



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL





EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

The Istat strategy to support quality by strengthening collaboration with academia

Di Zio M., Falorsi S., Luzi O., Scanu M.

Istat, Italian National Institute of Statistics



eurostat 

The conference is partly
financed by the European Union



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Istat, a research organization

Legal context. Istat has a role of **Public research body** (National decrees) dedicated to the production and analysis of statistical data.

Istat mission (in its Statute) is to *"serve the community through the production, development and dissemination of high quality statistical information, analysis and forecasts, carried out in full autonomy and on the basis of rigorous ethical-professional principles and the most advanced scientific standards (...)"*



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Research Plan

Istat has a **Research Plan** aimed at programming the research and innovation activities in terms of qualitative and quantitative objectives, financial, technical and professional resources necessary for their realization, allowing integrating these elements within the performance cycle and the financial-economic system of the Institute



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL



Research Infrastructure

Supporting the development and valorization of research and innovation activities carried out within the Research Plan, monitoring their implementation, and communicating their results



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Research Infrastructures

Research Committee. In charge of coordinating and developing the Research Plan, monitoring its implementation, and supporting and facilitating joint research projects with the external scientific community.

Advisory Committee on Statistical Methods. Involves experts from National/Intl Universities and from other NSIs for revising and discussing methodological research projects.

Innovation Laboratory. A virtual and physical place where Istat researchers and external experts can collaborate on advanced methodological research projects.



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Infrastructure and Universities by activities

Joint research Istat - Universities

Research protocols (monitored by Research committee)
Innovation laboratory (Research committee final decision on projects)

Consulting activities

Advisory committee on statistical methods

Training and education

Emos
Master classes (Advisory committee)
...Future plans... PhD (Research committee)

Knowledge sharing

Istat workshop on methodologies (Advisory committee)



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Research committee: Research protocols

Needed for collaborations. Contracts that represent structured frameworks where roles, responsibilities and areas of mutual interest.

Non-onerous transactions. Financial movements only for reimbursement, without profit margins.

Involve applied and methodological research projects.

Necessary for sharing not only applied and theoretical results, but also **data**, under the legal constraints ensuring data privacy.

Collaborations contribute to the production of public value and to the achievement of institutional performance, and are part of the of Istat operational planning process.



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Innovation laboratory (Labinn)

Set up to improve the innovation. Labinn provides high-performance computing infrastructure for testing ideas in a dedicated location, as well as the chance to dedicate time to research.

Every year a call for projects to collect innovative ideas is launched. A review process of the projects is carried out before the **final Research Committee approval.**

Open to **external collaborations** to foster and facilitate the fruitful process of interaction through the establishment of a network of knowledge.



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Advisory committee stat. meth: Consulting, Training

Since 2017, **16 master classes**: sampling and estimation (small area, Bayesian approaches, graph sampling), data integration, statistical disclosure, non-response.

In 2024, **2 master classes** are in schedule: 1) on the analysis of longitudinal data 2) on spatially balanced designs.

It has granted its support to 46 Istat projects.



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Advisory comm. stat. meth: annual workshop on methods for official statistics

Objective. Gather researchers from the academia and NSIs to **exchange ideas** and good practices on methodological research for official statistics.

The workshop consists of 3-4 one-hour master classes by leading statisticians and about 10 talks on specific topics.

Two past workshops focused mainly on understanding the impact of new data sources and new methods (e.g. machine learning).

Proceedings available on the Istat website



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Main issues

Sharing data with external researchers.

Data exchange is allowed under specific conditions, future work at Istat will be to enhance the available technical solutions to further facilitate joint research and methodological developments allowing data sharing, starting from innovating the IT infrastructures and tools available in the Labinn.



EUROPEAN CONFERENCE ON
QUALITY IN OFFICIAL STATISTICS
2024 ESTORIL - PORTUGAL

Thank you



INSTITUTO NACIONAL DE ESTATÍSTICA
STATISTICS PORTUGAL

eurostat 

The conference is partly
financed by the European Union



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL