AGILYSIS RISK MAPPING

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

Route Details
EuroRAP Route - JM643 A361, Oxfordshire 20.20 km

Fatal and Serious Collisions
2017-2019 - 11
(2014-2016 - 12) -10%

Change in FSC from 2014-2016

Average Annual Daily Flow

3000 4000 5000 6000 7000 8000 9000 10000

0 2 4 6 8 10 Analysis Year

Map demonstrating example functional links

http://rsfmaps.agilysis.co.uk/
• Leading coach company in the UK
• Operating for 50 years
• Leading international transport provider
• Strong commitment to safety

• Inspired by www.crashmap.co.uk 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 DfT STATS19 and traffic flow data DfT Road Traffic 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