Integrated Offline and Real Time Modelling



Part of the Smart Transport Evolution Programme (STEP)

Chris Cuckson – Transport Modeller, CYC Bence Verebelyi – Managing Director, RelativeGAP

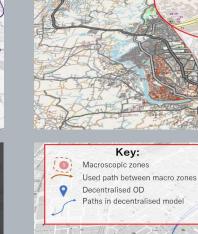


Data Driven Transport Modelling

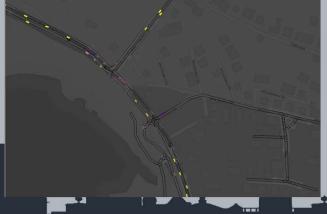


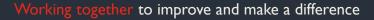












Smart Travel Evolution Programme



RELAT VEGAP

"Through the Smart Transport Evolution Programme we are pioneering new, intelligent systems to build upon the city's great connectivity and history of transport innovation."

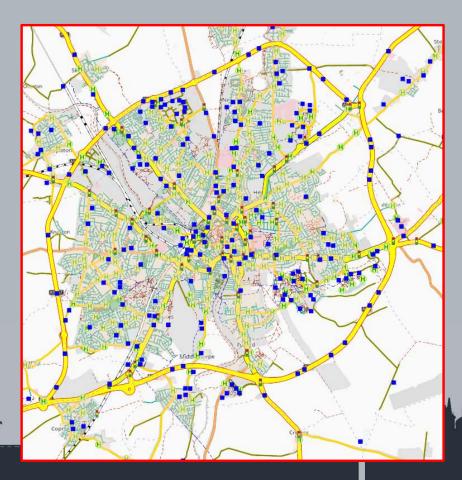
James Gilchrist, Assistant Director for Transport, Highways and Environment, City of York









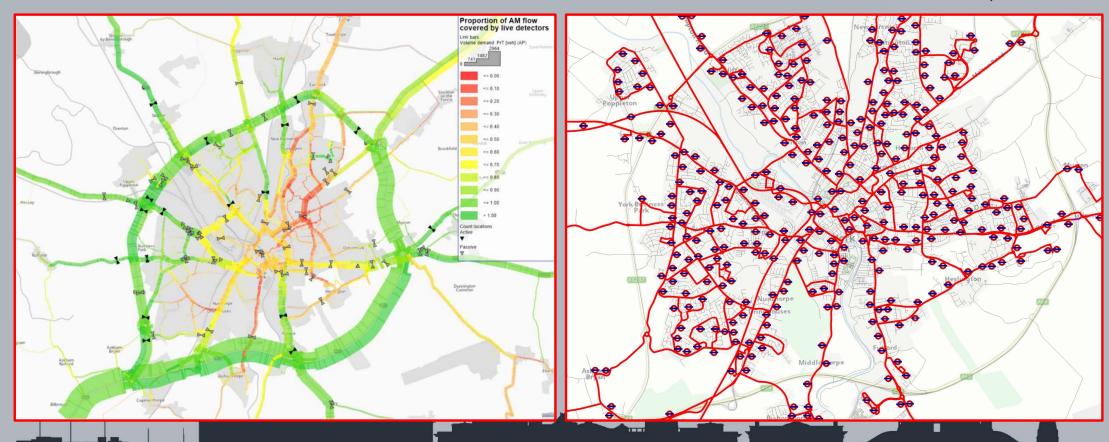




YORK

The Strategic Transport Model

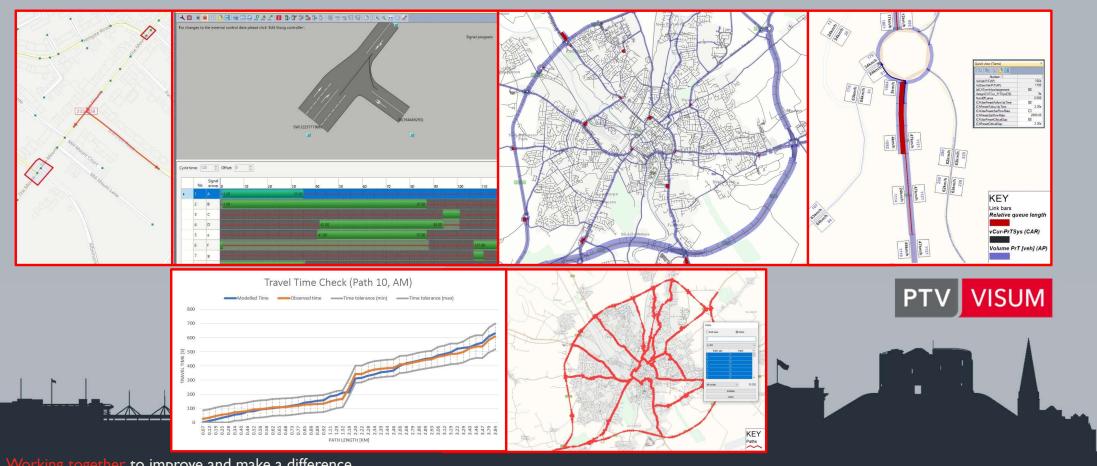




Strategic Model Calibration

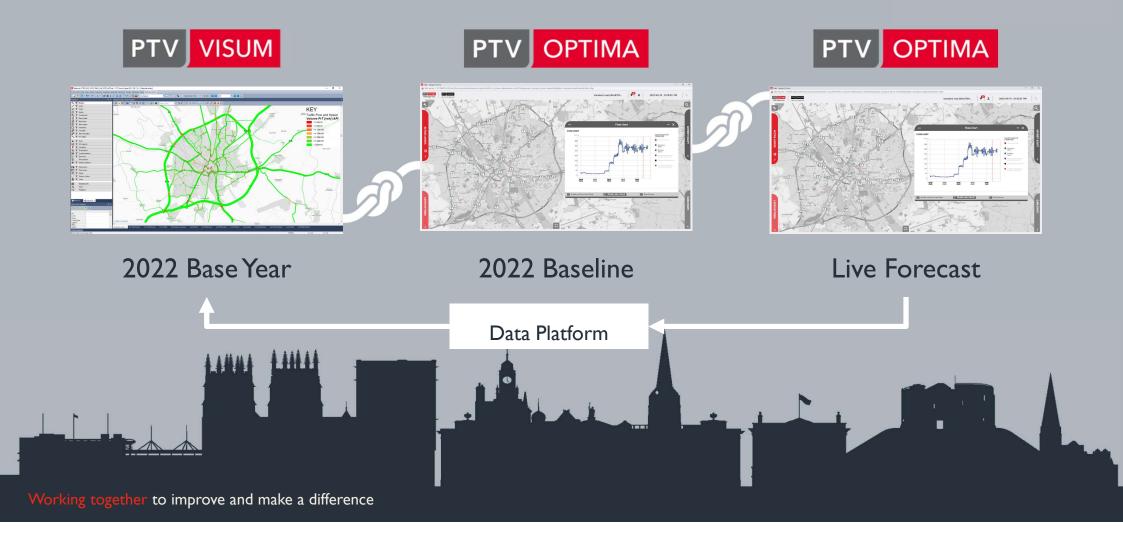


RELAT VEGAP



Model Structure





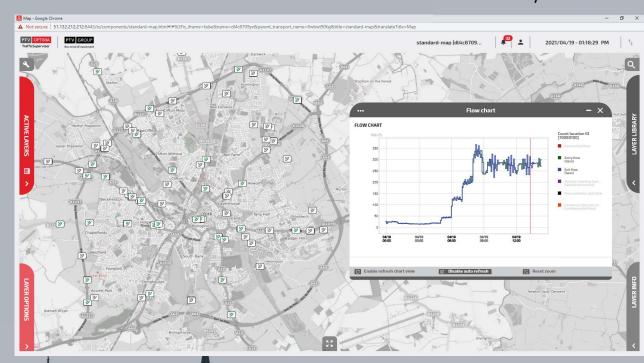
Live data available to Optima in York



RELAT VEGAP

(I) Traffic Flow Count

Approx. 100 traffic flow counters, with 'hourly PCU' being pushed to Optima with <1 minute latency, every <5 minutes



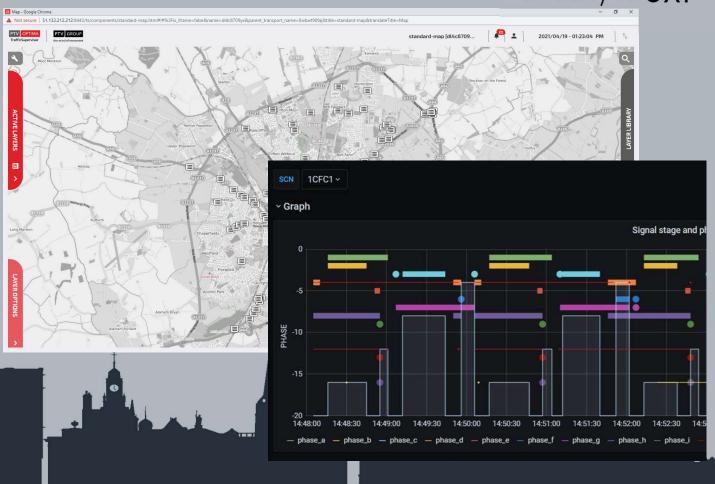


Live data available to Optima in York

RELAT VEGAP

(2) Signal Data

Approx. I 50 signal controllers. Half send interstage start times and cycle times for cycles as they complete with < I minute latency



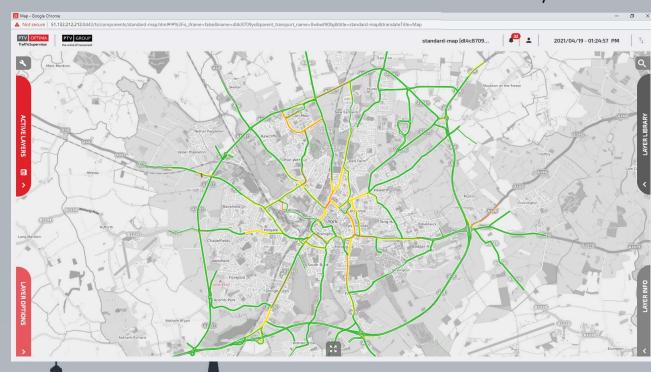
Live data available to Optima in York



RELAT VEGAP

(3) TomTom Data

Live speed data from **TomTom** pulled by Optima every <5 minutes



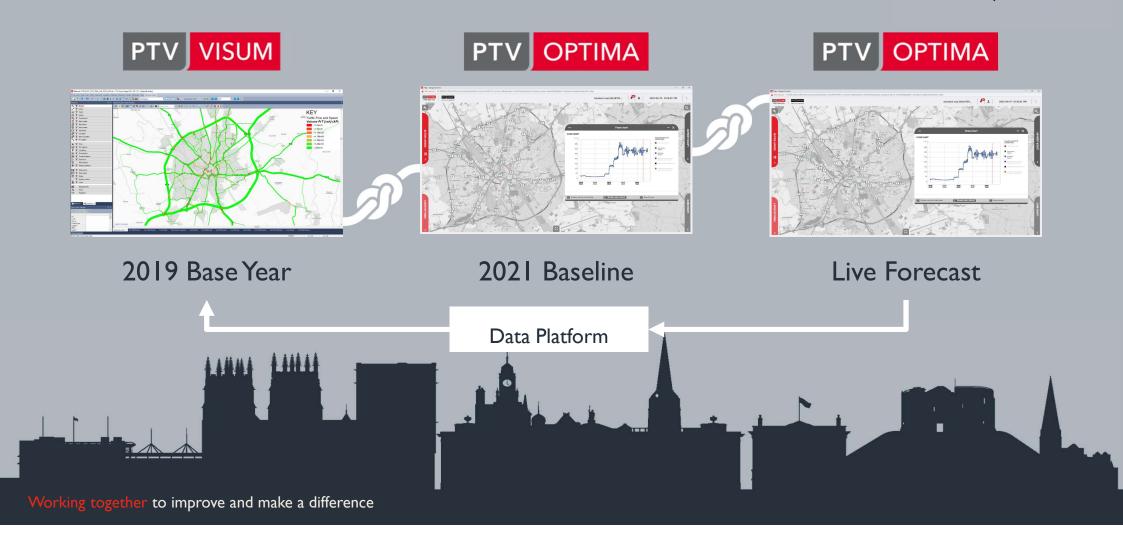
Benefit: Monitoring Alerts





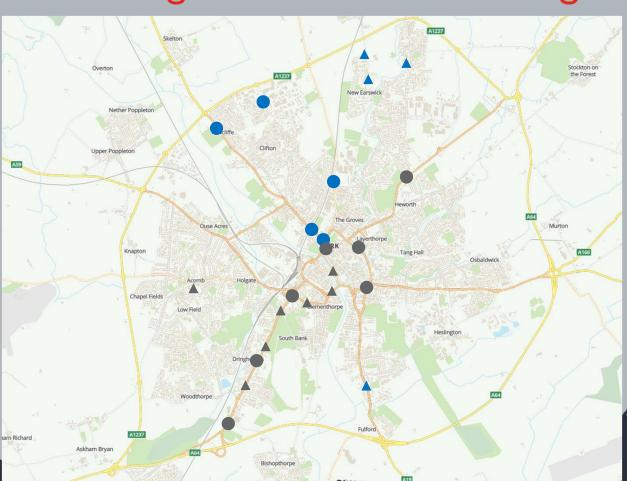
Benefit: Model Revalidation





TSAR Programme Refurbished Signal Junctions





- 5 Signalised Junctions
- **A** Pedestrian Crossings
- 7 Signalised Junctions next year
- 7 Pedestrian Crossings next year









Thank You for Your Attention!



Chris Cuckson – Transport Modeller, CYC chris.cuckson@york.gov.uk

Bence Verebelyi — Managing Director, RelativeGAP bence.verebelyi@relativegap.com

