truecontext

Tank Inspection Workflow

Structured process to minimize
production disruption and risk

Tank inspections are a critical service workflow to ensure safety, operational efficiency, compliance, and cost management. Used across various industries, these inspections monitor the integrity of tanks used for storage and transportation of potentially toxic or hazardous substances.

Inspections are routinely performed to prevent leaks, contamination, and tank failures that can lead to several types of risk – environmental, financial, and human safety. Sectors like oil and gas, utilities, pharmaceuticals, and agriculture rely heavily on tank inspection workflows to mitigate these risks and ensure continuity of operations.
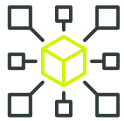
Challenge

Traditional inspection methods incur high costs, not to mention safety risks associated with having technicians work in confined spaces with little ventilation, amplifying the dangers of potentially hazardous substances. Additionally, thorough inspections introduce unavoidable disruptions to operations, and field leaders are forced to balance maintenance and safety against demanding production schedules and targets.
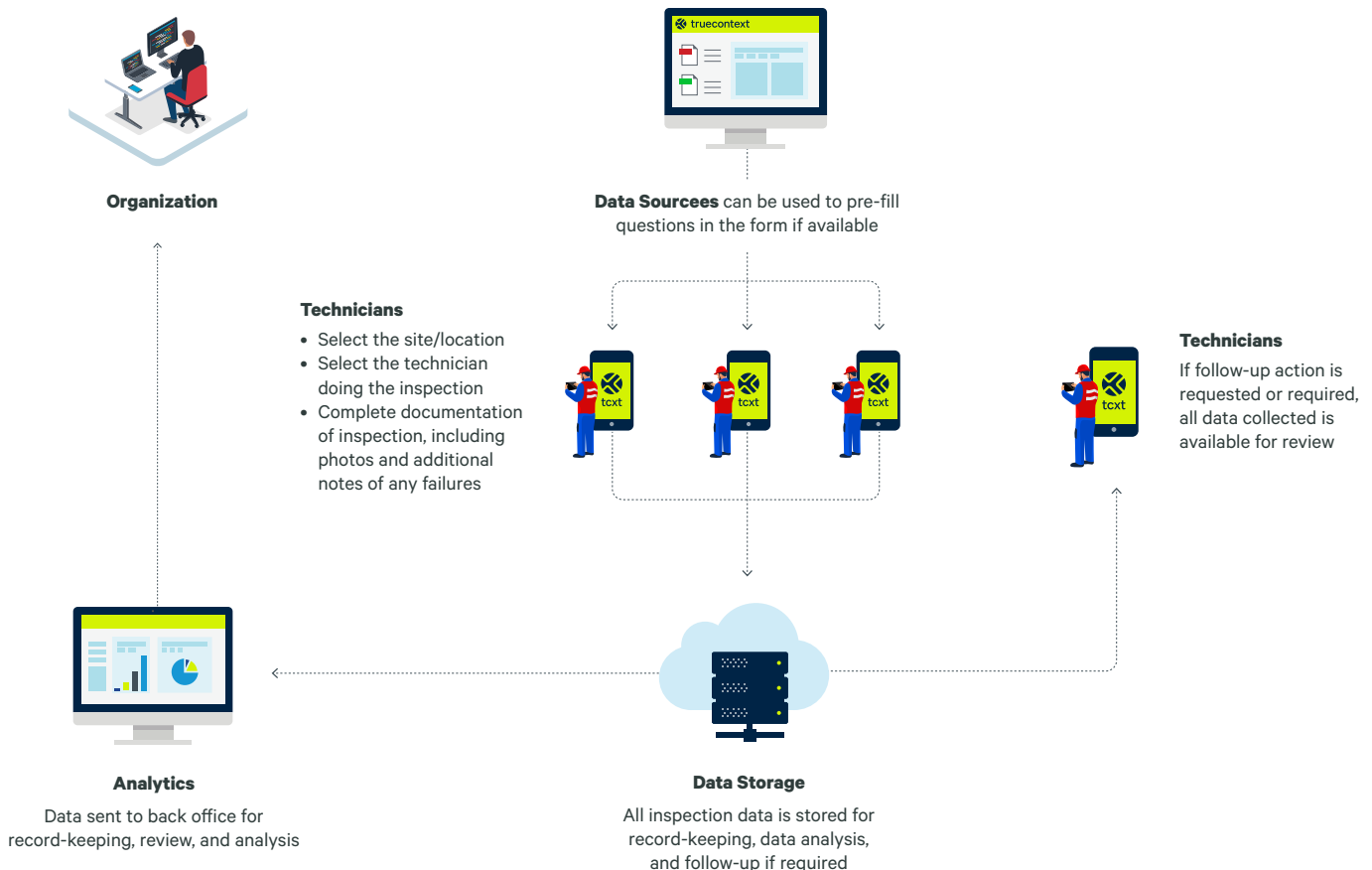
Due to these, critical tank inspections are sometimes performed less rigorously or forgone entirely, leaving companies vulnerable to catastrophic equipment failures. This dramatically causes unplanned, extended downtime and impacts production output even more than anticipated, with a cascading effect on potential safety and compliance risks.

The Solution

The TrueContext tank inspection workflow enables a well-planned and organized process to ensure that critical storage and transport containers are operating to optimal standards. It provides a single form that enables technicians to easily carry out inspections with the required individual steps, supported by resources that help identify problem areas depending on specific models. By using a single, streamlined form, the technician can select their location, go through each step of the inspection, and thoroughly document any issues they find.

The structured workflow allows technicians to work as efficiently as possible, with specific instructions on critical safety gear and practices that this unique environment calls for. The comprehensive data collected is date-stamped and integrated with your systems of record in real time so reports and analytics can be generated, which supports operations leaders in deciding the most optimal interval between tank inspections with the least production disruptions.

Organization

Data Sourcees can be used to pre-fill questions in the form if available

Technicians
- Select the site/location
- Select the technician doing the inspection
- Complete documentation of inspection, including photos and additional notes of any failures

Technicians

If follow-up action is requested or required, all data collected is available for review

Analytics

Data sent to back office for record-keeping, review, and analysis

Data Storage

All inspection data is stored for record-keeping, data analysis, and follow-up if required

Outcomes

▶ **ENHANCED TECHNICIAN SAFETY**

Your teams perform tank inspections as efficiently and quickly as possible, reducing their exposure to hazardous environments.

▶ **IMPROVED PRODUCTIVITY AND EFFICIENCY**

With built-in workflow guidance, your technicians perform better, more detailed inspections in less time.

▶ **JUST-IN-TIME MAINTENANCE**

As tanks need to be out of service during inspections, creating a predictive schedule takes eliminates unnecessary visits while maintaining optimal operation.

▶ **REDUCED DOWNTIME AND EXTENDED ASSET LIFECYCLE**

Routine tank inspections are optimally scheduled, minimizing catastrophic failures and extending lifespan of assets.

▶ **COMPREHENSIVE COMPLIANCE DOCUMENTATION**

The streamlined app allows for thorough data collection, along with important metadata to create regulator-friendly reports.

▶ **REDUCED COSTS ASSOCIATED WITH FAILURES**

Well-maintained assets go into catastrophic failure much less often, reducing risk of irrecoverable damage.

Workflow Features

FORMS

- Data source (list of pre-defined job sites and locations, employees and contractors, and inspection checklists)
- Data destinations

DOCUMENTS

- Full log of the status of every step of each inspection along with supporting photos and documentation for any issues discovered during each step of the inspection
- Technician signature
- Custom document layout is also available

DATA & ANALYTICS

- Extraction of list report data to Excel is also available

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