

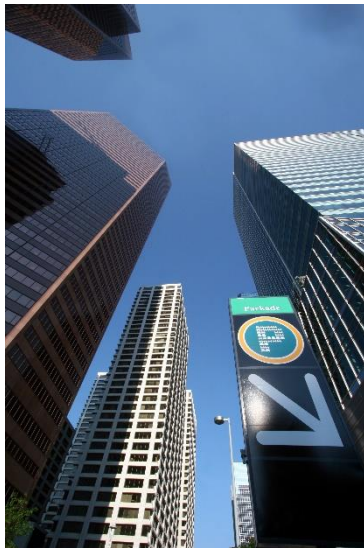
# Autonomous Systems

## Introduction

Autonomous Systems are emerging technologies that are shaping many industries and markets. Leveraging mechatronic equivalents of vision, hearing, smell, taste, and touch, autonomous systems imitate the complex network of physiological sensory input and responses a human displays when manning a vehicle or equipment. McKinsey has estimated that robotics and autonomous systems could generate nearly US\$6.4 trillion/year economic impact by 2025.



## Province of Alberta



The Government of Alberta is taking the lead on Clean Technology for protecting the health, environment and economy of its citizens. Autonomous Systems show great potential to meet the requirements of Alberta and Canada.

Autonomous Systems are not just one technology, but rather a combination of building blocks towards one goal. ACAMP is advancing Autonomous Systems Technologies by being the central point that links large multinational corporations to small and mid-sized companies, and academic institutions.

ACAMP is an industry led not-for-profit organization that supports industries with state of the art technologies, product development capabilities and technical and business expertise.



Technologies support many sectors ranging from transportation to energy, agriculture / forestry, mining, medical / health, information technology, and communication.

Clients of ACAMP have access to world-class equipment, facilities, test beds, technical & business expertise as well as connections to a network of organizations that support and develop Autonomous Systems.

# Autonomous Systems Development at ACAMP

Development activities include:

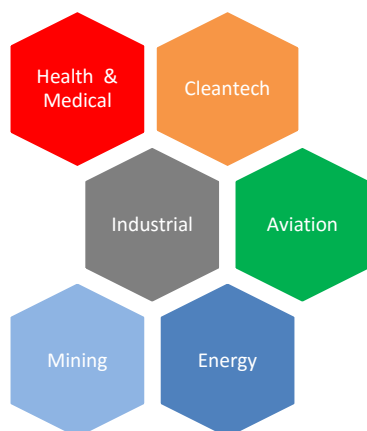
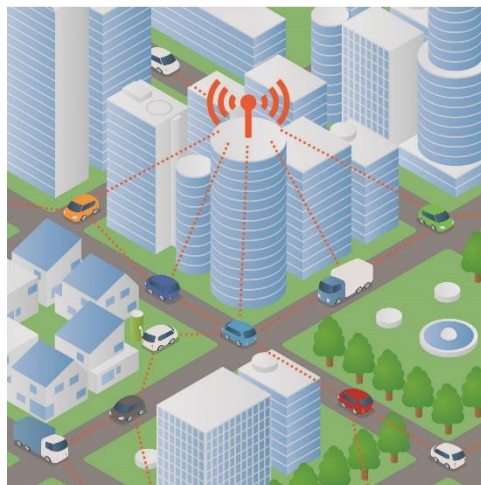
**Analytics** – Synthesize information from various data sets, either in real time or post processing.

**Innovative Sensor Platform Development** – Provide leading edge sensor system development and validation onto different land or aerial platforms.

**Command and Control** – Experience in autonomous navigation algorithms and architecture for land and air platforms, with the ability to develop autonomous actions based on sensor data.

**Security:** Together with industry and scientists, IT security standards are developed to prevent hacker attacks.

**Policy, regulation and legalization:** Experienced in understanding and navigating federal policy and regulation. Additionally, providing the legal framework that is essential for future automated and networked systems.



ACAMP has successfully demonstrated capabilities in:

- Low cost development and implementation
- Leadership in innovation
- Fast prototyping
- Design for manufacturing
- Test & Characterization capability
- Manufacturing
- Helping organizations with compliance for: safety, security and quality.

## ACAMP's Value Proposition

Working with ACAMP provides customers with:

### **World class team**

Our Experience, Expertise, and Creativity will give you the competitive edge.

### **One stop shopping**

Design, Development, Validation Test, Manufacture - in one facility.

### **Design for manufacturing**

Products are designed for rigorous and stringent standards.

### **Flexibility in business relationship**

Experience working with market leaders to develop solutions for sophisticated applications.

1919 – 94<sup>th</sup> Street NW, Edmonton, AB T6N 1E6  
Bay 3, 1480 – 28 Street NE, Calgary, AB T2A 7W6

(780) 468-2443  
(403) 291-8946

acamp.ca  
info@acamp.ca