Big Data for
Labour Market Intelligence

Capacity development programme 2022

Module 1: Technical training

Session 4

Cases, examples and exercises - Preparation for Innovation space

Speaker: Mauro Pelucchi

02/11/2022

Recap

Data production system

Tunisia (04/2020 to 07/2022)

    680,191 OJVs - > 175,203 deduplicated

Ukraine general (04/2020 to 07/2022)

    2,571,655 OJVs - > 1,304,262 deduplicated

Georgia (04/2021-07/2022)

    129,271 OJVs - 84,817 deduplicated
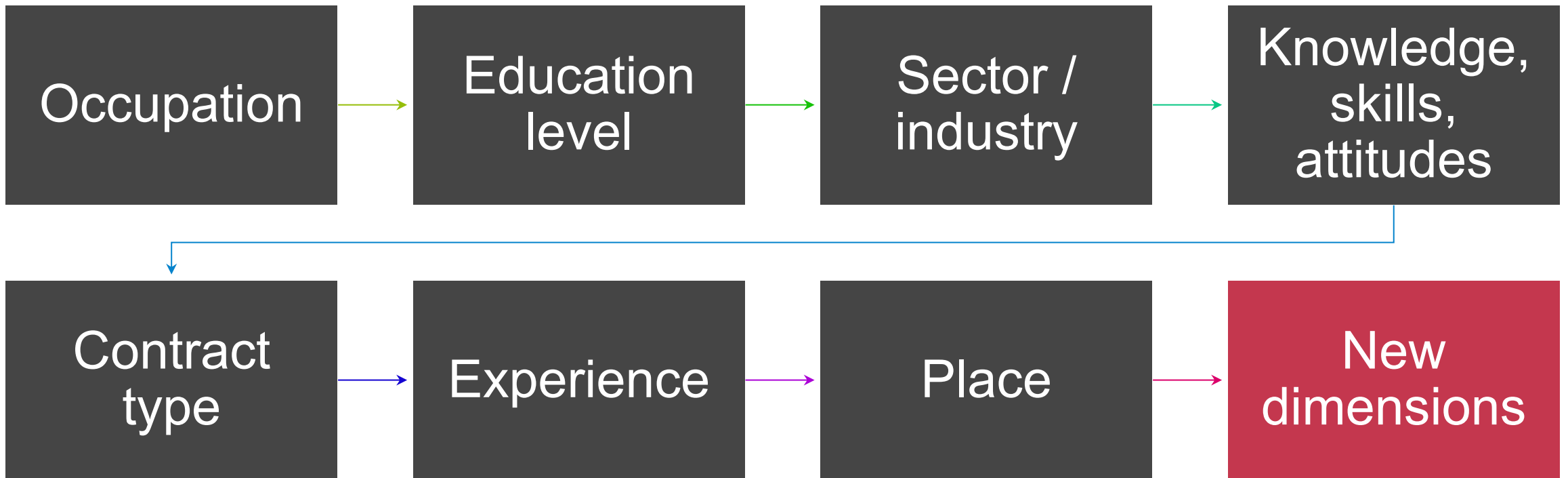
Egypt (new)

    1,307,678 OJVs – 391,701 deduplicated

Kenya (new)

    (collection started in september 2022)

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VARIABLES – ANALYSED, COMBINED AND VISUALISED

Occupation	Education level	Sector / industry	Knowledge, skills, attitudes

Contract type	Experience	Place	New dimensions

DATA CLASSIFICATION – TAXONOMY

- **Occupations:** ESCO/ISCO08
- **Skills**: ESCO
- **Location**: NUTS and ISO
- **Educational Level**: ISCED
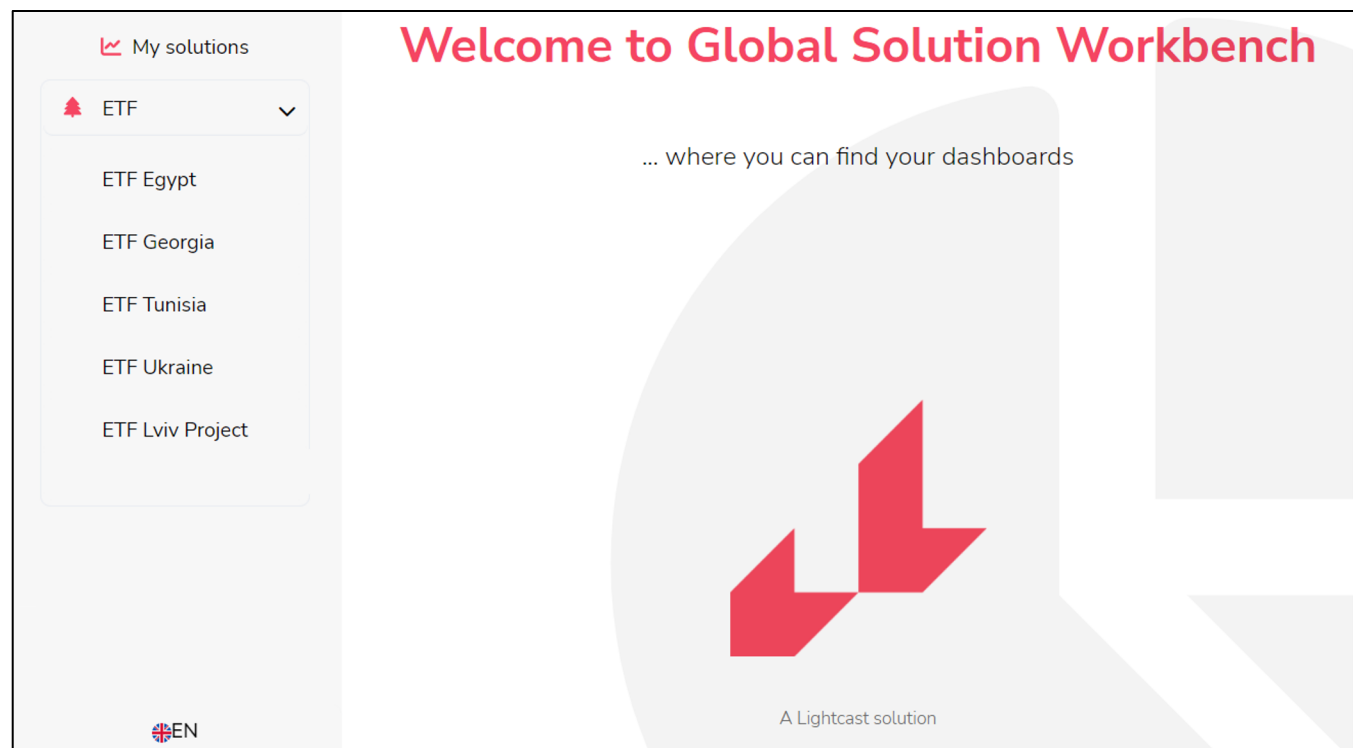- **Secto**r: NACE

What can we find in **ETF dashboards**?

Analytical perspectives:

- Time
- Occupation
- Occupation - Education
- Occupation – Industry
- Industry
- Occupation to skill
- Company focus
- Location Language
- Professional dashboard

How to access **ETF dashboards**?

https://solutions.lightcast.io/

Preparation for Innovation space

- Content
- Sources
- Tools & Methodology
- Future of work

8

Content

Measuring occupations, industries and skills with online job postings data

[Content] Measuring occupations, industries and skills with online job postings data

- What are the top occupations in your country? What are more important skills for these occupations?

- Why are job postings concentrated in some industry sectors?

- Any ideas in using skills and occupations data in practical use scenario (education, policy, ..)?

- Digital skills play a key role in defining the search for professionalism. What other variables or dimensions characterize the labour market? Is it possible to classify the dimensions (variable / value) as Escalator / Disruptors / Stabilizers / Challengers?

- Which indicators could be created that have a relation to the policies?

Sources

Different drivers for the development of the online job-portal market, Characteristics and differences of the online job-portal landscape across the ETF countries

[Sources] Different drivers for the development of the online job-portal market, Characteristics and differences of the online job-portal landscape across the ETF countries

- 1) Which share of the vacancies are currently published as OJVs?

- 2) Which driver has the main impact on the development of online job-portals in your country?

- 3) Which descriptions of skills, competencies and behaviour can be found in the OJVs?

Tools and Methodology

Use of the dashboards and the web data to extract insights

[Tools and Methodology] Use of the dashboards and the web data to extract insights

- What kind of vertical insights do you consider useful with respect to the data you have seen and used?

- Which analyses, which you usually carry out with classical data, can be complemented by these data in real time?

- In the presentations, high levels of information granularity emerge: skills, territory, etc. In which operational, strategic areas can this information be relevant? With respect to the different available variables, what critical aspects can you identify with respect to their use in the various decision-making contexts?

- Which classification systems / dimensions can we integrate to improve readability and policy definition (e.g. eCF?)? Let's focus on the possible improvement of the classification system: is the ESCO classification enough for analysis?

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Future of work

Trend and evolution in the Labour Market: Evidence from online job postings

[Future of work] Trend and evolution in the Labour Market: Evidence from online job postings

- What new professions will be created on the labor market in the future due to the development of the Industry 4.0 technological revolution?

- What are occupations affected by the robotization?

- How do you think Artificial Intelligence affect labor rights now and in the near future?

- Will technological development, self-malting and robotization, IT, artificial intelligence, machine learning increase unemployment in the future?

- How will the Industry 4.0 technological revolution, AI, COVID-19 (or other recents phenomenons) change the way we have to educate our students? What are your insights?

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Share your insights - PPTs (~5/10 slides)

Eduarda.Castel-Branco@etf.europa.eu
Mauro.Pelucchi@lightcast.io

29 Novembre 2022
Innovation space: presentations by the participants of the results of their homework