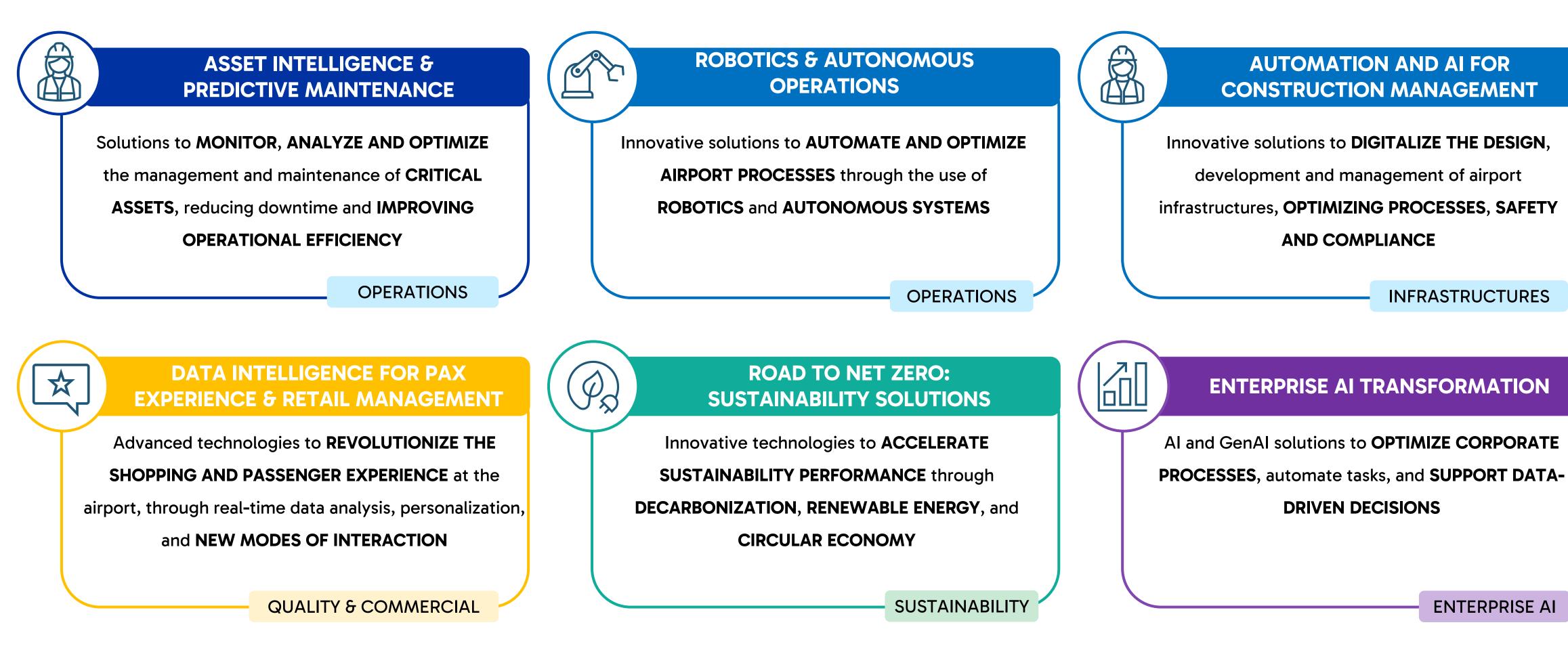
Runway to the Future 4th Call4Startups | The challenges







Runway to the Future ADR 2025 4th Call4Startups | The challenges







We are looking for innovative solutions that address the following areas:

- etc.)
- assets.
- maintenance, energy control, security, and fire prevention, all within a single interface.
- management.
- efficiency, reducing downtime, and supporting data-driven maintenance decisions.

Short Description

Solutions to monitor, analyze, and optimize the management of critical assets, reducing downtime and improving operational efficiency

Deep dive

lot & DATA COLLECTION: Tools for collecting data from currently unmonitored assets (e.g., VUDs, automatic doors, lighting towers, electrical cabins, lighting points,

DATA ANALYSIS: Data analytics tools to process IoT data and generate insights aimed at improving predictive maintenance and the operational performance of airport

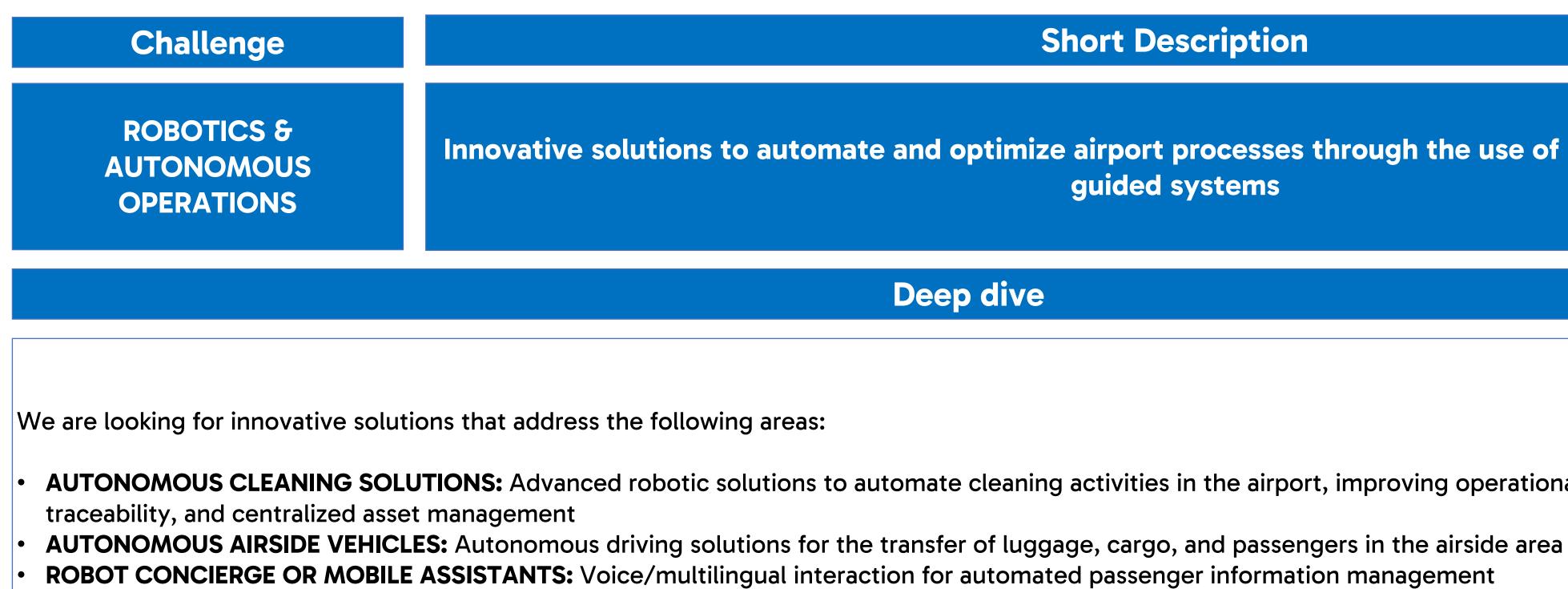
BUILDING MANAGEMENT SYSTEM: Integrated solutions for the digital management of buildings, with functionalities including system monitoring, preventive

AS BUILT DOCUMENTATION DIGITALIZATION: Technologies for automatically digitizing and tracking technical documentation of systems, to facilitate their

ASSET OPERATIONAL PERFORMANCE OPTIMIZATION: Solutions capable of effectively monitoring and analyzing asset performance, with the goal of improving







- AUTONOMOUS CHARGING FOR ELECTRIC VEHICLES: Mobile robots that automatically connect to parked vehicles for EV charging •
- **WORKFORCE MANAGEMENT:** Workforce Management (WFM) solution to efficiently manage the workforce, optimizing staff allocation.

Short Description

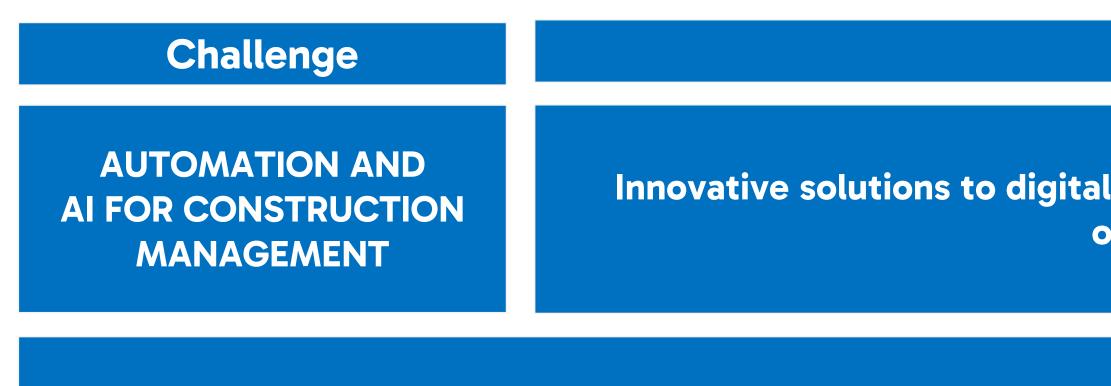
Innovative solutions to automate and optimize airport processes through the use of robotics and autonomous guided systems

Deep dive

• AUTONOMOUS CLEANING SOLUTIONS: Advanced robotic solutions to automate cleaning activities in the airport, improving operational efficiency, intervention







We are looking for innovative solutions that address the following areas:

- with cost and time analysis.
- asset, simplifying the management of complex data and improving cost control and verification.
- procedures, aiming to reduce risks and accelerate approval processes.
- automatically generating realistic visualizations of spaces with branded elements, standardized materials, and layouts.
- areas, with the goal of improving coordination, safety, and activity traceability.

Short Description

Innovative solutions to digitalize the design, development, and management of airport infrastructures, optimizing processes, safety, and compliance

Deep dive

DATA INTEGRATION AND MANAGEMENT: Solutions that enable integrated management of the entire workflow, from concept to delivery, unifying the BIM model

COST AND DEVIATION CONTROL: AI and Mixed Reality solutions to detect in real-time deviations and clashes between the digital model of an asset and the actual

COMPLIANCE: Al-based digital solutions to support rapid and automated verification of the compliance of design documents with regulations and company

AI GENERATIVE RENDERING: Generative AI solutions that, through natural language, enable the development of renderings in line with the company's style,

DIGITAL CONSTRUCTION MANAGEMENT: Digital solutions for the planning, management, authorization, and control of construction sites in terminal and airside





Challenge DATA INTELLIGENCE FOR **PAX EXPERIENCE & RETAIL** MANAGEMENT

We are looking for innovative solutions that address the following areas:

- GAMIFICATION & ENTERTAINMENT: Solutions aimed at enhancing the passenger experience by making time spent at the airport more engaging.
- operational disruptions.
- alerting systems based on AI and chatbots, enabling rapid intervention in case of anomalies.
- offer and driving traffic to stores through interactive and engaging experiences.
- **ACCESSIBILITY:** Technologies to improve the accessibility of airport services for people with disabilities or reduced mobility.
- time offers.
- integrating data from other sales channels (e-commerce, external physical stores, large-scale retail).

Short Description

Advanced technologies to revolutionize the shopping experience and passenger experience at the airport, through real-time data analysis, personalization, and new modes of interaction.

Deep dive

SMART WAYFINDING: Advanced asset management solutions to monitor and centrally manage dynamic information and wayfinding systems, including in the event of

DIGITAL SERVICES: Intelligent solutions to monitor the performance of digital services in real time across multiple channels, using advanced dashboards and proactive

INTERACTIVE PASSENGER ENGAGEMENT: Digital and immersive solutions to engage passengers in airport shopping areas, increasing the attractiveness of the retail

AI FORECASTING TRAVEL RETAIL: Predictive solutions for analyzing sales and behaviors in travel retail, aimed at creating a personalized customer journey with real-

PRICING INTELLIGENCE FOR TRAVEL: Technology for dynamic monitoring and comparison of product prices sold within the airport (retail and F&B), capable of





We are looking for innovative solutions that address the following areas:

- optimization, and technologies for sustainable mobility.
- efficiency of airport buildings.
- passengers and employees.
- and infrastructure.
- **EMISSIONS:** Solutions for measuring non-CO₂ pollutant emissions (e.g., NOx, PM, SOx, etc.) in the atmosphere near the airport area.

Short Description

Innovative technologies to accelerate sustainability performance through decarbonization, renewable energy, and circular economy.

Deep dive

DECARBONIZATION SOLUTIONS: Solutions to reduce CO₂ emissions from airport operations, focusing on SAF (Sustainable Aviation Fuel), ground process

ENERGY TECH: Systems for the production, storage, and intelligent management of energy from renewable sources, including solutions for improving the energy

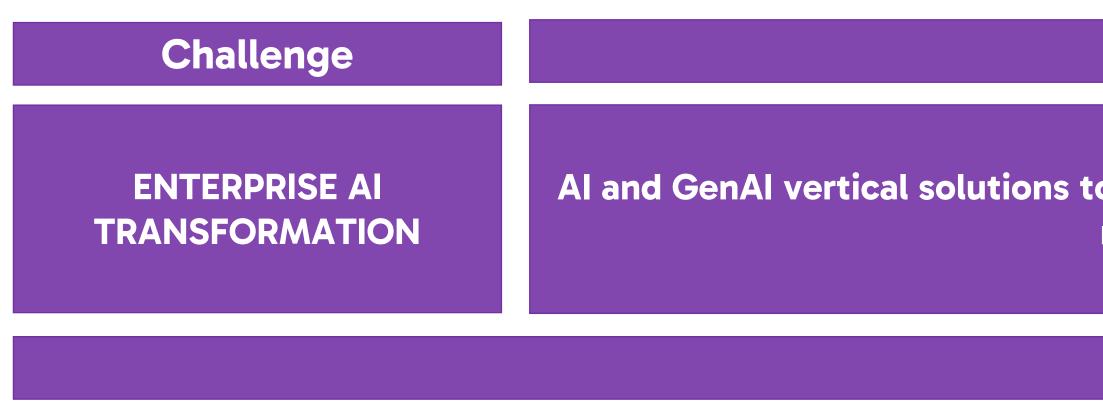
SUSTAINABLE MOBILITY: Solutions to enhance intermodality, promote electric mobility, optimize transport connections, and develop smart parking systems for

CIRCULAR ECONOMY: Technologies to optimize waste management, implement sustainable packaging, and develop eco-friendly materials for airport construction

NOISE POLLUTION: Solutions to measure, monitor, and reduce the environmental impact of airport activities, focusing on air quality and noise abatement.







We are looking for innovative solutions that address the following areas:

- certificates.
- **FEEDBACK AUTOMATION:** Solutions that enable the automation of passenger feedback collection and analysis activities.
- performance evaluation. Features predictive analytics for workforce planning enabling data-driven decisions for organizational growth.
- analysis for digital presence optimization.
- experiences.

Short Description

Al and GenAl vertical solutions to optimize internal processes, automate tasks, support data-driven decisionmaking, and improve operational efficiency.

Deep dive

GEN AI AUTOMATION: Solutions to automatically compare SAL (Work Progress Status) data with accounting records, identify discrepancies, and generate payment

AI CONTENT CREATION: Technologies for automated multilingual content generation, multi-channel publishing, GenAI press release drafting, virtual media relations assistants and real-time reputation monitoring. AI systems for crisis communication, communication personalization and automated visual content creation.

AI-POWERED HR: Advanced solutions optimizing recruitment, coaching, and employee development through AI screening, candidate matching, and automated

AI SEO OPTIMIZATION: AI solutions to optimize SEO content through keyword analysis, competitor research and search intent analysis, personalized content generation, search engine ranking improvement and automated content marketing for the airport sector. Advanced reputation management systems and sentiment

TRAINING & UPSKILLING: Innovative staff training solutions integrating VR/AR, gamification, and microlearning with AI platforms for personalized airport staff training. The system includes virtual training assistants for operational procedures and AI-driven gamification microlearning systems for effective and engaging learning

