Worker Productivity

The Problem:
46% of billed contractor hours are nonproductive

Lack of productivity is one of the most significant issues to be tackled across worksites. According to our own data gathering metrics on several different STOs across North and Central America, an average of 46% of the time that contractor's bill for is spent in zones where they can't even do the work they're contracted to do.

This problem stems from 2 causes: poor data gathering and, as a result, poor visibility into the actual problem.

The current industry standard for tracking hours worked is turnstiles and manned entry points. These are far from idea. Prone to human error, this manual process often doesn't account for

- **Multiple workers in a vehicle**
- **Workers entering into zones or gates different than the ones they perform their work in**
- **Workers in divested sites touching several different projects in a day**
- **On-site time spent in various zones**

Turnstiles have proven to be an ineffective way to track workers. It does not account for groups in vehicles, missing check-ins, and in the case of shared contractors in divested sites,; knowing who exactly is working for what company, what work they're doing, and if they're being productive. The inability to accurately track billable hours and usage of tools & equipment means that there are **millions of dollars of inaccurately reported labor for every STO.**

A Case Study: STO for a major energy company

A leading petroleum company faced the challenges of worker accountability and its impact on their productivity. During their annual STO of a large refinery they would often run 2 - 6 days late completing just the most necessary tasks to maintain the equipment. Further, cost overruns were rampant. After conducting an internal review, they identified 3 core problems that their current system of turnstiles and manned entry points couldn't address:

1. **They had very little forward-looking capacity to identify what problems were occurring with their STO and address them before they created overruns or delays.**
2. **This refinery was divested across several corporations and contractors often billed work to more than one of them in a day.**
3. **Equipment was being rented for weeks or months during which it seemed unlikely it was being used much or at all.**

The Solution: MCI Track + Triax Spot-r

After an RFP, Triax's Spot-r solution + MCI Track was chosen as a clear winner. It gives all-round visibility through data - efficiently tracking manpower, equipment, and materials and comparing it to the contractual requirements that have been set it place. Triax's wearable makes it easy to gather data on worker presence, tool time usage, and time spent in productive or non-productive zones. Further, knowing who is not on site or who has not been able to spend time in productive zones gives a very clear picture of what may be delayed in real-time.

Using the power of IoT and location services, MCI Track + Spot-r solved this energy company's STO problems by reporting on:

- **Who exactly contractors are (in divested sites)**
- **How productive they are during billable hours (by team or by individual)**
- **What equipment is in use**
- **Which worker uses the equipment**
- **The duration of use for any equipment on site**
- **How productive are they during the billable hours**

The Result: Instant Visibility leading to increased productivity

MCI Track led to instant visibility of the workers, their processes, and equipment status. With wearables on the workers and every equipment tagged, there were several outcomes:

- **Data-based insights led to a better understanding of where workers were stuck spending non-productive time—in laydown and in check-in—and improving workflows there resulted in a 8% improvement in productivity.**
- **Automatic RTLS on contractors and tool usage became the source of truth for billable hours and equipment rental fees.**
- **The STO was completed on time and on budget for the first time in 4 years.**

This real-time data led to a decrease in non -productive hours and transparency across the job site, giving complete control back to the client.

Get More Done With the Same Resources

Blockages and lack of visibility into labor are major issues in most job sites. Triax Spot-r + MCI Track gives complete visibility across the worksite. By identifying downtimes in certain work zones and which equipment is causing you to lose productivity, there's data to make informed decisions when managing labor and equipment
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With MCI Track + Triax Spot-r, get back control with precise data, improving productivity and efficiency across the worksite.