



The Future of Airline Operations

Vivian Dsouza | Head of Sales – Asia, Flight Operations Solutions

CAPA Asia Aviation Summit & Sustainability Awards 2023

CAE

CAE Flight Operations Solutions in numbers

Solutions to manage and optimize flight plans, crew planning, airport, and airline operations

Every day:

22k flight plans generated

200k crew and **20k** airport staff

140k flights tracked + monitored

7,000+ aircraft managed

1M+ meals served onboard

1.7M crew touch-points



Pandemic outcomes

Workforce Turnover



Institutional
knowledge loss

Infrastructure



Delayed
modernization

Operating Environment



Dynamic and
unpredictable

Operating Expense



Budget constraints

Inflection point

Past 30 years

Today

Next 30 years

Slow pace of technology change

Business processes drive performance

Operations run more or less the same way

Rapid pace of technology

Dynamism and uncertainty will persist

Flexibility in approach required

Decision criteria

Technology

- Cloud
- Services
- Modularity
- User experience
- Intelligent automation
- Data integration

Airline Operations

- Balance between people and machines
- Breaking down silos
- Real-time decision making
- Seamless disruption management
- Open to continuous learning and adaptation

AI/ML to improve management of connected environments



Operations Control

Predicting delays



Crew Management

Enhancing crew productivity



Flight Management

Anticipating disruptions



Airport Management

Providing the best gate allocation



In-Flight Service Management

Predicting food wastage and shortage



Training Management

Ensuring compliance, increasing user productivity and operational efficiency

Our investment and commitment towards digital transformation



Operations Control

- Operations Recovery
- Task Board

Crew

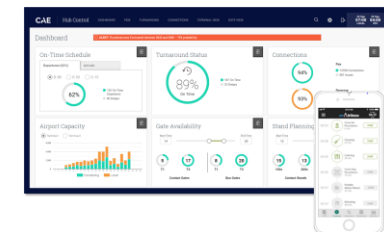
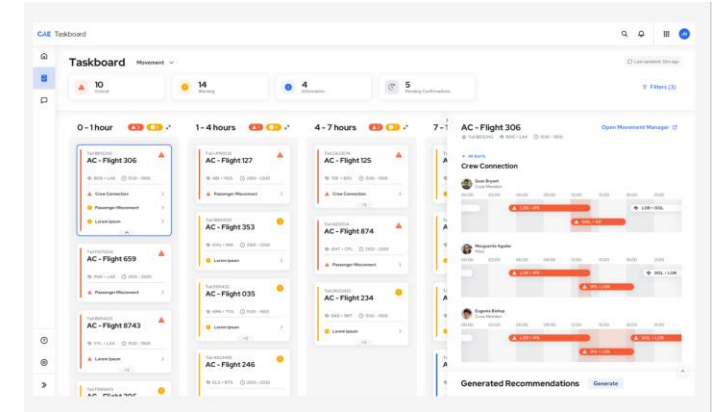
- Crew Recovery
- Crew Planning
- Training Scheduling, Optimization, and Pelesys integration

Flight

- Terrain Resolver
- Trajectory Optimizer
- Suitability Checker
- Workload Optimizer
- Flight Explorer Web and Mobile

Airport/In-Flight

- Airport NextGen
- In-Flight: ML Enabled Meal Forecasting
- In-Flight: UX refresh



Transforming innovation into major environmental gains



3,000%kg

**fuel savings per flight on
average per foot length**



500%

**meals waste per flight per
passenger**



Revolutionizing flight operations as
you know it

Thank you!

CAE