Searidge
Digital Tower Ecosystem

October 10, 2018

By Ginette Bebeung

- In May 2017, Searidge became jointly owned by two tier one ANSPs, NAV CANADA and NATS (UK).

- Our shareholders are global leaders in Air Traffic Management, bringing global visibility to Ottawa as a Centre of Excellence for innovation in air traffic control.

- Searidge continues to operate as an independent business but this partnership allows us to better service our customers, expand our reach into key markets and help drive innovation in an operational environment.

Purpose of the Ecosystem

Adaptability

Scalability

Small Low Volume

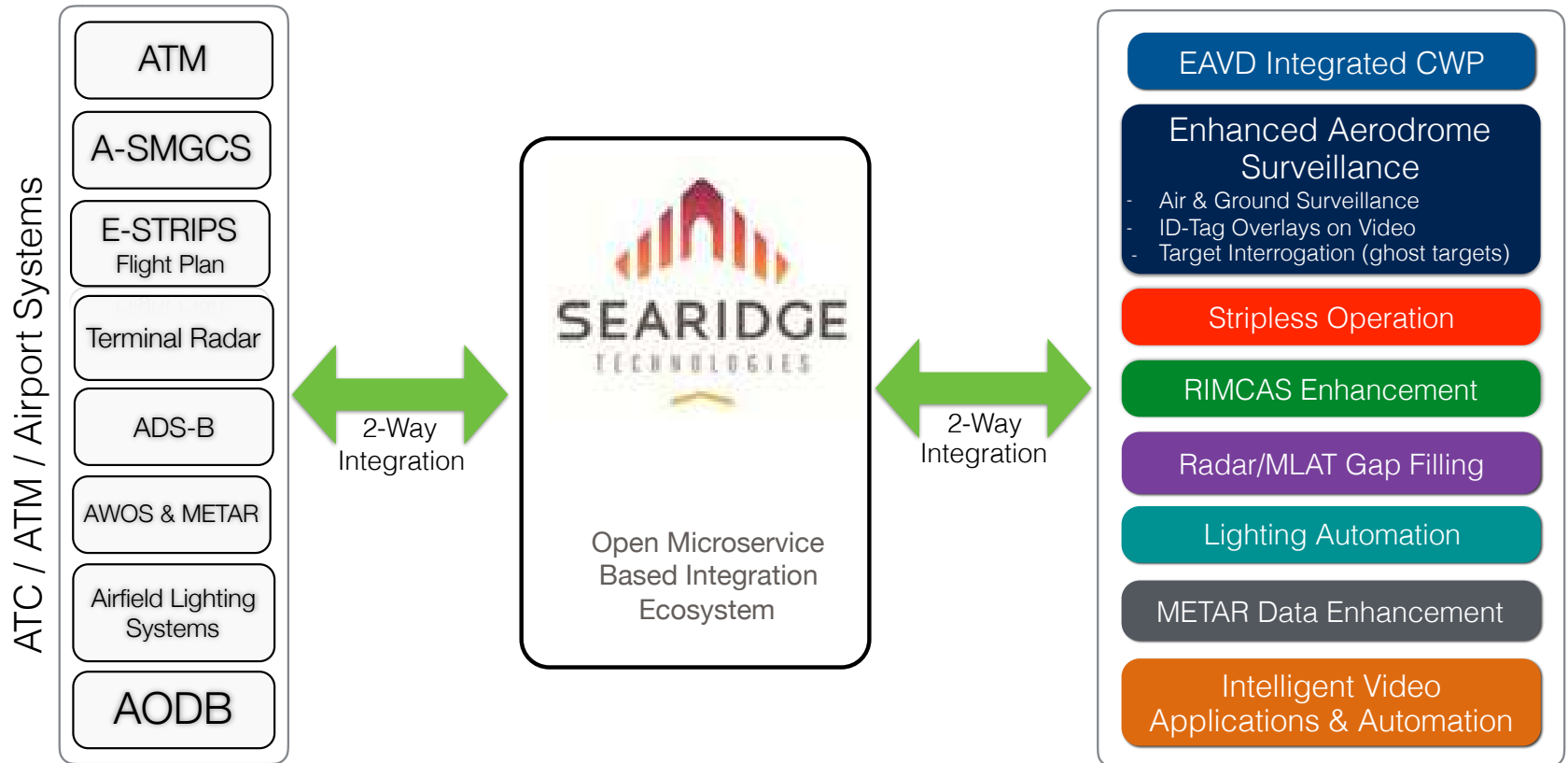Large Volume - Multiple Runway

Low - Med Volume – Single Runway

Remote Apron Control

Facilitate data integration
Improved Data ownership
Support Operational transformation

Commercial-in-Confidence

How It works: Integration & Cloud Ready Architecture

ATC / ATM / Airport Systems

ATC / ATM / Airport Systems

- ATM
- A-SMGCS
- E-STRIPS — Flight Plan
- Terminal Radar
- ADS-B
- AWOS & METAR
- Airfield Lighting Systems
- AODB

← 2-Way Integration →

SEARIDGE TECHNOLOGIES

Open Microservice Based Integration Ecosystem

← 2-Way Integration →

- EAVD Integrated CWP
- Enhanced Aerodrome Surveillance
  - Air & Ground Surveillance
  - ID-Tag Overlays on Video
  - Target Interrogation (ghost targets)
- Stripless Operation
- RIMCAS Enhancement
- Radar/MLAT Gap Filling
- Lighting Automation
- METAR Data Enhancement
- Intelligent Video Applications & Automation

CWP

The Controller Working Position can be **tailored** to meet the needs of each controller role while retaining a **consistent UI design** to facilitate training and adhere to **human factors** principles.

Enhanced Airport Vision Display (EAVD)
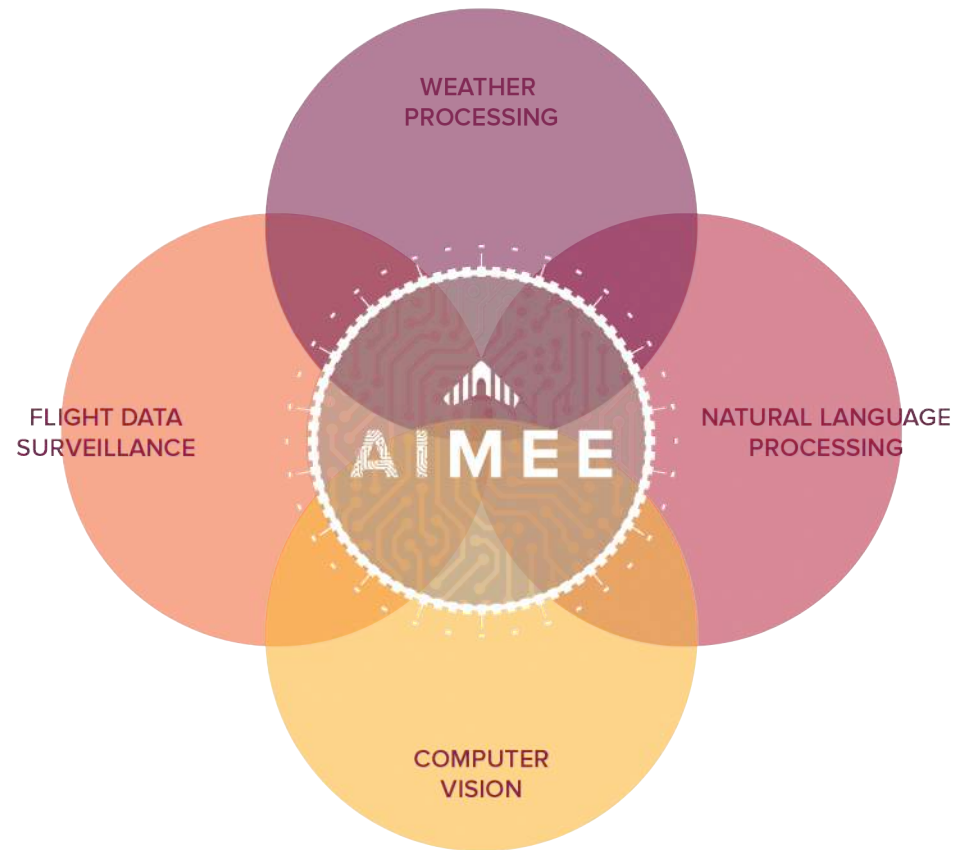## Scalable and Customizable HMI

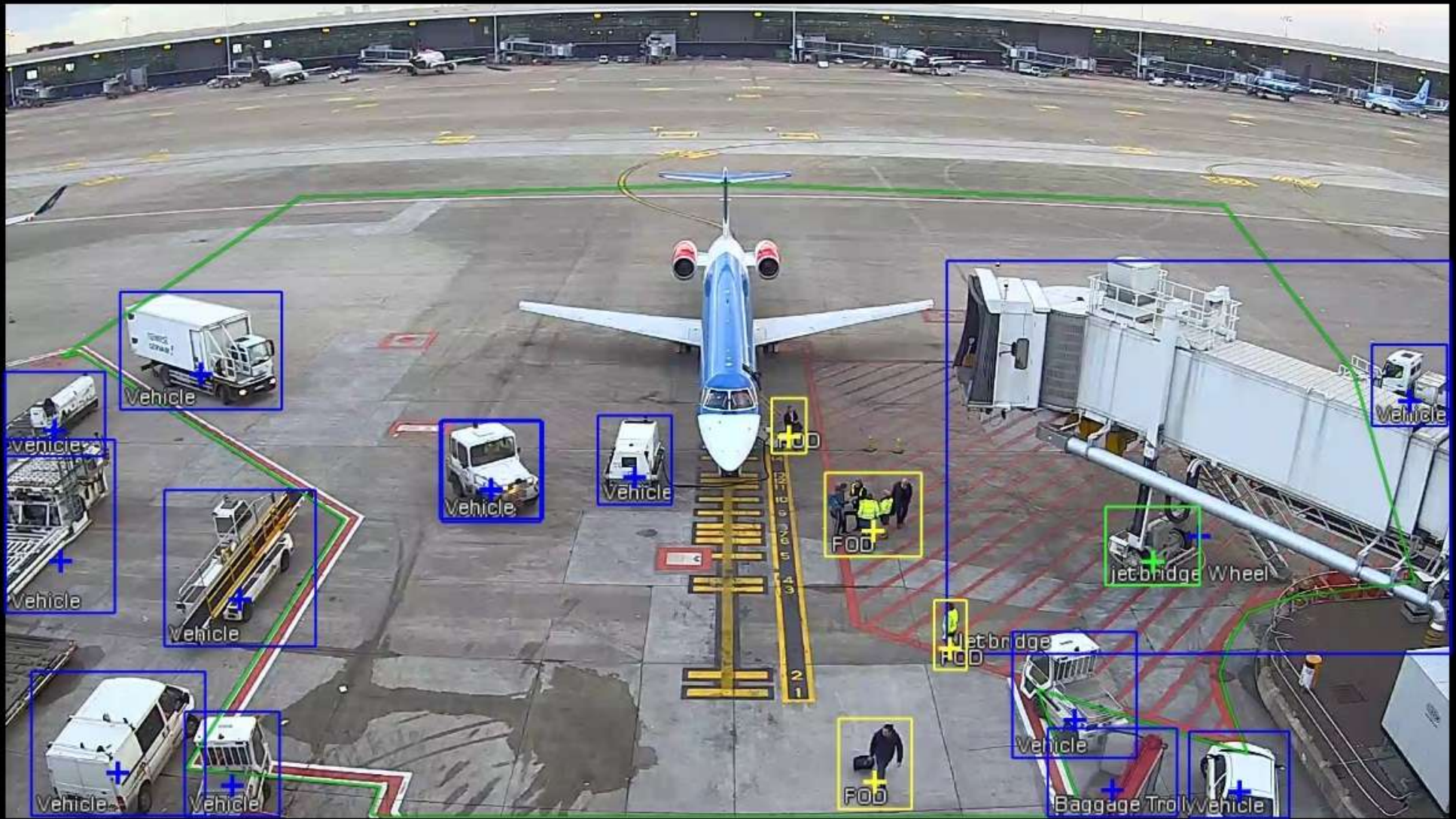Mobile → CWP → Control Room

Video Processing

Digital Tower Application

Searidge AI Development for ATM Applications

Commercial-in-Confidence

AI Gate Analytics for Increased Turnaround Performance - Detection of Milestone Events and Anomaly Events

Searidge AI Application

Commercial-in-Confidence

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Thank you!