

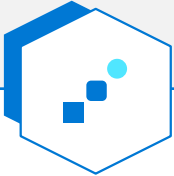



# COVID-19 Vaccine Proof and Test Verification Solution Accelerator

# Regular health verification is vital to the future of work

COVID-19 has permanently changed on-site work

Majority of workers can't work from home	Constantly evolving regulations and governmental guidance	Developing and implementing document tracking processes	Consistently high volume and frequency of test verification
79% of Americans were required to work on-site by March 2021. <sup>1</sup>	80% of employers plan to keep vaccine and testing requirements in place, despite SCOTUS ruling against federal mandate. <sup>2</sup>	79% of employers implementing vaccine requirements plan to manually verify documentation. <sup>3</sup>	64.4 million lab tests were performed in the United States and its territories in January of 2022. <sup>4</sup>
			

1. [Another Truth About Remote Work," The Atlantic, Sept. 20, 2021](#)

2. ["Despite Supreme Court ruling, most major employers keeping vaccine mandate for workers," CNN, Jan. 26, 2022.](#)

3. ["Implementing Vaccine and Testing Mandates in the U.S.," Gartner, Nov. 15, 2021](#)

4. ["United States COVID-19 Cases, Deaths, and Laboratory Testing," CDC, Jan. 21, 2022.](#)

# Challenges to monitoring virus testing and vaccine status

Frequency, volume, and lack of standardization increase complexity



**Manual processing** is inefficient and prone to human error, causing delays and providing incomplete data.



**Lack of standardized documentation** due to unique test result forms and various ways to fill out vaccination cards.



**Internal skilling required** to automate and apply AI to record-tracking and compliance solutions is scarce.



**Complicated form submission processes** increases the burden on employees trying to upload their forms.



**Frequent changes** to internal, governmental, and union requirements complicates compliance.



**Insufficient analytics** to inform workplace health and safety decisions.

# Automate form intake and gain timely, accurate insights

Improve efficiencies, compliance, and ability to maintain a safe and healthy workplace

Enable **efficient, accurate processes** that track test results in a timely manner.



Deliver a **standardized, simple submission mechanism** for all documentation.



Gain **timely analytics and insights** that help improve workplace health and safety.



Establish reporting to validate **internal, regulatory, and union compliance**.

# Simplify employee submissions and data processing

Leverage automation and AI to collect, analyze, and verify COVID-19 status documentation

The **COVID-19 Vaccine Proof and Test Verification Solution Accelerator** uses an email attachment or mobile application submission process to quickly acquire, digitize, and analyze documents in any format to confirm an individual's COVID-19 test results and proof of vaccination.

It leverages the **AI-powered Azure Form Recognizer** to extract content and data with accuracy, and a **Power BI** dashboard to provide insights to help validate compliance and inform strategies for greater health and safety.



Enable **user-friendly** form submission via email attachments.



**Automate** form processing and data ingestion.



**Visualize** virus testing and vaccination metrics and insights.



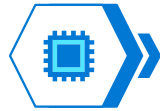
Minimize **deployment times** with a no-code, out-of-the-box solution.

# Digitize and automate your COVID-19 tracking system

Gain relevant vaccination and testing insights minutes after employees submit their documents

## Document collection

Employees submit documents via email attachment or mobile application.



Documents are stored in a data lake.

## Data extraction

Azure Form Recognizer extracts printed and written text, tables, and document structures turning forms into usable data.



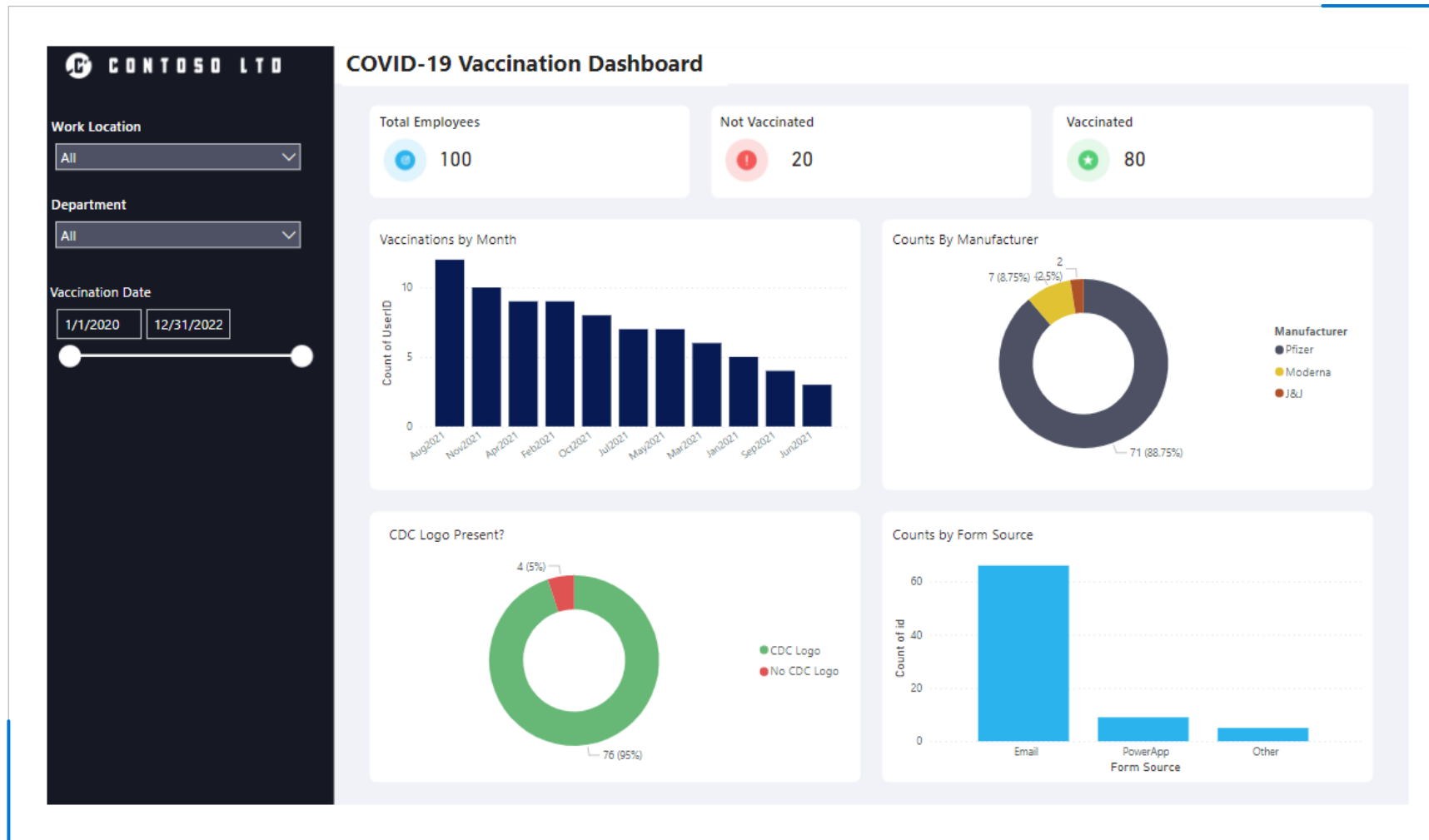
Data is stored in a database.

## Reporting and analytics

Power BI generates reports and analytics on workforce vaccination status and test results.

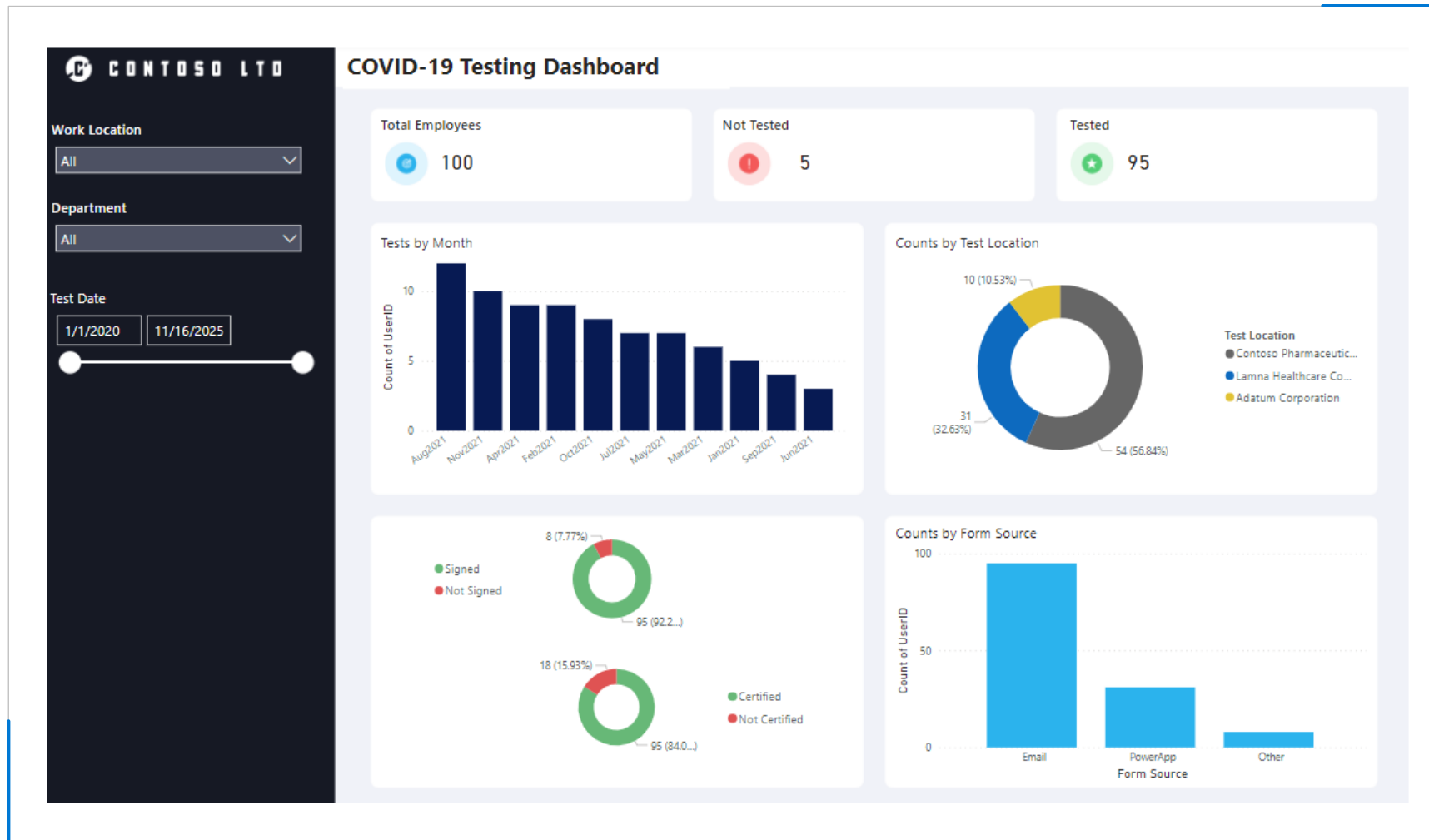
# Dashboards display accurate, timely insights

Quickly visualize vaccination data and analytics



# Dashboards display accurate, timely insights

Quickly visualize test result data and analytics





# Global transit leader uses AI to manage document processing



## Situation

One of the world's largest public transportation authorities mandated COVID-19 vaccinations or weekly PCR testing for all employees. However, they lacked the necessary technology to efficiently process the thousands of unstructured forms they continuously received.



## Solution

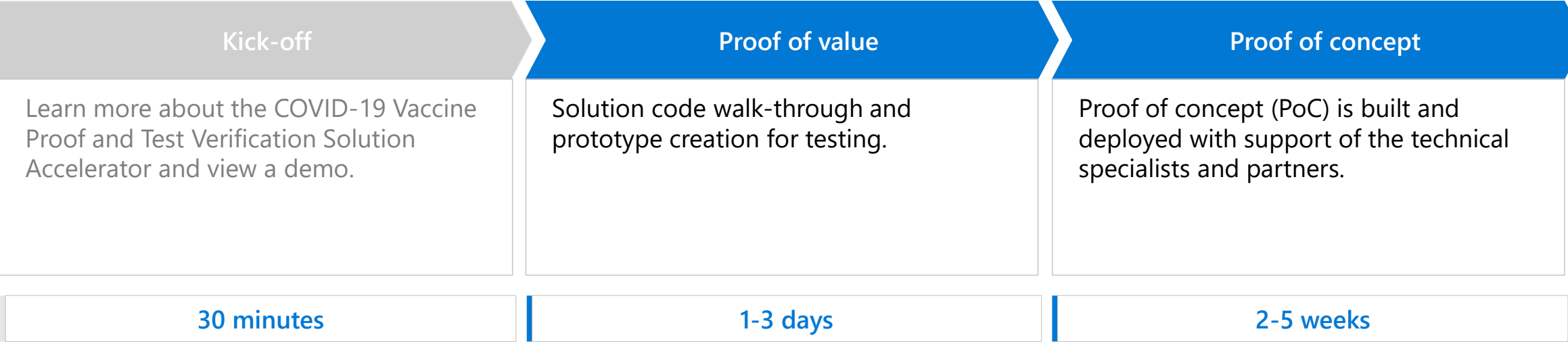
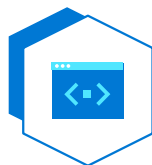
The organization implemented the COVID-19 Vaccine Proof and Test Verification Solution Accelerator to automate document processing and validation, including their own custom forms.



## Impact

As a result, the organization benefited from significant cost and time savings from AI-enhanced data processing, compared to manual data extraction. The ability to quickly and accurately monitor employees' COVID-19 status also enabled them to minimize service interruptions.

# Easily collect and verify COVID-19 status documents



# Transform COVID-19 status monitoring and reporting

Quickly transform diverse document types into raw data and actionable insights



**Automate** document collection, processing, and storage.



Leverage advanced AI to **accurately extract data** from dissimilar forms.



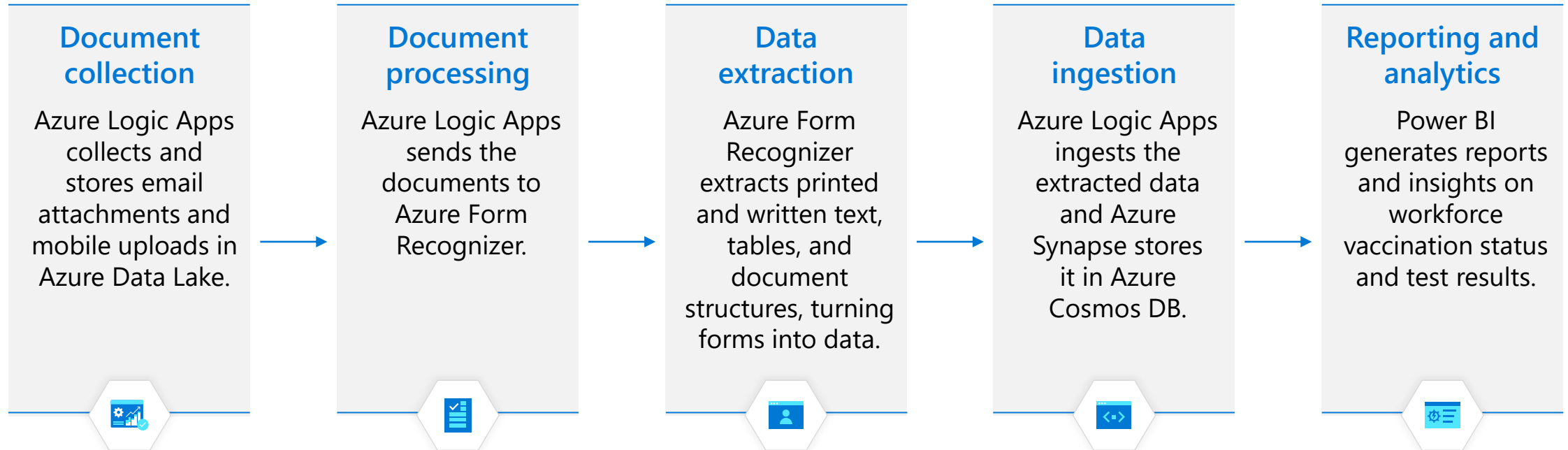
Deliver **timely** COVID-19 status reports and analytics.



**Minimize deployment time** with a no-code, PaaS solution.

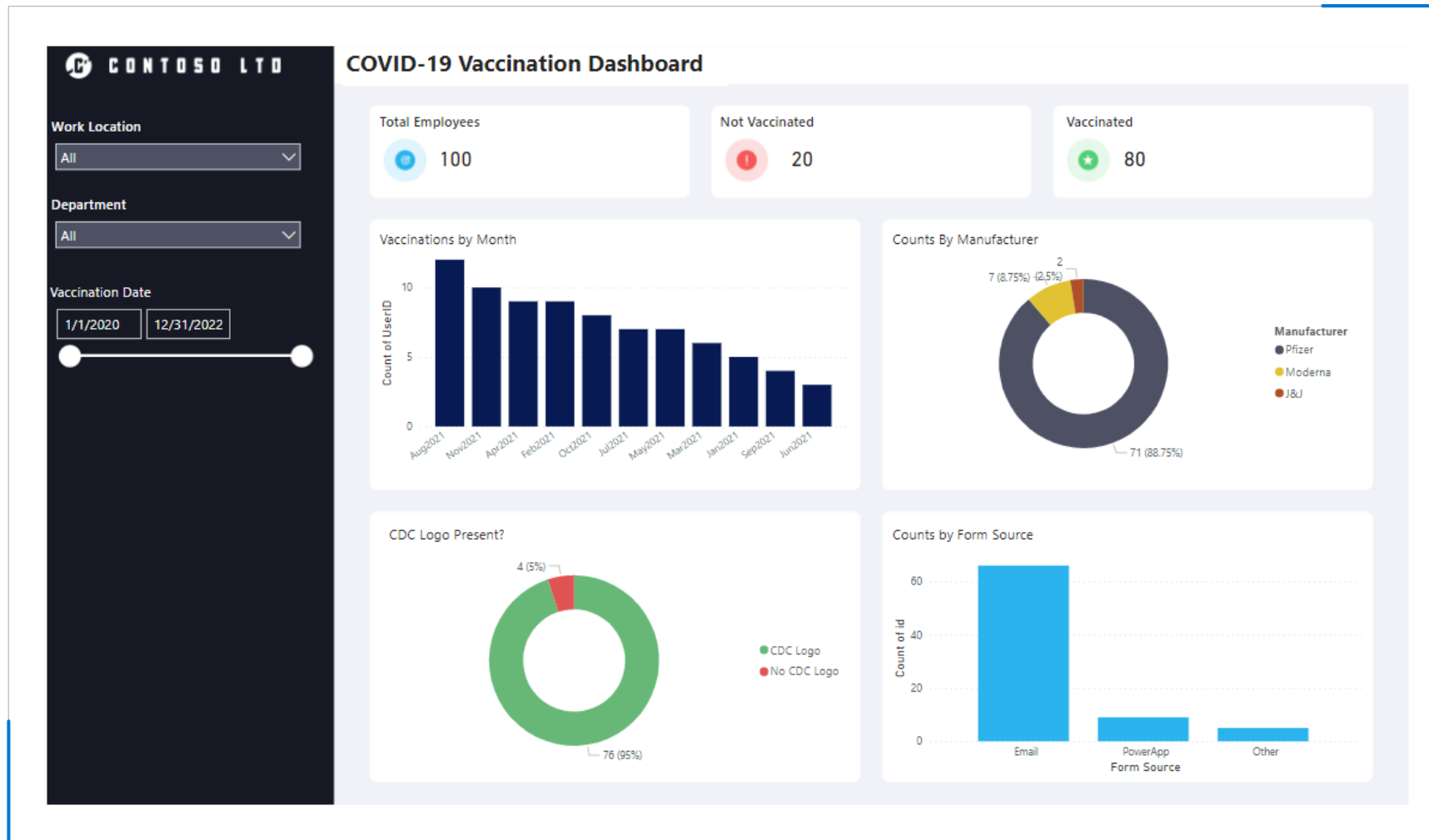
# Deliver timely COVID-19 status data and insights

Leverage AI and automation to streamline document collection and verification processes



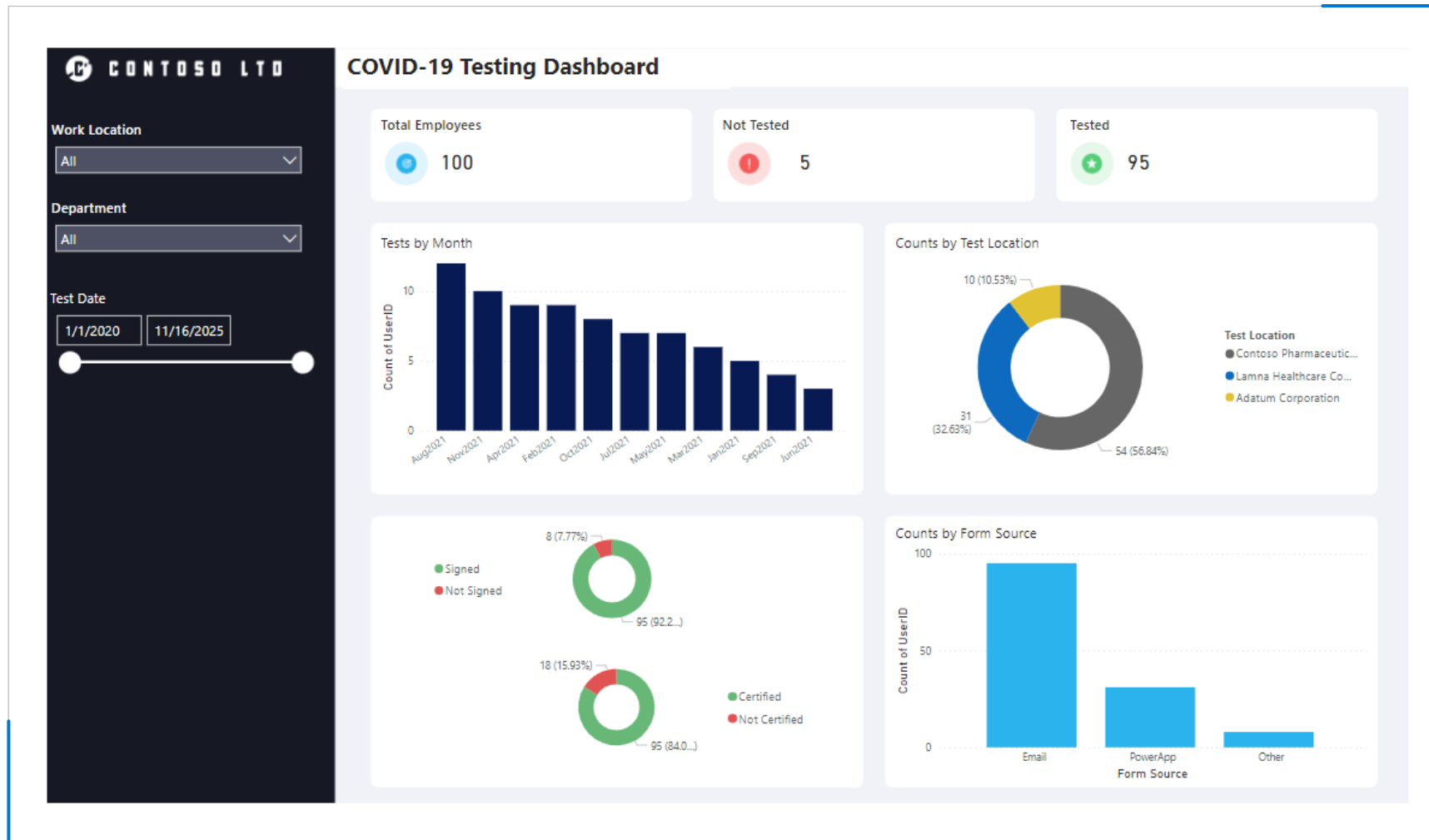
# Dashboards display accurate, timely insights

Quickly visualize vaccination data and analytics

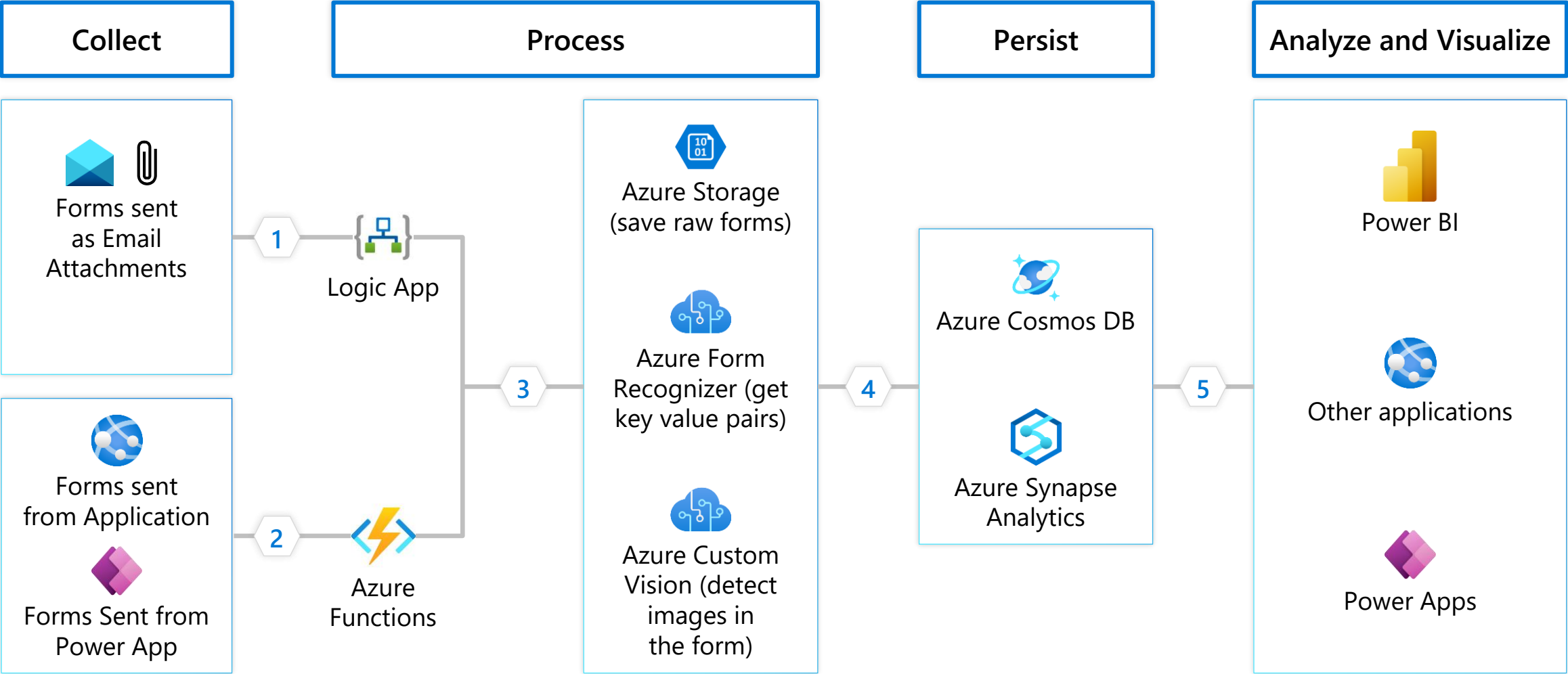


# Dashboards display accurate, timely insights

Quickly visualize test result data and analytics



# Reference architecture

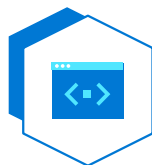


# Next steps to AI-powered COVID-19 status verification



## Deploy Resources

Create a resource group you can use as a container to begin deploying the resources to Azure.



## Train AI Models

Train Azure Form Recognizer's advanced machine learning and AI models to accurately extract data from various test result forms and CDC vaccination cards.



## Set up and Customize

Set up Azure Logic Apps for automation and customize your Power BI dashboards to deliver near real-time analytics and reports that fit your organization's needs.

With demo data and forms, create a POV in 1-3 days.

With your customer data and forms and a prep session, create your POC in 2-5 weeks.



Thank you

