

Principles of Commissioning Data Collection



Overview

Vehicular traffic and people movement data are essential inputs to any traffic and transportation project ranging from highways infrastructure, public transport links and hubs, large events and venues, freight traffic, private cars, cyclists and pedestrians.

This course provides an overview of the techniques available as well as looking at established and emerging innovative methods of data collection. With the new General Data Protection Regulation (GDPR) in force, the course looks at the impacts this has on transport data collection, as well as focusing on the key elements of a project specification required to collect a robust and reliable dataset.

Learning outcomes

On completion of the course, delegates will:

- Have an understanding of the range of survey techniques and methods available
- Be aware of new developments and technologies in traffic data collection
- Understand the impacts of GDPR and the importance of compliance
- Be able to specify a robust transport survey brief, assess proposals and evaluate data

Who should attend

The course is suitable for those who have recently started working in transport and traffic planning and those responsible for the management or commissioning of data collection projects, as well as those who are looking for a broad overview of survey techniques and issues. It is best suited to those working for Local Authorities or Consultancies

Topics Covered

- Vehicle Flows
- Vehicle Speeds
- Manual Classified Counts
- Parking Demand
- Journey Travel Times
- Saturation Flows
- Public Transport Usage
- Active Travel
- Origin-Destination Surveys
- Big Data Sources
- Vision Based Analytics
- General Data Protection Regulation
- Building a thorough and robust specification

Illustrated throughout by case studies and group work

Welcome

Introductions

Icebreaker

Background

- A brief history of the development of survey techniques, new and future technologies and the impacts of GDPR
- How a well-considered and thorough specification is key to a successful transport survey and a robust dataset

Overview of Techniques

- Vehicle flow and speed surveys
- Pneumatic tube
- Radar

Manual classified counts

- Link counts
- Junction counts

Parking, journey time, queue length and saturation flow surveys

Public Transport surveys

Break

Overview of Technique

- Active Travel monitoring
- Pedestrians
- Cyclists

Origin-Destination surveys

- Digital ANPR

Big data sources

- Mobile phone network data
- Vision Based Analytics
- Smart Sensors

GDPR overview

- What is GDPR?
- What does it mean for Local Authorities/ Consultants?

Lunch

How does GDPR impact data collection?

- Digital images
- Bluetooth
- Manual surveys
- Aggregation of data

What should the approach to data collection and GDPR be?

- ICO registration/ GDPR compliant
- Internal training
- PIA's/ DPIA's
- Data Ownership

Break

Building a thorough and robust specification

- Requirements
- Considerations
- Report

Budget

Poor specifications

- Example and discussion

Group Exercise

Q&A

Close

* Please note that this is a preliminary programme and is subject to change

