

How far can the use of technology help us bridge the funding gap?






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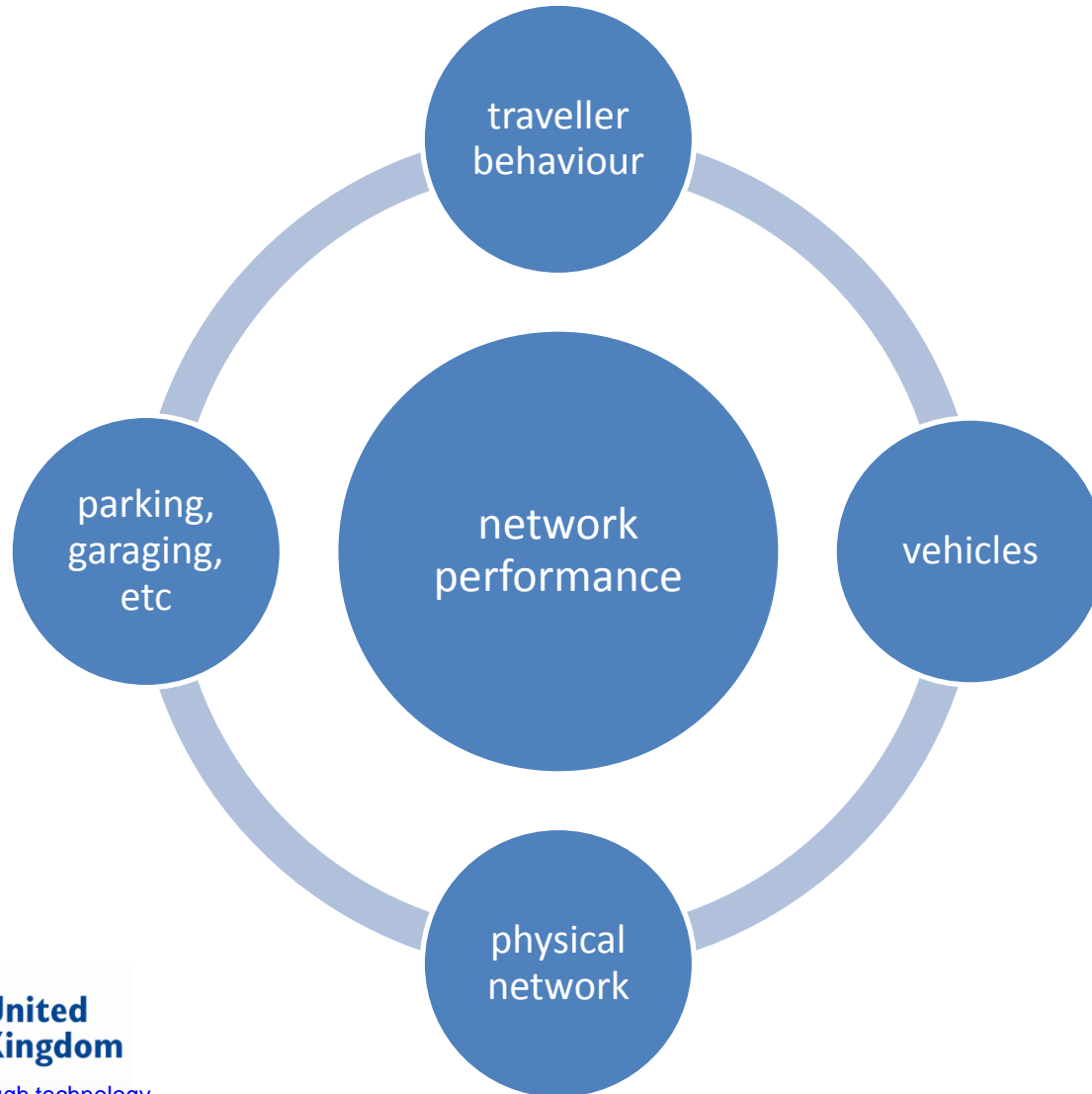
Likely implications of reduced public funding

- Journey times 
- Journey reliability 
- Safety 
- Environmental impact 
- Customer satisfaction 

Approaches to reduced public funding

- Alternatives means of funding/ managing the infrastructure
- “Systems” view of how the infrastructure is used and managed

Road transport as a system

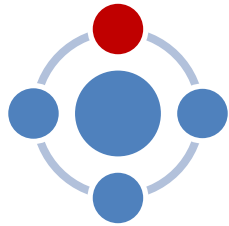


Traveller behaviour

- Home-working
- Mode choice
- Journey planning



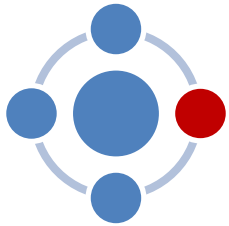
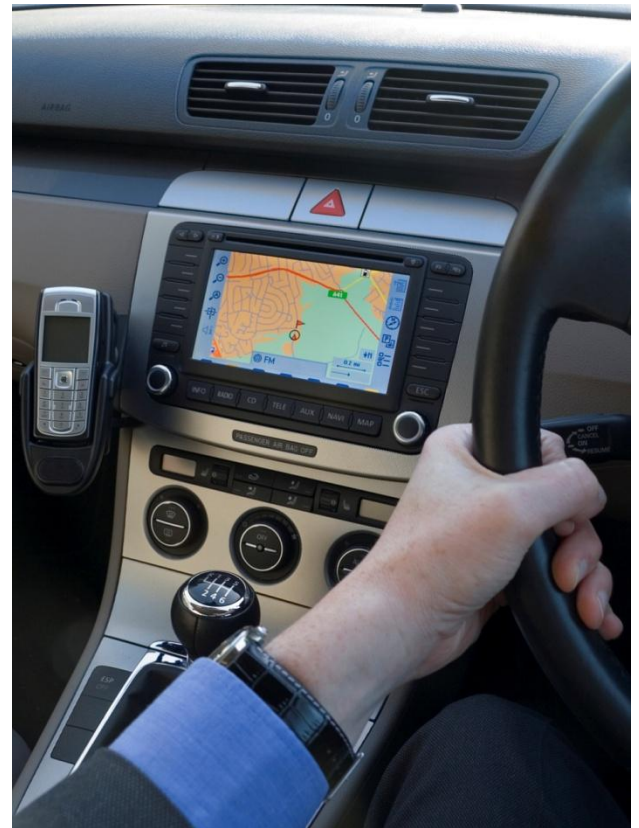
A screenshot of the transport direct.info website. The header features the logo and the tagline "Connecting People to Places". Below the header is a navigation menu with options like "Homepage", "Plan a journey", "Find a place", "Live travel", "Tips and tools", and "Login / Register". The main content area is divided into several sections: "Plan a journey" with sub-options for train, flight, car route, and coach; "Live travel news" with a list of road closures and accidents; "Find a Car Park" with a search function; "Tips and tools" including CO2 emissions, website integration, and mobile alerts; and "Free tools" for website integration. A "Latest..." section contains warning icons and messages about bus pass schemes and Christmas period information.



A screenshot of the Traffic Cymru website. The page displays a map of Cardiff and surrounding areas, including Newport, Avonmouth, and Bristol. The map shows various roads and traffic conditions. A search bar at the top right contains the text "Cymraeg". Below the map, there are sections for "Current Status", "Planned events", and "Travel Times". A video player shows a live view of a road, with options for "Typical view to the West" and "Typical view to the East".

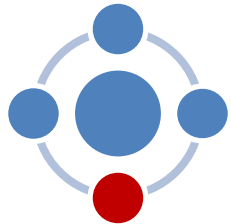
Vehicles

- Vehicle safety systems
- Intelligent vehicles
- Logistics



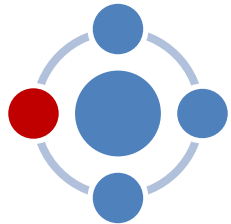
Physical network

- UTC
- Managed motorway
- Integrated traffic/network management
- Safety systems
- Road user charging

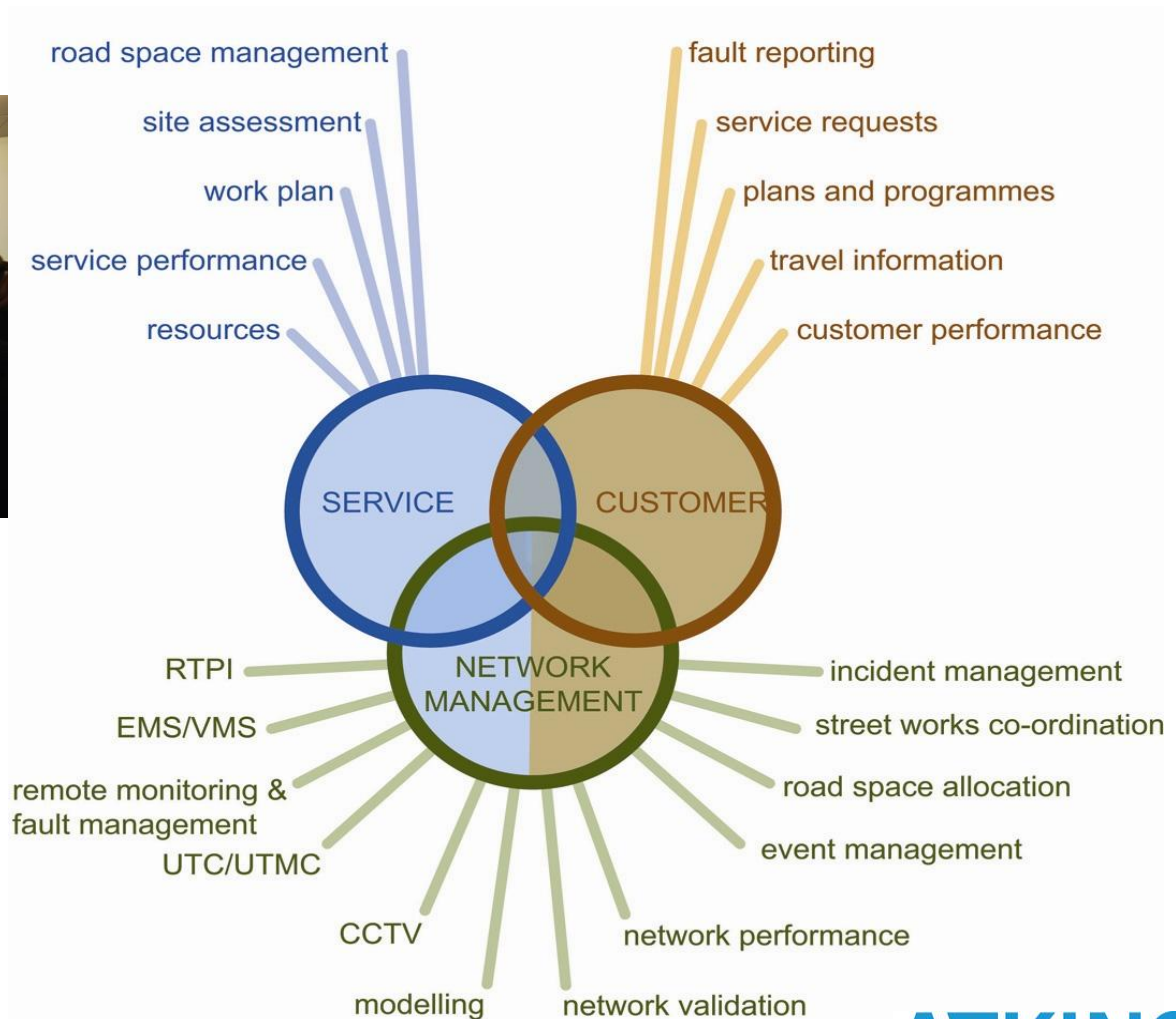
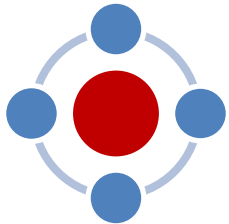


Parking, garaging, etc

- Parking guidance
- Electric vehicle charging



Managed performance



How much can technology help?

Maybe (simplistic):

- Travel demand 10% reduction?
- Capacity 5-30% increase?
- Incident disruption 25% reduction?
- Accidents 25% reduction?
- Customer satisfaction x% increase?

Final comment

- In practice gains will be location-specific
- Work ongoing to better estimate benefits
- Much can be provided by the private sector

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