

### Director's Message from Prof John Nelson

Welcome to our Autumn Newsletter. In this issue we highlight our contribution to the emerging concept of Mobility as a Service (MaaS), acknowledge the achievements of CTR staff, including new research awards, and welcome new PhD students. We were delighted by the award of the Horizon 2020 Mobility for Growth INCLUSION project (€383,653 to CTR) which is allowing us to develop new partnerships with stakeholders across Europe and closer to home in the Highlands.

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*Transport Research*



### Moving forward with MaaS: exploring opportunities in the MaaS market



CTR staff organised the Intelligent Mobility Scotland workshop in partnership with the Transport Systems Catapult (Glasgow, 29th August 2017). The audience of researchers and practitioners engaged in active debate on future priorities for MaaS. Guest speakers George Hazel (MaaS Scotland) and Charles Carter (TSC) led

the discussion, which was facilitated by John Nelson (CTR). Discussion centred around concepts of behaviour change, issues of technological security and emerging business opportunities in the MaaS market.

CTR are Founder members of MaaS Scotland, which formally launched at an event held at Dynamic Earth, Edinburgh in September. MaaS Scotland brings together more than 50 partner organisations and is developing projects to demonstrate the commercial, environmental and social advantages of MaaS and profile Scotland as a global leader in MaaS.



A partnership between  
Technology Scotland  
and ScotlandIS

In a current MaaS project John Nelson and Steve Wright are collaborating with CTR Hon. Chair Corinne Mulley (University of Sydney) on "Mobility as a Service: a future direction for Community Transport?". Papers were presented at World Symposium on Transport and Land Use Research (Brisbane, July 2017) and the 15th Thredbo Conference (Stockholm, August 2017). We are currently recruiting for a studentship on Rural MaaS (see advert below) which is co-funded by the Energy Technology and HITRANS (the Regional Transport Partnership for the Highlands and Islands). HITRANS are also a partner in the INCLUSION project which will develop new tools and business models for public transport, including MaaS in prioritised areas (including the Cairngorms National Park).

### Funded PhD studentship opportunity: Rural Mobility as a Service

This project will examine the requirements for delivering MaaS as part of a low carbon transport strategy in a rural setting. The successful candidate will work with relevant stakeholder groups (including transport providers and authorities) to identify a variety of MaaS use cases for both passenger and freight in the context of a suitable case study to be identified jointly with industry partner HITRANS. The study will include the evaluation of likely emissions reduction under a variety of MaaS scenarios (including electric vehicle uptake), and will explore the business case for "Rural MaaS".

Closing date: 15th January 2018.

To apply, please visit: <https://www.findaphd.com/search/ProjectDetails.aspx?PJID=89461>

## New CAV-Online Programme Initiative

CTR staff are contributing to a Transport Systems Catapult initiative to develop an Online Masters level programme in Connected and Autonomous Vehicles. A wide variety of potential topics have been identified including CAV Landscape, Computer vision and AI, Cybersecurity (integrity), Connectivity, Human factors, System design and integration and Path planning.

For further information please contact Dr Richard Mounce: [r.mounce@abdn.ac.uk](mailto:r.mounce@abdn.ac.uk)



## Staff News

- Congratulations to **Dr Caitlin Cottrill** on her promotion to Senior Lecturer (July 2017)
- **Dr Mark Beecroft** has been appointed by the Government Office Science to complete a rapid evidence review of security and the future of mobility in the UK transport system
- **Prof John Nelson** was an invited speaker at the MaaS track at the Intelligent Transport conference, London (31st October)
- **Prof John Nelson** and **Dr Steve Wright** have guest edited a Special Section on Highlights from the ITS European Congress in Glasgow for IET Intelligent Transport Systems
- **Dr Caitlin Cottrill**, **Prof John Nelson**, **Dr Mark Beecroft**, and **Dr Martin Kollingbaum** have received a University Impact Knowledge Exchange and Commercialisation (IKEC) Award to facilitate engagement activities aligned with ongoing CTR work in intelligent mobility
- **Dr Caitlin Cottrill** was an invited speaker at the recent KTH-Stockholm workshop on “Bringing new types of data closer into practice in transport planning and modelling” (September 2017)

## PhD News

- **Nathan Darroch** presented a lecture at the Federal University of Santa Catarina alongside his participation in a British Council, Newton Fund rail workshop in Joinville, Brazil (31 July - 4 August, 2017)
- Congratulations to **Kathryn Logan** who has been awarded an Internship at First Aberdeen to investigate the student night-time economy (October)
- **Nitin Kadim** will present his first conference paper at the 50th Annual UTSG Conference to be held at UCL in January 2018 (“An investigation of user preferences and acceptability of autonomous transportation systems”)
- Welcome to **Fatih Boz** (Exploring the benefits of one-way car sharing) and **Alexios Kaselouris** (Developing a better understanding of active travel behaviours and interactions with the built environment) who have joined CTR as PhD students

## Sample of Latest Publications

Corsar, D, Cottrill, C, Beecroft, M, Nelson, J D, Papangelis, K, Edwards, P, Velaga, N and Sripada, S (2017) Build an app and they will come? Lessons learnt from trialling the GetThereBus app in rural communities. *IET Intelligent Transport Systems*. *In Press* .

Mounce, R, Wright, S, Emele, C D, Zeng, C and Nelson, J D (2017) Flexible integrated transport services with constraint relaxation to increase efficiency in rural transport service provision. *Journal of Intelligent Transportation Systems*. *In Press* .

Nelson, J D (2018) Perfect information and ITS. Chapter for Ison, S and Cowie, J (Eds) *The Routledge Handbook of Transport Economics*. Routledge, 62-73.

Nelson, J D, Wright, S (2017) Guest Editorial. Special Section: Highlights from the ITS European Congress in Glasgow (2016). *IET Intelligent Transport Systems*, 11, 7, 359.

Niewiadomski, P. (2017) Global production networks in the passenger aviation industry. *Geoforum*. *In Press* .