



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



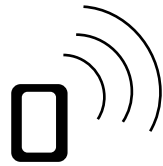


Enhancing Official Statistics with New Data Sources – Methodological Developments for Integrating Mobile Network Operator (MNO) Data with non-MNO Data

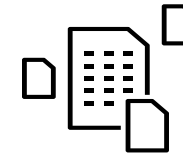
Presenter: Gloria Deetjen (Destatis) | Gloria.Deetjen@destatis.de
ESSnet MNO-MINDS | tss-meth-too@istat.it



Background Information



- » MNO data
 - » Today: Valuable results from experimental statistics
 - » Future: Usage in regular statistics aspired



- » Non-MNO data
 - » MNO data provide more insights when combined with further data sources
 - » Traditional as well as further new digital data sources





EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL



The conference is partly
financed by the European Union

MNO-MINDS: Methods for Integrating New Data Sources

The project consortium consists of ten national statistical institutes (NSIs), with ISTAT as the coordinating NSI. The ESSnet project started in November 2023 and lasts for a duration of two years.



Statistisk sentralbyrå
Statistics Norway



Instituto Nacional de Estadística



November
2023



November
2025

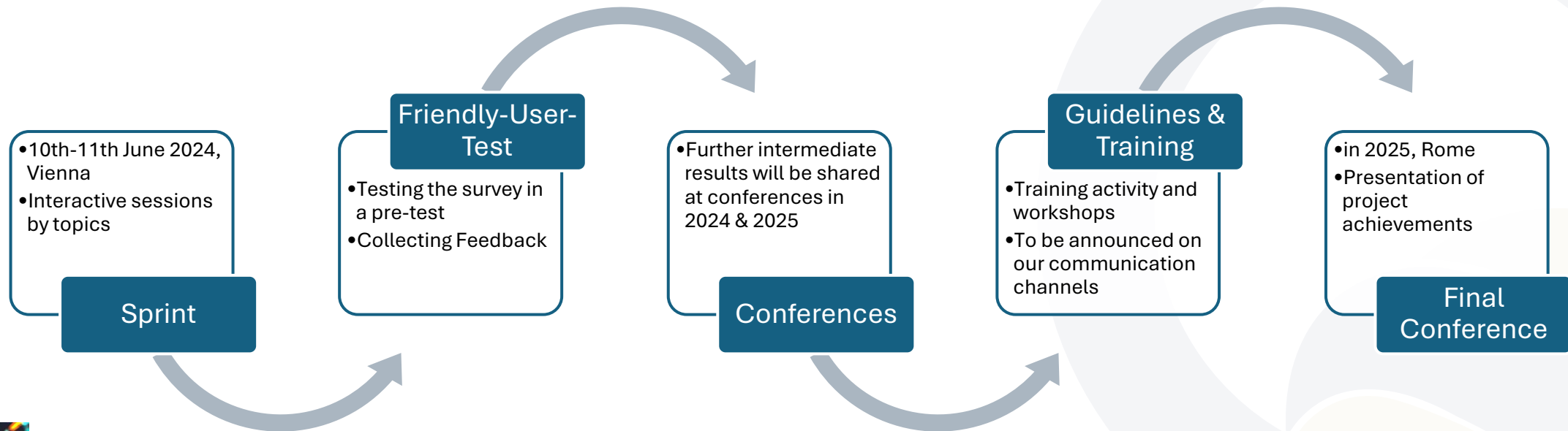


Co-funded by
the European Union



MNO-MINDS: Methods for Integrating New Data Sources

Throughout the two years, there are several milestones, events, and activities foreseen to gain feedback from relevant stakeholders (e.g. Task Force MNO, academia, ESSnet Members, research organisations, MNOs, ...), and to share findings:





WP1: Communication and dissemination

- Communication and dissemination as a key element for quality improvements
- Communication Channels:

- LinkedIn @MNO-MINDS ESSnet Project



- X @TssMethToo_Pj

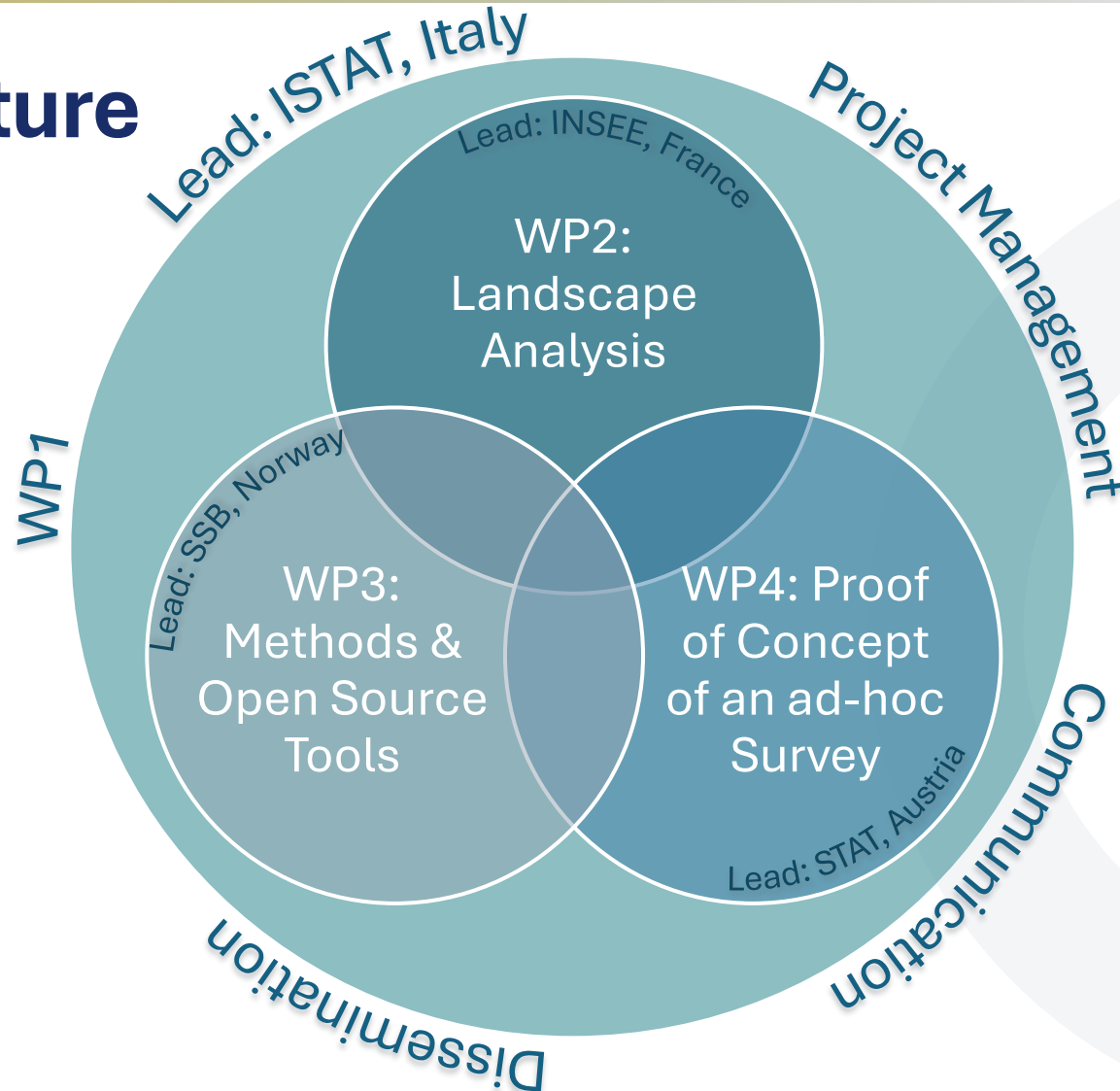


- Websites: [CROS Portal](#) and [Project Page by Istat](#)





Project Structure

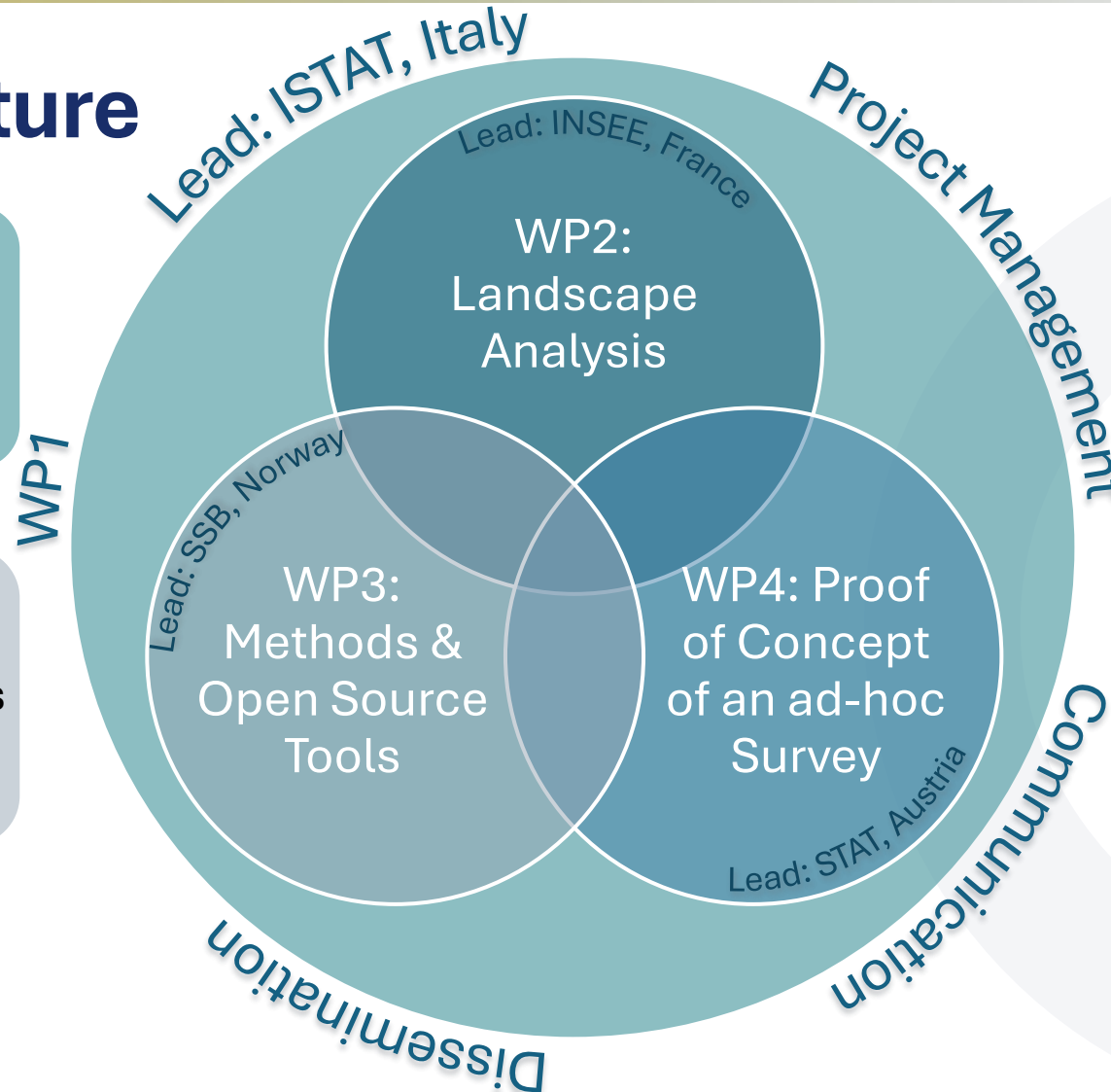




Project Structure

- Work Package 1:
- Project Management, Communication, and Dissemination

- Work Package 3:
- Enabler & Executer
- Three approaches for various scenarios
- Open Source Tools



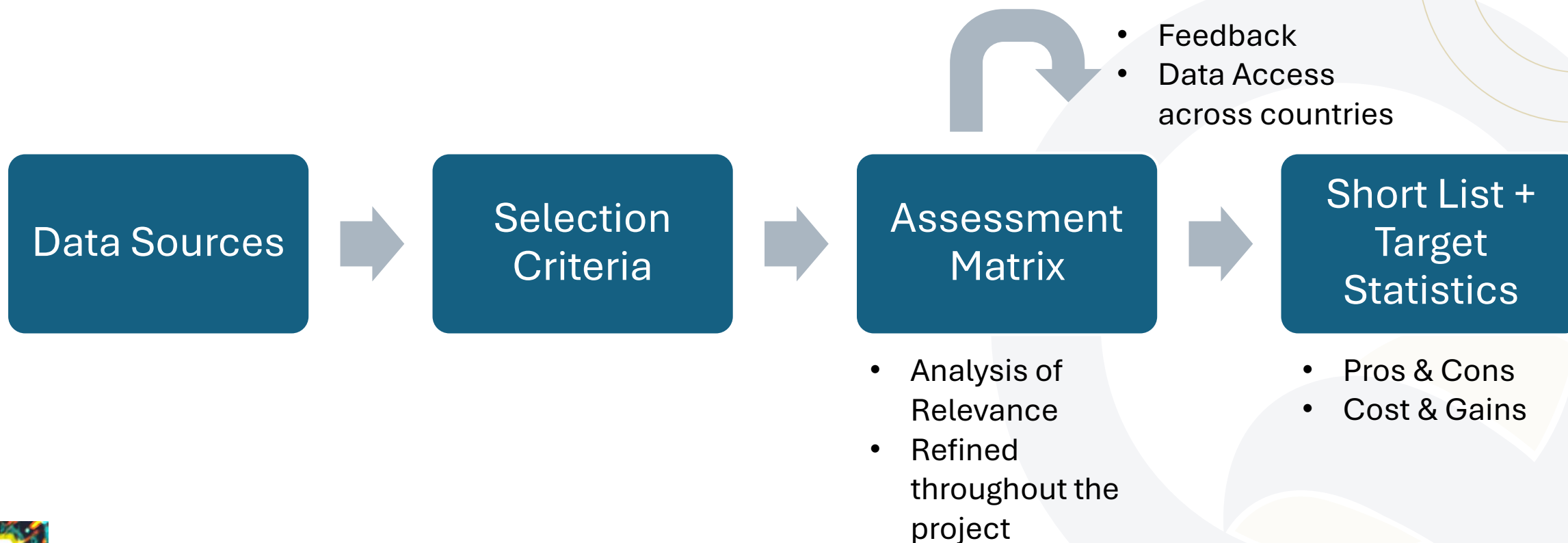
- Work Package 2:
- Identification & assessment of potential non-MNO sources
- Selection criteria & scoring
- Proposition of a short-list

- Work Package 4:
- Development of a Survey
- Friendly-User-Test
- Implementation Strategies & Guidelines





WP2: Process, Quality, Criteria





WP2: Process, Quality, Criteria

Improve Population Coverage

Quality
enhancement
through
combination of
data sources

More Precise Analyses

By additional
information, e.g.
socio-demographic
information,
transportation
mode, ...

To overcome issues
of data quality and
completeness

New Topics

Because of
changes in the
environment





WP2: First Findings

Traditional

Socio-demographic themes
Mobility
Tourism

New Digital Data

Satellite data
Traffic signals
Electronic invoices
Social media
Credit card transaction data
Google Popular Time

Findings

Access to detailed methodological
information
→ Confidentiality

Most data sources have their limits
→ Relevance

Traditional & new data often differ
in quality aspects
→ Scoring





EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL

eurostat 

The conference is partly
financed by the European Union

Thank you for your attention!

Contact: tss-meth-too@istat.it



@MNO-MINDS ESSnet Project



@TssMethToo_Pj



Co-funded by
the European Union



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Acknowledgement & Disclaimer:

This work was co-funded by the European Commission Project “MNO-MINDS” – 101132744 — 2022-IT-TSS-METH-TOO. Its contents are the sole responsibility of the authors listed below and do not necessarily reflect the views of the European Union.



Co-funded by
the European Union

Authors:

Tiziana Tuoto, Maria Grazia Calza, Maria Francesca D'Ambrogio, Immacolata Fera, Tamara Zangla - *Istituto Nazionale di Statistica (Istat)*, Italy

Marie-Pierre Joubert - *Institut national de la statistique et des études économiques (Insee)*, France

Gloria Deetjen, Maurice Brandt - *Statistisches Bundesamt (Destatis)*, Germany



eurostat 

The conference is partly
financed by the European Union



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL