Rail Delivery Group



Modal comparison: Rail and Air

The Williams Rail Review

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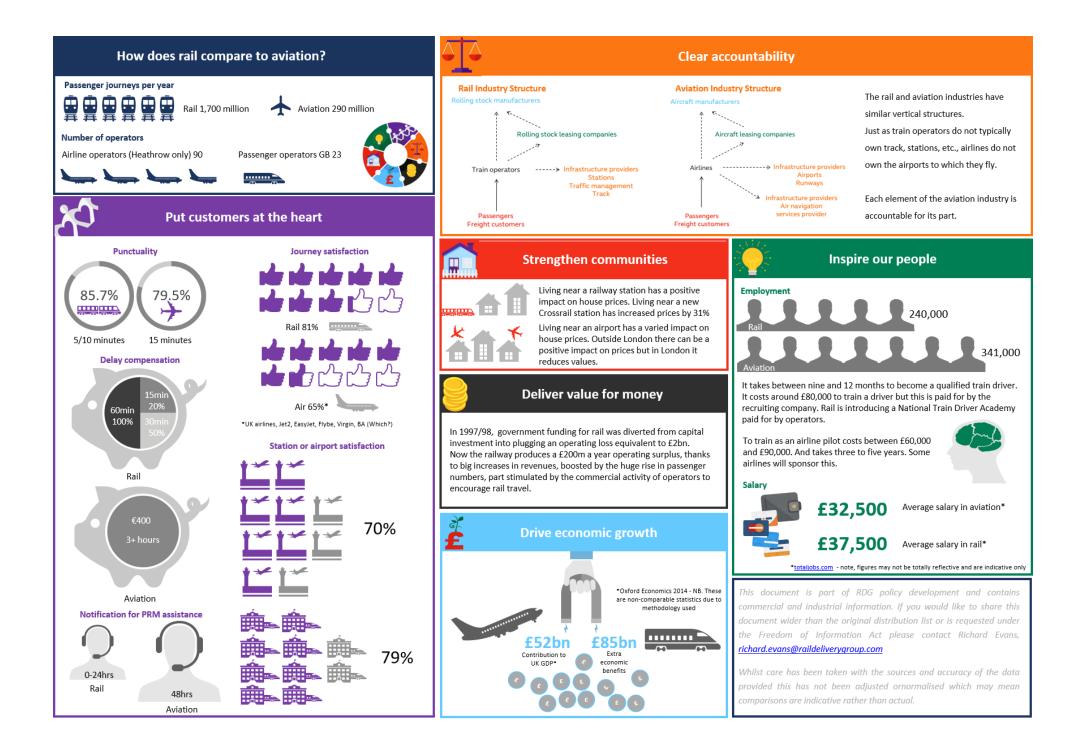
As part of a series of comparative studies of transport systems, this document profiles how air compares with rail.

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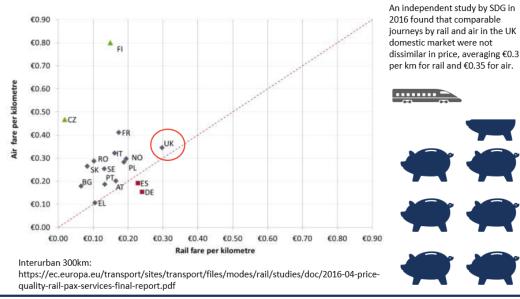
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Speed

Fares





Slot and path allocation

Air

Slots are only allocated at airports where there is insufficient capacity for the number of aircrafts looking to land, these are called coordinated airports. In the UK these airports are: Heathrow, Gatwick, Stansted, Manchester, Luton and London City. The slots are allocated through Airport Coordination Limited (ACL) every 6 months (Summer/Winter allocations). Given the number of factors which dictate the price a company pays for a slot (time/season/location/Size of airline) and the difficulty in accessing prices paid it is impossible to determine some sort of market value for airport slots.

If airlines do not use their slots- many of which are 'grandfathered'- then they lose the slot. To comply with the "use it or lose it" rule, many airlines resort to artifice—flying smaller planes than necessary in order to spread capacity across their slots, for example, and even running empty "ghost" flights to ensure that the runways are busy at the appointed time. So instead of slots being recycled from established carriers to new ones, they are clung to. One analysis showed that only 0.4% of London Heathrow's total slots and 0.7% of Paris Charles de Gaulle's were allocated to new entrants during the period under study.

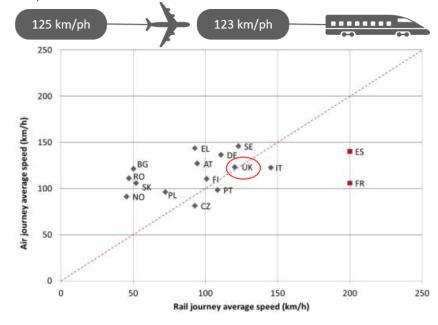
Rail

Part D of the Network Code details how railway timetables are produced for the bi-annual timetable change and ad-hoc requests. Railway undertakings have certain rights of appeal in

Average journey time for domestic journeys

An independent study by SDG in 2016 found that domestic rail and air travel have similar speeds (factoring in waiting etc). However, the assumed waiting time at airports was low.

The model assumes a 30 minute check in and 30 minute exit time. In reality these times are longer with recommended check in of 1 hour due to security measures. These estimates also do not calculate time to city centre.

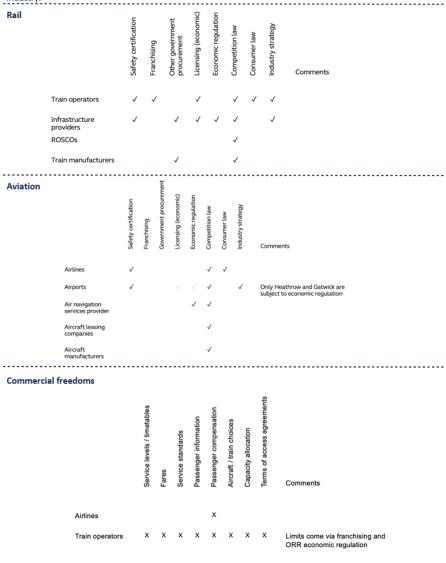


Interurban 300km: https://ec.europa.eu/transport/sites/transport/files/modes/rail/studies/doc/2016-04-price-quality-rail-pax-services-final-report.pdf

respect of decisions made by Network Rail during the timetabling process. These appeals are heard by a specialist Timetable Panel established by the Access Disputes Resolution Committee, an independent body with a majority of members elected by railway undertakings and others appointed by Network Rail . The slots given in the timetable will reflect access rights which a train operator has in its track access agreement with Network Rail (approved by the ORR). There are also "use it or lose it" provisions, which are designed to ensure that any un-used capacity is not "locked up". However, given that the vast majority of passenger services are required by franchise agreements and freight services are reviewed from time to time, recently there has been no use of these provisions to any significant extent.

Rail	No. of companies	Central government body	Public corporation	Private sector	Monopoly activity	Competitive activity	Comments
Train operators	> 20		\checkmark	\checkmark	\checkmark	\checkmark	Mostly private-sector companies. LNER is currently a public corporation.
Infrastructure providers	< 10	\checkmark	\checkmark	\checkmark	\checkmark		Companies other than Network Rail are responsible for relatively small pieces of infrastructure.
ROSCOs	< 5			\checkmark		\checkmark	
Train manufacturers	< 5			\checkmark		\checkmark	,
Aviation	No. of companies	Central government body	Public corporation	Private sector	Monopoly activity	Competitive activity	Comments
Airlines	< 20			\checkmark		\checkmark	NB: domestic travel market only
Airports Air navigation services provider	> 50 1		~	√ √	\checkmark	~	NATS is 49% government owned
Aircraft leasing companies	< 20			\checkmark		\checkmark	
Aircraft manufacturers	< 10			\checkmark		\checkmark	
							tion

Companies across the aviation and rail industries must comply with safety regulation, competition law and consumer law. Otherwise, state intervention in the aviation sector is limited manly to the regulation of three companies (Heathrow, Gatwick, NATS) with significant market power and the development of an overall government strategy for the development of airport capacity in the south east of England. By contrast, the government contracts for most passenger train services via franchises. The government also builds/purchases infrastructure and purchases trains directly. ORR's reach as regulator covers all infrastructure and train service providers. The government also takes on responsibility for devising and delivering a strategic vision for the rail industry.



Forms of state intervention

Companies in the aviation sector are almost all privately owned. The exceptions are:

a) a small number of airports that are owned by local authorities b) the government's minority stake in the National Air Traffic Services (NATS)

There is more public ownership in the rail industry, notably via government ownership of Network Rail.

There is only one pure monopoly in the aviation sector - i.e. NATS. All other companies face competition.

There is much less choice for companies and passengers in the rail industry, partly due to problems of natural monopoly (e.g. in infrastructure) and partly due to policy decisions.