



**CONNECTED  
AVIATION SUMMIT® 2023**

Digital Transformation, AI & Innovation

September 6-8, 2023 | Hilton City Center | Denver, CO

# Smart Airports & Aviation

smart  
systems  
design | **Harbor  
Research**

# Overview of Harbor's Services

## Research Services

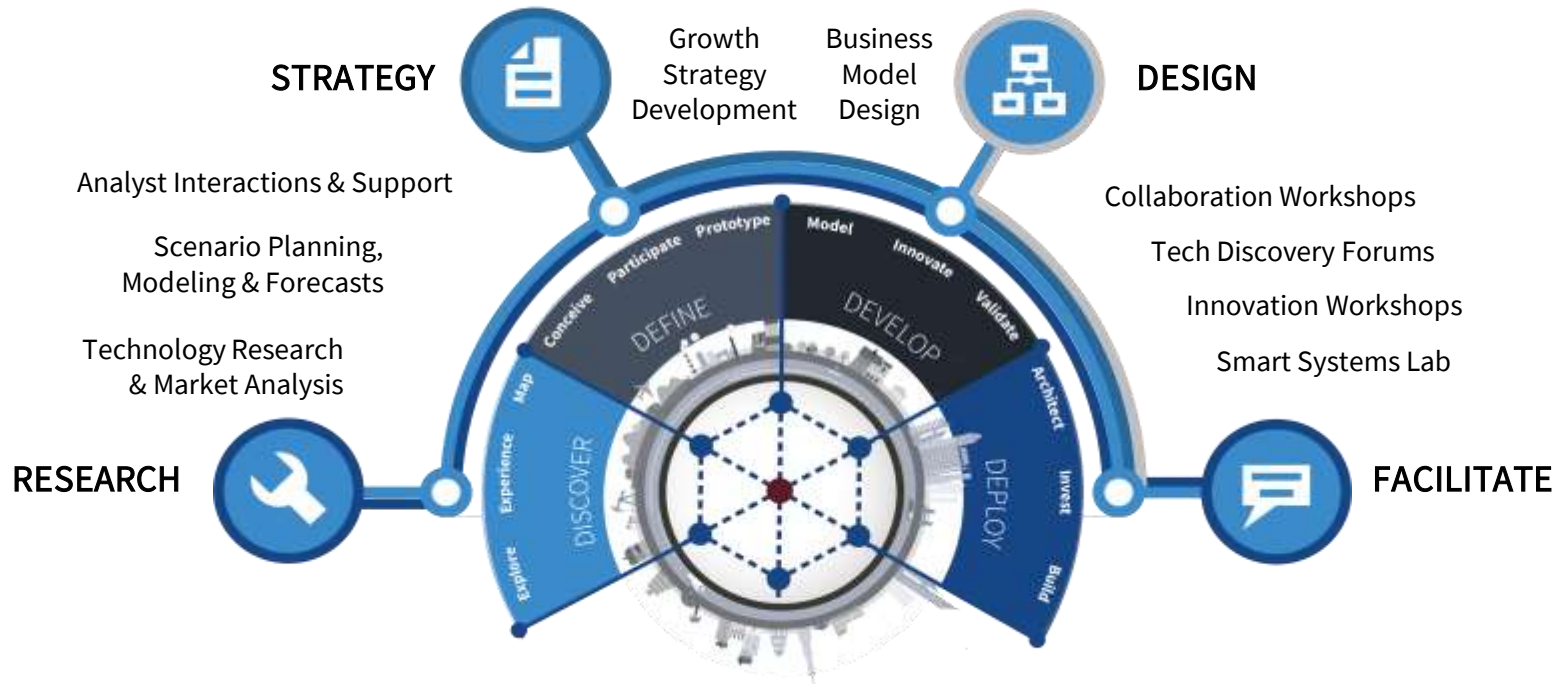
Research, tracking, market intelligence and Harbor's Smart Systems forecast

## Strategy Consulting

Business development & growth strategy consulting services

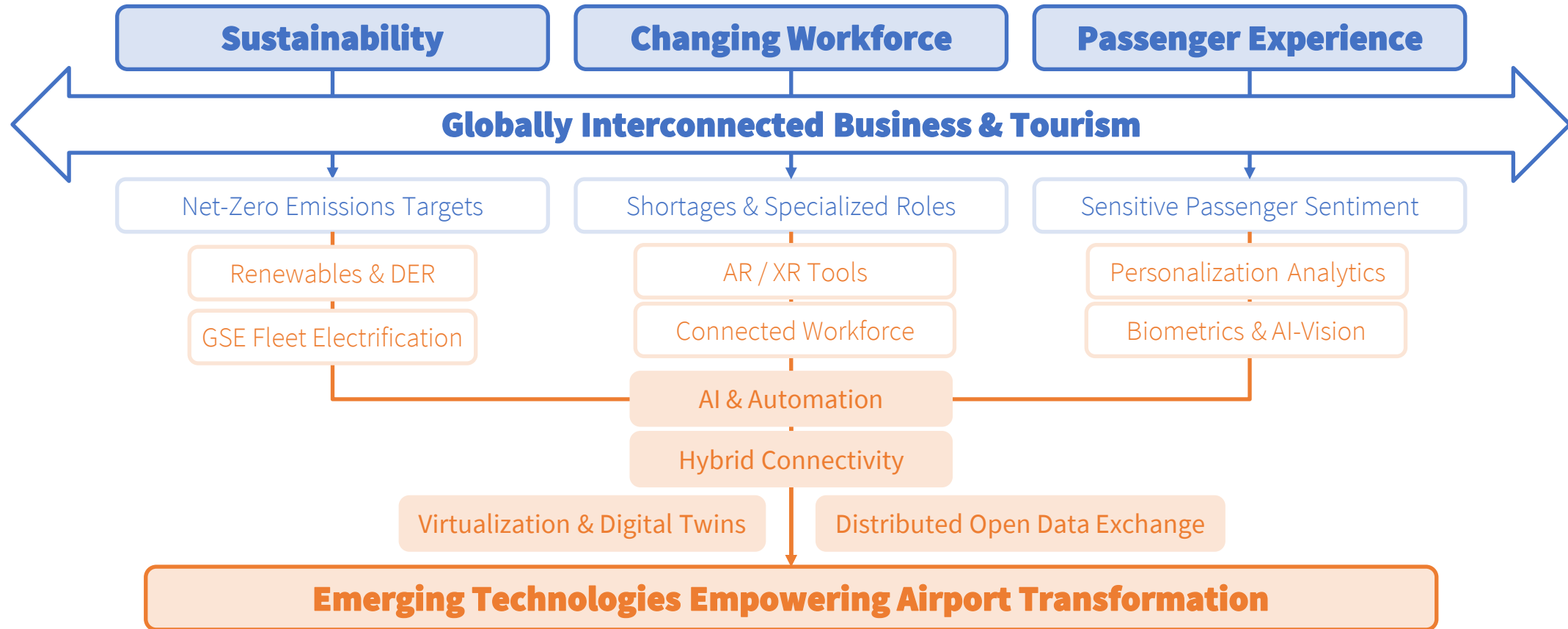
## Smart Systems Lab

Venture development, start-up advisory and community networking to implement strategies

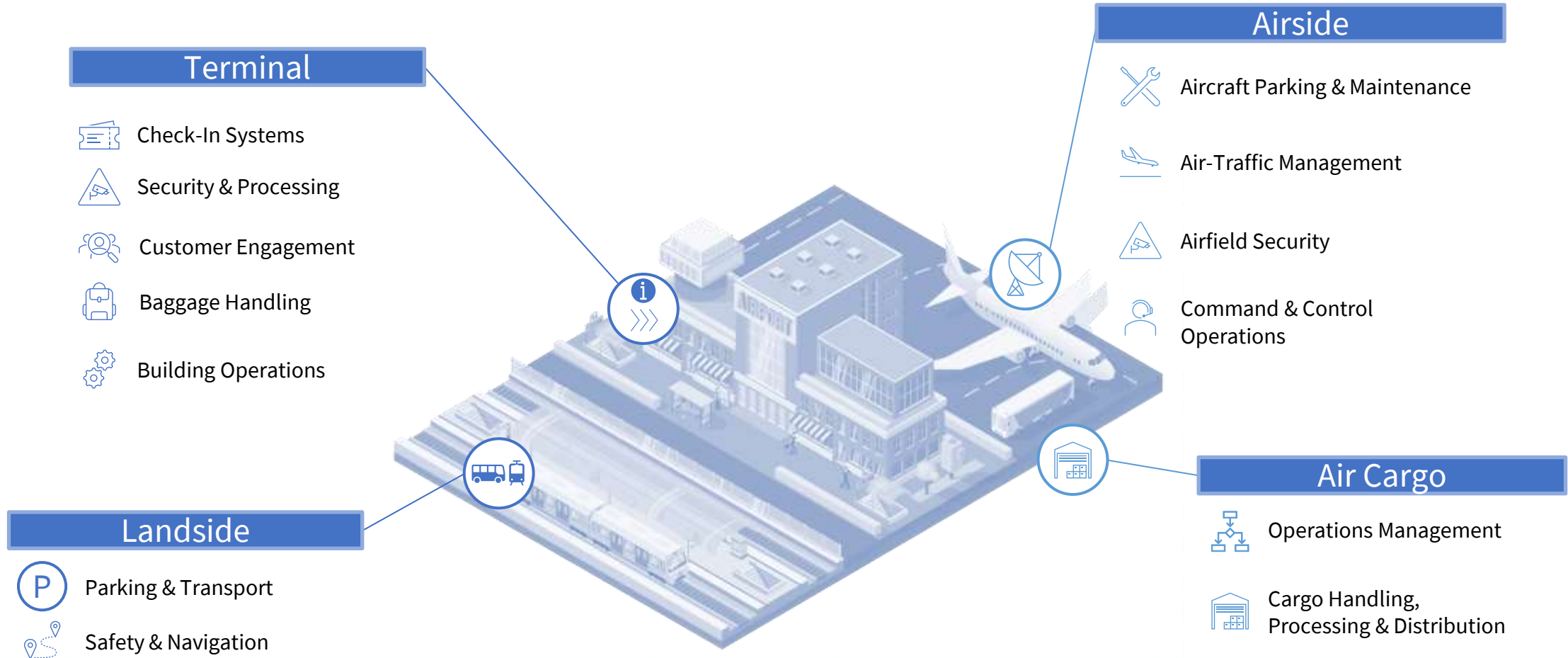


# Trends Impacting the Airport Industry

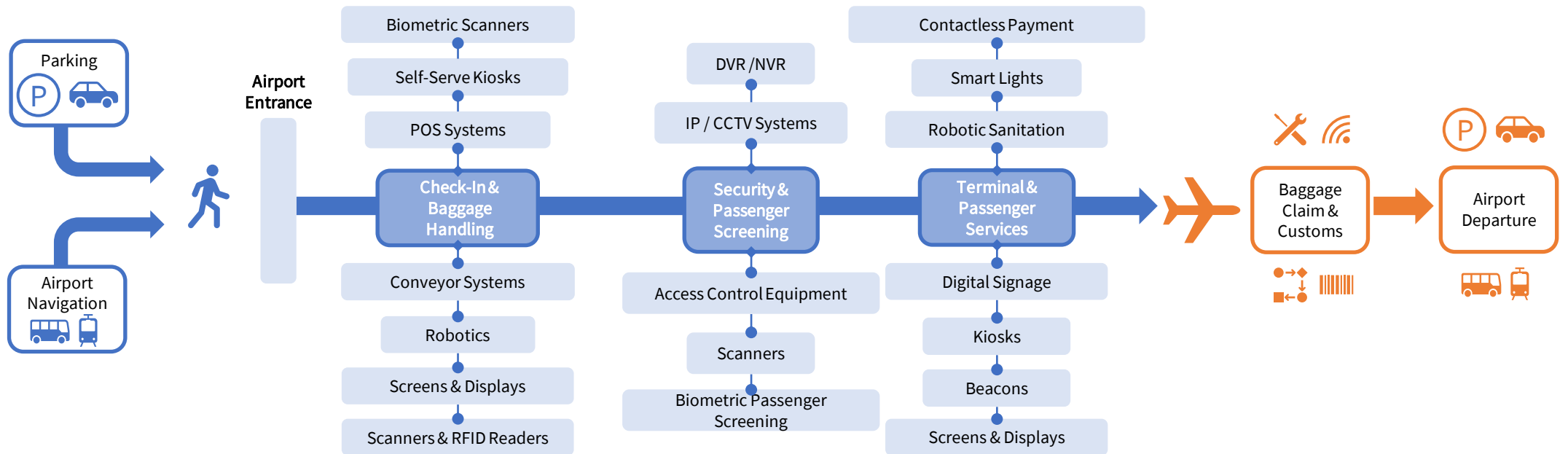
*The Opportunity for Emerging Technologies*



# Smart Airport Use Case Landscape



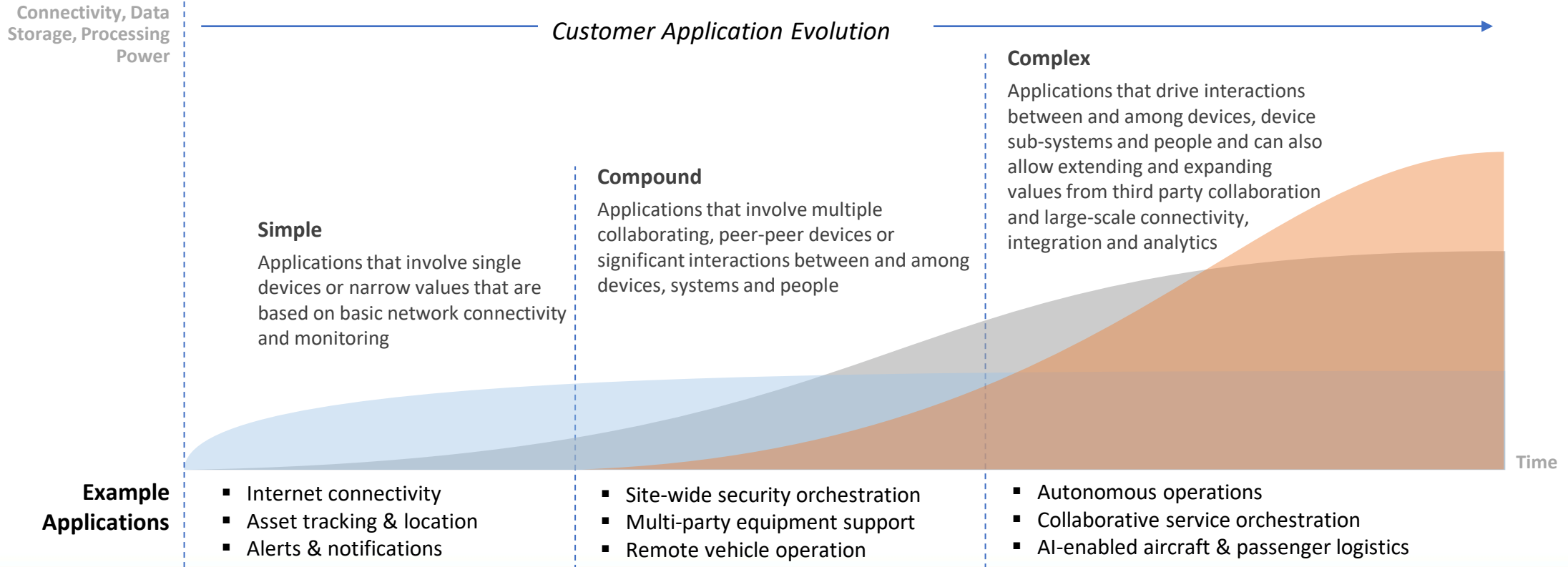
# Creating A Seamless, Personalized Passenger Journey



Parking & Transport	Safety & Navigation	Check-In Systems	Baggage Handling	Security & Screening	Customer Engagement
<ul style="list-style-type: none"> <li>Smart Parking</li> <li>Environmental Monitoring</li> <li>Autonomous Optimization</li> </ul>	<ul style="list-style-type: none"> <li>Smart Lighting</li> <li>Wayfinding</li> <li>Safety</li> <li>Object Recognition &amp; ALPR</li> <li>Adv. Traffic Mgmt.</li> </ul>	<ul style="list-style-type: none"> <li>Queue Management</li> <li>Autonomous Optimization</li> </ul>	<ul style="list-style-type: none"> <li>Predictive &amp; Preventative Maintenance</li> <li>Self Bag Check</li> <li>Asset Tracking</li> </ul>	<ul style="list-style-type: none"> <li>Crowd Behavior Monitoring</li> <li>Image Recognition &amp; Object Detection</li> </ul>	<ul style="list-style-type: none"> <li>Personalized Marketing</li> <li>Terminal Wayfinding</li> <li>Passenger Flow Management</li> </ul>

# The Evolution of Smart Airports

*From Simple to Complex Applications*



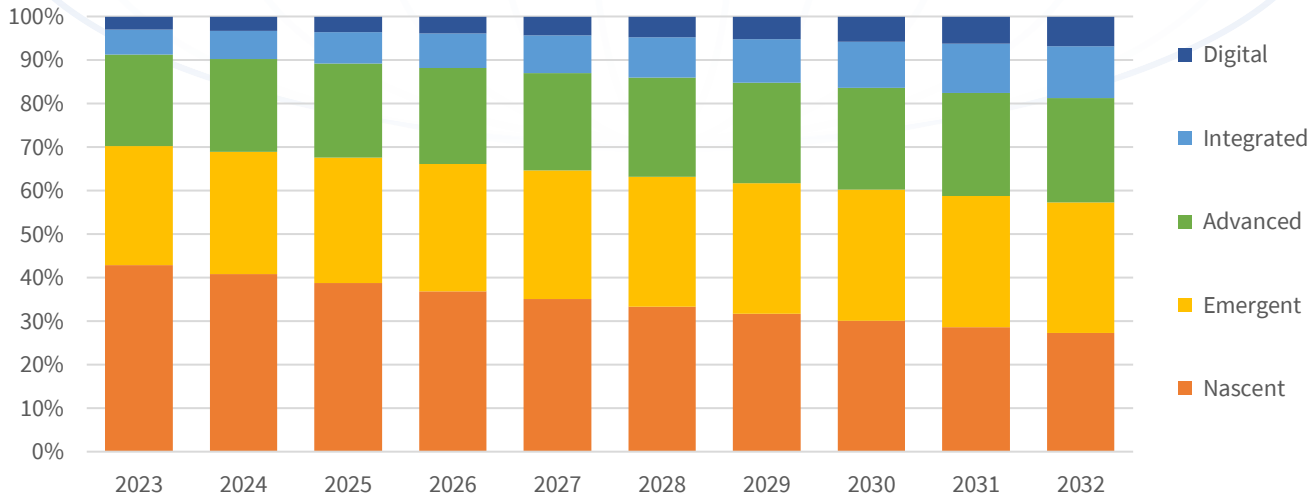
# Understanding the Value Potential For Smart Airports

**44.9K Airports**

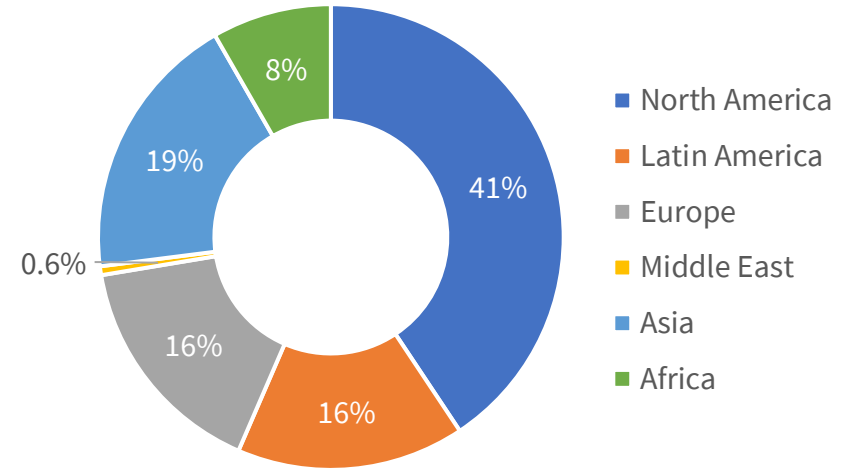
~20K Addressable Hubs | ~5,200 Core Hubs

465+ Large Hubs | 4.8K Medium Hubs | 13.9K Small Hubs

## Smart Airport Maturity Framework



Distribution of Smart Airports (number of hubs)



**Over 5K Airports with Advanced to Digital Maturity**

# Creating Combinatorial Value from Integrated Digital Strategy

**Aviation Digital Strategy**



**Complex, Adaptive  
Digital Future**

**Airport Digital Strategy**