

## Big Data for Labour Market Intelligence

### Online capacity development programme 2024

A Multidisciplinary team of data scientists, labour market experts, and statisticians

Language of the event: ENGLISH

Visit the [webinar webpage](#) to access the presentations and more information.

The capacity development programme 2024 is structured in two modules:

#### 1. New Dimensions, Digital and Green Analysis

14 February 2024, 08.00-12.00 (GMT) / 09.00-13.00 (CET)

#### 2. AI and the impact on Labour Market - Evidence from ETF Countries, AI for Education

16 February 2024, 08.00-12.00 (GMT) / 09.00-13.00 (CET)

The European Training Foundation (ETF) initiated the 'Big Data for Labour Market Intelligence' project in 2019, dedicated to crafting an innovative data system for skills demand analysis using online job vacancies. In the initial phase (2019-2021), significant milestones were achieved, including the establishment of databases and online visualization platforms in Ukraine, Tunisia, and Georgia. The project's ongoing second phase (2022) expands its reach to include Egypt and Kenya, focusing on data quality enhancement and exploring novel themes such as digital skills, green jobs, remote working, and AI. The 2023 addition of Morocco marks another strategic milestone in the project's evolution, continuing commitment to pioneering approaches in labor market intelligence.

ETF works with a specialised consortium: *Lightcast* ([www.lightcast.io](http://www.lightcast.io)) and *CRISP – University Milano Bicocca*

Every year the project carries out regular capacity development programmes, and all resources and learning materials are accessible online for any interested institution. In the dedicated [YouTube channel](#) you find over 20 videos covering different aspects of the concepts, methodology, analysis and use cases.

Key outcomes of ETF project “Big Data for LMI,” including the key dashboards, training programmes, methodological handbook and analytical reports are accessible online:

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- Open Space webpage: [LMI in transformation – Focus on Big Data](#)
  - Brief methodological handbook (English) “[Big Data for labour market intelligence: an introductory guide](#)” (2019). Brief Methodological Handbook, 2019 [Russian](#) and in [French](#)
  - Updated interactive data visualisation platforms (dashboards):  
[https://solutions.emsibg.com/?pc=x\\$fhADtD\\*cu\\$BjY9](https://solutions.emsibg.com/?pc=x$fhADtD*cu$BjY9)
  - Training programmes with learning resources:
    - [YouTube channel](#)
    - A specific [training programme](#) for data analysts and experts, November 2019
    - [Webpage of webinar on Big Data for LMIS](#), 10 December 2020
    - [Online training programme on Job vacancy analysis](#), 8, 10 and 15 June 2021
    - [Online training programme “What’s new with Big Data for LMI?”](#): 22-24 November 2021

- Report: [Feasibility study OJV sources](#): methodology and two case studies (Morocco and Tunisia), 2019
- Report: [Big Data for LMI, Web Labour Market Landscaping Ukraine](#), 2020.
- Report: [Big Data for LMI in Ukraine: analytical report](#), 2020.
- **Programme of workshops 2023**: <https://www.etf.europa.eu/en/news-and-events/events/big-data-labour-market-intelligence-online-capacity-development-programme>
- **Learning videos and webinars of the Big Data LMIS project** (over 44): [https://www.youtube.com/playlist?list=PLEKEwOFeOWc6TGf3Bic004\\_wKrz3tY5nq](https://www.youtube.com/playlist?list=PLEKEwOFeOWc6TGf3Bic004_wKrz3tY5nq)

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## Workshop 1: 14 Feb 2024

### Big Data for LMIS: Digital and Green Analysis

#### Objectives and themes

- General overview of the data system, main objectives and added-value, main concepts and methodological framework
- Show case: Combine and compare Online Job Vacancy (OJV) data with traditional data (snow case)
- Case Studies: AI for Education
- Towards data driven Occupational Profiles

<b>Wednesday, 14 February 2024 - 09.00-13.00h (CET time zone)</b>
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Theme and engagement	
<b>09.00-09.20</b>	Opening. Agenda and objectives of the training course. Introduction of participants (poll). <i>Eduarda Castel-Branco ETF</i>
<b>09.20-09.50</b> <b>Session 1</b>	Big Data for LMIS - ETF project: summary overview of the data system, dashboards, analyses and new dimensions of analysis.. <i>Speaker: Eduarda Castel-Branco (ETF)</i>
<b>09.50-10.50</b> <b>Session 2</b>	Big Data for LMIS - for skills demand analysis. Main concepts and methodological framework. Database. Dashboards to navigate the data. <a href="https://solutions.emsibg.com/?pc=x\$fhADtD*cu\$BjY9">https://solutions.emsibg.com/?pc=x\$fhADtD*cu\$BjY9</a> <i>Speaker: Mauro Pelucchi, Anna Clara Gatti (Lightcast)</i>
<b>10.50-11.00</b>	Questions and answers
<b>11.00-11.45</b> <b>Session 3</b>	Combine and compare Online Job Vacancy (OJV) data with traditional data (snow case) <i>Speakers: Emilio Colombo (CRISP)</i>
<b>11.45-12.15</b> <b>Session 4</b>	Case Studies: AI and Education <i>Speaker: Fabio Mercorio (CRISP)</i>
<b>12.15 - 12.45</b> <b>Session 5</b>	Occupational profiles: developing and testing a data driven approach, using Big Data. Examples. <i>Speaker: Elena Magrini (Lightcast)</i>
<b>12.45-13.00</b>	Discussion. Wrap-up

## Workshop 2: 16 Feb 2024

### AI and the impact on Labour Market and Education

#### Objectives and themes

- AI's Impact on the Labour Market: Trends and Challenges
- ETF Countries: Experiences and Findings - The AI Dimension.
- New Dimensions in ETF Big Data LMIS dashboards: Digital and Green Skills Analysis
- New Dashboards and New Indicator - the difficulty to fill index from online postings
- Eurostat: Web Intelligence Hub - new developments
- Case Studies: Supply side data and analysis

**Friday, 16 February 2024 - 09.00-13.00h (CET timezone)**

Theme and engagement	
<b>09.00-09.15</b>	Opening. Agenda and objectives of the training course. Introduction of participants (poll). <i>ETF</i>
<b>09.15-10.00</b> <b>Session 1</b>	Case Studies: AI's Impact on the Labour Market: Trends and Challenges from Global Job Postings <i>Speaker: Mauro Pelucchi (Lightcast)</i>
<b>10.00-10.45</b> <b>Session 2</b>	New dimensions and dashboards for skills analysis developed in 2023: analysis of Digital and Green Skills Analysis; remote work; the difficulty to fill index. <a href="https://solutions.emsibg.com/?pc=x\$fhADtD*cu\$BiY9">https://solutions.emsibg.com/?pc=x\$fhADtD*cu\$BiY9</a> <i>Speaker: Anna Clara Gatti (Lightcast)</i>
<b>10.45-11.30</b> <b>Session 3</b>	ART Emilia Romagna "Skills Intelligence" <i>Speaker: Lara Porciatti</i>
<b>11.45-12.30</b> <b>Session 4</b>	Using social profiles for analytics. Limitations. Information privacy issue. Use AIs to extract insights. Compare social profiles with online job postings. <i>Speaker: Duncan Brown (Lightcast)</i>
<b>12.30-12.50</b>	Questions and answers
<b>12.50-13.00</b>	Final comments. Wrap-up. Closure.

Contact: Eduarda Castel-Branco, [ecb@etf.europa.eu](mailto:ecb@etf.europa.eu)