



# 4<sup>th</sup> ITF TRANSPORT STATISTICS MEETING 14-15th March 2017

# Eurostat Big Data

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**Eurostat Task Force Big Data**

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# Eurostat Task Force on Big Data

- Explore the potential of big data for producing European Statistics and informing EU policies
- In practice by developing internal analytic capabilities and data science skills in the framework of the ESS
- Part of the tasks concern coordination and implementation of an ambitious [ESS Big Data Action Plan and Roadmap](#) in collaboration with our partner NSIs including pilot projects and studies addressing key issues

# ESSnet Big Data

A project within the  
European statistical  
system (ESS) jointly  
undertaken by 22 partners

- WP1 Webscraping job vacancies
- WP2 Webscraping enterprise characteristics
- WP3 Smart meters
- **WP4 AIS data**
- WP5 Mobile phone data
- WP6 Early estimates
- WP7 Multiple domains
- WP8 Methodology

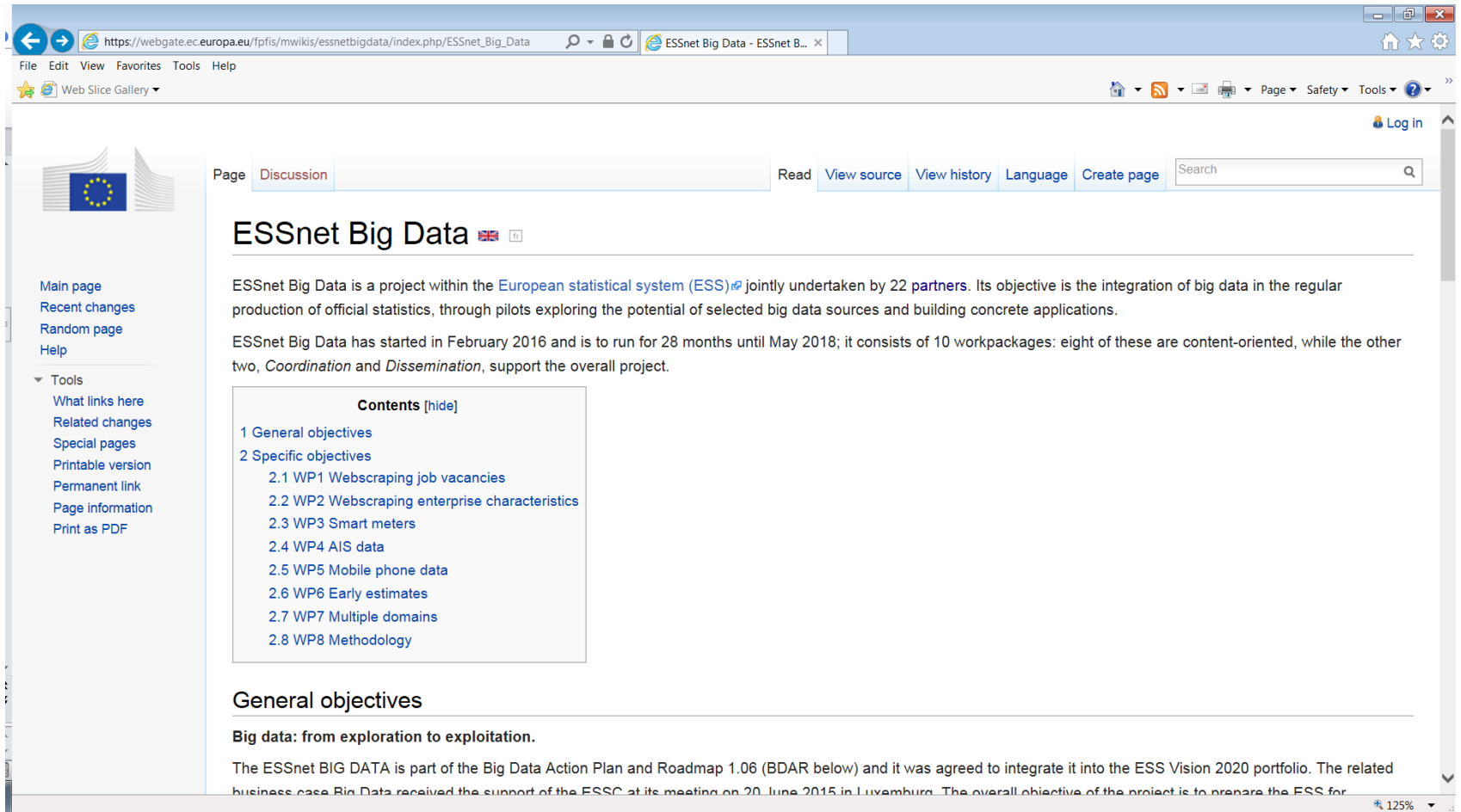
## WP4 AIS data

The workpackage AIS data aims to investigate whether **real-time measurement data of ship positions**, measured by the so-called AIS (Automatic Identification System), can be used for producing official statistics





[https://webgate.ec.europa.eu/fpfis/mwikis/essnetbigdata/index.php/ESSnet\\_Big\\_Data](https://webgate.ec.europa.eu/fpfis/mwikis/essnetbigdata/index.php/ESSnet_Big_Data)



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## ESSnet Big Data 🇬🇧 🇮🇹

ESSnet Big Data is a project within the [European statistical system \(ESS\)](#) jointly undertaken by 22 [partners](#). Its objective is the integration of big data in the regular production of official statistics, through pilots exploring the potential of selected big data sources and building concrete applications.

ESSnet Big Data has started in February 2016 and is to run for 28 months until May 2018; it consists of 10 workpackages: eight of these are content-oriented, while the other two, *Coordination* and *Dissemination*, support the overall project.

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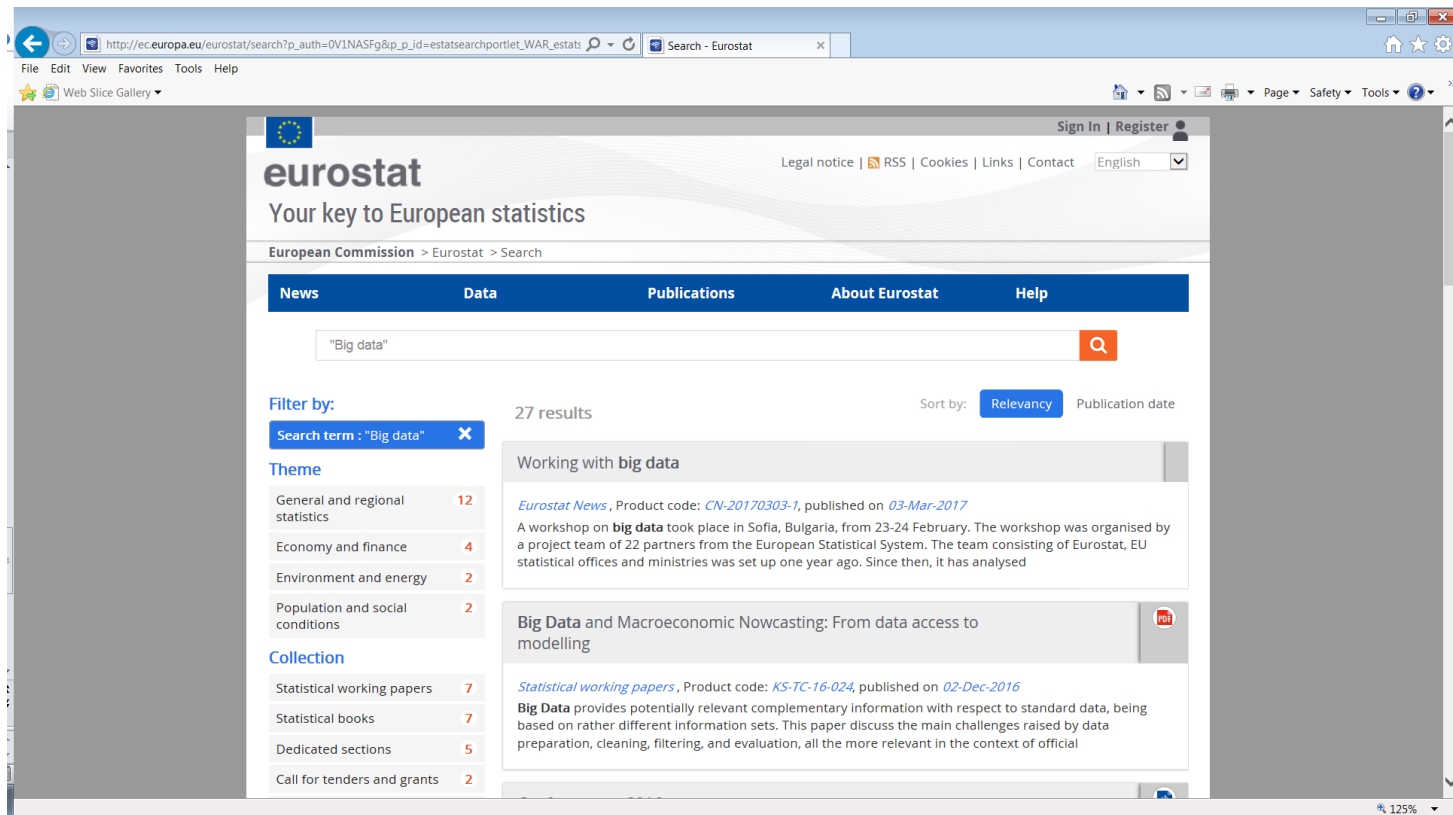
### General objectives

**Big data: from exploration to exploitation.**

The ESSnet BIG DATA is part of the Big Data Action Plan and Roadmap 1.06 (BDAR below) and it was agreed to integrate it into the ESS Vision 2020 portfolio. The related business case Big Data received the support of the ESSC at its meeting on 20 June 2015 in Luxembourg. The overall objective of the project is to prepare the ESS for



[http://ec.europa.eu/eurostat/search?p\\_auth=0V1NASFg&p\\_p\\_id=estatsearchportlet\\_WAR\\_estatsearchportlet&p\\_p\\_lifecycle=1&p\\_p\\_state=maximized&p\\_p\\_mode=view&estatsearchportlet\\_WAR\\_estatsearchportlet\\_action=search&txt=%22Big+data%22](http://ec.europa.eu/eurostat/search?p_auth=0V1NASFg&p_p_id=estatsearchportlet_WAR_estatsearchportlet&p_p_lifecycle=1&p_p_state=maximized&p_p_mode=view&estatsearchportlet_WAR_estatsearchportlet_action=search&txt=%22Big+data%22)



The screenshot shows the Eurostat website search results for the query "Big data". The page features a navigation menu with "News", "Data", "Publications", "About Eurostat", and "Help". The search results are filtered by "Theme" and "Collection".

Theme	Count
General and regional statistics	12
Economy and finance	4
Environment and energy	2
Population and social conditions	2

Collection	Count
Statistical working papers	7
Statistical books	7
Dedicated sections	5
Call for tenders and grants	2

27 results found. Sort by: Relevancy (selected), Publication date.

**Working with big data**  
*Eurostat News*, Product code: *CN-20170303-1*, published on *03-Mar-2017*  
 A workshop on **big data** took place in Sofia, Bulgaria, from 23-24 February. The workshop was organised by a project team of 22 partners from the European Statistical System. The team consisting of Eurostat, EU statistical offices and ministries was set up one year ago. Since then, it has analysed

**Big Data and Macroeconomic Nowcasting: From data access to modelling**  
*Statistical working papers*, Product code: *KS-TC-16-024*, published on *02-Dec-2016*  
**Big Data** provides potentially relevant complementary information with respect to standard data, being based on rather different information sets. This paper discuss the main challenges raised by data preparation, cleaning, filtering, and evaluation, all the more relevant in the context of official

# Questions or remarks?

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