



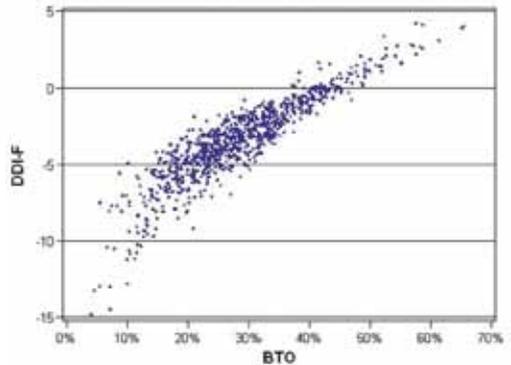
Benchmark your scheduling

Scheduling correctly is a difficult art: if too long a time is blocked for a flight, the airline will not be able to make best use of resources - staff, airframes, infrastructure. But too short a time can arguably be worse as late flights generate rotational delay with late incoming aircraft and passengers from previous flights having to be accommodated. When flights leave on time but arrive after the scheduled time of arrival, they cause reactionary delays.

CODA, the Central Office for Delay Analysis at EUROCONTROL, has developed new indicators that complement the existing punctuality indicators and are very helpful indeed in assessing an airline's punctuality.

There are two of these indicators:

- The Block Time Overshoot (BTO): this gives the percentage of actual block times which are longer than the scheduled block time. The BTO of flights operated in Europe is typically between 25% and 35%.
- Delay Difference Indicator-Flight (DDI-F): this is the difference between the arrival punctuality and departure punctuality expressed in minutes. Flights operated ahead of schedule can therefore have a negative delay figure. The DDI-F of flights operated in Europe, with a tendency to be slightly negative, is typically around -3 minutes.



BTO and DDI-F by airport-pair (with at least 1000 observations). Each '.' represents an airport-pair.

Arrival punctuality is mainly influenced by departure punctuality. An optimal schedule is delay neutral: it neither adds delay to the flight phase nor incorporates a buffer, because this is not cost-effective.

Planners should use past performance data when drawing up a schedule. It helps when planning is done with a large volume of shared data and not in a vacuum.

CODA has a unique, decade-old archive of detailed punctuality data of over 60% of filed European flight plans and regularly publishes reports on trends, giving insights into specific aspects.



You can find all the CODA reports at
www.eurocontrol.int/coda



We also publish traffic and punctuality statistics on
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