

## REGIONAL GREEN AIRPORTS SEMINAR

Hosted by the Ministry of Transport of the Republic of  
Uzbekistan



# Centralized Receiving & Distribution Centers: “CRDC”





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## Lorenzo Belicchi

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**BRADFORD**  
AIRPORT LOGISTICS

# The sustainable logistics backbone that brings value adds to airports by enabling cutting-edge green & sustainability initiatives

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01

Who we Are



02

The Airport Logistic Ecosystem



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05

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# 01 Who we Are



“Relentlessly innovate the CRDC operations to be the benchmark leader for the global aviation industry in

safety, cost efficiency, security, and  
**sustainability.”**

*Our Purpose:*  
***“Help Airports Run Great”***



## COMPANY OVERVIEW

- Pioneer of the CRDC Airport Market Space**
- Founded on market needs**
- 26-year exclusive focus on airport logistics**
- Continually innovating (36 industry innovation Firsts)**
- Worldwide market leader in operating CRDCs**
- 100% retention of CRDC's by Airports**
- AMIS™ (Airport Material Intelligence System) - Consulting, Inventory Management, Recycling, Sustainability Services**

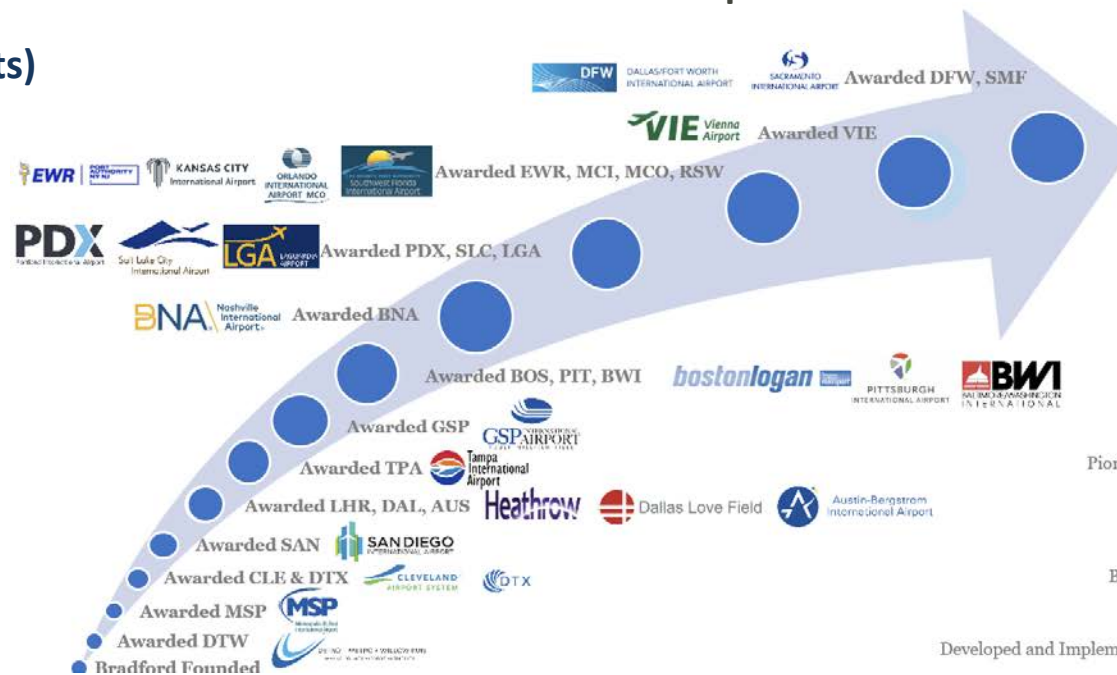
## CONTRACT AWARDS

**Founded:** 2000

**Headquarters:** Houston, TX

**Employees:** 600+

### Current Airports Serviced



BAL ISO 9001 & 27001 Certified

1 Perfect 100% CRDC RFP score in industry at TPA

Pioneered Virtual Secure Material Delivery Tunnel VSMDT™

SAN first LEED Gold CRDC in the world

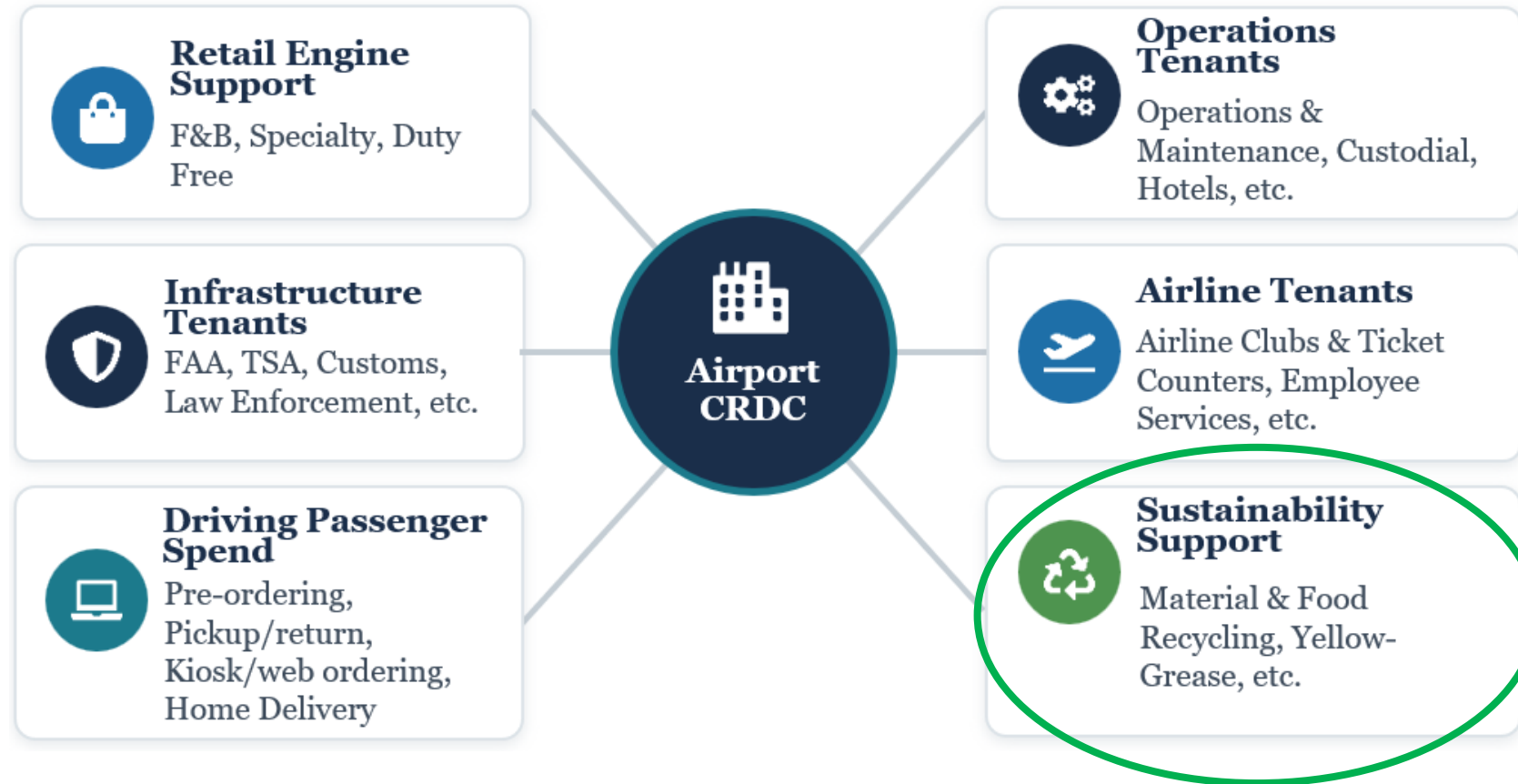
CLE is first off-site CRDC to be declared SIDA by TSA

BAL wins Airport Sustainability Award for North America

1 Technology Driven CRDC in the world is Implemented

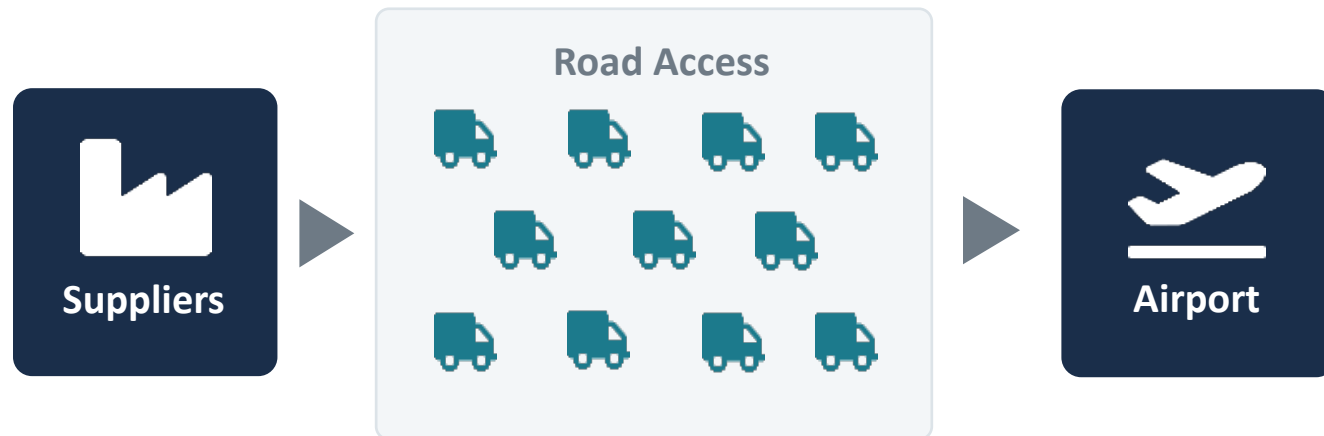
Developed and Implemented the Precursor to the TSA Known Shipper Program

## 02 The Airport Ecosystem



The CRDC logistics ecosystem is designed to incorporate all goods destined to be used anywhere in the airport terminal complex.

# 03 The Challenge



**Today every supplier delivers directly to the terminal. The result is congestion, high cost, emissions, and security exposure across the airport.**

# 03 The Challenge



## Issues: High Cost & Low Efficiency

### SUSTAINABILITY

-  Uncontrolled emissions in operations areas
-  No coordinated reverse logistics
-  Lack of recycling /food donation programs
-  Limited sustainability initiatives

### CONGESTION & SAFETY

-  High vehicle volume & frequency on roadways
-  Passenger & vendor traffic co-mingled

### SECURITY

-  Unscreened goods shipped from suppliers
-  Many personnel & trucks need airfield access
-  Costly unfunded security / regulatory mandates
-  Goods shipments visible to the public

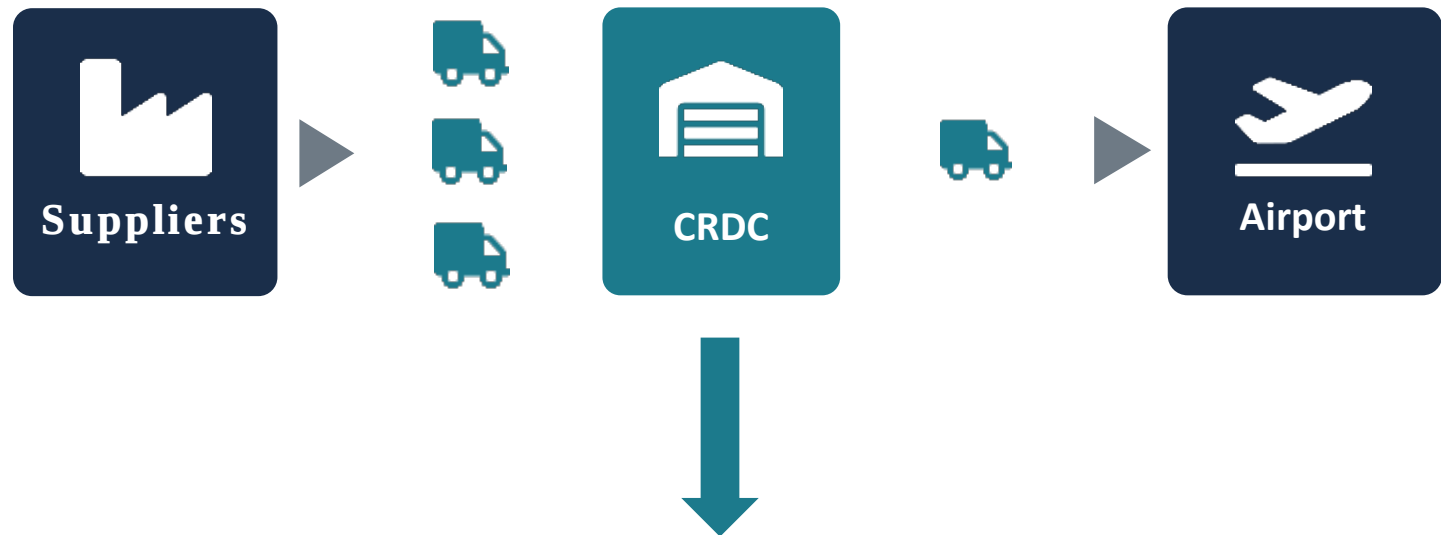
### COST & EFFICIENCY

-  Inefficiency from poor supplier coordination
-  Large staff required to manage deliveries

## 04 The Solution “CRDC”



A single off-airport CRDC consolidates, screens and schedules every delivery — then moves goods to the terminal through a secure tunnel



Strategic infrastructure investment that directly enhances Airport Operations, Security, **Sustainability**, and the Passenger Experience

04

## The Solution “CRDC”



## Benefits: Low Cost – High efficiency

### SUSTAINABILITY

-  Lower emissions in operations areas
-  Reverse logistics for recyclables
-  Measurables KPI for Carbon accreditation
-  Lower GHG emission

### CONGESTION & SAFETY

-  Fewer vehicles & trips on roadways
-  No passenger / vendor co-mingling
-  Vendors kept clear of sensitive areas

### SECURITY

-  Secure BAL tunnel for screened goods
-  Fewer personnel & trucks on the airfield
-  Meets security / regulatory mandates
-  Goods seen by enforcement, not passengers

### COST & EFFICIENCY

-  Single, stable delivery workforce
-  Less airport staff to manage deliveries

# A Sustainability Advantage, Not an Add-On

## 05 Sustainability effort



### Fleet Emissions Reduction

- ✈ Fewer supplier trucks on roadways & AOA
- ✈ Passengers and goods fully separated for efficiency & safety
- ✈ EV and HVO-capable fleet



### Recycling Programs

- ✈ Coordinated recycling hub
- ✈ Grease & yellow cooking-oil conversion to fuel
- ✈ Reverse Logistics coordination



### Compliance by Design

- ✈ LEED Gold – BREEAM CRDC experience
- ✈ Built to meet local green requirements
- ✈ Green-roof mandates and emissions standards



### Sustainability Leadership

- ✈ Carbon accreditation – Level 4 -5
- ✈ AMIS™-tracked green metrics support claimable emission credits



### Fleet Emissions Reduction

- 🚚 Fewer supplier trucks on roadways & AOA
- 🚚 Passengers and goods fully separated for efficiency & safety
- 🚚 EV and HVO-capable fleet

LHR CRDC

Case Study



**Before CRDC:** 18 diesel trucks owned by HAL

**After CRDC:** 12 HVO trucks; Fleet carbon footprint reduction by 86%.

BOS CRDC

Case Study



**Before CRDC:** ~ 470 weekly supplier trucks making deliveries

**After CRDC:** 5 refrigerated trucks and 2 Vans  
Massive area de-congestion



## Recycling Programs

- 🚚 Coordinated recycling hub
- 🚚 Grease & yellow cooking-oil conversion to fuel
- 🚚 Reverse Logistics coordination
- 🚚 Food Donation to local communities

Almost Every Site

Case Study

- 🚚 Consumable Return Items
- 🚚 Clean Paper from All-Airport Operations
- 🚚 Clean Cardboard from All-Airport Operations
- 🚚 Collection of Coffee grinds for composting
- 🚚 Grease/Used Cooking Oil Waste Recycling
- 🚚 Recycling with Local Community Food Donation Programs
- 🚚 Aluminum Cans generated from Retail, F&B and Vending Tenants
- 🚚 Plastics and shrink-wrap from Retail, F&B, and Vending Tenants



Cardboard Baling



Used Cooking Oil Collection



Food Recycling Program



**Compliance by Design**

- 🚚 LEED Gold – BREEAM CRDC experience
- 🚚 Built to meet local green requirements
- 🚚 Green-roof mandates and emissions standards

**Before CRDC:** Lack of consolidation and energy waste

**After CRDC:** GHG & energy Consumption reduction;  
purchase of sustainable and environmentally friendly materials;  
Pallet & shrink wrap recycling program for the entire airport

LHR CRDC

Case Study



**Before CRDC:** Lack of consolidation and energy waste

**After CRDC:** State-of-the-art chill plant system, capable of running on pressurised CO2 (Energy consumption reduced by 30%);  
Move away from the use of **R404A** gas (reduction of pollution)

SAN CRDC

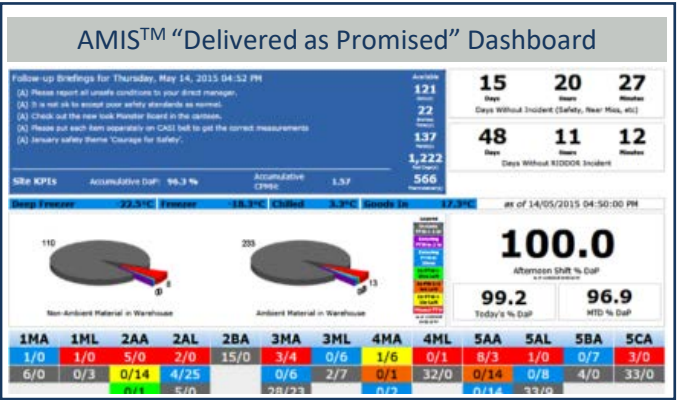
Case Study





## Sustainability Leadership

- Carbon accreditation – Level 4 -5
- AMIS™-tracked green metrics support claimable emission credits
- Zero Paper Initiatives



## Airport Material Intelligent System - AMIS™

A real-time "data centric" Command & Control system that produces KPI reports



## Level 5

Level 5 is the topmost level in *Airport Carbon Accreditation* programme

Maintaining a Net Zero balance on scopes 1 and 2 and actively addressing Scope 3 emissions, strengthening approach to 3rd party engagement, offset removals for residual emissions

reductions.





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#### **TODAY — FRAGMENTED**

- Every supplier delivers directly to the terminal
- Duplicated staff, equipment, and dock space
- Inconsistent security and screening points
- No airport-wide visibility or coordination



#### **CAMPUS-WIDE CRDC**

- One secure hub serving the entire airport
- Shared workforce, fleet, and infrastructure
- Single, consistent screening and chain-of-custody
- Full visibility across the airport via AMIS™

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# Thank You



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Headquarters  
Montréal

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North Atlantic  
(EUR/NAT) Office  
Paris

Asia and Pacific  
(APAC) Sub-office  
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