

**POLIS**  
CITIES AND REGIONS FOR TRANSPORT INNOVATION

ANNUAL  
CONFERENCE  
**2022**

30 November  
1 December, 2022  
Brussels, Belgium



#POLIS2022

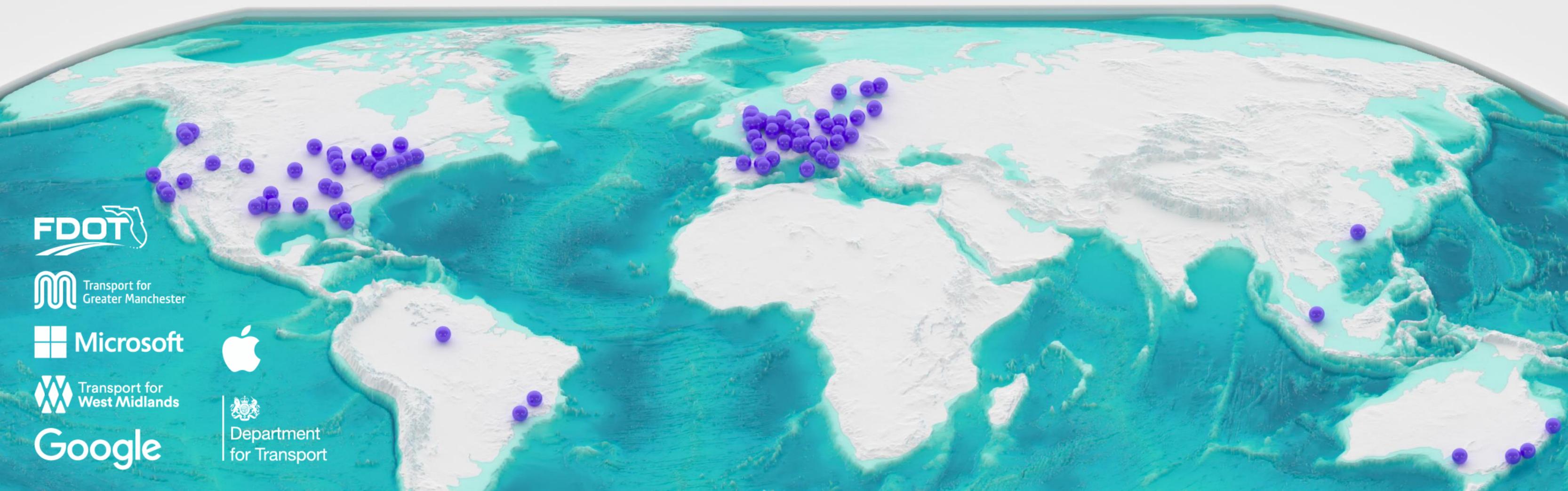
# UK Department for Transport Bus Open Data Service: Transforming access to public transport information & data-driven governance

4F: UNLOCKING THE VALUE OF DATA

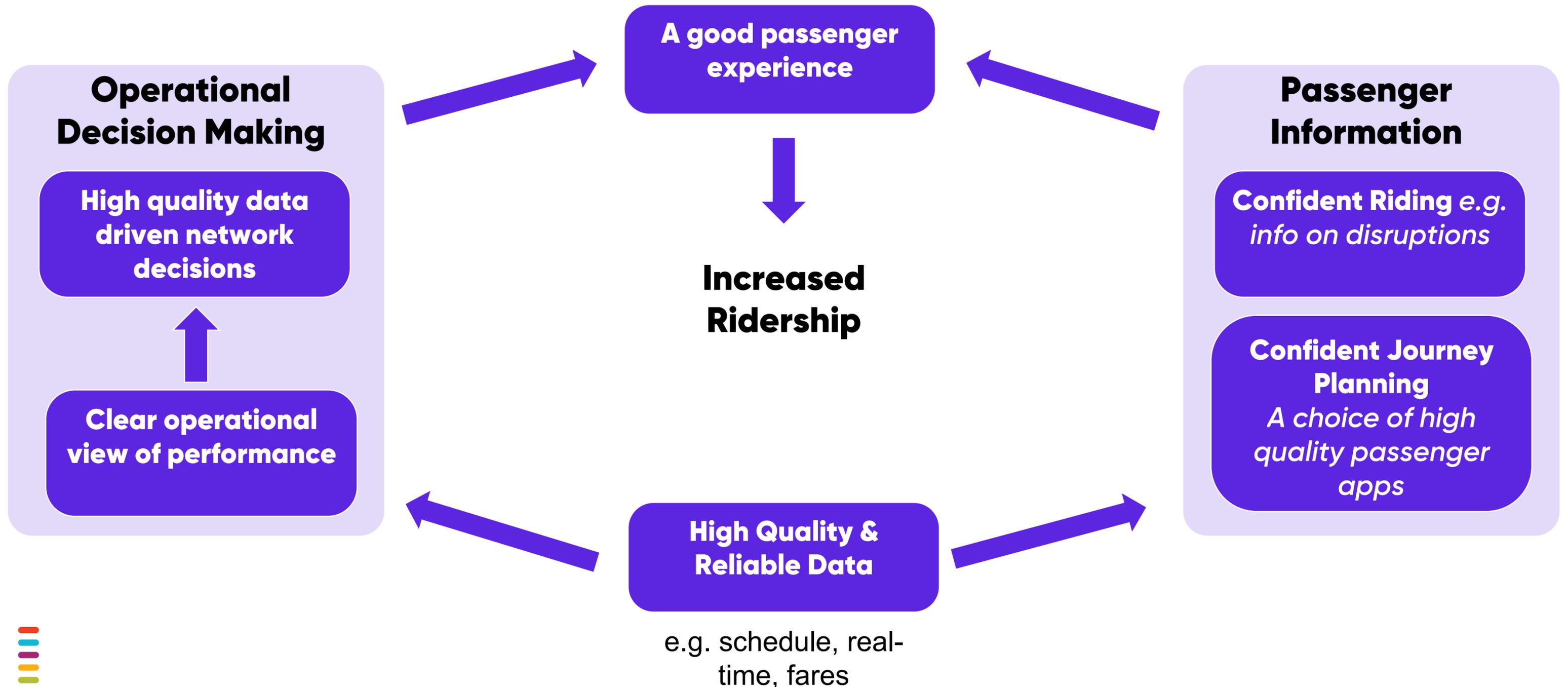
*Mike Jacklin, Partnership Director, Ito World*

# Ito World are experts in passenger information and operational insights

We solve transportation challenges across the world by delivering real-time transit data feeds for journey planners and a platform including tools & analytics for transit authorities & operators.



# Improving ridership via data

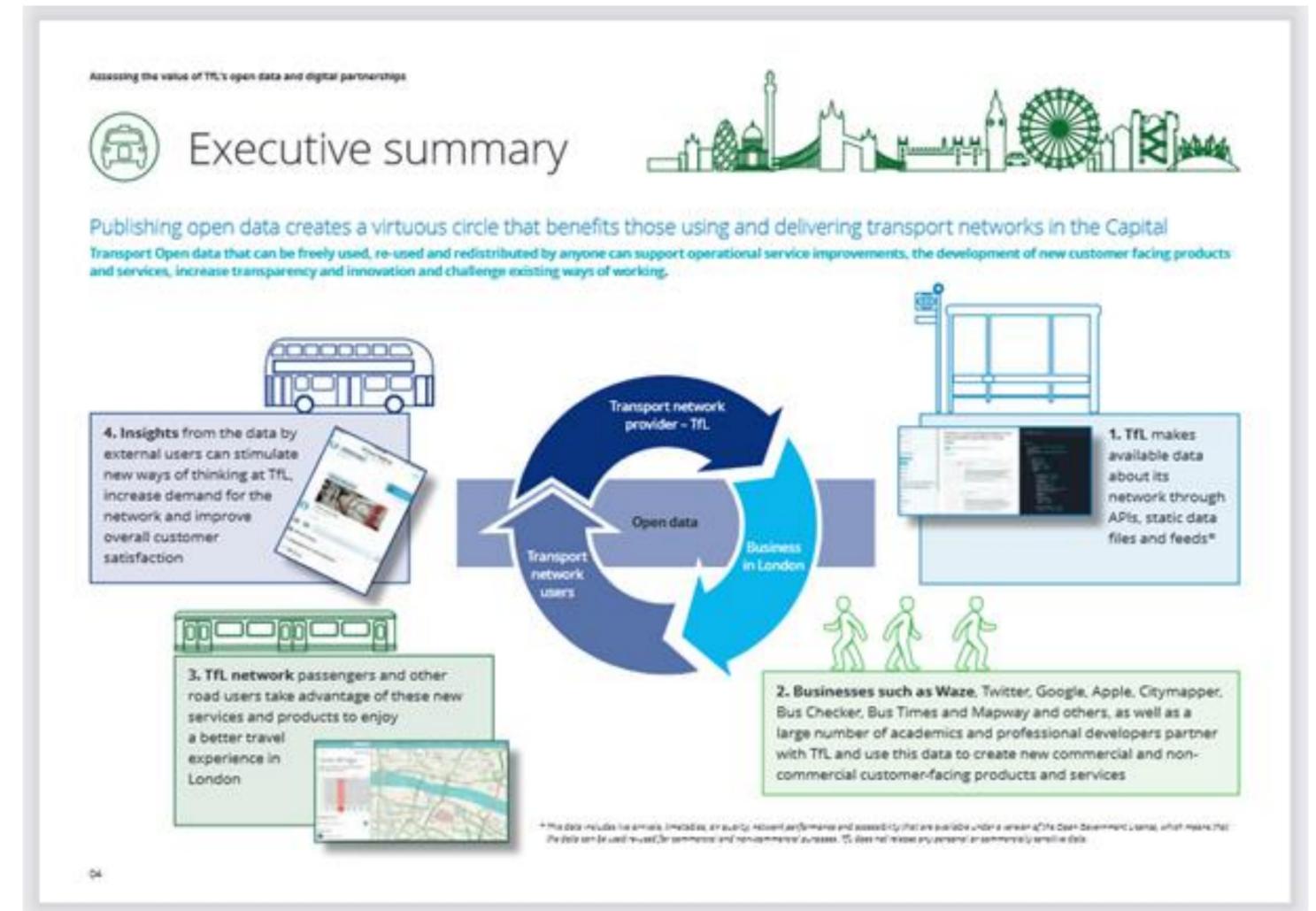


# The power of Open data?

At a city level....

## Transport for London success story\*

- Est. £130m p.a. in economic benefit to London



\*Deloitte report 2017



# Open data at a National level?

UK Department for Transport Bus Open Data Service (BODS)

## Meera Nayyar

Head of Open Data, Travel and Environmental Statistics,  
Local Transport, UK Department for Transport



# Case study in country-level open data



Department  
for Transport

## Bus Open Data Service (BODS)

- Makes national schedule, real-time and fares data openly available
- ~250 operators and ~26,000 vehicles in scope
- Digitally transformative to the government and the wider industry
- 2021 the first full year of adoption
- ~85% of vehicle's real-time data now regularly available
- Fully aggregated approach – rather than a simple 'index'

*"The Bus Open Data Service will digitally transform bus services – high quality open data will help passengers plan journeys, find best value tickets and get real time service updates whatever part of England they are in"*



# Scale and motivations

## National Government Open Data Portal

### Bus Open Data Service (BODS)



**26,500**

live vehicle locations, updated every 5 seconds



**250+**

operators publishing timetable and fares data



**75**

data quality tests run on every data set



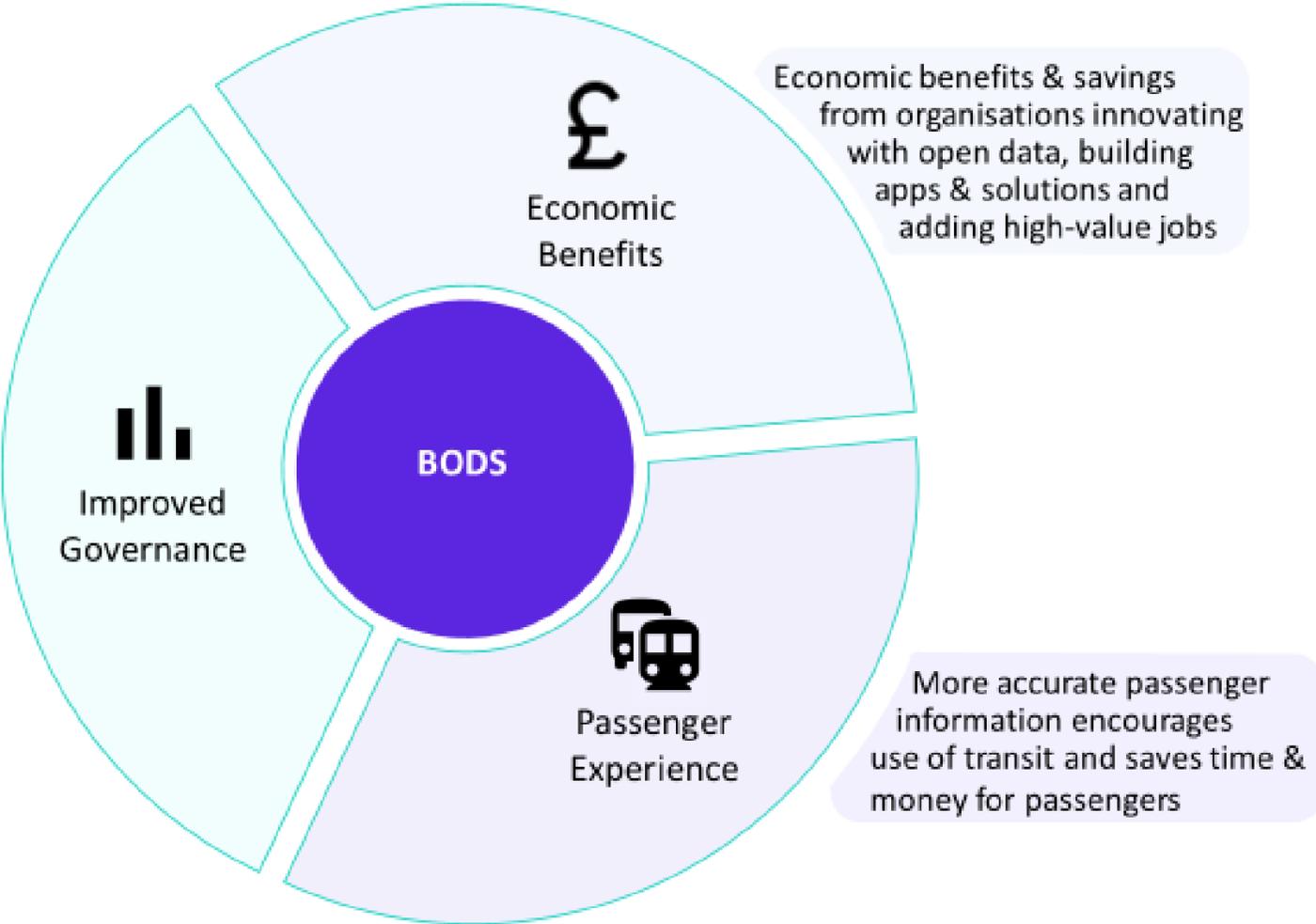
**1,000+**

data consumers including Citymapper, Swiftly, Moovit, Transit



**4,000,000+**

API hits per day



# Easing the route to insight

## Analyse Bus Open Data (ABOD)

Part of DfT's National Bus Strategy

Helps government, local authorities, and bus operators to:

- perform existing bus data analysis in faster and easier ways
- produce more accurate and detailed performance analysis reports
- improve on collaboration between different organisations
- identify network improvement opportunities
- inform transport policy and compliance monitoring across the industry



## Bus Back Better

### National Reporting and Analytical Service

Analyse Bus Open Data (ABOD)



**170,000,000**

recorded bus departures per month



**26,500**

live vehicle locations tracked continuously



**17 billion**

GPS coordinates archived in a secure, cloud-hosted data warehouse

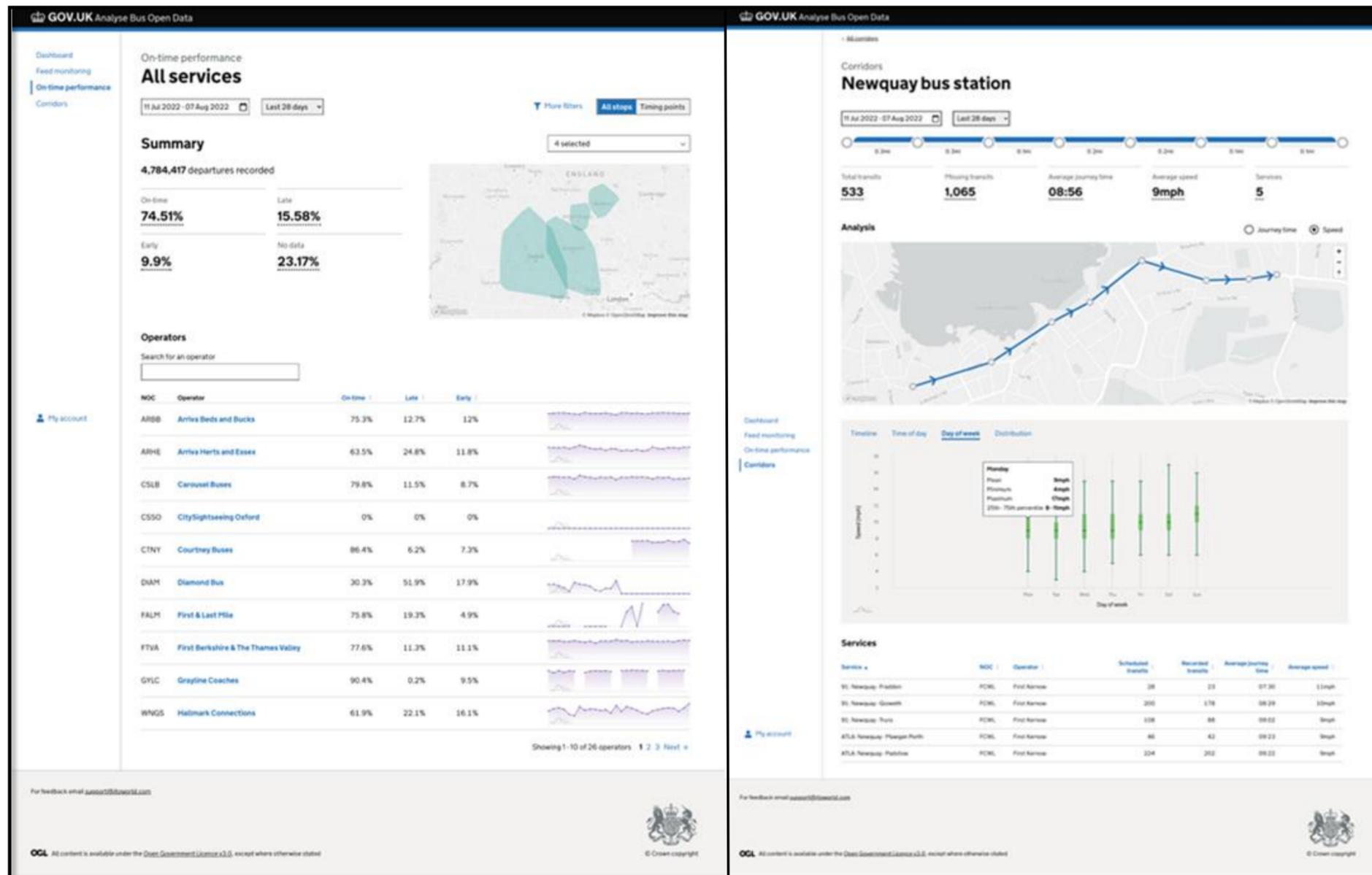


**230+**

local authorities and bus operators utilising the service nationally to track and improve performance

# ABOD Analytics: Local insight at national-scale

Digitally transforming how Local Authorities deliver data-driven national policy



- Free, quick and easy to use
  - Automated analytics
- Collaboration on new features
  - E.g. Pinchpoint analysis along corridors, excess wait time
- 91 Local Authorities, 141 operators registered
  - 674 users from 236 orgs

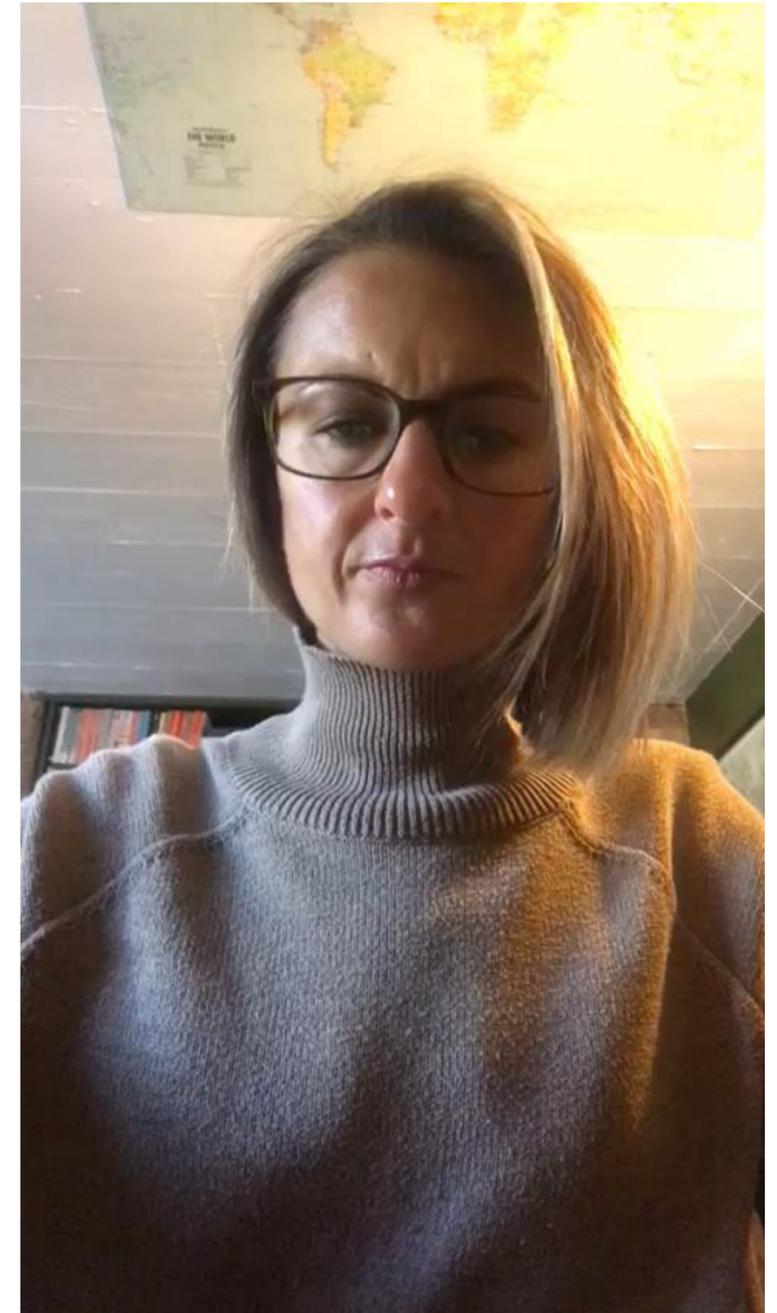


# UK DfT Learnings to date

- Understand your stakeholders – enable trust and collaboration
- Foster innovation from the start
- Consider the passenger experience AND operational/ governance use of the data

## Meera Nayyar

Head of Open Data, Travel and Environmental Statistics,  
Local Transport, UK Department for Transport



# Thank you for your attention!

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