Introducing Our Social Distancing and Contact Tracing Solution
Triax has engineered a solution to combat the challenges that all essential workforces, and businesses eager to get back to work, are facing in the time of COVID-19. How do you maintain safe distances, as recommended by government agencies, including the CDC and ECDC? Leveraging our experience in workforce monitoring we have developed Proximity Trace to address two key areas of need:

- **Active** feedback, in the form of a visual and audible alarm, so individuals know when to adjust their current distance to a proper social distance
- **Passive** collection of worker interactions for contact tracing should an individual test positive

The main device of Proximity Trace, the TraceTag, is affixed to any hardhat or lanyard for proximity detection and contact tracing. Together we can keep people safer during the active crisis and help individuals get back to work safely as things stabilize.

CDC DEFINITIONS:

| SUBJECT 0 | Confirmed infected individual |
| SUBJECT 1 | Close contact of subject 0 |
| SUBJECT 1A | Close contact of subject 1 |
| CLOSE CONTACT | Being within a 6-foot proximity for 15 mins |

System Overview:

- Workers will be issued a TraceTag to be affixed to the front of a hard hat. Lanyards are available for when the nature of work does not involve hard hats.
- Gateways for collecting close worker interactions will be placed at exits and high traffic areas.
- As an optional feature, TraceTags are able to emit a real-time progression of audible/visual alerts when workers are in close proximity.
- Close proximity interactions, including duration, are recorded on the TraceTag until it gains connectivity to the gateways and interaction data will then be transmitted to the cloud. Interaction range will vary depending upon the environment.
- Gateways will log attendance in real-time providing general visibility of who was present on site.
**Goals:**

- Provide a proactive system to support and condition workers to comply with social distancing
- Limit the number of Subject 1s but also be able to identify them automatically when necessary
- Passively collect worker interactions and duration to automate and digitize contact tracing efforts
- Provide the information needed to guide COVID-19 protocols at essential facilities
- Help businesses get back to normal operations with an easy-to-implement, user-friendly solution
- Arm businesses with a solution that supports measures to limit the spread of infection

**System Details:**

- **TraceTag:**
  - Real-time audible alert for close contact interactions
  - Records worker interactions for contact tracing
  - Rechargeable battery with weeks to months of battery life between charges
  - No GPS or off-site tracking

- **Gateway:**
  - Logs headcount/attendance, transmits interactions to cloud
  - Can facilitate remote configurations, including sounds

- **Alert:**
  - Real-time audible alert and flashing red LED will be emitted when worker interaction is registered
  - Alert and LED can be turned off for contact tracing only
  - Escalation alert allows warning beep for timely distance correction; alarm increases in intensity if distance is not corrected
  - Alarm can be silenced or temporarily disabled with a button push for accepted close contact work

- **Dashboard/Data:**
  - Headcount/attendance
  - Worker profile management
  - Device management and administration
  - Self-service contact tracing report; data includes timestamp, duration of interaction and participants

**Proximity Trace at a Glance:**

- Gateways are cellular
- Device-to-device and device-to-gateway signaling
- No dependency on client WIFI or internet
- No location data - on site or off site

Proximity Trace is not a solution designed to keep workers healthy. All users should be practicing the guidelines set forth by the CDC and ECDC for maintaining healthy worksites. Using Proximity Trace does not guarantee that you will not contract COVID-19 or any other viruses.