Heatstress monitoring

McDermott International is a premier, fully-integrated provider of technology, engineering and construction solutions to the energy industry. Wanting to use Smart Space technology as a way to leapfrog their competitors, McDermott launched a “Global Digital Yard” initiative, focused on Smart Assets, Materials Management, Integrated Operations, the Connected Worker and Safety & Productivity.

As an initial step on the Journey, Level 11 was asked to develop an heat stress monitoring and early warning intervention system for industrial workers in high-stress environments.
We leveraged ergonomic and PPE-compliant biometric monitoring equipment over an LTE connection to remotely analyze, in real-time, workers’ heart rates for signs of heat stress.

The result was unprecedented insight into the real-time health and safety of McDermott’s workers.

Level 11 is now working on next-step Digital Yard projects, such as proximity sensing and alerting; and personnel tracking for mustering and worker safety during weather events.
When we have a problem to solve, Level 11 is able to leverage their experience and technical expertise to propose unique and innovative solutions — without handholding or prompting.

At the same time, McDermott has appreciated that each solution will fit within the vision of our larger goals and objectives.

Level 11 has become an invaluable partner for McDermott’s Digital Yard and Connected Worker initiative, creating quick and useful proofs of concepts, while also delivering ‘future proof’ solutions.