

SAFETY FIRST

With CyloTrak, the automatic RFID enabled identification & tracking system, your business and your customers are always safe!



Visit Us : www.trakaid.com
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■ SOS Survival Guide: Seven Steps to Sustainability & Growth

Survive, Organise, Sustain, Grow

With the cost of assets going up, there is an increase in the loss/theft of cylinders. Inaccurate tracking increases losses - nearly 2 per cent annually - of total stock. Customers and distributors also tend to hold cylinders longer than expected.

Furthermore, Trakaid estimates more than 25 per cent of cylinder inventory is idle and out of use for up to half of any given year. The inability to keep functional cylinders in circulation pressures suppliers to cut corners in quality to bypass cylinder safety testing.

Cylotrak helps eliminate cylinder loss and improve safety standards with end-to-end traceability. As a result, the return on investment (ROI) starts immediately.

Trakaid has used artificial intelligence-based data analytics to analyse transaction data for industrial gas manufacturers and bottlers to manage their businesses.



FIVE CRITICAL MISTAKES TO AVOID



Defects: wrong gas in the wrong cylinder or delivering empty cylinders



Morning shift: production bottlenecks due to laborious manual data entry of cylinder data



Production: filling fewer cylinders than the optimal batch



Issuing: a batch of cylinders that exceeds the holding limit



Delivery: of cylinders marked for one customer to another customer

Then follow the

SEVEN STEPS TO SUSTAINABILITY



Accuracy: trust your data



Traceability: know where your asset is and the history of transaction details: fill-in status, contents, rotation time, and the how/what/where/when/why details on your cylinder.



Enhance safety: measures for your customer and employees



Mobility: get actionable data at the point of use



Innovation: use processes that take advantage of new technology



Assets: analyse asset usage and apply controls to manage them



Digitise: utilise a fully digital robust system and access data in real-time

ACCURACY

There is an almost twenty per cent error rate in manual data entry due to transposition and wrong or illegible entries.

For barcode data, almost 5 per cent of errors are due to the inability to read through scratches/dust/oil or no line of sight. As a result, neither you nor your customer trusts your data.

You cannot demand cylinders from your distributor \ dealer \ or customer either. Such non-traceability issues cause 2 per cent annual cylinder loss.

RFID (Radio Frequency Identification) technology automates data acquisition processes. RFID is the wireless use of radio-frequency electromagnetic fields to transfer electronic information stored on a microchip.

Data acquisition from RFID tags provides almost 100 per cent accuracy. Trakaid has developed and deployed hard, curved RFID tags precisely fit for cylinder use and micro chip encased in high-impact resistant plastic. They work exceptionally well even in harsh industrial environments and survive rough handling, poor lighting, and the accumulation of dust and oil.

The RFID tag has a unique identification number and does not require a line of sight between the scanner and the tag. It is readable from a distance and also in tight places where it is challenging to align barcode readers to barcodes.

Passive RFID tags work at varying distances (without batteries and batteries). In addition, mobile technology helps make cylinder data available at the point of use.

(Reference <http://en.wikipedia.org/wiki/Rfid>)



 **TRACEABILITY**

In the absence of traceability leads, some dealers or customers might rotate the same cylinders to bump up the average cylinder rotation without showing any change in the holding or return of discarded assets. They might repaint a batch of cylinders and put them to use in other areas of their businesses. As a result, hidden asset loss comes to light for suppliers only during inventory.

Being able to track every gas cylinder puts the inventory control back into the hands of the supplier. Trakaid offers you end-to-end traceability with irreproducible identity tags and individual asset control. Maintain control over movable cylinder stocks while providing customers with the right product at the right time.

 **SAFETY**

Safety is the biggest challenge. Current safety practice involves eyeballing the cylinder's test date at the filling time. The test date, however, is often missing or illegible. As a result, it becomes impractical or impossible to maintain a steady supply of usable cylinders.

Up to 50 per cent of cylinder stocks have passed their testing dates. However, accidents create severe liabilities in the viability of any supplier: customers drop the business relationship, and employees become unwilling to work in unsafe environments.

Trakaid has developed a built-in notification system that prompts users to eliminate cylinders with expired test dates from circulation and schedule them for testing. This key feature of Trakaid enables greater compliance with safety standards and regulatory mandates.



 **INNOVATION**

Current practices mimic manual record-keeping in use for the last 50 years, i.e., most existing software solutions emulate manual record-keeping and associated processes.

Trakaid, meanwhile, incorporates hundreds of process validations that confirm the status of the data pool even before the next step in the business process can occur. Our solutions provide streamlined, innovative, proactive, validated processes using the latest technologies that draw together internet, web, database, mobile smartphone, and RFID technology to pull together actionable data at the point of use whenever and wherever required.

 **MOBILITY**

Trakaid's mobile solutions provide employees with real-time data at the point of use and enable them to make on-the-spot decisions quickly. This allows for greater collaboration with customers and company managers in centralised locations, improving efficiency and productivity.

For example, team members can eliminate "last mile" errors and make correct deliveries to customers, even if it's multiple deliveries to numerous customers from the same truck.



 **ASSETS**

It is critical to have a minimum level of returnable assets to survive and grow. The costs of replacing lost or damaged assets have also skyrocketed.

In the industrial gas cylinder industry, a business usually needs at least 30 rotations annually to cover the cost of manufacturing, operations, testing, and servicing cylinder stock. Companies have to account for financing and depreciation. A typical annual loss may be up to 2 per cent of total assets. There is also the hidden cost incurred when the customer returns recycled cylinders instead of new ones.

However, the most significant impact on profitability occurs due to the loss of cylinder stock. Analysis shows that more than twenty-five per cent of cylinder stock is not participating in rotations and is being held, untraced, at customer locations. Trakaid provides total end-to-end traceability and on-demand reports that can identify the customer locations of all outstanding assets and enable the recovery of overdue cylinders from customers.

 **DIGITISE**

Manage the complete life cycle of your returnable asset. For example, capture data electronically for all transactions at the point of use, and apply automatic updates to the central database. Eliminate paper, and send delivery orders, invoices, and asset-due reports via email, while receiving purchase orders online.

Validate cylinder data during each exchange using software programmed to implement process steps with built-in good manufacturing practices and sound information governance for correct use and accessibility to each piece of underlying data.

Trakaid's capabilities are optimised for fast response based on proven industry experience and domain knowledge. Eliminate the back-office work for data entry.

