Bus: the saviour of the sports car

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A comprehensive and colour coded network...

frequent bus services all over Reading

pick up a route leaflet below for full details
So we’re done, right?
Big Data!

Planned ops: Timetable, schedule, duties, rotas, allocation

Live ops: Schedule adherence, lateness, predicted arrivals

Historic ops: Punctuality, reliability

Real-time pax info: Next stop info, voice announcements, bus stop displays

Ticketer: Cash sales, ITSO cards, contactless, 2D barcodes, printer

Sales back office: Sales, pass usage, journeys, elasticity, trends, patterns.

Telematics: vehicle performance, driver behaviour, live powertrain CAN info

CCTV: Up to 16 cameras plus HD IP capability

Customer Wifi: 2x 4G SIM cards, GPS, MAC tracking

Fuelling: Daily mileage, diesel, Adblue, gas

Fleet management: Planned maintenance, unplanned defects, parts issued, cleaning & auditing

Stores management: Purchasing, stock control, auditing, parts issuing

What next?: Seat occupancy sensors, USB usage data, tree strikes and more…

Sales back office:
Buses that move anywhere on the network?

Credit: Citymapper
https://medium.com/citymapper/the-responsive-network-part-3-3-f9d8394d84f3
Or even change the network?

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Dynamic DRT

- Customer sees pricing for demand by location and/or timing.
- Driver sees dynamic loading schedule and route, re-routed even during the journey.
- Complements scheduled bus services

Size of vehicle is a compromise for this work:

- Minibuses can access narrow streets but these longer diversions inconvenience customers wanting direct travel
- Larger buses can’t access as many streets but carry more customers so likely to have many diverse pickup/drop-offs, taking customers out of their way
• Partnering with interested parties for initial 6 months
• Free access to office, workshop, labs and fleet
• Open access to operating data plus deeper access under NDA
• Scope to develop products, services, apps

• Open data: http://rtl2.ods-live.co.uk/cms/

We’re looking for partners!
3D printing
Tree branch strikes
Customer demand mapping
Twitter bot
Reading Uni Hacksoc
LoRaWAN temperature sensing
Customer demand prediction