


The Emma logo is displayed in white, featuring a stylized 'E' with a lightning bolt-like shape inside, followed by the lowercase letters 'mma'.

Emma

A wide-angle photograph of an airport tarmac at sunset. The sun is low on the horizon, casting a warm, golden glow over the scene. In the center, a large white commercial airplane is parked at a gate, with its cabin door open and a jet bridge connected. Various ground support equipment, including forklifts, baggage carts, and a red service vehicle, are scattered around the aircraft. The sky is filled with soft, colorful clouds in shades of orange, yellow, and blue. A large green graphic element is visible in the top right corner of the image.

MASTER YOUR TURNAROUND **EMMA TMS**

Computer Vision. Real-time Tracking. Smoother Turnarounds.

Airports must Turn Aircraft Around, Quickly

The longer an aircraft spends on ground, the more everyone loses, whether it's operational efficiency, potential revenue or passenger trust. As turnarounds massively rely on manual tracking, it is harder to manage this process smoothly. The slightest gap in ground operations can trigger a domino of disruptions - boarding delays, more ground time, delayed pushback, apron and taxi congestion, a missed takeoff slot, as well as penalties and costs.

Improve On-Time Performance with Smoother Turnarounds

A best-in-breed solution, **EMMA Turnaround Management System (TMS)** uses AI-driven **Computer Vision** technology to accurately detect and track movement of objects and people, and record events in real time. Every aspect of the turnaround process is tracked on a live dashboard - this automated monitoring allows your stakeholders to view ground events as they occur, prevent disruptions from turning into delays, and optimize use of resources.

Equipped with this high level of intelligence, airport operators can seamlessly coordinate turnarounds with ground handlers and airlines to increase efficiency, and achieve substantial improvements in on-time performance.



EMMA TMS with Computer Vision: Built for Results

Enhance

Passenger Experience
Airline Satisfaction
Revenue Potential
Sustainability



Improve

On-Time Performance
Resource Utilization
Operational Efficiency



Minimize

Operational Risks
and Costs
Disruptions



Real-time, Unrivaled and Budget-friendly On-ground Visibility

Dashboard > Real-time activity feed

Real-time activity feed

Gate 1 Gate 2 Gate 3

Share Export as

Turnaround Activity

Bus arr	Bus dep	Stairs disconnected	Arr Passenger Count	Arr Flight No	Dep Flight No	Airline	AOBT
10:10	10:15	10:35	67	F3399	F3400	Flyadeal	10:39
Stairs connected	Jet Bridge Connected	Catering Disconnected	Gate	AIBT	AXOT		
10:10	N/A	10:30	A10	10:09	6		
Jet Bridge Connected	Dep Passenger Count	Catering Connected	Arr OTP	Dep OTP	ALDT	ATOT	
N/A	N/A	10:20	On Time	Delayed	10:05	10:45	

EMMA TMS integrates cutting-edge technology to deliver a host of capabilities that translate to tangible results for your airport and its stakeholders. An intuitive dashboard displays a real-time activity feed, capturing all activities related to aircraft turnarounds.

AI-driven Real-time Monitoring:

Use Computer Vision event detection technology to accurately track and get time-stamps of ground events including jet connection, refueling, baggage loading and pushback tug attachment, in real time.



Faster, Budget-friendly Data Processing:

Lower cloud dependency and total cost of ownership. Minimize video processing delays, and enhance data compliance and privacy with our blended cloud and edge computing.



Predictive Analytics:

Flag potential delays early for proactive decision making.

Customized KPIs (Key Performance Indicators) allow every user to pursue their specific goals, while contributing to a shared vision of smoother turnarounds.



Dynamic Decision Making:

Send stakeholders status information on whether a task is completed or delayed.

With real-time status updates, stakeholders are empowered to make proactive decisions after evaluating on-time risks.



Post-departure Analytics:

Generate performance reports measuring turnaround time, delays, and compliance with SLAs.

Analyze these reports to significantly improve efficiency and optimize resource use.



Get Future-Ready with our Transformative Design

Whether your airport is large or small, your airport IT team will value our well-considered technology and design choices, and the ease of deploying a future-proof solution with minimal disruption.

AI-driven Computer Vision: A pivotal shift in real-time tracking of ground operations, with substantially higher accuracy than RFID or sensor-based systems.

Distributed Hybrid Cloud Meets Edge Processing: This significantly lowers cloud-related costs, and supports faster video processing closer to source. Only key insights are stored on the cloud, enhancing privacy.

Modular Architecture: Scale to add more data sources and resources as your operations expand and evolve in complexity.

Open Design: Seamlessly integrate with existing systems such as the AODB (Airport Operational Database), GHMS (Ground Handling Management System) or RMS (Resource Management System), and more.

On-premise and Cloud Options: Flexible, secure deployment is every airport's priority. We recommend the best fit considering your regulatory and operational requirements.

Fully Compliant: Computer Vision complies with National Cybersecurity Authority (NCA) requirements while edge computing meets GDPR standards.

The EMMA Advantage

An experienced, multidisciplinary team with aviation IT and airport operations expertise.

Strong partner ecosystem of leading IT and aviation integration partners.

Pay as you grow with our cost-effective SaaS-based pricing model.

Present globally, we manage projects in diverse airport environments.

Unmatched flexibility with seamless integration across third-party systems.

Scale on demand as and when your operations grow.

Track your Ground Operations in **Real Time.**

Discover how EMMA TMS can help your airport achieve smoother turnarounds and on-time performance.

Contact us today for a demonstration
info@emma.aero | Visit <https://emma.aero/>

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