Taxi-Out Additional Time Dataset

Data description

The additional taxi-out time (http://ansperformance.eu/references/definition/additional_taxi-out_time.html) is a proxy for the average departure runway queuing time on the outbound traffic flow during congestion periods at airports.

It is the difference between the actual taxi-out time of a flight and a statistically determined unimpeded taxi-out time (http://ansperformance.eu/references/definition/unimpeded_taxi-out_time.html) based on taxi-out times in periods of low traffic demand.

When monitoring taxi-out performance at airports, it is important to note that the goal is not to reduce taxi time to the unimpeded reference time - as this could negatively impact on runway throughput - but rather to reduce additional taxi-out time and associated fuel burn to the necessary minimum.

Column naming and types

Column name	Data source	Label	Column description	Example
YEAR	Network Manager	YEAR	Reference year	2014
MONTH_NUM	Network Manager	MONTH_NUM	Month (numeric)	1
MONTH_MON	Network Manager	MONTH_MON	Month (3-letter code)	JAN
APT_ICAO	Network Manager	APT_ICAO	ICAO 4-letter airport designator	EBBR
APT_NAME	PRU	APT_NAME	Airport name	Brussels
STATE_NAME	PRU	STATE_NAME	State in which the airport is located	Belgium
FLT_TXO_UNIMP_2	NM/airport	FLT_TXO_UNIMP_2	IFR flights with unimpeded reference time	7290
TIME_TXO_UNIMP_2	NM/airport	TIME_TXO_UNIMP_2	Total unimpeded reference taxi-out time in minutes	60081
TIME_TXO_ADD_2	NM/airport	TIME_TXO_ADD_2	Total additional taxi-out time in minutes	15175

Calculated Field(s)

$$\text{Average unimpeded taxi-out time} = \frac{TIME_TXO_UNIMP_2}{FLT_TXO_UNIMP_2}$$

$$\text{Average additional taxi-out time} = \frac{TIME_TXO_ADD_2}{FLT_TXO_UNIMP_2}$$

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