

Rail innovators nominated for prestigious industry award

October 13, 2021

RDIS TRAIN ASSOCIATION - FORECAST

Allocates data from the O/D Analyser to trains

- Historic timetable
- Future timetables (short- & long-term)

THIS IS A FORECAST
 This data is the *forecasted* loading for this train service. If it has run at least 2 days ago, then a train load audit should also be available in the menu.

Station	Alighters		Boarders		Normal Capacity	Capacity Avail (Seats)	Onboard at dep	Capacity Used
	Eligible	Allocated	Eligible	Allocated				
EUSTON	-	-	99	99	-	244	99	41%
MKNSCEN	30	30	9	9	-	244	78	32%
RUGBY	3	3	-	-	-	244	75	31%
NNTN	19	19	3	3	-	244	59	24%
ATHRSTN	6	6	3	3	-	244	56	23%
TMWTHLL	24	24	3	3	-	244	35	14%
LCHTTVL	13	13	-	-	-	244	22	9%
RUGL	3	3	13	13	-	244	32	13%
STAFFRD	16	16	-	-	-	244	16	7%
CREWE	16	16	-	-	-	244	0	0%

- Uses data from historic train association to forecast load on trains
- Uses similar symbology to historic loading, but highlights where forecasts are in place
- Calculated every day from 3 days prior to operation for short term operation

Location	Planned		
	PI	Arr	Dep
EUS London Euston	12		1546
MKC Milton Keynes Central	5	1618	1619
RUG Rugby	2	1642	1642
NUN Nuneaton	2	1653	1655
ATH Atherstone		1700	1701
TAM Tamworth		1708	1709
LTV Lichfield Trent Valley	1	1715	1717
RGL Rugeley Trent Valley	2	1724	1724
STA Stafford	3	1734	1734
CRE Crewe	7		1752



RASIC – the Rail And Station Innovation Company – has been nominated for a prestigious industry award for a project which could eventually revolutionise the public transport experience.

The Rail Demand Information System – or RDIS – focuses on accurately gauging the occupancy of trains. Development of the study could lead to even more sophisticated information being available to subscribing passengers – for example, was the previous service delayed or cancelled; leading to overcrowding on later trains.

The Railway Innovation Awards 2021 take place in London on Friday 15 October and the team is eagerly awaiting the result.

Marcus Mayers, Managing Director of RASIC said: “It’s an amazing achievement to be nominated for an award like this. My small but perfectly-formed team have created a winning collaboration with excellent companies and industry experts. To get this exciting project to a point where the industry recognises its worth and potential is incredible. We’d love to win and we know already this is a winning product.”

RDIS uses various data sources to improve the information collected via mobile networks. Anonymised data is collected from mobile networks' cell towers. This versatile body of data identifies station usage as well as an indication of journey times and routes chosen - with a wider interest to transport infrastructure providers.

The collaboration of parties with RASIC, train operating companies and passenger transport executives has presented some innovative solutions and insights into how people travel. For the passenger, it allows trends to be analysed which would aid service provision in the future.

RASIC has already designed and implemented delivery strategies that offer controlled, progressive improvements to the existing rail environment. The team currently has over 15 live innovation projects in the UK and across Latin America, with more in their infancy. The firm specialises in using technology to improve the rail industry through validation-of-use cases, production of the value proposition / business cases, introductions to live users and ongoing subject matter expertise.

For more comment, further detail on RASIC or RDIS or for media appearances, contact Marcus Mayers, Director of RASIC at marcus.mayers@rasic.co.uk or 07747-771894 (24 hr).

Station Dashboard Portal View

Station	Live Usage Count - %	Incoming Flow (5 minutes)	Outgoing Flow (5 minutes)	5 Minutes Ago	15 Minutes Ago	30 Minutes Ago
Birmingham New Street	303 - 61%	312	310	62%	62%	58%
Brighton	621 - 104%	486	446	81%	74%	71%
Bristol Temple Meads	225 - 56%	256	238	64%	60%	80%
Clapham Junction	194 - 32%	140	194	23%	32%	38%
Edinburgh	315 - 63%	338	279	68%	56%	62%
Easton	241 - 48%	219	214	44%	43%	42%
Fenchurch Street	86 - 29%	94	86	31%	29%	33%
Glasgow Queen Street						
Highbury & Mington						
King's Cross						

Single Station Portal View



- Returns the total number of people seen within the realm of the station.
 - This means that people are counted if they are on platforms, on trains waiting at the platform, on the station concourse or waiting area, in shops at the station or in the very close vicinity of the station. However, it does not distinguish between these different areas.
- The system also shows *indicatively* the likely station destination of those people present within the station of interest. This is derived using device information and long term trend analysis.
- This is new methodology for measuring station usage that will help us understand not just occupancy but also build-up of demand and the flow of passengers in and out of the station.
- We released this functionality to the TOC community on the 6-Aug for testing and feedback.
- This is different to the Waterloo proof of concept that uses the LIDAR sensors to provide information to staff and passengers about passenger density and other attributes in selected zones that are deployed with sensors at Waterloo.

Photo credit: RASIC