

### **EXECUTIVE SUMMARY**

An AI-based software system monitors turnarounds through existing ramp cameras and provides situational awareness. It automatically generates event timestamps, hazardous situation alerts, and predictions.

Solution ensures that airport, carriers and handlers have the most accurate turn-time data to do better turn planning, intervention, and recovery.

This data is used to streamline ramp operations and to make the ramp a safer place for both people and equipment. It is also used to optimize operations with regards to environment friendliness.

Leverages existing investments in VDGS & CCTV systems and integrates with many software packages. Goes hand-in-hand with existing data sources.

## **OUR MISSION**

To ensure
time-efficient and affordable air travel
for the next decades by making
apron operations more efficient, safer
and more sustainable.



### THE CHALLENGE

## TURNAROUNDS = BLACKBOX

Poor data availability materializes in





suboptimal asset utilization



excess cost



unattributed incidents

### **OUR SOLUTION**

We feed ramp video\* to Al to understand every turnaround and prevent incidents.

\* preferably from existing cameras in VDGS & CCTV



# OUR ECOSYSTEM

We believe in data fusion and leverage your existing investments.

Software

amadeus





**T**··Systems·



Video acquisition



avigilon







Recognized







## VISIT OUR ONLINE DEMO



Click here: <a href="https://assaia.com/tmc">https://assaia.com/tmc</a>

## ACCIDENT PREVENTION

#### **OLD WORLD**:

X Erratic monitoring/audits Incidents happen

**X** Hazards undetected

X



Our AI can identify dangerous situations. It also has situational awareness to track speed & direction of objects.

#### **NEW WORLD:**

- ✓ 24/7 monitoring
  - ✓ Incidents prevented

✓ Alerts ahead of time

## ACCIDENT PREVENTION & REPORTING

#### **OLD WORLD:**

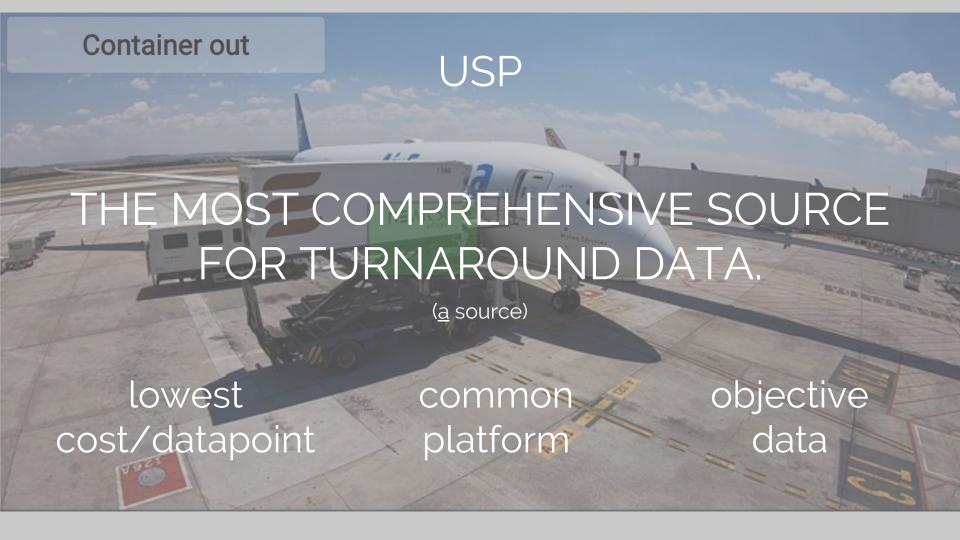
X Erratic monitoring/audits X Hazards undetected X Incidents unnoticed - damage unreported



Our AI can identify dangerous situations. It also has situational awareness to track speed & direction of objects

#### **NEW WORLD:**

- ✓ 24/7 monitoring ✓ Alerts ahead of time
- ✓ Incidents prevented / damage investigated



### BENEFITS & ADVANTAGES

Improve OTP

Real-time intervention (turn recovery)
Systematic turn optimization
Handler performance analysis
Improved SLA carrier/handler alignment

Increase turns/gate

Decrease cost per turn

Automated SLA & service validation Contract optimization (also: more dynamic) Decrease manual effort Clear responsibilities for delays & damages

Improve safety record

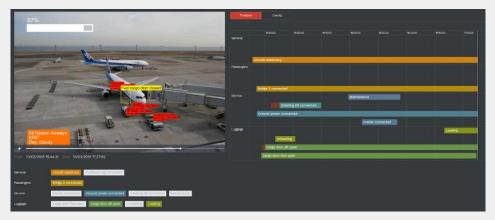
Prevent incidents before they occur Increase audit coverage to ~100% Automate reporting Increase turnaround & back office efficiency

### REALTIME DASHBOARD

#### customer



user turnaround coordinators



use case realtime turnaround monitoring & steering

before

turnaround/



after





est. savings



### **DEVELOPMENT & TESTING**

Assaia's technology has been tested successfully together with airports, airlines and ground handlers in various test, pilot and live deployments.

We have carried out projects at airports with 95,000 to 475,000 movements per year, among them London-Heathrow and some of the largest in the US.

During these tests, we have confirmed that our technology works

- under adverse light conditions\*
- in bad weather\*
- with many different aircraft types
- with many different cameras

\* Line of sight must be maintained.







Map shows completed, underway, and committed projects.



### Recent Sales Success

Assaia has been chosen by Seattle-Tacoma, Quebec City, and Cincinnati for a production rollout of its AI technology

Assaia is currently engaged with all major US carriers, who see the tremendous value the Apron AI can bring to their operational efficiency as well support the organizations in improving safety

LAWA, SFO and YHZ have recently chosen Assaia as the single provider of choice for a POC

Assaia is also performing its first POC with a major carrier in Latin America

## **OUR CUSTOMERS**

Airports









+ 15 more

Airlines



+7 more

Handlers



+ 1 more

#### GATWICK & ASSAIA

Gatwick Airport is one of the busiest single-use runway airports in the world. It comes at no surprise that all ground operations are centered around maximizing the utilization of their most valuable assets.

In fall 2018, Gatwick successfully validated Assaia's technology. Now, our partnership is moving forward with a production rollout at a number of positions. The data generated by the Apron AI is provided to airlines and ground handlers. It is also used to accurately predict OBT.

#### Expected benefits:

- Improved OTP
- Increased turns/gate

- Improved pax happiness
- Increased retail revenue



## assaia Management team



Head of AI Dr. Nikolay Kobyshev



Al-based 3D reconstruction from 2D imagery



VP Engineering
Dmitry
Chugreev

expertise

Distributed high-availability, mission-critical enterprise systems



CEO Max Diez

expertise

Helped dozens of companies introduce new IT systems, together with HP, Accenture & Microsoft assaia

## assaia AVIATION EXPERTISE



Chief Customer Officer Christiaan Hen

8 years in airports previous roles
Operations Manager
Head of Innovation
Royal Schiphol Group



President Americas
Norbert Steiger

20 years in aviation IT previous roles
VP New Ventures &
Large Deals SITA
VP LatAm SITA

#### Get in touch!



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