

AGILYSIS RISK MAPPING

Road Safety Foundation EuroRAP UK 2017 - 2019 Select a route to reveal de

EuroRAP Route - JM643 A361, Oxfordshire 20.20 km

Route Details

Fatal and Serious Collisions 2017-2019 - 11 (2014-2016 - 12)

Average Annual Daily Flow





Map demonstrating example functional links



http://rsfmaps.agilysis.co.uk/

national express

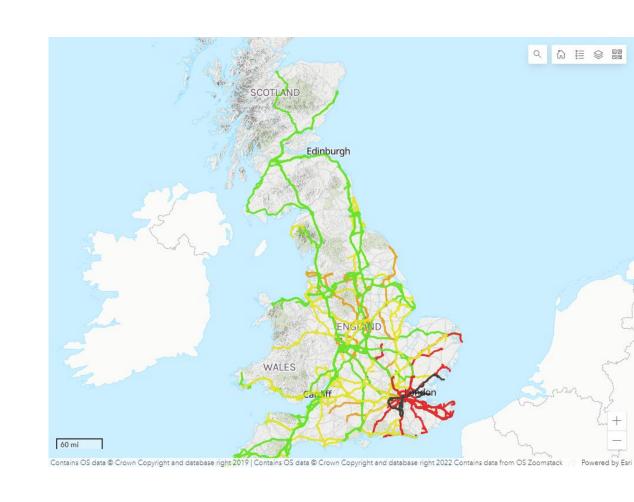
- Leading coach company in the UK
- Operating for 50 years
- Leading international transport provider
- Strong commitment to safety
- Inspired by <u>www.crashmap.co.uk</u> they approached Agilysis to carry out a bespoke analysis of risk on their routes
- Work began in 2019





NATIONAL EXPRESS TELEMATICS DATA

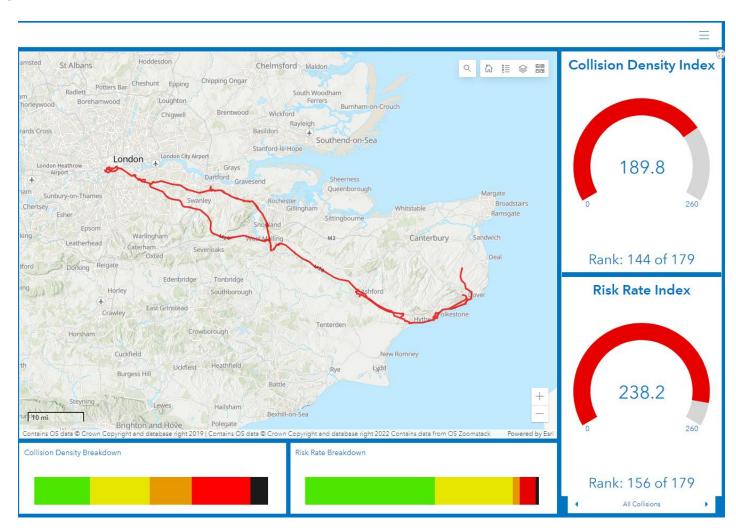
- National Express operate over 150 routes in the UK.
- Provided three years telematics data covering
 159 million km of journeys
- Ping speed and GPS location every 2 minutes (580 million pings and 44.6GB data)
- Assigned pings to individual journeys so that we know how many times that route was driven
- The ping locations were matched to the road network by proximity using ArcGIS
- Output was a bespoke national map detailing routes





CALCULATING RISK

- Combined with open-source collision data <u>DfT STATS19</u> and traffic flow data <u>DfT Road Traffic</u> Counts
- Two metrics for the route 1)
 Collision Density and 2) Risk rate
- Output in a National Dashboard displaying the risk by numbered routes
- Additional 150 more detailed individual route dashboards
- Access for approximately 50 operators



USE CASE SCENARIOS AND THE FUTURE

- Safety of customers and employees is a priority
- Use of the dashboards to carry out annual risk assessments
- Continued relationship with the client
- Annual updates/amendments to routes
- Bespoke training material
- User support in bespoke ESRI portal







agilysis

LYNDSEY OWEN

+44 1295 731820

+44 7970 283275

Lyndsey.owen@agilysis.co.uk