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Intelligence.
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How the Internet of Things (IoT) and Advanced Analytics Can Transform an Industrial Hygienist's Risk Assessment Abilities

Leveraging Technology to Enhance Workplace Safety

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TSI Incorporated



A decorative bar chart with vertical bars of varying heights and colors (blue, orange, green) on the left side of the slide.

Learning Objectives

- Summarize your current challenges
- Explain ways that interconnected sensors can improve efficiency and one's risk assessment abilities
- Identify and describe new ways of analyzing and visualizing data
- List 2 primary features that differentiate the OmniTrak™ Solution from other survey tools

Challenges You Face

The Complex Role of the Industrial Hygienist

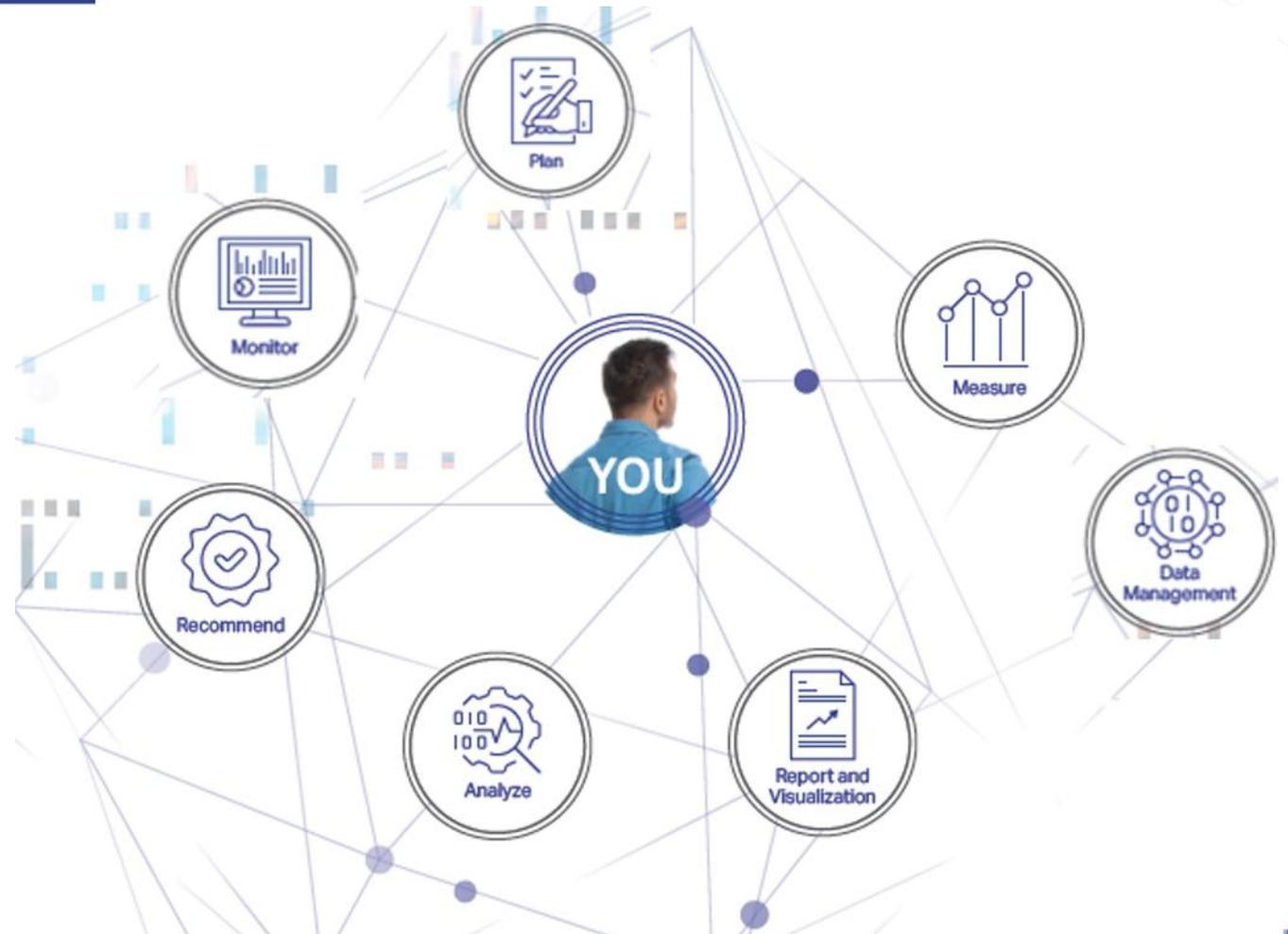
- Industrial Hygienists assess worker exposure to harmful substances.
- Data collection is often manual and time-consuming.
- Challenges include managing vast amounts of data from multiple locations.

Visualizations are labor intensive and often don't convey the message

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Your Typical Workflow



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Enter the Digital Revolution

The Impact of IoT on Industrial Hygiene

- The Internet of Things (IoT) brings interconnected sensors to monitor workplaces in real-time.
- Continuous monitoring of hazards like chemicals, noise, and air quality.
- Seamless data collection from remote locations.

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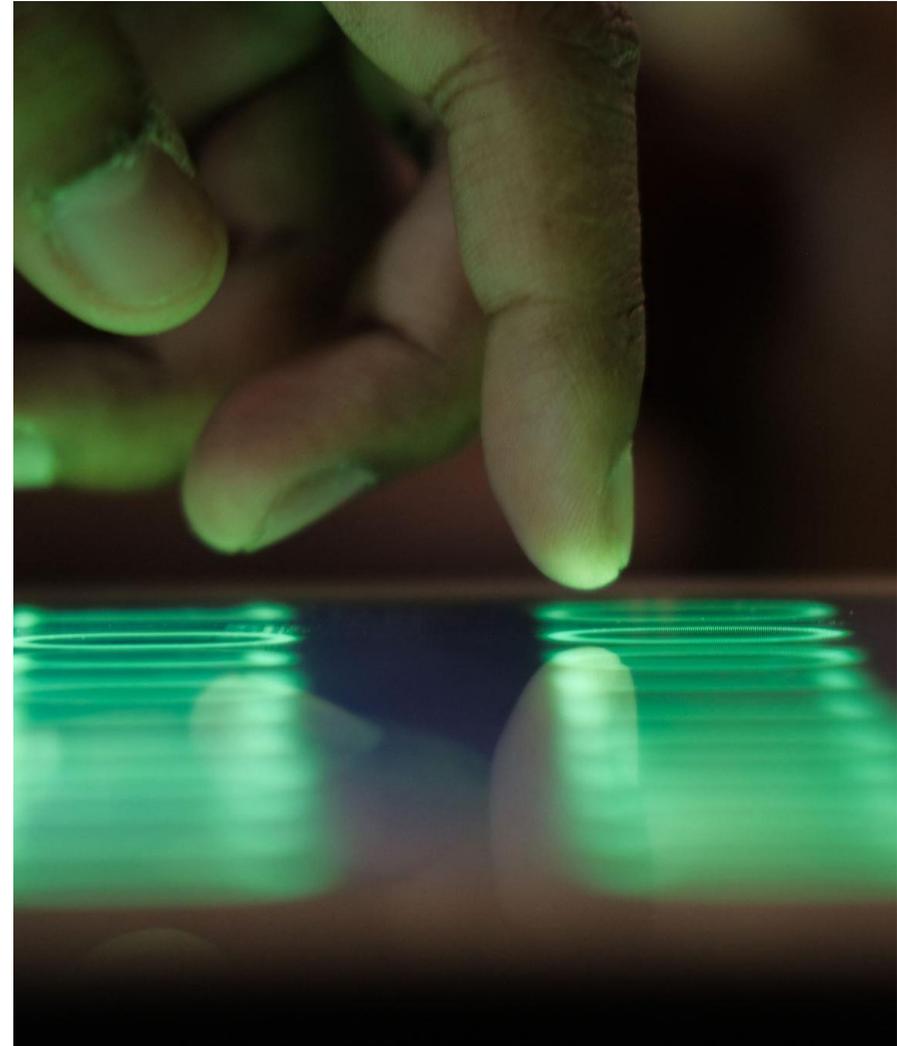
YOUR EGO POWER+ RESOURCES



Real-Time Data at Your Fingertips

Real-Time Insights with IoT Sensors

- IoT sensors provide immediate feedback on environmental conditions.
- Enables early detection of harmful exposures.
- Alerts are triggered for immediate action.



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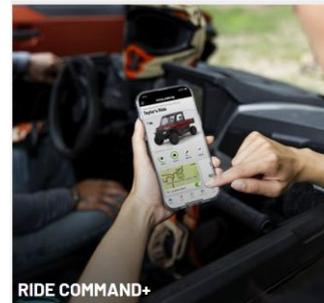
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✓	Route Planning & Tracking	✓
✓	Integrated Waypoints	✓
✓	Group Ride	✓
✓	Event Planning	✓
✓	Ride Sharing	✓
	Vehicle Health	✓
	Issue Diagnostics	✓
	Vehicle Locator	✓
	Location Alerts	✓
	Post Ride Report	✓
	Group Ride+	✓
	Ride Tracking+	✓
	Maintenance Reminders	✓
	Check In Messages	✓

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Advanced Analytics – Making Sense of the Data

Turning Data Into Actionable Insights

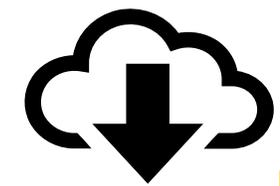
- Advanced analytics transforms raw data into trends and predictions.
- Identifies contamination hotspots, trends over time, and compliance issues.
- Allows for proactive safety measures rather than reactive corrections.

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OmniTrak Solution



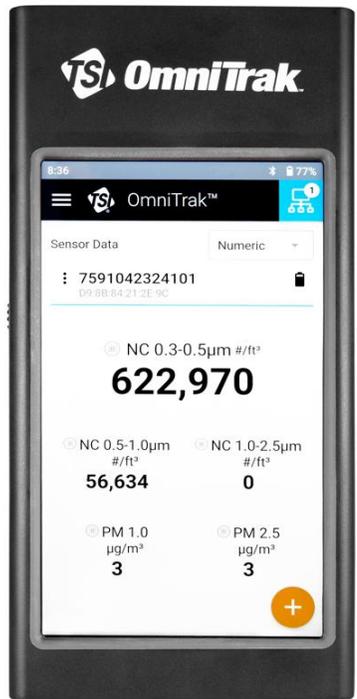
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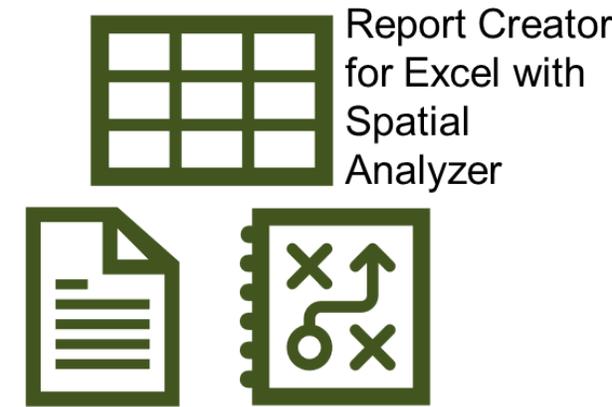
Study Manager
(TSI Link)



BLE (Bluetooth Low Energy)



CSV File





TSI OmniTrak™ Solution Demo



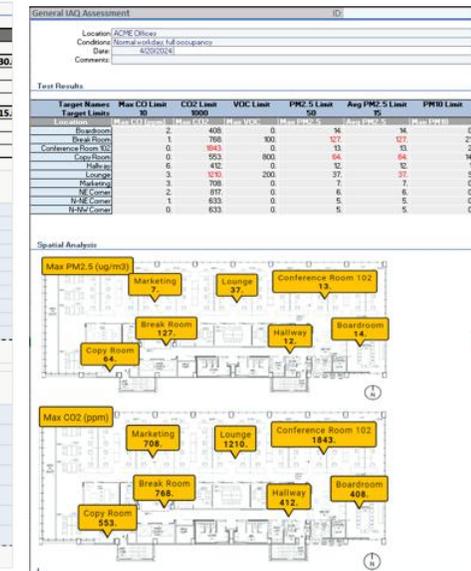
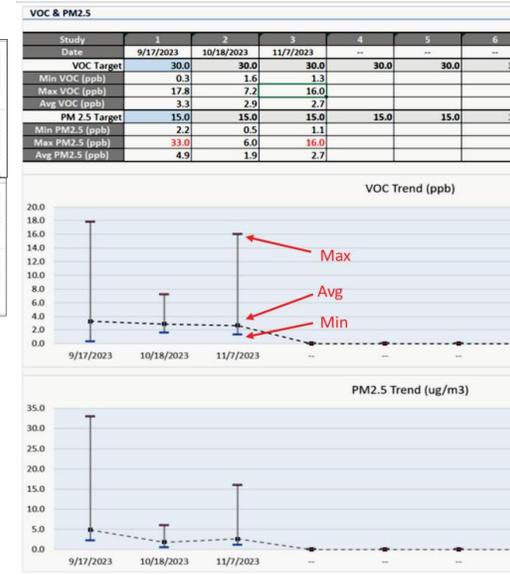
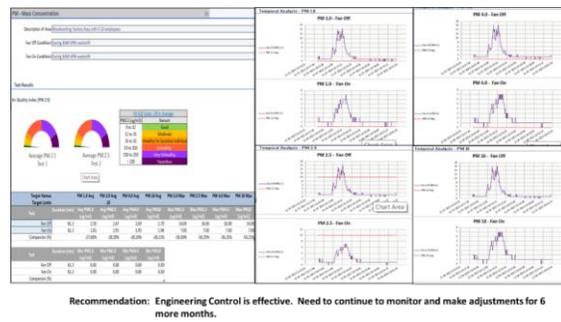
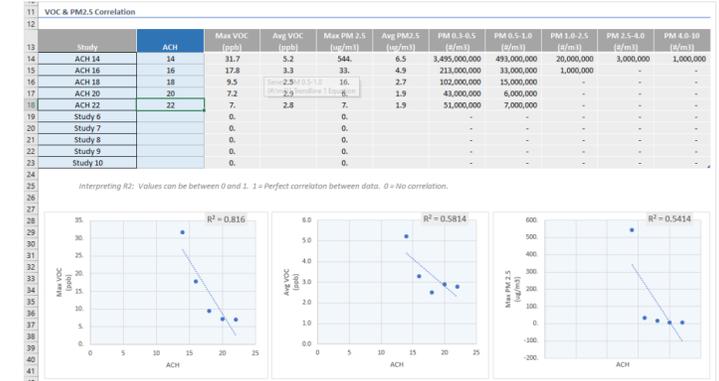
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What: Report Creator

- TSI Link™ Standard-Connected Subscription
- Excel Report Creator (Excel Add-On)
 - A/B Comparison
 - Basic Analytics
 - Spatial Mapping
 - Inhalation Exposure
 - Spatial Analysis
- Data Visualization Tool





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Wrap-Up

- IoT and advanced analytics have revolutionised risk assessments.
- Connected survey and continuous, real-time monitoring ensures a safer work environment.
- Technology empowers you to make smarter, faster, and more accurate decisions.

Resources

- To learn more, visit: <https://tsi.com/transform/>
- Collect Data and Run a Comparison Report with TSI OmniTrak™ Solution
 - Watch Video: https://youtu.be/QiCbPEFtZ6Q?si=9YJnemlVLOcM_5gl
- For questions, please reach out to aaron.schroeder@tsi.com