Worker Safety Solution

IoT WoRKS™ by HCL Technologies has developed a novel cloud-based Worker Safety solution that enables organizations to increase worker productivity and create a near zero-hazard work environment.

The Worker Safety solution has been developed in collaboration with IBM and PRESISTEM S.L., the Worker Safety solution can be readily integrated with IBM Watson IoT platform. This allows the solution to go further in creating a safer workplace for additional health, safety, and productivity use-cases. The solution enables safety of occupational workers in mining, construction, oil and gas, utilities, transportation, logistics, ports, manufacturing, and other industries.

Developed around sensor-based wearable devices, it permits hands-free operation for workers and provides greater visibility to the HSE administrator. The solution keeps tab of the real-time movement of the workers to provide early assistance in case of injury or emergency.

THE FEATURES

Multi-sensor wearable device, eliminates the need for multiple devices and sensors

Proactive alerts to accelerate emergency response

SoS feature to seek assistance

Scale and security support

Real-time location tracking

Management and maintenance of devices, applications, and Cloud instances

Geo-fencing to limit the exposure to hazardous environment

Automated access controls for contractual and permanent workers

Improved locational visibility and two-way communication between worker and safety administrator

THE BENEFITS

Reduced accident rate and improved response time

Hands-free operations enabled to increase worker productivity

Reduced reconciliation time before/ after blast by 80%

Cost reduction and **improved employee morale**

Reduction in medical expenditure and insurance premium

IoT WoRKS™
by HCL Technologies

Medical Kit track & trace solution

The specialized asset track & trace solution helps streamline the inventory management process while maintaining complete visibility of critical assets. It enables a product's status to be captured throughout its supply value chain, and identifies and verifies its location and path.

The solution associates products or assets with unique identifiers, captures location and conditions/ events at various points in the supply chain, and performs analytics and reporting on the information received. It also includes messaging to share information with regulatory agencies or trading partners, and can support integration capabilities for product authentication (where required).

For the Healthcare industry, the solution optimizes inventory management by location tracking medical kits. It leverages device tracking powered by a GPS sensor, a GSM connectivity module, a bed of infrared sensors, and 24x7 cloud connectivity to locate, monitor, and assess the usage of the kits. It can also analyze the quantity and category of kits being supplied to hospitals and uses the data points to facilitate optimum usage of the kits.

The usage data can be monitored through a web-based dashboard on a digital device that monitors every movement of the kit, once it is taken off the shelf. The solution leverages blockchain technology in the surgical kit supply chain to enable untampered delivery of (sterilized) medical kits to hospitals and ensure return of surgical instruments in the kit post the surgery.

All these factors optimize costs, tracks usage frequency of individual instruments, and make changes in kit design while balancing the supply against demand. It even unlocks additional revenue streams in the form of upselling of add-on instrument packs beyond the basic kits.

THE FEATURES

Enabling optimal inventory management – preventing overstock and understock

Automating sterilization record keeping

Providing **role-based access and visibility** on inventory in real-time

Reducing inventory requirements and increasing quality of service to end-users

Optimizing route management

THE BENEFITS

Optimized inventory requirements and increased quality of service to end-users

Reduction in risks **of hospital-acquired diseases**

Reduction in **working capital requirements**

IoT WoRKS
by HCL Technologies

ABOUT IoT WoRKS™

IoT WoRKS™ by HCL Technologies is a dedicated Internet of Things business unit that enables organizations to experience IoT functioning and to create best-in-class solutions in their business context. By enabling IoT-led transformation, these solutions maximize effectiveness and return on asset investments.

With end-to-end IoT services for organizations across the three phases – Define, Build & Run – IoT WoRKS™ helps design enterprise IoT strategy, develop and run the IoT systems for realizing real business value. Solving imminent challenges in the industry today with the research-led approach, IoT WoRKS™ has launched a platform, IoT COLLAB - the destination for IoT-led business transformation for 21st century enterprises to co-create transformational IoT roadmap & solutions with customers.

WE HAVE DEVELOPED END-TO-END IoT OFFERINGS FOR ORGANIZATIONS ACROSS DIFFERENT IoT MATURITY LEVELS

Plan your IoT program customized to your needs

- Identify business case (RoI) and business pain points that IoT can solve
- Industry insights and benchmark
- IoT roadmap in line with desired business outcomes
- POC plan/Technology roadmap
- User-centric business process transformation project plan

Ideate & Validate — Execute — Realize

DEFINE DAY -1

BUILD DAY 0

RUN DAY +1

- Co-creation immersion workshop
- DevOps & Agile

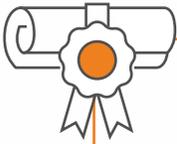## Implement your IoT program with secure ecosystem-based solutions

- IoTization - Device, gateway, connectivity, and security
- IoT Platform – Data storage, device management, data science, and workbench
- IoT applications and analytics
- Integration of IoT applications with rest of the IT landscape

Realize value from your IoT program with state-of-the-art IT/OT support services and analytics expertise

- Provisioning, measuring & monitoring
- Orchestrate IT/OT
- Platform Hosting and Micro-services
- High Performance Analytics and Insight-as-a-Service
- Uptime Assurance - 24x7 support

IoT WoRKS™
by HCL Technologies

AWARDS AND RECOGNITIONS

Recognized as a market leader in IoT by leading analyst firms, IoT WoRKS™ continues to strengthen its leadership position in fast growing global IoT services and consulting market. IoT WoRKS™ has been recognized for its capabilities, global leadership, and comprehensive portfolio including investments in solutions to demonstrate various interesting use cases.

- HCL has been named as a **Leader in IDC MarketScape for Worldwide Internet of Things Consulting and Systems Integration Services** November 2016, wherein the "Buyers rate HCL Technologies highly for growth strategy execution, employee management, and cost Competitiveness".

- **Everest Group named 'IoT WoRKS among leaders** for IoT services in its recent report titled "Internet of Things Services – PEAK Matrix Assessment and Market Trends".

- **HfS positioned HCL in winner's circle** for IoT services in its report titled, HfS Blueprint Grid: Internet of Things (IoT) 2016.

- **Zinnov has named HCL in Leadership zone in Zinnov Zones 2016** Global IoT Technology Services.

- IoT WoRKS™ selected as finalist for Testbed Solution Award at IoT **SWC 2017, Barcelona for the Testbed proposal on Cold Chain Logistics.**

- IoT WoRKS™ won the **'Best Testbed' award** for its industrial IoT Surgical Kit Track & Trace solution in IoT SWC 2016, Barcelona

HCL@THINK 2018
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U & i

This year, HCL's presence at Think 2018, is themed with an iconic representation of the letters "U & i". Through this coinage, we aspire to represent the growing tide of productive infusion of data analysis, cognitive capabilities and intelligence-based decision systems (denoted by the "i") into the mainstream enterprise operational rubric of our clients worldwide (denoted by "U").

We believe this rapid convergence of technology, processes and people, will create a self-sustaining eco-system for 21st century enterprises that will mature to realize value beyond the norm for years to come. Most of the 30 HCL solutions being showcased at Think 2018 are testament to this evolving philosophy for enterprise solutions that bear a similar promise for the future.

And finally, we also realize that the human-machine capability integration is something that cannot become a reality in isolation. In fact, it will be a product of close partnerships (as denoted by the melding of human and robotic minds in the visual), like the one forged by HCL and IBM and many others to come. All of which will take steps to help create a world that understands the risks and appreciates the benefits of making this next big human-inspired technological leap ahead.

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