



NEWS RELEASE

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CRITICAL INFRASTRUCTURE TECHNOLOGIES PROVIDES GLOBAL PATENT UPDATE AND EXPANDS DEFENCE MARKET REACH

Vancouver, British Columbia – October 17, 2025 – Critical Infrastructure Technologies Ltd. (CSE: CTTT) (OTC: CITLF) (FRA: X9V) (“CiTech” or the “Company”), a developer of autonomous, high-capacity mobile communications and security platforms, is pleased to provide an update on its international patent filings for its Mobile Radio Station technology—an innovation that underpins the Company’s growing presence in the global defence and critical infrastructure sectors.

Patent Overview

CiTech’s invention defines a deployable, autonomous mobile radio station designed for rapid establishment of secure communications in remote or high-threat environments. The system overcomes the limitations of conventional mobile LTE and radio infrastructure by integrating transportability, energy autonomy, and intelligent automation.

The patented design substantially expands CiTech’s Total Addressable Market, extending beyond traditional telecommunications infrastructure into defence, disaster response, remote industrial operations, mining, and emerging aerospace and satellite applications.

Core System Features

- Integrated Mobile Platform – Housed within a standard ISO shipping container containing all communications, power, HVAC, and control systems.
- Scissor-Lift Communications Tower – Deploys hydraulically from a stowed position to approximately 16 metres, supporting payloads up to 250 kg and wind-rated to 45 m/s.
- Autonomous Deployment – PLC-based automation enables full deployment—including tower lift, solar array expansion, and stabilising leg extension—in approximately 30 minutes, with remote or local control.
- Hybrid Power Architecture – Incorporates DC generators, up to 4.8 kW solar input, and 150 kWh of onboard battery capacity for continuous off-grid operation.
- Redundant Climate Control – Dual 5 kW HVAC systems maintain internal environmental stability in all conditions.



Competitive Defence Advantage

CiTech's Nexus 20 platform delivers a fully self-contained, air-liftable communications hub capable of autonomous field operation, ideal for rapid network establishment in defence operations, disaster recovery, and remote mission support.

A key differentiator of CiTech's design is its super-rigid, precision-engineered mast, which maintains complete stability even under extreme wind conditions. Unlike competitor systems that suffer vibration and movement during operation, CiTech's mast design ensures consistent, uninterrupted signal delivery—a critical requirement for mission-critical defence and communications environments.

Its energy independence, automation, and structural integrity significantly reduce personnel exposure and logistics, enhancing reliability and operational readiness in demanding field conditions.

The system's modular and AI-enabled architecture also positions CiTech for next-generation applications, including:

- Rapid-deploy satellite ground stations and mobile telemetry for aerospace and UAS test ranges.
- Counter-UAS and electronic perimeter defence, areas of growing focus in NATO and European defence programs.
- Critical infrastructure protection and smart city security, enabling mobile monitoring for ports, airports, and large-scale civic events.

Global Patent Coverage

CiTech has filed patents for "A Mobile Radio Station" in: Australia, Canada, China, Europe, India, Japan, Republic of Korea, South Africa, Thailand, Vietnam, and the United States.

The South African patent has been granted, with all other jurisdictions under or awaiting examination. This extensive global IP coverage ensures broad protection of CiTech's Nexus 20 technology across major defence and communications markets.

CEO Comment

"Achieving global patent coverage for our Nexus 20 platform strengthens CiTech's strategic position in the defence and critical communications sectors," said Brenton Scott, Chief




Executive Officer of CiTech. “Our patented, rigid-mast design delivers stable, uninterrupted connectivity in any environment—providing a decisive operational advantage for defence, emergency response, security/surveillance and industrial users worldwide.”


Summary Insight

The Nexus 20 patent establishes CiTech as an innovator in autonomous, cyber-resilient, and energy-independent communications infrastructure. By combining mechanical innovation, renewable energy systems, and intelligent control, CiTech delivers a new class of mobile infrastructure solutions for defence, emergency, and strategic industrial operations worldwide.

On Behalf of the Board of Directors:

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About Critical Infrastructure Technologies Ltd.

Listed on the CSE with operations in Perth, Western Australia, CiTech is creating autonomous, high capacity, rapidly deployable technology that delivers essential services to where they are needed most. CiTech is targeting the mining, defence, border security/surveillance and emergency services sectors in relation to its first product release, the Nexus 16, which aims to provide critical mobile telecommunications for such sectors. Using patented technologies, CiTech’s self-deploying platform (SDP) provides a solution for two of the greatest limitations of current rapidly deployable communication solutions, strength of the tower and ability to rapidly self-deploy and operate, in numerous situations. The SDP is designed to support radio equipment including LTE (Long Term Evolution) and several other technological payloads, such as surveillance and anti-drone systems. CiTech has completed the research and development phase and is currently commercialising the first of many products that will be released. To learn more about the Company, visit www.citech.com.au.

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Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company’s actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is based on the reasonable assumptions, estimates, analysis and opinions of management made in light of its experience and perception of trends, current conditions and expected developments, and other factors that management believes are relevant and reasonable in the circumstances at the date such statements are made. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. All forward-looking information herein is qualified in its entirety by this cautionary statement, and the Company disclaims any obligation to revise or update any such forward-looking information or to publicly announce the result of any revisions to any of the forward-looking information contained herein to reflect future results, events or developments, except as required by law.