

AGENDA

TITLE:

ETF Skills Lab Network of Experts Webinar

SUBJECT:

The use of big data to support anticipation for the green and digital transition

5 April 2023 – 10:00 - 12:30 CET

SUMMARY:

In recent years, the development of **big data analysis and artificial intelligence** has transformed the way in which we conduct research. Sources of data which previously seemed too vast or complex can now be analysed and used to develop more accurate research models.

The ETF has been working extensively on this topic, and has notably published an [introductory guide to the use of big data for labour market intelligence](#). Other institutions have also shared their own **practical guides**. These include the interagency [Perspectives on policy and practice: Tapping into the potential of big data for skills policy](#) and Cedefop's [Understanding technological change and skill needs: big data and artificial intelligence methods](#).

However, a lot remains to be understood about what we can expect from these tools and how best they should be used. This webinar will focus on how big data can be used to support anticipation for the digital and green transitions, in particular how big data analysis can help us to **identify digital or green skills** and to track the evolution of skills demand.

The webinar will include three presentations, with a **networking session** at the end. In the first presentation, Eduarda Castel Branco from the ETF will present her experience of **analysing online job vacancies** to identify the emergence of digital and green skills.

Aleksandar Kostadinov from the Regional Youth Cooperation Office will then share some insights into how web scraping techniques – such as those used in the ETF publication [Changing skills for a changing world: Understanding skills demand in EU neighbouring countries](#) – can be used to gather data from job posting websites and other open data sources. The presentation will also focus on challenges in collecting web data and ways of mitigating these weaknesses through cooperation with the data holders.

Terence Hogarth from the Warwick Institute for Employment Research will then give a presentation on the changing nature of skills anticipation and the contribution of data science techniques to anticipate future skill needs.

The webinar will also include two **Q&A sessions** in which participants will be able to ask all their questions.

Time	Agenda Item	Speaker
10:00 - 10:05	Opening, rules of engagement, Overview of agenda	Francesca Rosso, ETF
10:05 – 10:50	ETF's experience with online job vacancy analysis – A focus on green and digital skills	Eduarda Castel Branco, ETF
10:50 – 11:05	Q&A and discussion	Chair: Rodion Kolyshko, ETF Skills Lab Network of Experts
11:05 – 11:25	Exploring labour market trends and insights through open data	Aleksandar Kostadinov, Regional Youth Cooperation Office
11:25 – 11:45	The Changing Nature of Skills Anticipation: The contribution of data science techniques to anticipate future skill needs	Terence Hogarth, Warwick Institute for Employment Research
11:45 – 12:00	Q&A and discussion	Chair: Najib Hamouti, ETF Skills Lab Network of Experts
12:00 – 12:05	Conclusions	Francesca Rosso, ETF
12:05 – 12:30	Networking session Informal virtual coffee to share and exchange research experiences and ideas of collaboration on the webinar topic	Romain Boitard, ETF