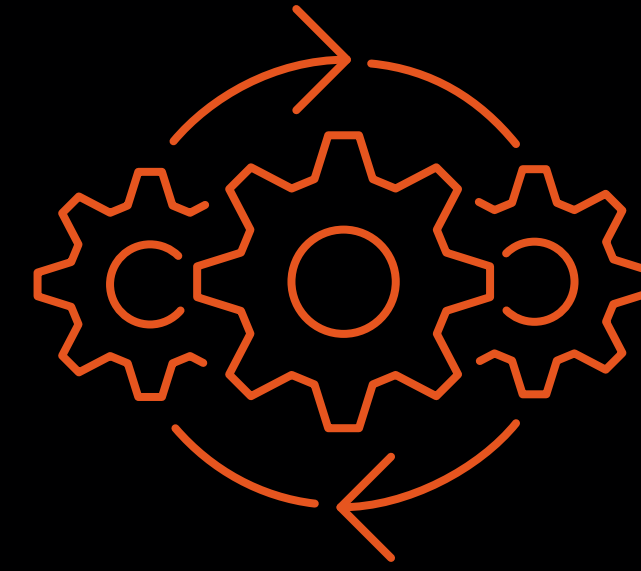


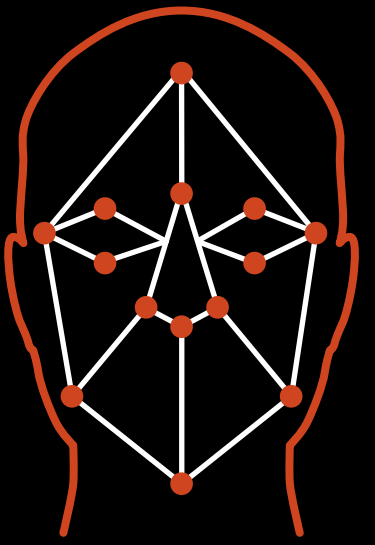
# HIDDEN BENEFITS OF BIOMETRICS FOR AVIATION



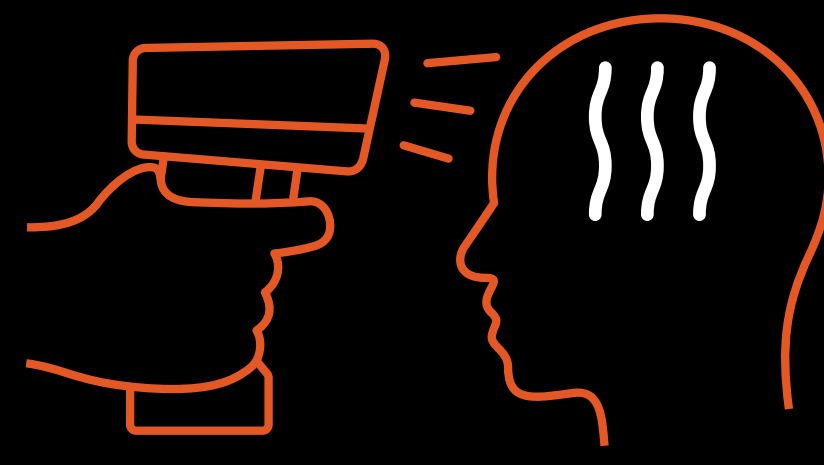
Restoring passenger confidence and improving airport efficiency



## CONTACTLESS PASSENGER JOURNEY



Biometrics can eliminate photo ID, passport and boarding pass



Passenger health monitoring



Virtual queuing apps for check-in and boarding

## PRE-SECURITY

Non-aeronautical revenue



**\$7.08**  
per passenger

Source: ACI

**35.4%**



of that (\$2.51) is spent in retail or F&B

Source: ACI

**30 min.**



Time available to shop or eat (dwell time)

Source: Nigel Dalby Consulting

**\$0.08**



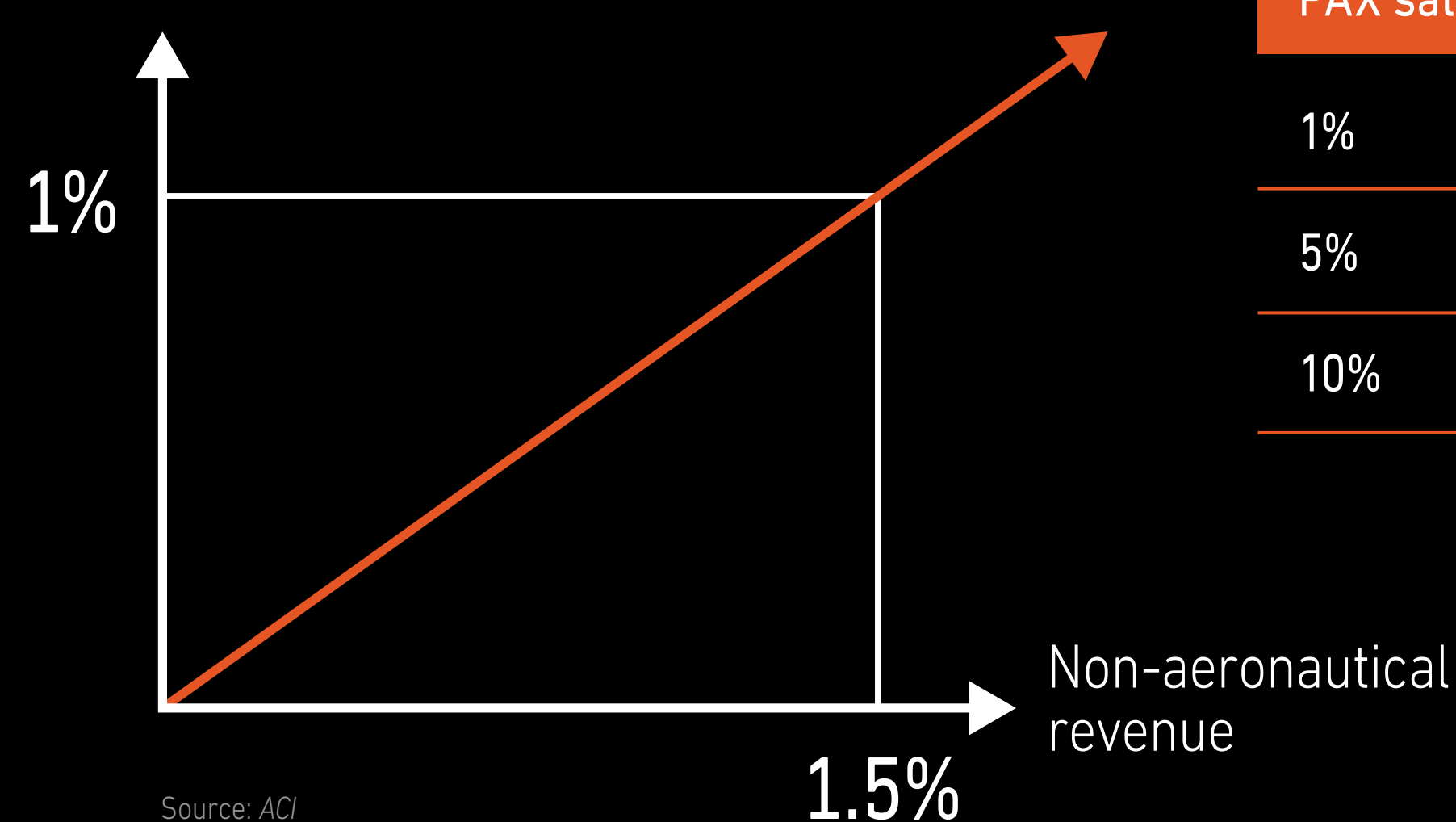
Passenger retail and F&B spend per minute

**Saving each passenger from one minute of queuing can be worth \$4.2M each year**  
For an airport with 50 million passengers per year

## AIRSIDE

PASSENGER SATISFACTION HAS A POSITIVE EFFECT ON NON-AERONAUTICAL SPEND

Passenger experience



Source: ACI

% increase in PAX satisfaction	50M PAX	20M PAX	10M PAX
1%	\$1,882,500	\$753,000	\$376,500
5%	\$9,412,500	\$3,765,000	\$1,882,500
10%	\$18,825,000	\$7,530,000	\$3,765,000

**\$2.51**



Retail, food and beverage spend per passenger

Source: ACI

## BOARDING

FASTER BOARDING CAN REDUCE THE ONGOING COST OF FLIGHT DELAYS

**\$112**



per minute to an airline

Source: The Independent

**\$32B**



cost to U.S. economy

Source: FAA

**\$8.3B**



cost to U.S. airlines

Source: FAA

Biometrics at the boarding gate

- Less than 15 minutes to board a Boeing 777
- 20 minutes to board 350 Airbus A380 passengers
- Faster boarding = less congestion

SAVINGS FROM REDUCED COSTS

**30%**



less time boarding a 777

**Self-service**



reduces reliance on agent staffing