metropolitan
technologies

Connect, protect, direct mission-critical data



Daly Brown
Co-Founder and CEO
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An experienced team

Deep industry expertise in defense system integration with a **proven track record** of delivering mission-critical applications and a reputation for innovation and collaboration.



Daly Brown, P.Eng

Co-Founder and CEO

daly@metropolitan.tech

> 15 years of experience

Previously a product owner, technical lead, and senior systems and software engineer responsible for the design, development, and testing of mission-critical applications for aerospace and defence.

Led research collaborations with academia in artificial intelligence, machine learning, target tracking, and information fusion.

previously GENERAL DYNAMICS Mission Systems



Nick Foubert

Co-Founder and CTO

nick@metropolitan.tech

> 14 years of experience

Previously a technical lead and senior software developer responsible for the design, development, and testing of mission-critical applications for aerospace and defence.

Conducted research and development in biometric security and biomedical applications of machine learning.

previously GENERAL DYNAMICS Mission Systems

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Vision

To be the **secure digital backbone** of the world's **critical infrastructure**.



Energy & Utilities



Cities



Transportation



Mining



Industry 4.0



Defence & Security

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A proven approach



The resilience of **battlefield networks** and safety of **aerospace**.

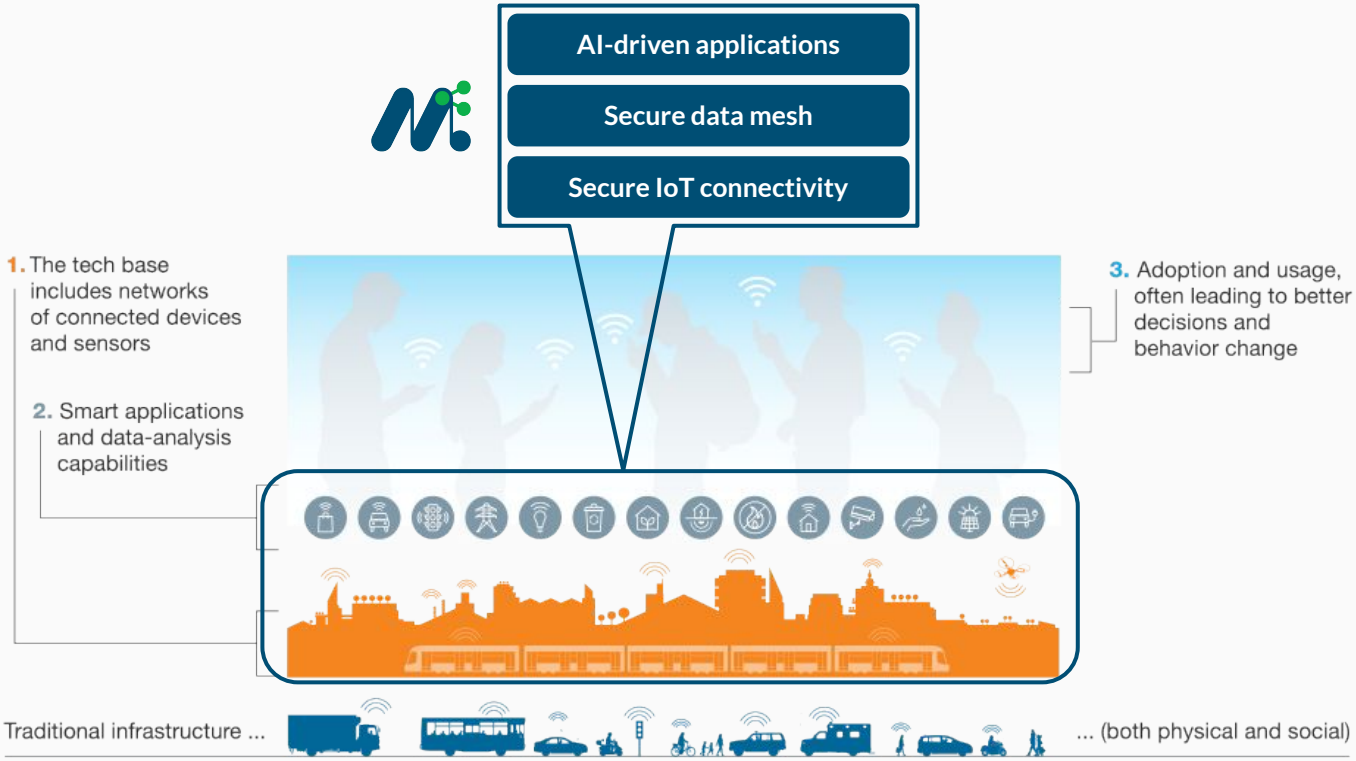
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Product

We build a decentralized IoT connectivity and OT cybersecurity platform to help organizations connect and secure their operational technology networks and increase the resilience of their critical infrastructure.

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McKinsey&Company | **Source:** McKinsey Global Institute analysis

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Our platform



Connects

sensors and other devices at the edge to ingest data in real-time using formally verified data ingestion software, with provable reliability and security guarantees.



Protects

data using two layers of quantum-safe encryption, ensuring confidentiality, integrity, and availability of operational data.



Directs

mission-critical data to the users and applications that need it in a secure, zero trust, peer-to-peer network.

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How to connect assets

MetroEdge™ SDK



- Software development kit
- Configurable set of protocol translators
- Supports variety of programming languages
- Secure by design and default

MetroEdge™ Gateway

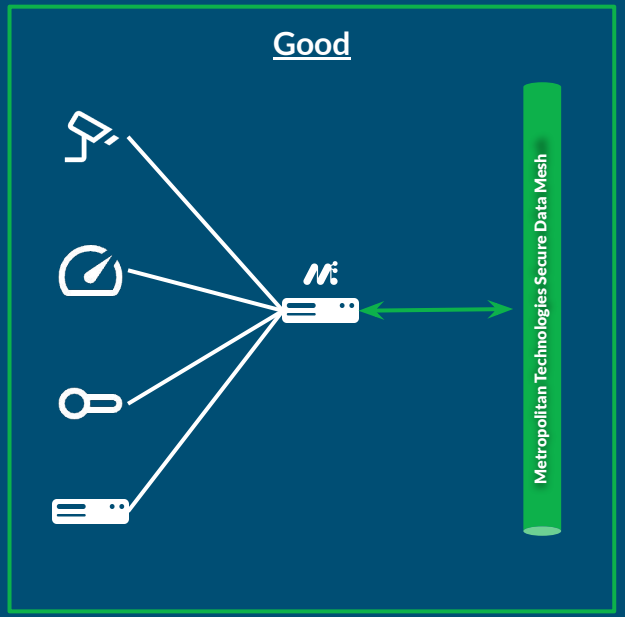


- Rugged data-centric IIoT gateway
- Pre-integrated set of protocol translators
- Ubiquitous connectivity (terrestrial and non-terrestrial)
- Seamless network switching

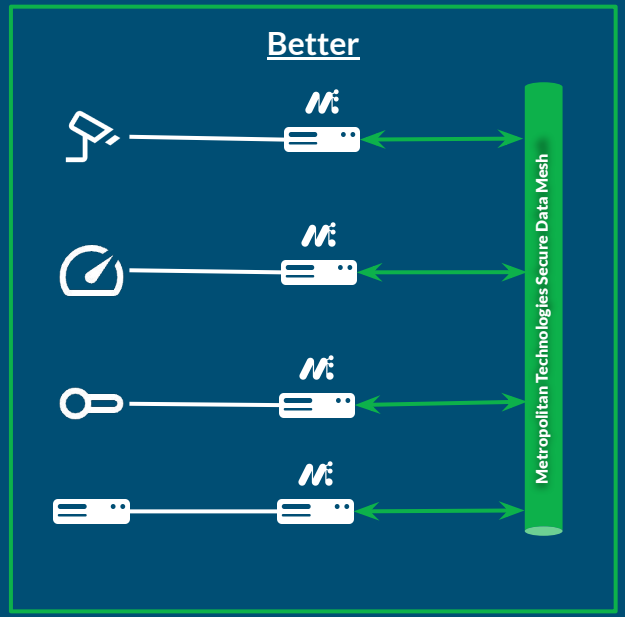
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How to integrate

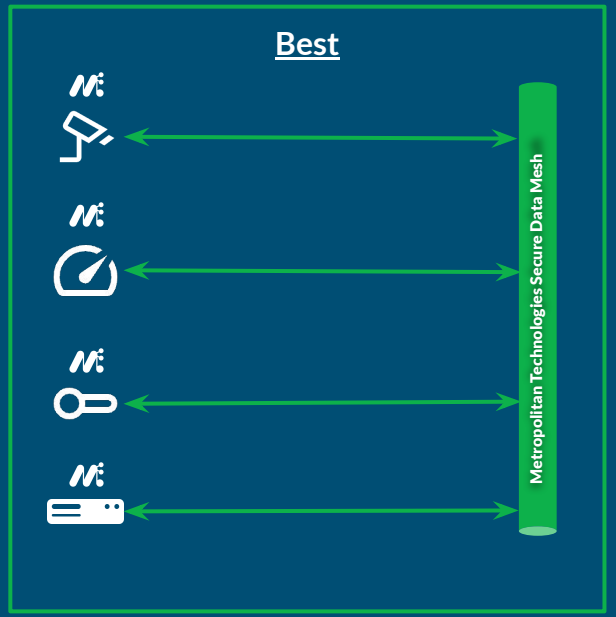
MetroEdge™ Gateway per site



MetroEdge™ Gateway per device



MetroEdge™ SDK integrated



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Designed for

Functional Safety

- DO-178C
- IEC 61508
- ISO 26262

… and more!

Cybersecurity

- NERC CIP
- IEC 62443
- FIPS 140-3
- CNSA 2.0
- NIST SP 800-82

… and more!

Interoperability

- DNP3
- IEC 61850
- MODBUS
- OPC UA
- OSA-CBM
- OCPP
- MQTT

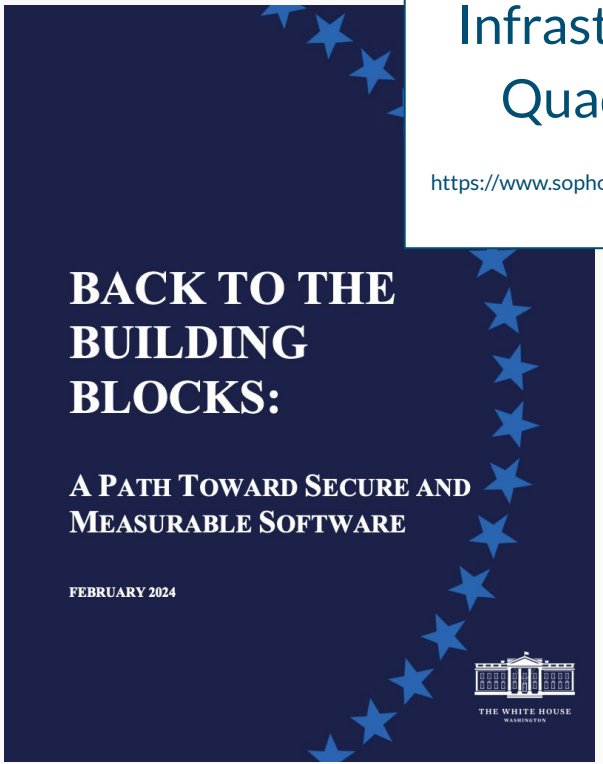
… and more!

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Why now

"The Median Recovery Costs for 2 Critical Infrastructure Sectors, Energy and Water, Quadruples to US$3 Million in 1 Year"

Sophos Survey:
https://www.sophos.com/en-us/press/press-releases/2024/07/median-recovery-costs-2-critical-infrastructure-sectors-energy-and





Post-Quantum Considerations for Operational Technology

Publication: October 2024
Cybersecurity and Infrastructure Security Agency

This document is marked TLP:CLEAR. Recipients may share this information without restriction. Information is subject to standard copyright rules. For more information on the Traffic Light Protocol, see https://www.cisa.gov/tlp.

TLP:CLEAR



New regulations and best practices - we help solve this.

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Industrial security pilot

Period of performance: January 2025 - December 2026

Partners:

THALES

Quantum Bridge

UNIVERSITY OF TORONTO

DIGITAL

Goal:

Deliver **quantum-safe connectivity** and **zero trust, data-centric security** to industrial control systems and other operational technologies that are the backbone of our critical infrastructure.

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Sensor integration pilot

Period of performance: September 2024 - August 2025

Partners:

AREAX.O

Invest Ottawa | Investir Ottawa

Goal:

Increase the security and privacy of the data being generated by sensors and IoT devices at various locations in the City of Ottawa, fuse data sets across sensors, and authorize third parties to access subsets of the data.

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Our solution is the right choice



Secure by design and default

Zero trust architecture built with memory safe programming languages and core components proven using formal methods to have no runtime errors.



Protects data

Data-centric encryption ensures all data is accessed on a need to know basis, including by system administrators.



Removes data silos

Incrementally replace patchwork of connectivity and security systems and expand options for data sharing by securely connecting disparate and isolated systems.



Distributed and decentralized

Data is streamed peer-to-peer and securely relayed through neighboring peers when needed to adjust to network partitions for a more resilient network.



Democratized data

Leverage all the data available in the network, with fine-grained access controls and without compromising security.

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Ecosystem

Who we work with

CAE

THALES

Quantum Bridge

AREA X.O

Supported by

DIGITAL

Canadian Cyber Threat Exchange
Informing Canadian Business

Our community

ROGERS cybersecure catalyst

ElevX!
Powered by NEC X

COMMUNITECH®

Invest Ottawa | Investir Ottawa

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Intellectual property

Smart Infrastructure Platform	**MetroGrid™**	Software that facilitates device discovery and enrollment, user authentication, distributes access controls, and securely relays data across network boundaries.	Copyright, Trade Secret	TRL 7
	MetroProtect™	Software for protecting streaming data end-to-end.	Copyright, Trade Secret	TRL 7
	MetroEdge™ SDK	Software development kit that translates proprietary and open standard data protocols into a common data model and secures data streams using MetroProtect™.	Copyright, Trade Secret	TRL 7
	MetroEdge™	Software program encapsulating the MetroEdge™ SDK to provide a turn-key secure protocol translator that can be installed on off-the-shelf edge computers.	Copyright, Trade Secret	TRL 7
	MetroEdge™ Gateway	Hardware appliance pre-integrated with MetroEdge™ and configurable set of protocol translators.	Copyright, Trade Secret	TRL 4

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We value



Privacy

Our technology is privacy preserving.



Security

Our technology features military-grade cybersecurity.



Safety

Our technology is certifiable.



Equity

Our technology works for everybody.



Reliability

Our technology is built to last.

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We are always looking to collaborate!

hello@metropolitan.tech



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