

# JTRC Working Group on Big Data and Open Data

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## Background

- National Statistical Offices and other public data providers are facing a number of challenges:
  - rising budgetary pressure to meet information needs
  - need to minimise reporting burdens
  - declining response rates from traditional approaches (e.g. surveys)
  - strong demand from data users for more timely information.
- Amount and diversity of data generated from the digitalisation of transport and public services
- Ubiquitous use of smartphones and mobile devices and the rise of social media
- Potential for a paradigm shift in how, and for what purpose, these data could be used

# Introduction

- Big and open data seen as solution to fill data gaps and to provide detailed information more efficiently and timely.
- This working group is intended to assist member countries in leveraging and curating big data and open data by exploring:
  - I. partnership framework for data sharing between private and public sectors
  - II. statistical framework where national statistical offices could increase their uses of multiple data sources, including not only data from probability sample surveys, but also government administrative records, commercial/ private datasets, and Internet-based datasets (a case study focusing on freight system performance will be used to explore the frameworks)

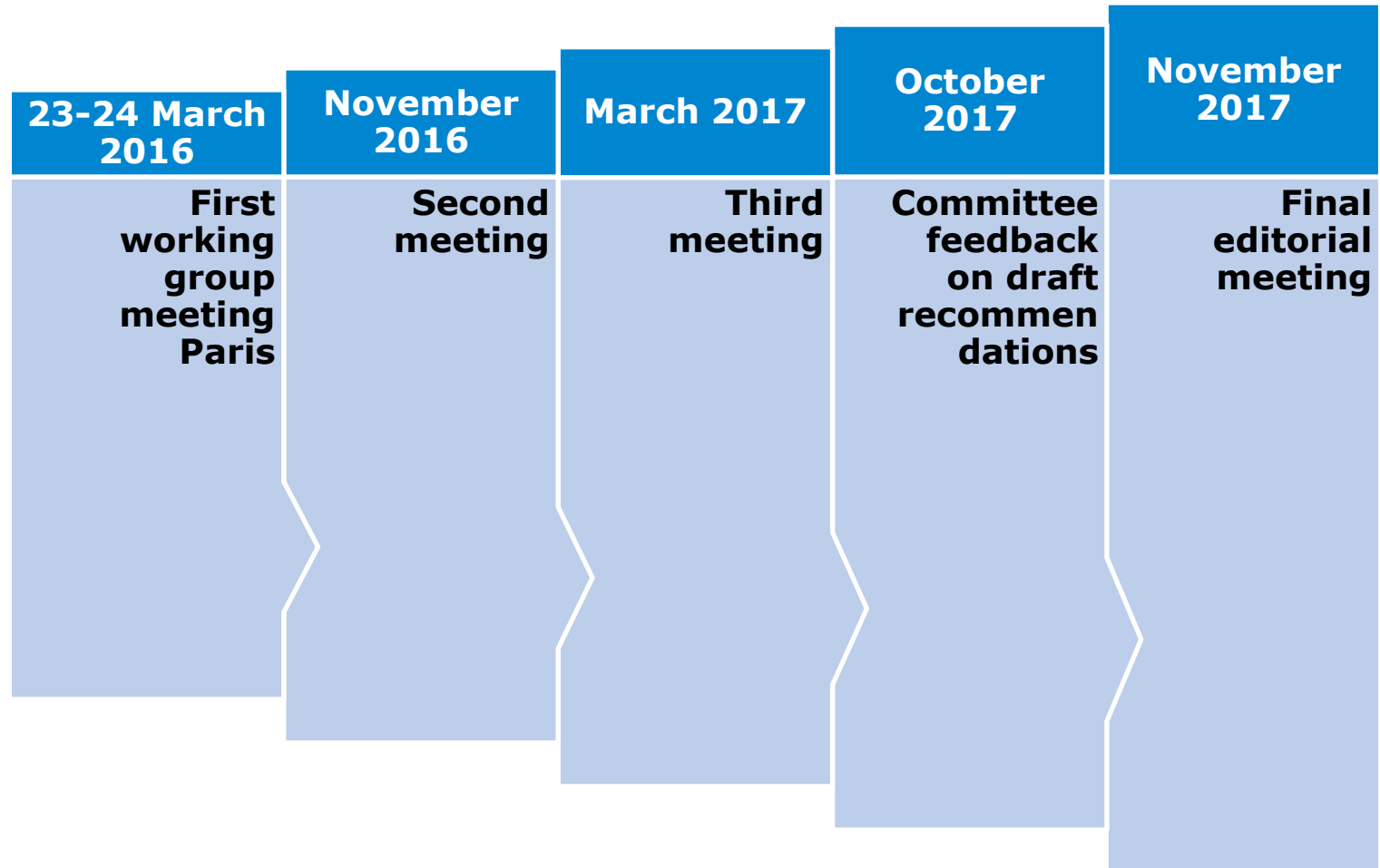
## **Objectives**

1. Provide guidelines to assist member countries in establishing partnerships between the private and public sector for data sharing
2. Describe and consider topics related to data governance, data curation, cybersecurity, confidentiality protection
3. Assist member countries in developing methodology to leverage big data and open data with appropriate level of statistical vigor
4. Develop research needs statements on methodological issues that arise when combining data from multiple sources, i.e., survey data, administrative records, and big data

# Tasks

1. Explore data-sharing framework
  - 1.1. Identify challenges and opportunities
  - 1.2. Review the state of the practices in data sharing
  - 1.3. Review potential data sources
  - 1.4. Draft a framework that will maximise the benefits
  - 1.5. Examine framework feasibility
2. Explore statistical framework
  - 2.1 Identify and consider operational and methodological issues
    - 2.1.1 Quality assessment of data from non-traditional sources
    - 2.1.2 Calibration of survey data when combined
  - 2.2 Review state of the practices in leveraging/mining big data.
  - 2.3 Develop freight system performance measures
  - 2.4 Examine framework feasibility, focusing on freight systems
3. Draft research needs statements

# Schedule



## **Contact Information**

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