



Harnessing web data for next-generation skills intelligence

Cedefop and Eurostat research conference

Programme

DAY 1 – 28 May 2026 (all times are EEST)

09.00 – 10.00	Participant arrival and registration
10:00 – 10.55 <i>Europa room</i>	Introduction Jasper van Loo, <i>Coordinator, Department for VET and skills, Cedefop</i>
	Welcome speech Jürgen Siebel, <i>Executive Director, Cedefop</i>
	Keynote speech OJAs in the next decade Michail Skaliotis, <i>Active Senior - European Commission, Eurostat</i>
10.55 – 11.30	Coffee break



11.30 – 13.00
Europa room

Session 1a

Chair: Vladimir Kvetan, *Expert in VET and skills statistics and indicators, Cedefop*

Bridging Skills Demand and Vocational Qualifications: Linking Online Job Postings with National Skills and Qualification Frameworks

Mauro Pelucchi, *Head of Global Data Science, Lightcast*

From Web Data to Actionable Skills Intelligence: A Three-Stage Architecture for Europe's Advanced Digital Skills

Harri Ketamo, *Founder, Headai*

The role of education and training offer data in skills intelligence

Alice Bertoletti, *Research Officer, European Commission - JRC*

11.30 – 13.00
Montessori room

Session 1b

Chair: Joanna Napierala, *Expert in skills intelligence and foresight, Cedefop*

The Hidden Innovators: Uncovering Capabilities and Industrial Dynamics in European Rural Areas

Simone Sasso, *Economist and Policy Analyst, European Commission*

Skills Demand and Regional Productivity

Bernardo Caldarola, *Economic Complexity Analyst, European Commission - Joint Research Centre*

Telework Disruption and Digital Skills: Evidence from 700,000 Job Postings during COVID-19 Pandemic in Slovakia

Brian Fabo, *Researcher, Institute for Forecasting, Centre of Social and Psychological Sciences of the Slovak Academy of Sciences*



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	What jobs do Polish companies offer to Ukrainian refugees? The role of occupational heterogeneity and dynamic changes over the war Robert Pater, <i>Professor, Educational Research Institute</i>
13.00 – 14.00	Lunch break
14.00 – 15.30 <i>Europa room</i>	Session 2a Chair: Adam Tsakalidis, <i>Expert in skills intelligence and foresight, Cedefop</i> Harnessing web data for next-generation skills intelligence in the UK Jeisson Cardenas-Rubio, <i>Head of Global Data Science, Cambridge Econometrics</i> Occupation classification algorithms at the Luxembourgish Public Employment Agency (ADEM) Gabriele Marconi, <i>Data Scientist, Agence pour le Développement de l'Emploi (ADEM)</i> A Hybrid Semantic Normalization Framework for Mapping Multilingual Job Postings to European Taxonomies Panagiotis Zervas, <i>Associate Professor, University of Peloponnese</i>
14.00 – 15.30 <i>Montessori room</i>	Session 2b Chair: Fernando Reis, <i>Principle Administrator, Eurostat</i> Building a Common Language for the Twin Transition: Reference Frameworks for Digital and Green Skills Michal Kovacs, <i>Project Manager, Digital Coalition</i> Beyond Green Jobs: How Climate Policies Reshape Skill Demand Emilio Colombo, <i>Professor of economics, Università Cattolica del Sacro cuore</i>



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From “green skills” to actionable skills intelligence: linking workplace deployment, leadership and VET curricula through a territorial taxonomy (Gipuzkoa case)

Itziar Garcia Blazquez, *Researcher, Orkestra - Basque Institute of Competitiveness*

Skills intelligence analysis in the Offshore Renewable Energy sector in Europe: A value-chain approach

Eleftherios Sdoukopoulos, *Head of Environmental and Energy Impacts of Transport Systems Laboratory, Hellenic Institute of Transport (HIT) - Centre for Research and Technology Hellas (CERTH)*

15.30 – 17.00
Europa Foyer

Joint poster session & extended coffee break

A methodological focus on skills analysis: experimentations with lexicometry and Natural Language Processing

Eline Delmarcelle, *Analyst, Bruxelles Formation (Institut bruxellois francophone de formation professionnelle)*

Élise Ugeux, *Analyst, Bruxelles Formation (Institut bruxellois francophone de formation professionnelle)*

Agent-Based Knowledge Graph-Augmented Skills Extraction from Online Job Advertisements

Mikołaj Tym, *Data Scientist, Poznań University of Economics and Business*

AI-Complementary Skills: Real-Time Evidence from Italian Job Postings

Greta Sofia Lampis, *Researcher and PhD student, Fondazione Bruno Kessler - Research Institute for the Evaluation of Public Policies*

Digital Skills Demand in Greece: Labour Market Analysis Using Online Job Vacancies

Petros Stavropoulos, *Research Associate, Athena Research and Innovation Center*



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GPS Professional: A Dual-Pathway Hybrid Intelligence Platform for Skills-Based Career Guidance Integrating OJA Data

Marina Muñoz Martínez, *Researcher, Universitat Oberta de Catalunya*

Imbalance and talent shortage in the Catalan labor market: survey insights and comparison with OJAs

Paula Pedro Aznar, *Sociologist, political scientist, and labor market researcher, Universitat Oberta de Catalunya (Open University of Catalonia)*

Shifting skill demands across qualification levels: NLP and ESCO taxonomy applied to Italian OJAs

Muratbek Tolokov, *PhD student in EMIS, University of Parma and University of Ferrara*

Researcher in Economics, UNESCO Chair on Education, Growth and Equality

Tracking Upskilling and Reskilling via Skill Evolution in GitHub Profile READMEs

Maria Papoutsoglou, *PostDoc Researcher, Aristotle University of Thessaloniki - School of Informatics*



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DAY 2 – 29 May 2026 (all times are EEST)

09.00 – 09.30	Participant arrival
09.30 – 11.00 <i>Europa room</i>	Session 3a Chair: Dimitrios Soudis, <i>Expert in skills intelligence and foresight, Cedefop</i> Advertised Technologies: Identifying Adoption of Emerging Technologies in Online Job Postings Tommaso Ciarli, <i>Senior Researcher, UNU-MERIT, United Nations University; SPRU, University of Sussex</i> Disruption or Augmentation? The Changing Demand for AI Skills in the Age of Generative AI Gabriele Marconi, <i>Data Scientist, Agence pour le Développement de l'Emploi (ADEM)</i> Mind the AI gap: A Stage-Based Human Capital Framework for the Fourth Industrial Revolution Mikel Albizu, <i>Researcher, Orkestra (Basque Institute of Competitiveness)</i> Skills and AI Innovative Ecosystems: Evidence from Brazilian Microregions Tommaso Ciarli, <i>Senior Researcher, UNU-MERIT, United Nations University; SPRU, University of Sussex</i>
09.30 – 11.00 <i>Montessori room</i>	Session 3b Chair: Joanna Napierala, <i>Expert in skills intelligence and foresight, Cedefop</i> Harnessing Real-Time Labor Market Intelligence: Machine Learning and NLP Approaches to Online Job Advertisement Data for Policy, Education, and Career Mobility Hamdy Ragb, <i>Education Advisor, Colleges of Excellence</i>



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	Leveraging Machine Learning for Personalized Labor-Market-Relevant Training Pathway Recommendations in Serbia Milica Jelic Mariokov, <i>Coordinator at the Centre for Accreditation of Adult Education Providers, The Qualifications Agency of the Republic of Serbia</i> The ROI of Guidance: Measuring the Impact of Human-in-the-Loop Curation on STEM Talent Mobility Harshit Jaiswal, <i>Founder & CEO, Flow Community Inc.</i> Using Online Job Adverts Data on Skills to Identify Potential Career Pathways Nora Condon, <i>Senior Data Analyst, Skills and Labour Market Research Unit (SLMRU), SOLAS</i>
11.00 – 11.30	Coffee break
11.30 –13.15 <i>Europa room</i>	Session 4a Chair: Fernando Reis, <i>Principle Administrator, Eurostat</i> A Skills Intelligence Ecosystem To identify labour market needs and guide education and career pathways Carmen Pages, <i>Directors Skills Intelligence and Labor Market Analysis Unit, Universitat Oberta de Catalunya</i> Skills Intelligence Emilia-Romagna (SI-ER): Leveraging Web Data and AI for Next-Generation Regional Skills Intelligence Lara Porciatti, <i>Senior program manager, ART-ER</i> Skills Intelligence for informing HEIs curricula: UPAL Labour Market tools Natalí Basilico, <i>Researcher, Universitat Oberta de Catalunya</i> Gonzalo Cubillos, <i>Researcher, Universitat Oberta de Catalunya</i>



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	Spatial Matching of Online Job Vacancies and Training Provision Data Nermin Oruc, <i>Director of Research, Centre for Development Evaluation and Social Science Research</i> Aleksandar Kostadinov, PhD student, University of Ljubljana
11.30 –13.15 Montessori room	Session 4b Chair: Vladimir Kvetan, <i>Expert in VET and skills statistics and indicators, Cedefop</i> Labor Demand for Digital Skills during Wartime: Evidence from Russia's Invasion of Ukraine Britta Rude, <i>Economist, World Bank</i> Mapping Digitalization through Skill Demand: Firms, Sectoral, and Regional Labor Market Insights in Italy Sladana Krgovic, <i>Researcher, CSIL</i> The elephant never left the room: did gender discrimination went implicit in French job posting? Ylenia Curci, <i>Professor, CNAM</i> Beyond Composite Indices: Using Online Job Advertisements to Reveal Gender-Blind Spots in Skills Intelligence Irina Dimitrova, <i>National VET Expert/VET and labour market researcher, Human Resources Development Center</i>
13.15 –13.30 Europa room	Closure speech Adam Tsakalidis, <i>Expert in skills intelligence and foresight, Department for VET and Skills, Cedefop</i>

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