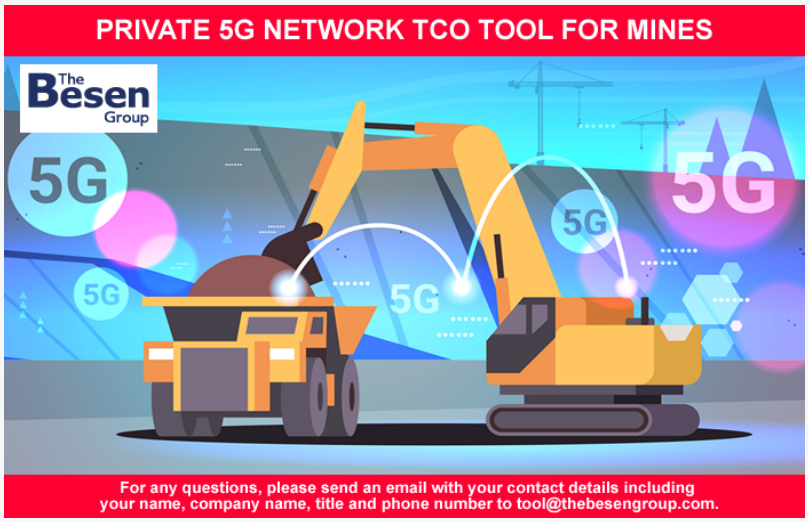
The Besen Group Releases Private 5G Network TCO Tool for Surface and Underground Mines

WASHINGTON DC , DC, UNITED STATES, September 9, 2026 /EINPresswire.com/ -- The Besen Group, an international mobile data industry management consulting practice, today announced the launch of its Private 5G Total Cost of Ownership (TCO) Tool for Surface and Underground Mines, enabling mining companies and system integrators to evaluate the costs, operational requirements, and potential business benefits of deploying private 5G networks.



The Besen Group Private 5G Network TCO Tool for Mines

As mining companies accelerate digital transformation initiatives – including autonomous vehicles, remote operations, connected equipment, worker safety, asset tracking, predictive maintenance, and real-time video, secure and high-performance wireless connectivity is becoming increasingly important.

Determining the true cost and potential return on investment of a private 5G network can be challenging because of deployment requirements vary significantly between surface and underground mining.

The Besen Group's TCO tool provides mining companies and system integrators with a structured framework for analyzing the CapEx, OpEx and opportunity costs associated with private 5G network deployments. The tool enables users to evaluate different network configurations and deployment scenarios based on the unique requirements of their mining operations.

"Mining companies are increasingly evaluating private 5G as a strategic technology for transforming their operations, but understanding the total cost of ownership remains a critical part of the investment decision," said Alex Besen, Founder and CEO of The Besen Group LLC.

“Our TCO tool gives mining operators and system integrators a comprehensive view of the costs associated with deploying and operating private wireless networks in both surface and underground environments, enabling them to make more informed investment decisions.”

Unlike generic wireless network cost models, The Besen Group’s Private 5G TCO Tool is designed to address specific requirements of mining environments. Surface and underground mines can have substantially different network architectures, coverage requirements, equipment configurations, propagation characteristics, and operational challenges.

The TCO tool can help mining companies and system integrators evaluate key cost components including:

- Spectrum-related costs
- Private 5G network infrastructure and radio equipment
- Core network and edge computing infrastructure
- Small cells and other radio access network components
- Backhaul and transport
- Network installation and integration
- Network operations and maintenance
- Device and connectivity requirements
- Other CapEx and OpEx requirements associated with private 5G deployment

The limited version of the Private 5G TCO Tool for Mines can be downloaded at:
http://www.thebesengroup.com/downloads/Private.5G.TCO.Tool.Mine.Limited.xlsx

The Besen Group’s Tool Brochure contains all our business case tools and TCO tools for private LTE networks, private 5G networks and neutral host networks.

The tool brochure can be downloaded at:
http://www.thebesengroup.com/downloads/Tool.Brochure.pdf.

The Besen Group offers its tools on a corporate license basis in Excel format. For pricing information or customization options, please send an email with contact details including name, title, company name, phone number to tool@thebesengroup.com.

About The Besen Group (www.thebesengroup.com)
The Besen Group is an international management consulting practice to the mobile industry headquartered in the Washington DC area, with representatives in Paris and Tokyo. Its mission is to provide mobile players with tools, knowledge, and services enabling them to perform optimally in their mobile environment. The Besen Group’s competitive edge is based on practical experience with mobile operators, mobile vendors, and a mobile data laboratory.

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