Open Source in Transport Planning

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What (we think) industry needs (credit: Tom Van Vuren)

New ways of working

Low entry

Open Source Data

Open Source Tools

Machine Learning

Artificial Intelligence

Agent-based models

Old ways of working

Commercial tools

Barriers to entry

Hierarchy in expertise

Tried and tested

Prescriptive

Opportunity

Disruption

Creating community

New questions

Democratising models and data

Narrative, not numbers

Source: guest lecture by Tom on the Transport Data Science course

Integrating Data Science: CPD offerings

Previous short courses on data science in transport

| Event	Organisation	Location	Attendees	Date	Participants
Getting from A to B	ODI MCR	Online	60	May 2021	Public
PCT Advanced Training	DfT/Landor	Online	80	Nov 2020	Local government
sfnetworks hackathon	R-Consortium	Online	50	Sep 2020	Public
STATS19 road safety hackathon	DfT	London	5	Dec 2019	Central government
R for Road Safety Research	RACF	London	20	Oct 2019	Central/local government
R Spatial Data training	DfT	London	20	May 2019	Central government
Transport Data Science with R	LIDA	Leeds	30	Apr 2019	Public
Geocomputation with R	LIDA	Leeds	30	Apr 2019	Public
R and transport data with R	HE/RACF	Leeds	20	Nov 2018	NGO
Spatial data analysis workshop	RSS	Cardiff	10	Sep 2018	Government/NGO

Example of data skills building courses delivered through ITS for a range of stakeholders.

Question for board: should we revive data science CPD courses?

Data Science for Impact
Why are we doing data science?

Propensity to Cycle Tool has "revolutionised strategic cycle planning" and is "used by >35,000 transport planners, consultants, advocates and members of the public". Source: REF.
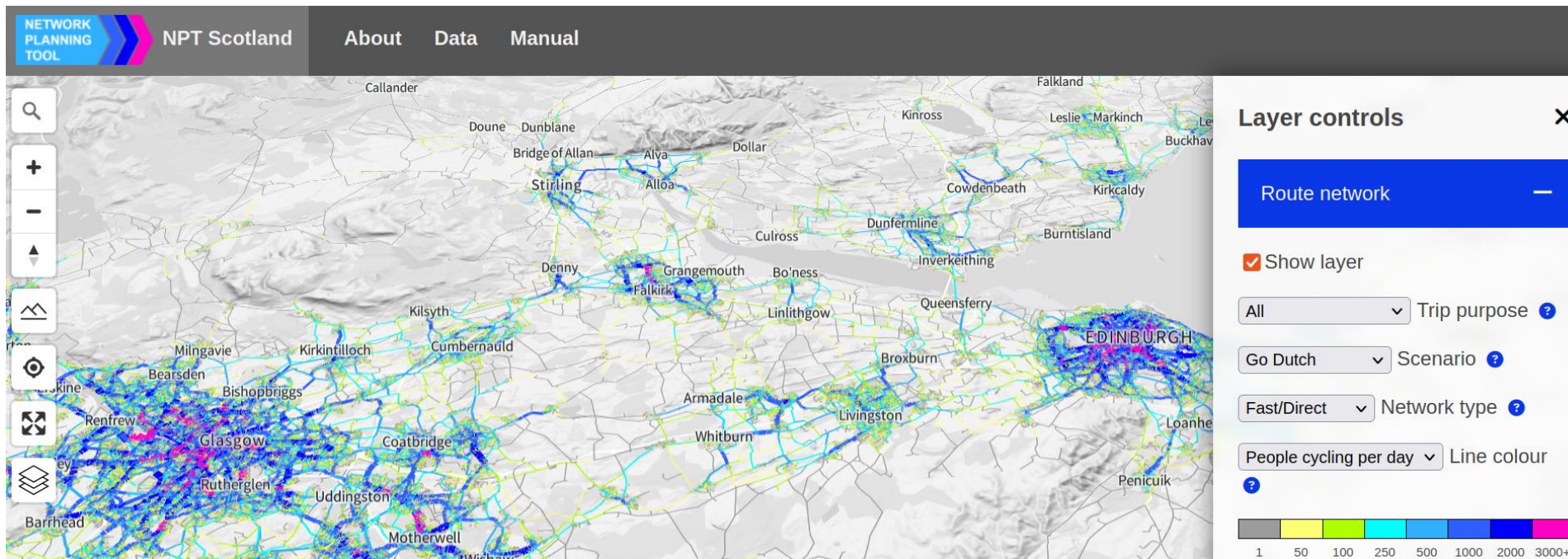
Demo of next generation strategic network planning tool funded by Transport Scotland. Source: www.npt.scot + live demo if time allows.

Question for board: What should we build next with these data science skills?