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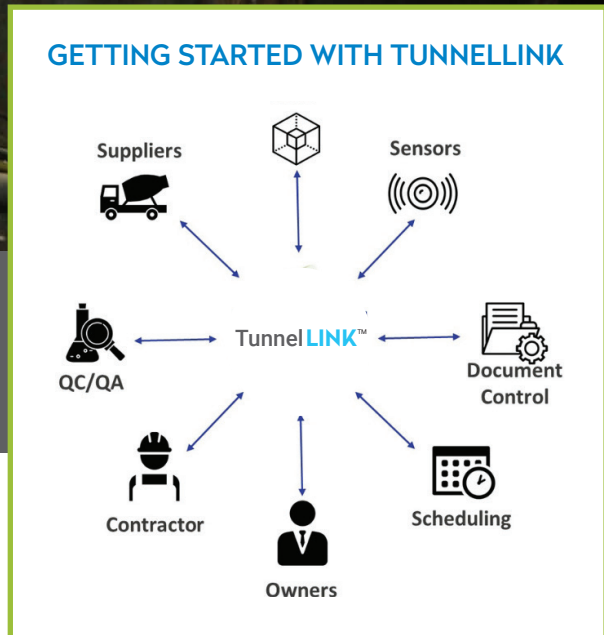


TunnelLINK™ by **binni**
Productivity Software for
TBM Tunnel Constructors



A cloud-based software platform that streamlines how information from tunneling operations is captured, aggregated and applied. Using mobile applications, TunnelLINK simplifies the field reporting of TBM production and advances. The platform links multiple data sources into dashboards and provides real-time insights and analysis into active tunneling operations. It is a single-source tool to manage data from all relevant processes in the tunneling operation.

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Productivity Software



BENEFITS

- Quick and accurate quality and activity reporting for effective decision making and faster resolution of potential issues
- Enhanced report quality
- Digitization of project data at the point of capture reduces the data handling and the potential for errors in data input
- Improved reaction time to data anomalies due to the ability to quickly identify trends of correlated information from different data sources
- Higher productivity due to streamlined, easier reporting and less disruptions from team members inquiries
- Historical views of project data available for trend reporting and analysis
- Real-time information promotes collaboration amongst entire construction team

SAVE
Save time and money by simplifying how TBM engineers capture data and create reports. Eliminate the risk of errors and reduce interruptions from team member inquiries

LINK
Integrate multiple data sources – raw data from sensors and instruments, and data from other project tools

CUSTOMIZED
Design custom dashboards to meet the specific needs of each unique project. Easily adaptable to project requirements

REAL-TIME
Simplified data collection and automated reporting for real-time insights. Surface personnel gain live insights into underground operations

STREAMLINED
Digitizing processes and reporting eliminates manual, time-consuming compilation and distribution of data

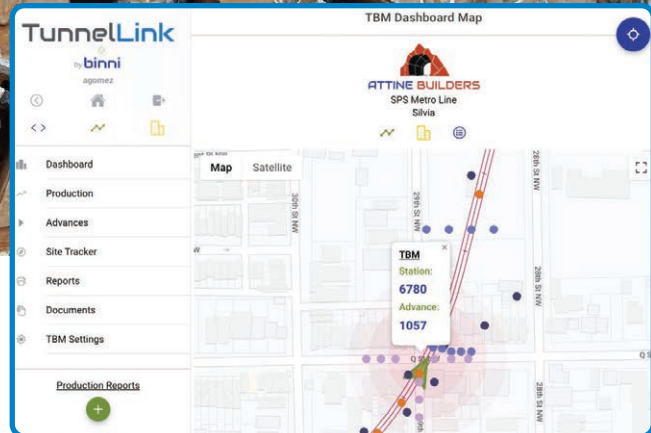
SAFETY
Deliver necessary decision-making insights, critical for a safe and successful operation

COLLABORATION
Collaborate across a single project, multiple projects or an entire corporation

SHARE
Share operational insights with the entire team, no matter where they are

- Combine, correlate, and consume unified information from tunneling operations in real-time
- Normalize and visualize data from TBM sensors, geotechnical instrumentation, inventory management systems, and personnel and asset tracking controls
- Digitize processing and reporting to reduce errors, increase productivity, and provide a single platform for team collaboration
- Reduce work interruptions by avoiding the need for manual collection, creation and distribution of data and reports
- Promote sustained focus on mission critical tasks
- Web-based and mobile app dashboards provide easy access to live data and historical trends





REPORTING

Time-Based

TBM Operations: The vast amount of sensor data and productivity details that are constantly generated during TBM operations can be visualized in custom plots, graphs, tables and dashboards.

Shift Reports: Digitize and deliver shift and daily production reports, generate custom checklists and track consumables and other tunnel activities.

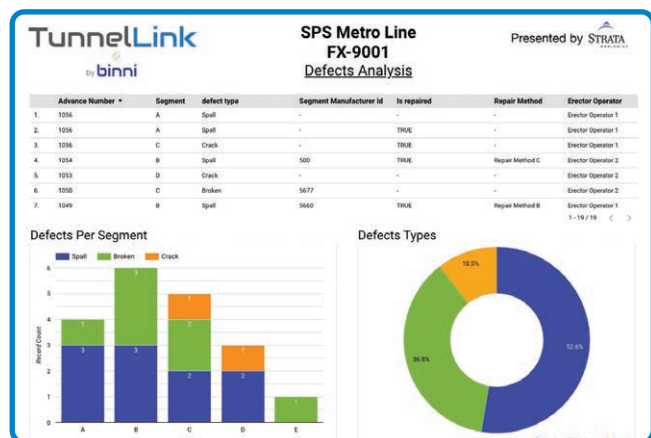
Advance- & Production-Based

TBM Operations: The quality data that is generated by field teams for each advance is digitized at the point of capture, increasing efficiency, reducing labor and allowing for real-time analysis and collaboration.

Advance Reports: Deliver ring build, ring defect, grout quality reports, as well as other processes that require reporting for each advance, and generate submittals.

Map-Based (Geolocation)

TBM position and tunnel alignment can be visualized and monitored. Other points of interest along tunnel drive including key structures and sensors can be evaluated. Visualize up-to-date location of the TBM and integrate different Google Maps tools.



DATA CONSUMPTION AND ANALYSIS

API Integration

- Connect to and exchange data with other platforms on a project
- Integrate and correlate multiple sources of data
- Build proprietary tools to analyze project information



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