCH leverage RPA technology to make the employee vaccination process more efficient? Key issues/ Repetitiveness and requires vast Inefficient data system with Over-reliance on self reporting considerations amounts of manual labour multiple potential error areas Using RPA to make employee vaccinations a streamlined process Recommendations RPA system that eliminates Confidential, accurate, and Automatic data entry, storage, repetitive tasks and requires efficient system that addresses and analysis minimal manual labour concerns of all stakeholders Increase data accuracy, provides Reduction of manual/repetitive Highly efficient process, easier for **Impact** quantifiable data, such as error tasks, integration is simple and vaccination staff and employees rates and vaccination rates, etc. long-lasting

Recommendation

Implementation

O3 Key Issues



	Long-term sustainability	Assistance to staff	Alignment with values	Accuracy with information
Current process				
Full automation				
Partial automation				
Paper scanning				
Voice-text feature				

Our solution

A full digitization of the VCH employee vaccination process

Safe

Our system will **ensure data confidentiality** and **security** due to the highly sensitive content of the form

Our Strategy:

SEA

Efficient

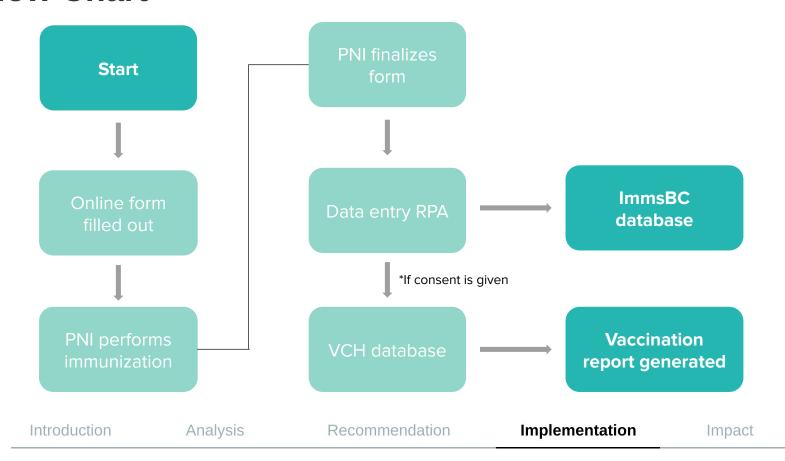
Our system will reduce human error and eliminate multiple data entry points, streamlining the vaccination process

Accurate

Our system will be able to quickly **quantify impact** and be well integrated

Impact

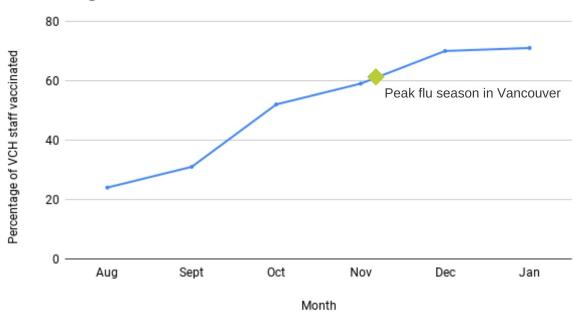
of Flow Chart

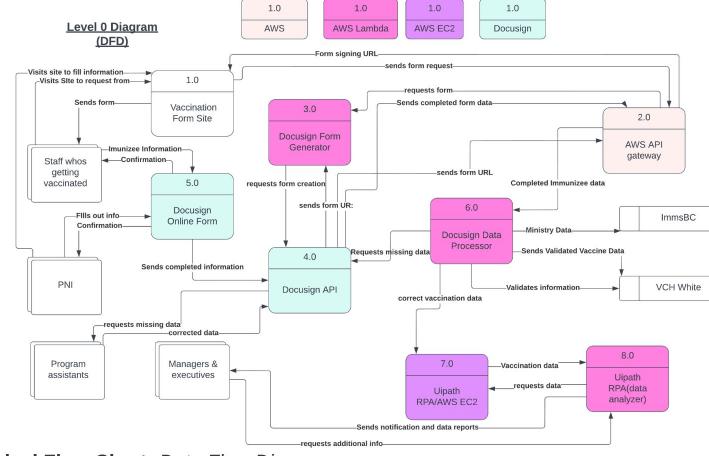


Prototype Demonstration

Automated Data Analytics Mockup

Percentage of VCH staff vaccinated





Technical Flow Chart: Data Flow Diagram

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Introduction Analysis Recommendation

Implementation

1

2

3

AWS

- Notifies when forms are completed
- Create forms with DocuSign's API
- Fetch and analyze vaccination data hosted by UIPath RPA

DocuSign

- Provides vaccination form user interface
- Notify AWS system when forms completed
- Provide form information API

UIPath RPA

- Write data to the ImmsBC database
- Read and write data for the VCH WHITE database

Introduction

Analysis

Recommendation

Implementation

Safe

- Use of software to ensure security
- Encapsulation principle
- DocuSign e-signature safety techniques
- AWS safety features

Accurate

- No handwritten text recognition required
- Automated information validation
- Nearly all vaccinations will produce recorded data

Efficient

- Simple and clear structure
- Automated processes streamline data flow
- Capacity for high throughput

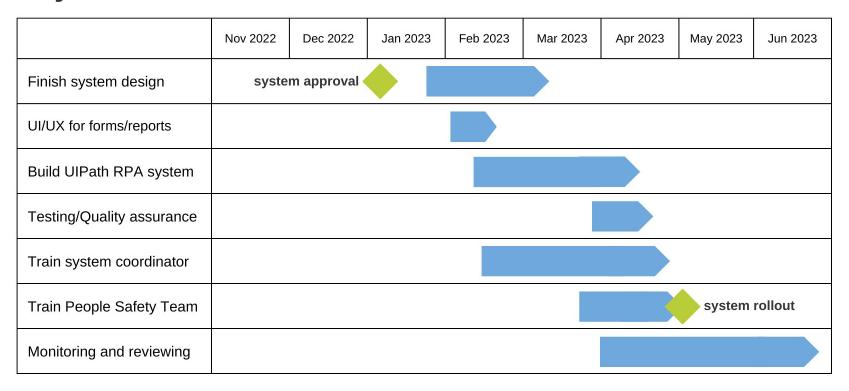
Introduction

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Recommendation

Implementation

¹³ Project Timeline



Cost-benefit Analysis

Benefits	Hours Saved	Year 1	Year 2
Decrease in manual labour	1,333	\$ 35,533.33	\$ 37,310.00
Time saved for staff reporting	1,067	\$ 28,426.67	\$ 29,848.00
Estimated Benefits	2,400	\$ 63,960.00	\$ 67,158.00
Costs			
AWS Scheduled Cron Job		\$ 50.00	\$ 50.00
DocuSign		\$ 840.00	\$ 840.00
AWS Lambda		\$ 50.00	\$ 50.00
AWS API Gateway		\$ 50.00	\$ 50.00
AWS EC2		\$ 8,400.00	\$ 8,400.00
UIPath		\$ 6,000.00	\$ 6,000.00
System Development		\$ 80,000.00	\$ -
System Overseer		\$ 10,000.00	\$ 10,000.00
Estimated System Costs		\$ 105,390.00	\$ 25,390.00
Net Savings		\$ (41,430.00)	\$ 41,768.00

- Assume 5% increase in vaccinations
- Break even in the second year

Intangible benefits:

More time spent on high-value work, faster results, quantifiable results with opportunity for analysis

Risks and Mitigations

