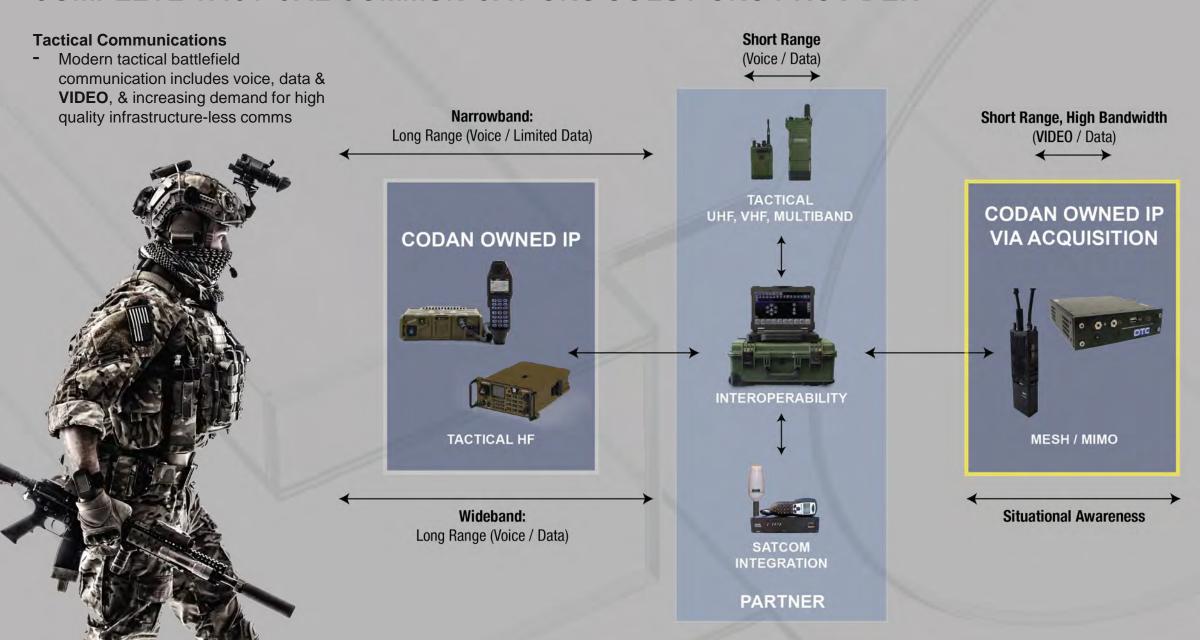


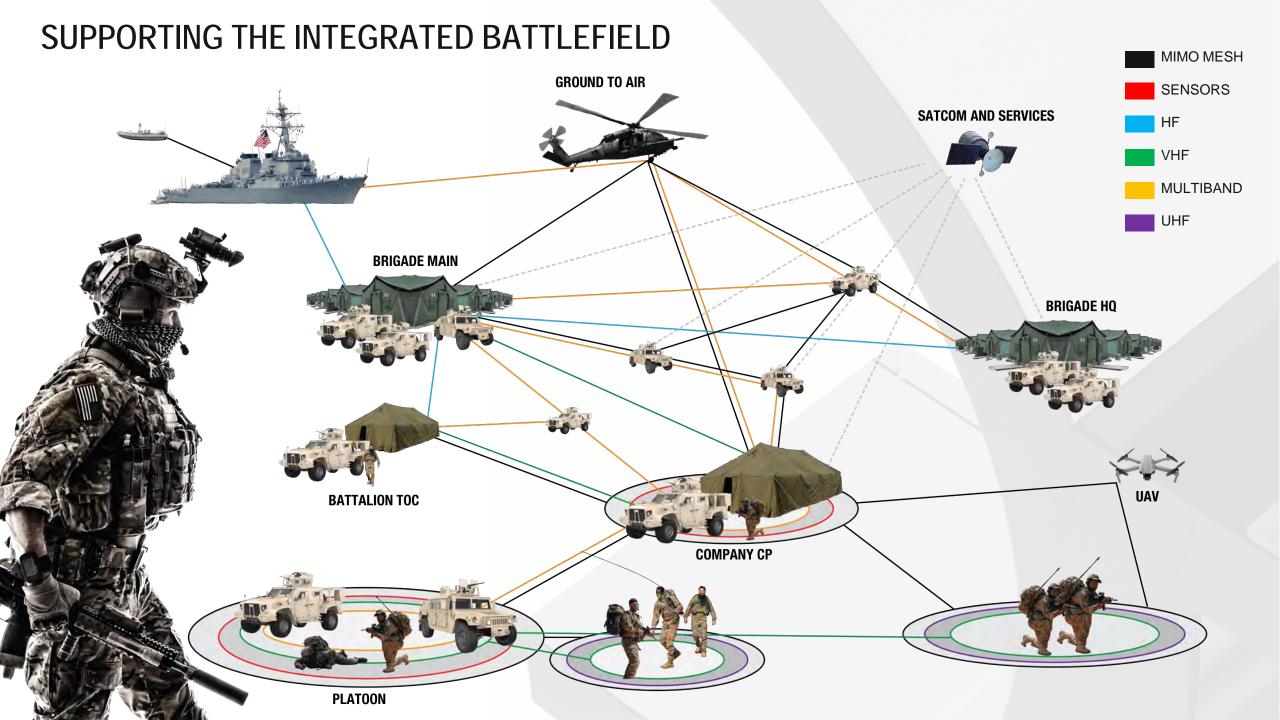
# **Tactical Communications Panel Discussion**

Presented By

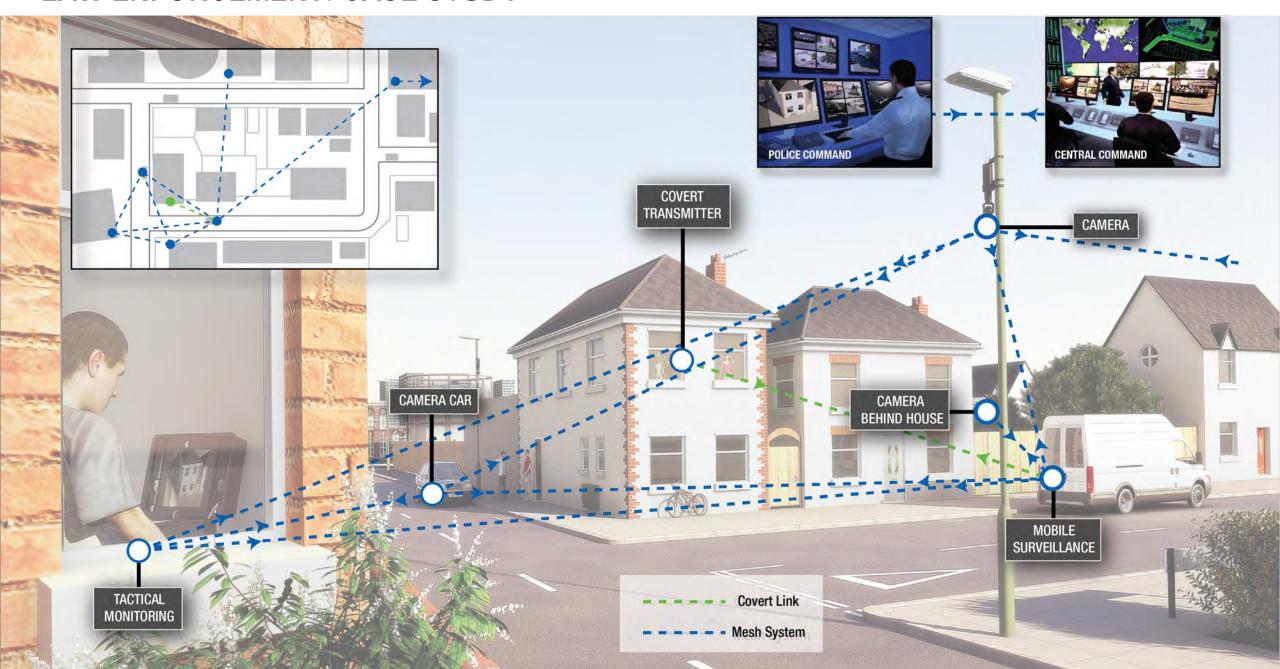
Paul Sangster, Executive General Manager Neil McSparron, Chief Technical Officer Gene McConville, VP Business Development & Government Relations

## COMPLETE TACTICAL COMMUNICATIONS SOLUTIONS PROVIDER

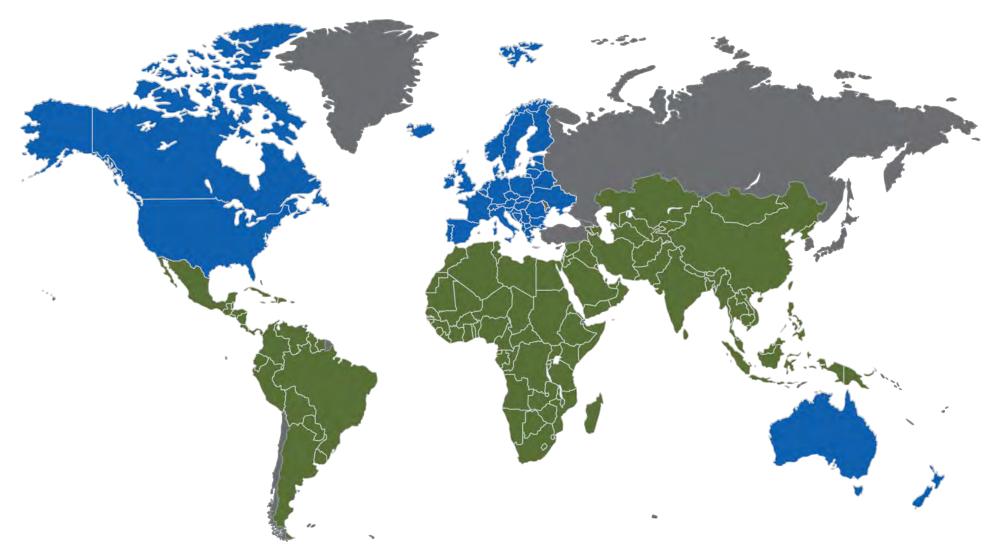




# LAW ENFORCEMENT: CASE STUDY



# ACQUISITION OF DTC HAS SIGNIFICANTLY EXPANDED OUR ADDRESSABLE MARKETS







# MARKET DIVERSITY ENSURES REVENUE STABILITY AND GROWTH



**MILITARY** 



LAW ENFORCEMENT & INTELLIGENCE



UNCREWED



BROADCAST



COMMERCIAL / NGO

#### Market Segment

- Army
- Navy
- Airforce

#### **Customer Type**

- Defence
- Para Military
- Special Forces

#### Market Segment

- Safe Cities
- Domestic Security

#### **Customer Type**

- Intelligence Community
- Public Safety
- Homeland Security

#### Market Segment

- Air
- Ground
- Surface

#### **Customer Type**

- Military
- Law Enforcement
- Commercial

#### Market Segment

- Wireless Camera
- Remote Production

#### **Customer Type**

- Sports
- News
- Entertainment

#### Market Segment

- NGO
- Commercial
- Oil & Gas

#### **Customer Type**

- Humanitarian
- Peacekeeping
- Transport



## MILITARY / DEFENCE MARKET

- Paradigm shift in battlefield information requirements
  - Consider Ukraine as an unfortunate 'live' example
    - Dynamic Situational Awareness is a key success factor
    - Live Troop positions, Video footage from Drones for situational awareness
    - >10 times the information traffic is required
- How is Codan | DTC technology applicable?
  - Software Defined Radio is a Core Technology within Codan & DTC
    - Waveform enhancement is decoupled from Hardware change
    - Multiple waveforms can be implemented in one platform
    - Each waveform targeting different military applications
  - Codan | DTC Mesh offers
    - Mobility, IP, Video, Voice and Position Data from one radio
    - Product offerings with MIL-STD compliance







# LAW ENFORCEMENT AND INTELLIGENCE TECHNOLOGY

- Market now demands 'IP streams' for all Surveillance streams with evidence recording moving to the 'Cloud'
- How is Codan | DTC technology applicable?
  - Tailored Waveforms providing Non-Line-Of-Sight communications
  - Ultra reliable products (dependable solution)
  - Size, Weight and Power advantages easing deployment
  - 'Spectrum Sensing' capability
- Deep Domain knowledge (especially in Spectronic)
  - Product design and functionality is tailored for the application
  - Accredited Encryption and 'court tested' evidential integrity
  - Comprehensive Solutions with the Portfolio
    - Tactical stand-alone deployments
    - Wide area collection systems using deployed 'basestations'
    - Integrated software solutions collecting and managing the data

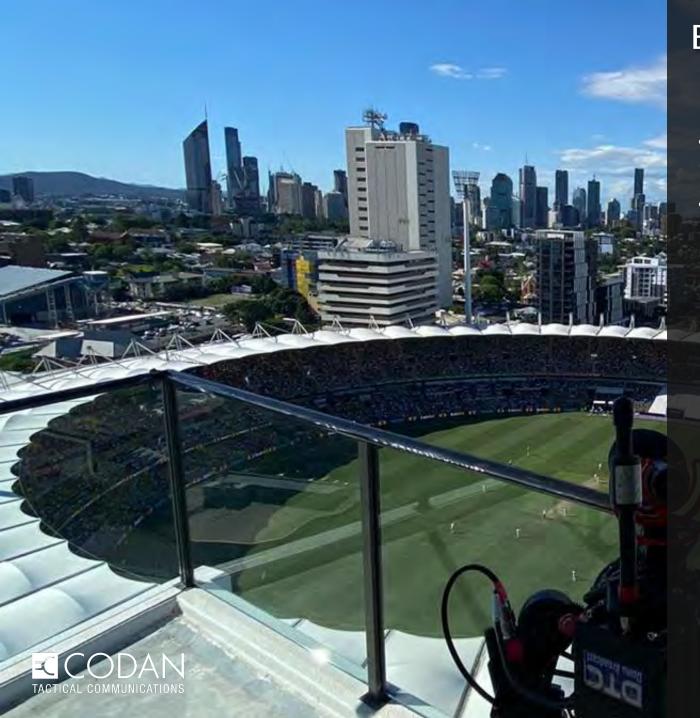
### **UNCREWED TECHNOLOGY**

- "Uncrewed Robotics are an efficient technology in any conflict" \*
  - Nagorno-Karabakh Conflict (Sep Nov 2020)
  - Ukraine (Feb 2022 ongoing)
- Growing Opportunities exists in the Military, Law Enforcement /Intel & Commercial sectors
- How is Codan | DTC technology applicable?
  - Size Weight and Power (SWAP)
    - DTC possesses a 'sweet spot' in power, weight and size .v. capability
    - Enables future 'Swarm Drone' applications
  - Low and Consistent Transmission Latency
    - DTC Mesh technology offers a consistent 'low latency' link that is ideal for Video streaming from a UAV
    - The radio link can be combined with DTC low latency digital video codec providing a powerful capability in a credit card sized package

\* Unmanned Ground Forces: The Emergence of a New Industry in Europe & its Future Implications, Source: FINABLE, 8<sup>th</sup> December 2020







# **BROADCAST TECHNOLOGY**

- Broadcast Customers are now demanding 'remote production' rather than production at the 'venue'
- How is Codan | DTC technology applicable?
  - Highest Quality Video Encoding
    - Ultra High Def (UHD) 4k Video encoding and decoding
    - Low latency Video Codec solutions (HEVC and H.264)
  - Robust Non-Line-Of-Sight Wireless links
    - Highest performing RF links in the market
    - DBS offers both 'COFDM Point-to-Point' & 'Mesh' Technology
  - Remote Production and Systems Integration
    - Ultra High Definition Video over IP links enabling the 'Production' to be mixed, editing and produced and distributed remotely

## COMMERCIAL / NGO TECHNOLOGY

- How is Codan | DTC technology applicable?
- Customers such as International Aid Agencies require reliable voice communications independent of local infrastructure and IP Data networking
- Codan's waveform technology provides the best enduser experience through innovations such as:
- Digital Voice Waveforms
  - Eliminates the hiss and crackle associated with legacy radio comms
  - Clearest possible voice in difficult conditions
- Automatic Link Establishment (ALE)
  - Implemented to global standards for agency / partner interoperability
  - Codan unique enhancements dramatically simplify operations and remove the requirement for specialist radio operators
- DTC Mesh
  - The IP distribution and the comprehensive 'Talk groups' play into this sector
  - DTC Mesh sells into natural resources markets sharing machinery metadata



