

Parcelhack 2019 - 'Hacking the last-mile'

Objective

This hackathon sets out to develop new ways of interpreting the impacts of last-mile 'business-to-business' and 'business-to-consumer' parcel deliveries in London and determine ways in which the negative externalities caused could be mitigated. This event is co-hosted by [CitySprint](#), the EPSRC funded [FTC2050](#), [Transport for London \(TfL\)](#) and [Geovation](#). This hackathon has been conceived through the work of the EPSRC funded Freight traffic Control 2050 project (www.ftc2050.com) and its recent work with CitySprint looking into how last-mile parcel delivery can be made more sustainable.

Background

The UK parcel sector generated almost £9 billion in revenue in 2015, with growth expected to increase by 15.6% to 2019 and is characterised by many independent players competing in an 'everyone-delivers-everywhere' culture leading to much replication of vehicle activity. With road space in urban centres being increasingly reallocated to pavement widening, bus and cycle lanes, there is growing interest in what impacts our switch in retail behaviour to on-line e-commerce is having on-street and what solutions there are to help solve the last-mile delivery problem.

Hack Themes

The hackathon will tackle two themes:

1) The impacts of last-mile parcel operations on the environment, energy and fuel consumption

- Mapping pollution and strategies for reducing it
- Respecting Pedestrians and other road users in delivery areas
- The scope for using shared use facilities to ease kerbside congestion (e.g. shared public transport/freight drop-off points; communal locker boxes.)
- Reducing energy/fuel used per parcel
- Rethinking stem mileage and the benefits of using dropoff points
- Rethinking vehicle and infrastructure choices to serve the last-mile

2) The impacts of last-mile parcel operations on congestion, infrastructure and land use

- Reducing the numbers of vehicles needed for last-mile through collaborative working
- Minimising kerbside dwell time and optimizing dropoff locations
- Maximizing vehicle capacity
- The impact of personal deliveries to workplaces
- Understanding how vehicle arrivals vary by land use
- Mapping Deliveries/Collections by postcode
- Extrapolating parcel demand across land use

More information on the themes and data that will be made available by CitySprint can be found here: <https://go.citysprint.co.uk/parcelhack-2019-0?hsCta>



Key Dates

- **Friday 25th January 2019:** The deadline for website registrations to join the Hackathon
- **Thursday 7th February 2019:**
 - Kick-off networking at Geovation HQ, Central London
 - Hear from industry experts about the challenges facing us in sustainable transport and logistics.
 - Attendees will also have the opportunity to meet other team members if you're on the hunt for a group to work with.
 - Food and drink will be provided.
 - At this event you will be given access to the CitySprint datasets.
- **Friday 1st - Saturday 2nd March 2019:**
 - Main hackathon event at Geovation HQ, Central London
 - At this event you will be able to spend time with our experts fine tuning your pitch.
 - Each group will pitch to win on Saturday 2nd March.
 - The winners will be announced live at the end of the event. Food and drink will be provided.

Prizes

- 1st prize: £2,000 for your team to share, and the chance to make your idea a reality with CitySprint's think-tank
- 2nd prize: £1,000 for your team to share
- 3rd prize: An organic food hamper for each team member

Registration

To register, please head to: <https://go.citysprint.co.uk/parcelhack-2019>

Contact

Please address any queries to: parcelhack@citysprint.co.uk