

LHDA SHOWCASES ROLE OF TECHNOLOGY IN INFRASTRUCTURE AND ENVIRONMENTAL MANAGEMENT AT DIGITAL INNOVATORS SUMMIT



LHDA has no option but to embrace the latest technology in managing its environmental, infrastructure and social operations, Public Relations Manager Mr Mpho Brown told delegates at the Digital Innovators Summit (DIS) held in Mohale's Hoek.

Presenting on how LHDA applies technology to maintain the country's water infrastructure, he explained that the Authority collects extensive data on how its assets are performing and how the surrounding environment is responding. He detailed how instrumentation around the Katse Dam wall, including ambient vibration testing and monitoring of consolidation and curtain grouting, enables LHDA to track the dam's structural condition over time

He also pointed to the newly inaugurated Senqu Bridge, which is equipped with strain gauges and temperature-monitoring instruments, as another example of LHDA's use of real-time data collection in its infrastructure. He noted that the Authority is currently using two Tunnel Boring Machines (TBMs) fitted with double-shield technology to bore a 35km tunnel connecting the Katse and Polihali dams, a project that relies heavily on precision engineering and monitoring technology.

LHDA's participation in the Summit underscored the Authority's broader commitment to integrating modern technology at every stage of the Lesotho Highlands Water Project's implementation, from construction and structural monitoring to long-term environmental stewardship.

