SafeDig AI

SafeDig AI is Zensar's platform that leverages AI, RPA, and GIS to streamline and optimize digging operations for utility and infrastructure service providers in the water, energy, transport, airport, construction, and telecommunications sectors. Zensar has filed a patent for SafeDig AI technology.

Need for this offering

Site engineers must perform specialized digging operations without disrupting existing services to implement and maintain new services. The current process is highly manual, involving multiple sources of information that need to be deciphered to provide accurate warnings and recommendations. This manual approach is prone to human error, high costs, and unlimited liability risks, including potential loss of life.

Features

- **Automated map downloading:** SafeDig AI can automatically download relevant maps
- **AI-driven insights:** Reads and understands connections between maps to generate recommendations
- **Continuous learning:** Uses past data to enhance recommendations and improve accuracy over time
- **High transaction volume:** Capable of processing at least 1,000 transactions per day
- **User-friendly output:** Provides recommendations via a one-click app for easy access by field engineers

Key differentiators

- SafeDig AI leverages GIS, RPA, and deep learning to automate the entire process, ensuring efficiency and accuracy
- SafeDig AI's cutting-edge AI algorithms enable real-time risk assessment and anomaly detection, ensuring safe operations
- Prioritizing safe deliveries and optimizing logistics have resulted in a 50 percent reduction in turnaround time
- Provides end-to-end business process transformation for Safe Dig repair and maintenance processes of underground utility assets
- Automates the collection of map processing using RPA, computer vision, and machine learning
- Leverages AI for delivering greater accuracy, efficiency, and safety at scale
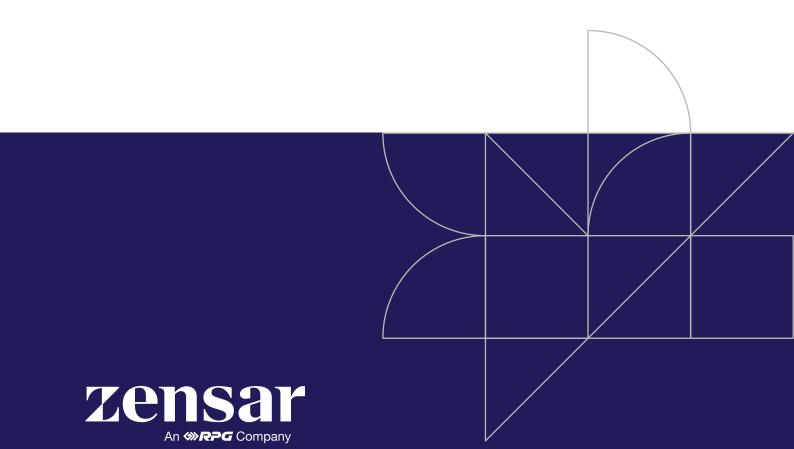- Enhances user experience and efficiency through a designed mobile app

Benefits

- Offers lower transaction costs and reduced risk compared to manual processes
- Near 100 percent accuracy as SafeDig AI is 2 percent more accurate than current manual services
- Can instantly scale operations without relying on human involvement
- Improves field force utilization, allowing more activities to be accomplished with the same team
- Customers pay a setup fee and then only for transactions, enabling scalable onboarding

Use cases

- **Water utility services:** Automates map analysis when installing new pipelines in urban areas to avoid existing infrastructure, reducing risk
- **Energy sector:** Processes GIS data to guide engineers and ensure safe installation when laying new power cables in a city district
- **Routine maintenance:** Generates updated maps and recommendations to prevent service disruptions during regular maintenance of underground utilities
- **Emergency repairs:** Quickly processes GIS data to provide accurate repair recommendations in emergencies, like a burst water main

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For more information, please contact: **info@zensar.com | www.zensar.com**