

Wipro's Digital Field Worker
Solution for Mining



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In mining, manufacturing and process industries, field workers often find it challenging to communicate with colleagues and access required information or data in a convenient manner. In hazardous areas, the workers' health status assessment and monitoring is a cumbersome exercise and employees are not always able to have real-time notification of hazardous work conditions.

Solution

Wipro's digital field worker solution is a voice-activated hands free platform integrated with environmental sensors to enhance safety, productivity, and collaboration. The platform

supports Wi-Fi, bluetooth and real time location sensing via GPS. It can be used in wet, dusty, hot, dangerous and loud industrial environments. The fully rugged head-mounted device snaps into safety helmets or attaches to bump caps and can be used with safety glasses or corrective eyewear.

The solution is purpose built for the industry and deploys an accelerometer functionality to enhance safety, productivity and collaboration. It enhances the productivity and connectivity of workers in the field by automating sign-in/out, delivering data, documents and applications to a worker in real-time while simultaneously improving worker safety via work-fatigue gas detection, hazardous zone alerts, helmet removal notification in hazardous areas, man-down alerts, and notifications.

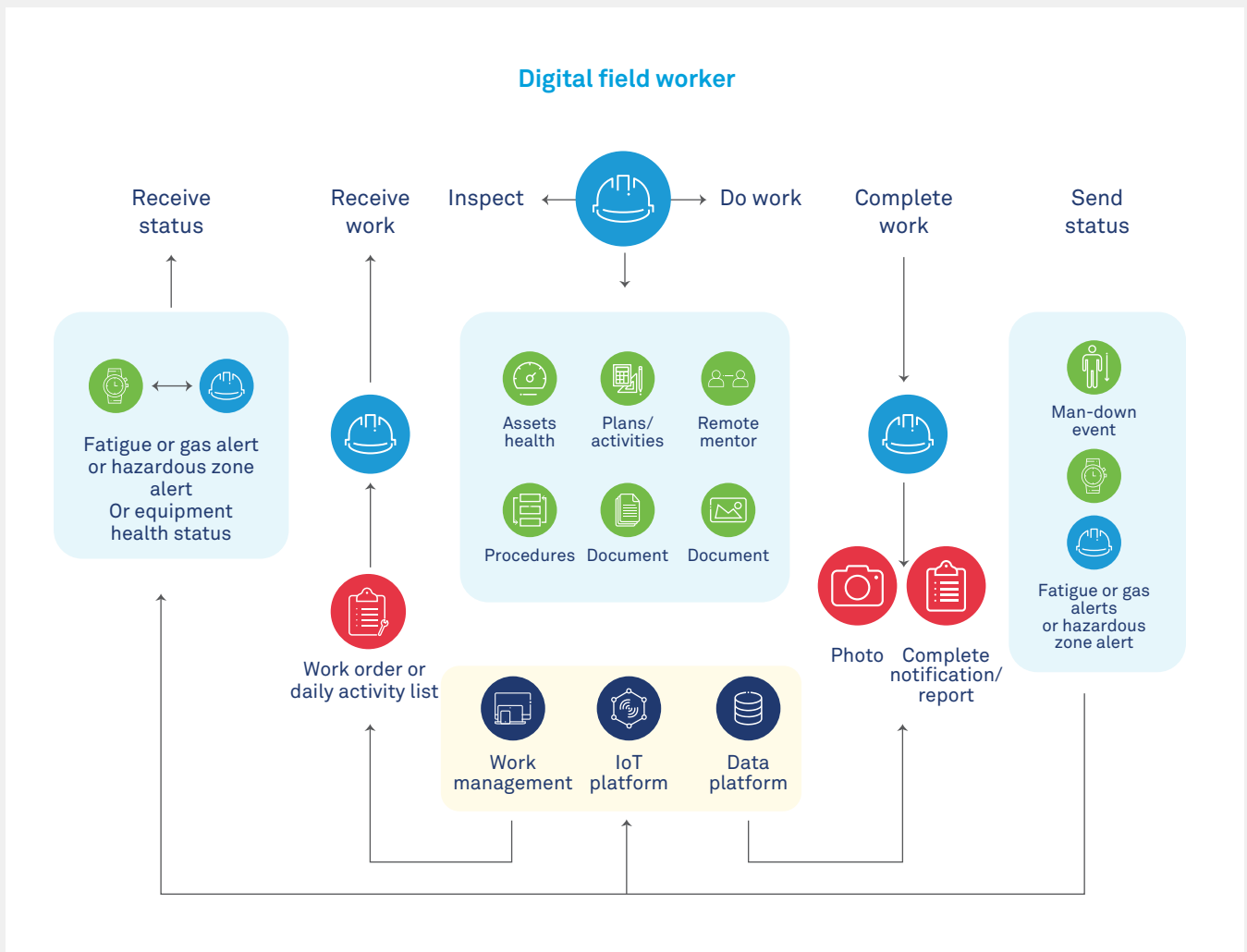


Figure 1: Solution overview

Benefits

- Integrated safety monitoring and reporting applications to monitor workers
- Guided procedures for safety and maintenance help ensure consistency, compliance, higher quality execution of tasks, and avoidance of rework
- Remote collaboration and mentoring solution enables real-time support using voice and video collaboration
- Accelerated delivery of outcomes through improved and faster decisions
- Ready access to information in the field, without having to carry a tablet or laptop

Features

- **Enhance** safety, efficiency and collaboration by providing improved access to information while working
- **Fully integrated** with customer systems to align with and support workflows, visualize operational data, connect with remote mentors and support the ability to view detailed documents and plans
- **Compatible** with most PPE (personal protective equipment) and allows workers to operate device hands-free
- Can be managed in similar manner to desktops, laptops, mobile tablets and other hands free devices

- Enhanced access to decision-critical information through an intuitive mobile device
- Ability to take photos/videos and incorporate into reports and notifications
- Increased ability to collaborate and capture job information (including photographs and video) in the field, including intrinsically safe zones
- Automated voice to text translation to capture input of free form comments
- Built-in GPS /location functionality enables real-time alerts to the wearer if they are in areas which are non-compliant (e.g. in a hazardous off-limits zone or if they do not have the compliance certificates)
- Safety attributes applied to the mine site and mine design model could be used to feed this information or allow the application to query a spatial database on a regular basis
- Safety feature to monitor work-fatigue, gas detection, hazardous zone alerts, helmet removal notification in hazardous areas, man-down alert and notification

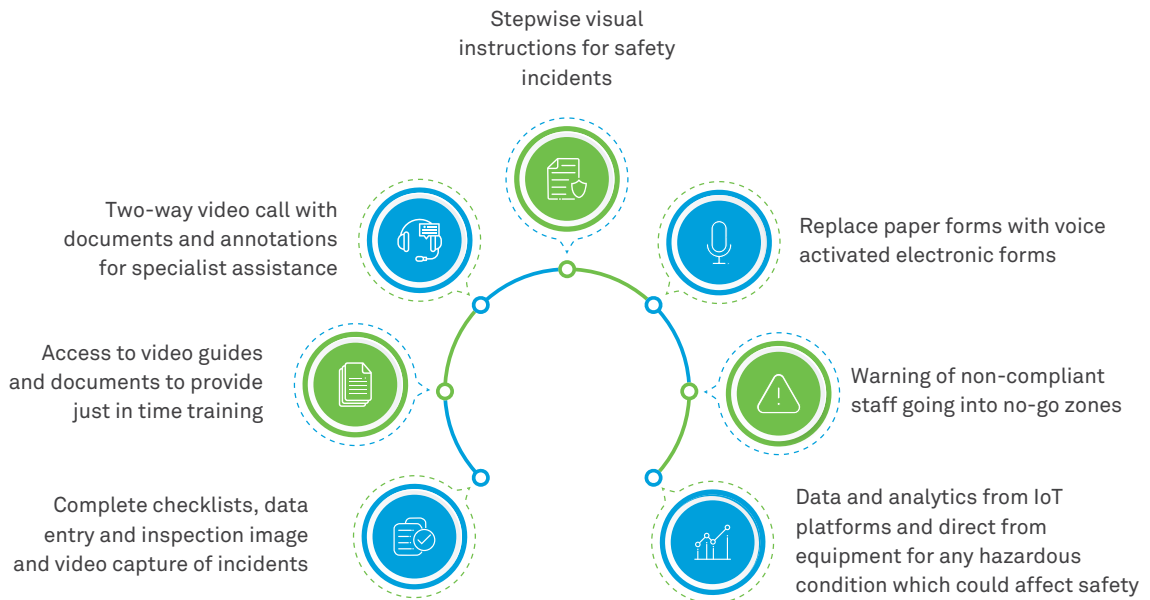
- Real-time notification of hazardous work conditions

Potential use cases

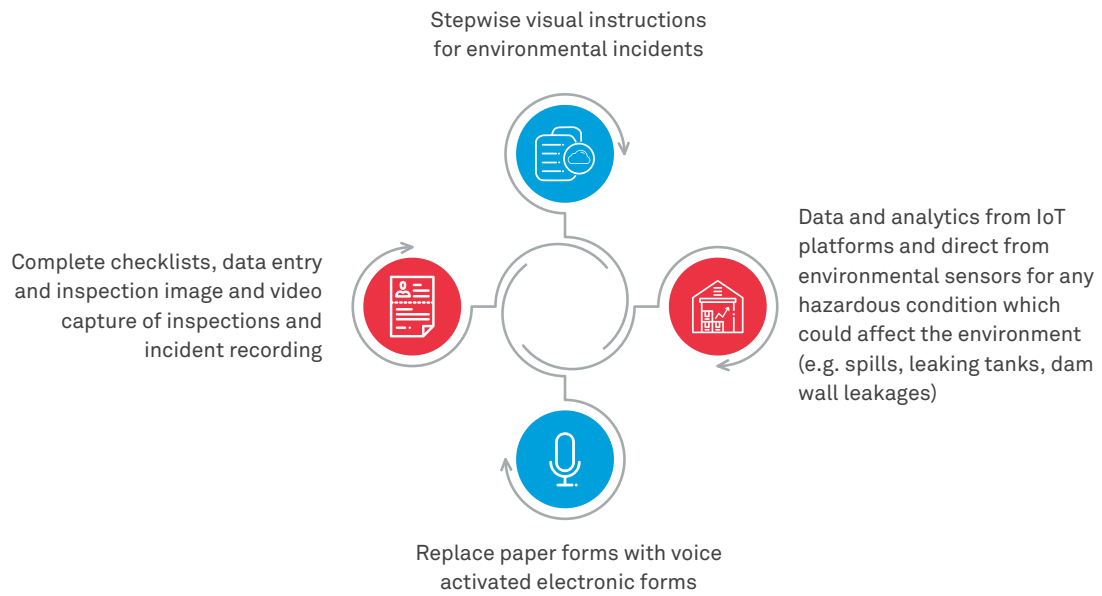
Maintenance



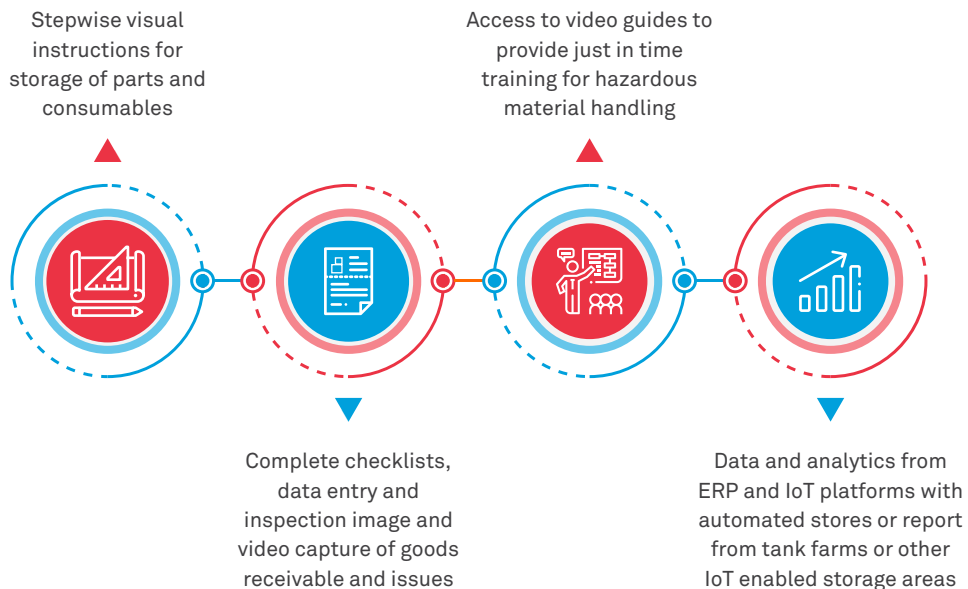
Health and safety



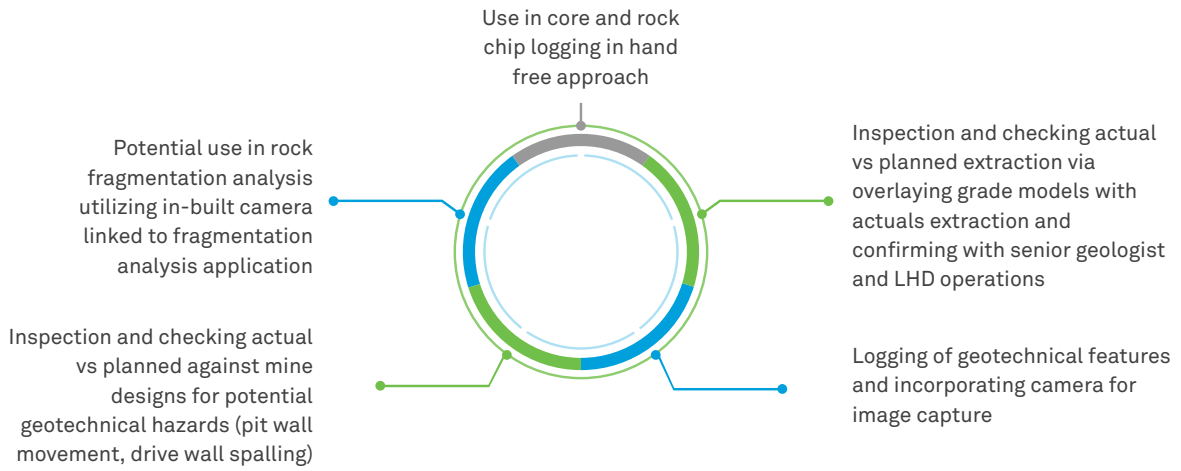
Environment



Warehouse / logistics



Geology / Drill & blast / Geotechnical





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