



12th European Conference on Quality in Official Statistics (Q2026)
Training course on “Official Statistics Quality Accelerator with AI Boost “

- Trainers:**
- Mr Vlado Cetl, Full Professor at University North – Varaždin, Croatia. Former EC JRC expert in spatial data infrastructures and AI in geomatics
- Ms Olga Bjelotomić Oršulić, Assistant Professor at University North - Varaždin, Croatia. Expert in Geostatistics, spatial data analysis, and AI applications in geosciences
- Course description:**
- This hands-on course emphasizes the practical application of Quality Indicators (QI) and emerging data technologies in official statistics. AI/ML and generative AI have a great impact on the production and dissemination of official statistics. AI can significantly improve data quality assurance by identifying and removing anomalies through data profiling, eliminating obsolete information, and performing data cleaning. Participants will examine a case study on regional indicators and acquire methodological expertise in the use of open-source tools for constructing reproducible workflows encompassing data ingestion, visualization, and automated reporting, thereby developing transferable skills applicable to their own research and professional projects. A modular AI “boost” segment will demonstrate how simple machine learning and language model techniques can accelerate coding tasks, detect anomalies, and enhance interpretability. All exercises will use open-source tools and real-world datasets, with resources, data definitions, and environment specifications provided to participants in advance.
- Main goals:**
- ✓ Apply ESS Quality Assurance indicators (e.g. missingness, coverage, plausibility) to real official statistics workflows
 - ✓ Develop a reproducible end to end pipeline – from raw data capture to polished visual reports
 - ✓ Explore spatial QA through regional mapping and temporal QA via time series analysis
 - ✓ Data Analysis and Visualisation – integrating scalable AI techniques for code generation, anomaly detection, and clustering within statistical processes
- Target audience:**
- Statisticians, data analysts, and quality assurance professionals in national statistical authorities who wish to deepen their practical skills with open source and AI enhanced methods.
- Laptop**
- Yes, participants will receive detailed environment setup instructions prior to the course)



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Max no. of participants 35

Data & Tools All datasets (including statistical tables and boundary files) and software environments will be defined, version controlled, and distributed to attendees before the training, ensuring everyone works with the same inputs and configurations.

Suggested Reading

- [One-Stop-Shop for Artificial Intelligence and Machine Learning for Official Statistics \(AI/ML4OS\) – Eurostat CROS portal. This is part of the ESS Innovation Agenda and provides a suite of resources for AI/ML in official statistics.](#)
- [Artificial Intelligence Opportunities and Challenges](#)
- [Generative AI for Official Statistics – Using, Implementing and Developing – UNECE working document \(2025\).](#)
- [Machine Learning for Official Statistics – UNECE publication \(2021\).](#)
- [AI and Quality in Official Statistics](#)