



EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



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Innovation in AI/ML and Quality: The One-Stop-Shop on AI/ML for Official Statistics



eurostat 

The conference is partly
financed by the European Union

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BACKGROUND

- Proposal to form One-stop-shop (1SS) for AI-ML for Official Statistics
- Funded by EU action grant
- Project kick off in April



OBJECTIVES

Develop, maintain and
evolve coherent set of
capabilities

Set up sandpit
platform/hub

Provide support &
guidance for integration &
maintenance of AI/ML
solutions through training
and active support

Build communities
around OSS solutions
developed by NSI's

Share ideas, experiences,
lessons and
success/failure stories to
stimulate AI/ML
innovation

Enable transition from
experimental solutions to
industrialised and
production solutions



PROJECT OUTCOMES

Build a framework for developing AI/ML solutions to be used in the context of official and European statistics,

ESS staff and partners have access to established and proven AI/ML solutions/resources to be leveraged in the context of official statistics production,

ESS organisations are encouraged to innovate and eventually realise benefits from the use of AI/ML approaches for statistical products, and

Economies of scales and resources are achieved through cooperation inside and outside the ESS and transition from ideas to production is accelerated.



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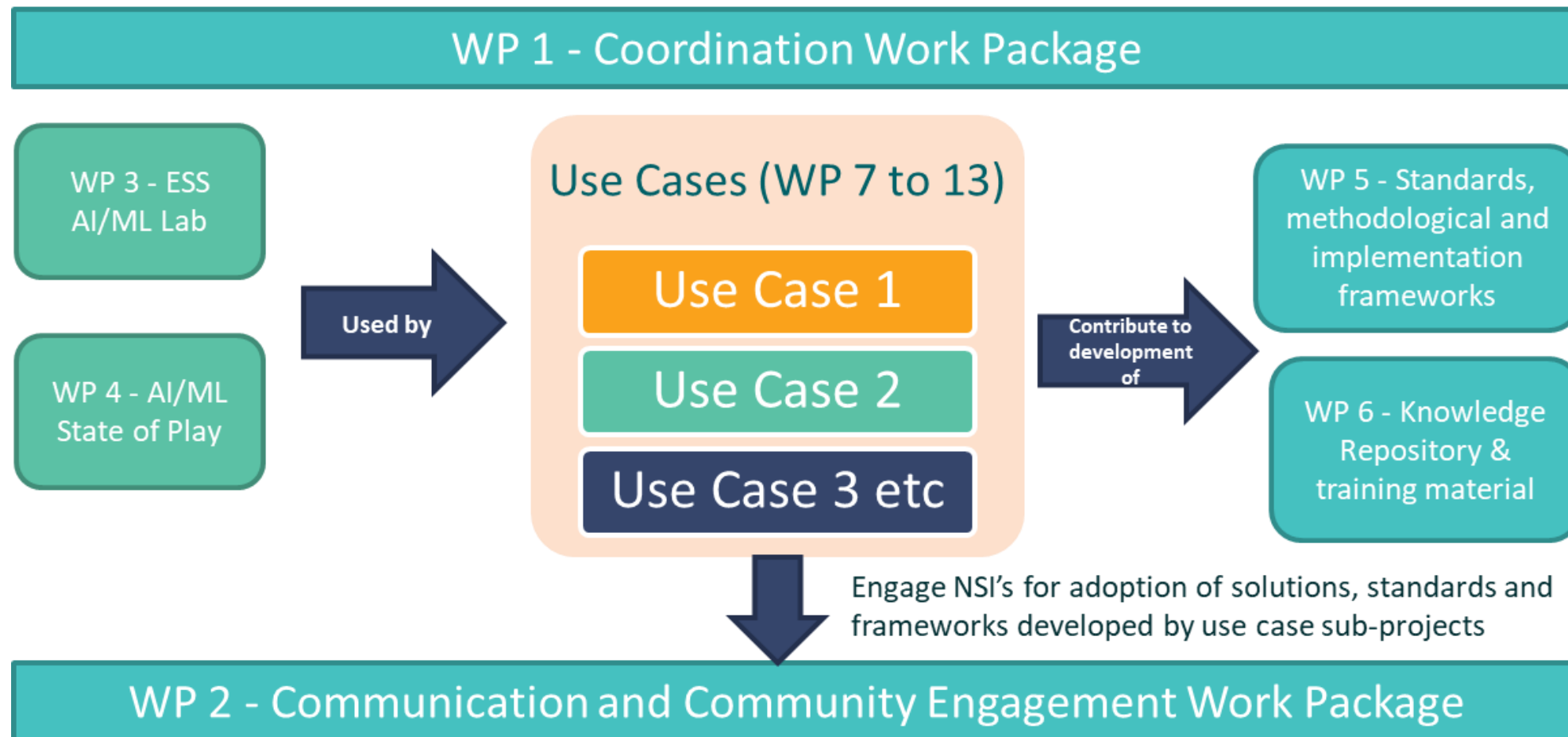
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CONSORTIUM MEMBERS





PROJECT FRAMEWORK



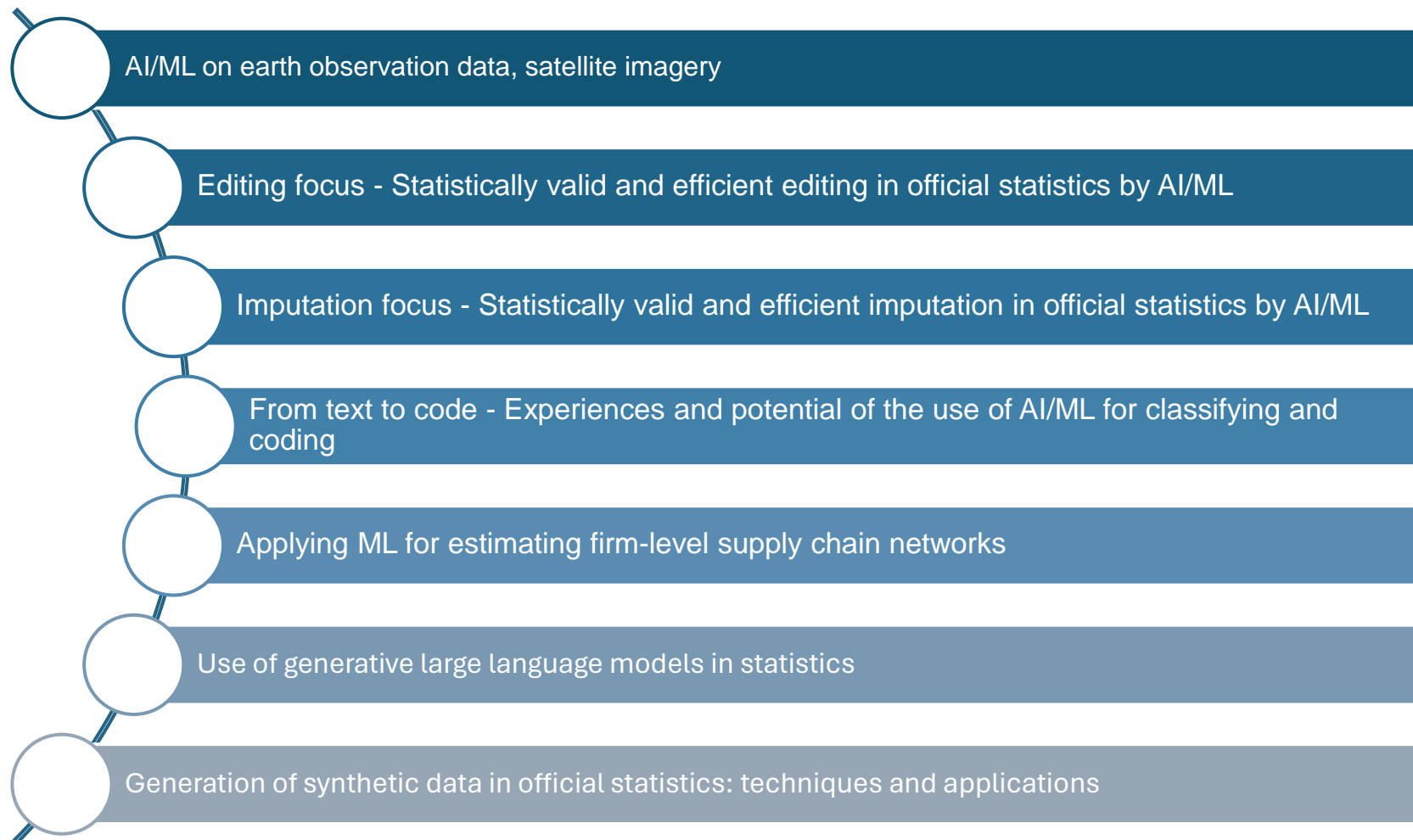


CROSS-CUTTING WORK PACKAGES

- WP1 Coordination – CSO
- WP2 Comms & Engagement – ISTAT
- WP3 Platform – INSEE
- WP4 AI/ML Ecosystem - DeStatis
- WP5 Standards – DeStatis & CBS
- WP6 Knowledge Sharing & Training – Statistics Poland



USE CASE WORK PACKAGES





QUALITY ASSURANCE OF WORK PACKAGES

- Review panel is being established
- Peer reviews at the beginning, middle and end of each Use Case
- Provide ad hoc advice and guidance during the delivery of the Use Case



QUALITY AT THE HEART

Methodological and implementation guidelines for applying AI/ML in official statistics

Generalised knowledge, identified norms and best practices for developing and operating AI/ML-based solutions in official statistics

Standards in applying AI/ML in official statistics to facilitate the transition from development and experimentation of AI/ML-based solutions to industrialisation and production



QUALITY AT THE HEART

Standards

- Clarity
- Interpretability
- Transparency
- Data Quality
- Auditability
- Ethics

Methodology

- Unbiased
- Reproducible
- Valid statistical outcomes

Implementation

- MLOps
- AI/ML Labs
- Experimentation to Production



RESULTS





HOW TO FIND OUT MORE

European Sharing Platform - CROS

Conferences, events participants

Collaborations with Universities, Enterprises...

Newsletter

Social media



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