April 2025

The market for Ciconia's C&CAS is worth billions.

Ciconia's Vision

To enable safe and dense aerial operations of crewed & uncrewed aircraft.

Despite the wide variety of drones available, the demand for aerial services remains unmet

Ground transportation in urban areas is overloaded: roads are jammed, people waste hours commuting just a few kilometers, vehicles stuck in traffic pollute the air, goods — sometimes critical — are delayed, and disaster relief operations are hindered by blocked roads.

The emerging aviation sector — Uncrewed Aerial Systems (UAS) — has developed drones capable of filling the gap. These drones are safe, easy to operate, and ready to be deployed on a much larger scale. Billions are being invested in air taxis - Advanced Air Mobility (AAM).

Although the new aviation market is growing rapidly, the demand for aerial services remains unmet. While the supply side is capable of responding, the gap is much larger than what the entire UAS industry can currently fill. **The reason is that the vast majority of airspace is reserved for safety margins to prevent aerial vehicles from colliding with one another.**

NASA included Ciconia's C&CAS (Coordination & Collision Avoidance System) among a select group of technologies deemed essential for the future of aerial firefighting

Ciconia's flight-tested Coordination & Collision Avoidance System (C&CAS) — a decentralized, V2V-based CAS, for all aerial vehicles operating in low-altitude urban airspace — can close that gap.

Ciconia's C&CAS has been successfully tested on helicopters, drones, and fixed-wing aircraft. With C&CAS, both crewed and uncrewed vehicles can safely operate in close proximity, as the system autonomously resolves all midair conflicts.

The market for low-altitude, decentralized, midair conflict resolution is worth billions

A small drone can pose a risk to an air taxi or a helicopter. Thus, all drones will have to have a CAS. The number of drones is expected to grow exponentially in the coming years.

This market is here to stay

As the demand for airspace grows, data will be collected, and system upgrades will be necessary.

The first to capture a significant customer base will lead the market

The first users will provide the large amounts of data needed to verify and improve the system, while also encouraging others to join.

Could a competitor develop a similar solution?

It is possible, but highly unlikely. Many have tried and failed, to develop a collision avoidance system for dense aerial traffic, involving crewed and uncrewed vehicles of various types.

A drone & a helicopter in C&CAS flight test, Tx Dec. 2024

A major avionics provider has selected Ciconia's C&CAS to be integrated into its avionics systems

Ciconia's multidisciplinary, dedicated team is well positioned to lead the market.