Development of

Education-Employment Database in Turkey

Turgay ALTUN

19 September 2022 - Online Training Course on
'Usage of Administrative Registries in Producing Demographic and Social Statistics'
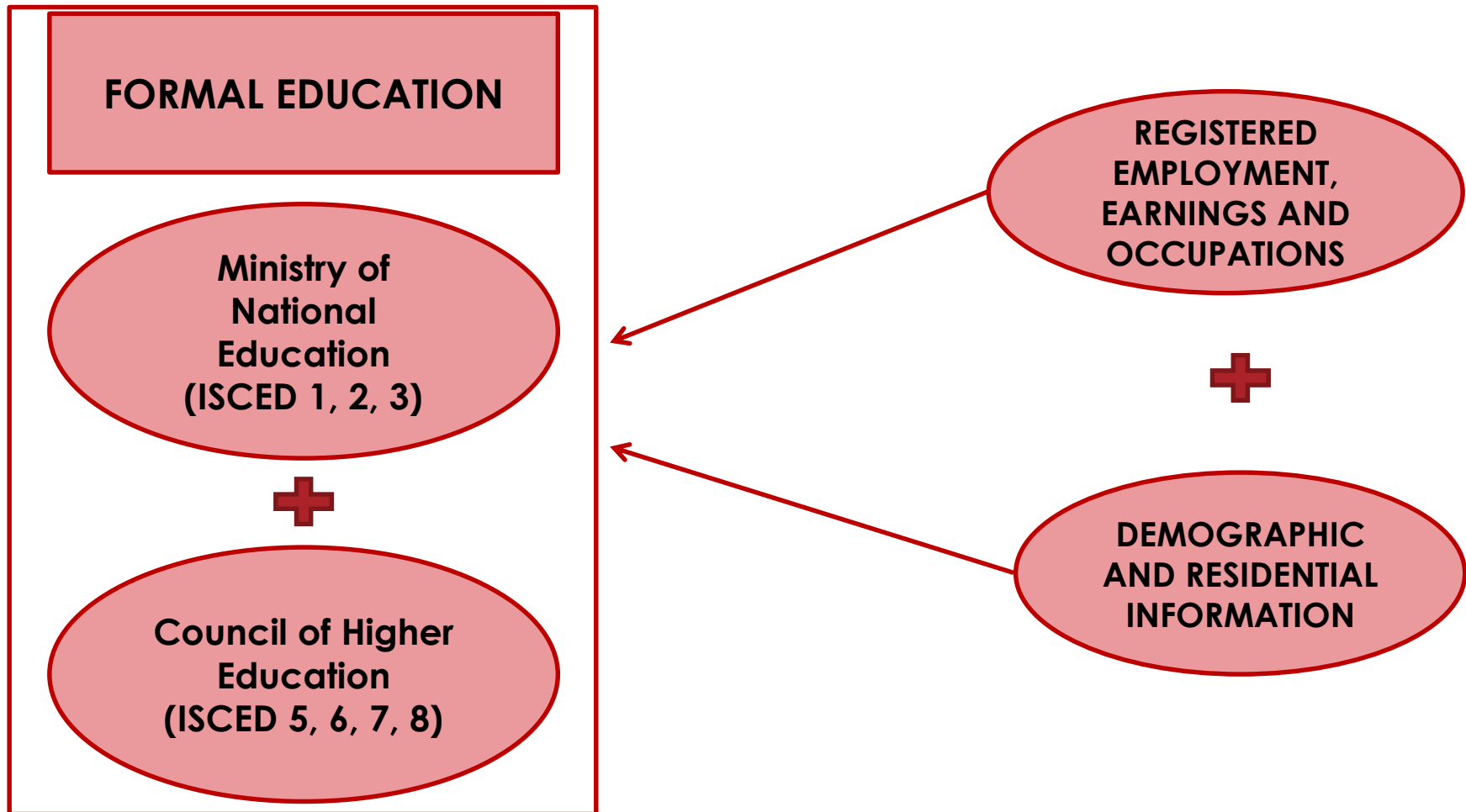
The presentation at a glance

- **Introduction**

- **Main structure of the database**

- **Data sources**

- **Pillars of the database**

- **Restrictions of the database**

- **Main tables**

- **Conclusion and future plans**

Introduction

- Main objective of the establishment of the Education-Employment Database is to set up and maintain an **integrated database** so as to analyse **education and labour market** systematically based on administrative registers; and to produce **statistical outputs** from the database.

- The database mainly covers information on the **formal education**, **registered employment**, and **demographic and residential characteristics** of Turkish individuals.

- The Database is comprised solely of **administrative registers**.

- **Individual data is matched** through an anonymised version of Turkish citizenship number.
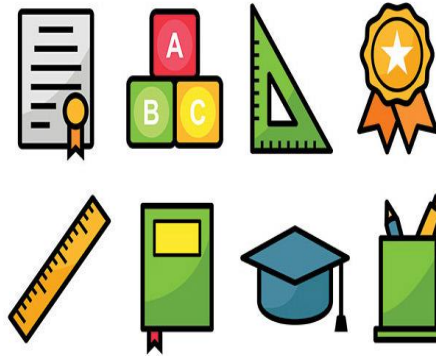
Main structure of the database (1)

FORMAL EDUCATION

Ministry of National Education
(ISCED 1, 2, 3)

+

Council of Higher Education
(ISCED 5, 6, 7, 8)

REGISTERED EMPLOYMENT, EARNINGS AND OCCUPATIONS

+

DEMOGRAPHIC AND RESIDENTIAL INFORMATION

Data sources

MAIN VARIABLES	PERIODICITY	DATA SOURCE
Formal Education	Annual	Higher Education Council *(for ISCED 5-6-7-8)* Ministry of National Education *(for ISCED 1-2-3)*
Registered Employment	Monthly	Social Security Institution *(for private and public sector, and self-employment)*
Occupation	Monthly	Social Security Institution *(for private sector)*
Earnings and Salaries	Monthly	Social Security Institution *(for private sector)* Ministry of Treasury and Finance *(for public sector)*
Demographic and Residential Information	Annual	Address Based Population Registration System Central Population Administration System

DEMOGRAPHIC AND RESIDENTIAL INFORMATION

* Sex
* Date of Birth & Age
* Residential Information

FORMAL EDUCATION

* Level of Education
* Name of the University/School
* Department / Field
* Field of Education (ISCED_F / FOET)
* Dates of Registration and Graduation

EMPLOYMENT AND EARNINGS

* Registered Employment Information
* Earnings and Salaries
* Occupational Codes (ISCO)
* Date of First Job After Graduation

PILLARS OF THE EDUCATION-EMPLOYMENT DATABASE

Restrictions of the database

- The data of the Ministry of National Education is available **as of 2008**, since the Ministry launched the **e-School** system that year.

- The data of the Council of Higher Education covers historical data, nevertheless the data has full coverage from **2006 onwards**.

- Social Security Institution data is **available as of 2009 onwards**. The registers do not have a common data format for the public and private sectors, and self-employment parts.

- Therefore, **young graduates** are more eligible for analysis in terms of their educational skills depending on the data of the Ministry and the Council.

- For the employment side, informal *(unregistered)* employment rate in general is ~32% for 15-64 years old, however this rate decreases to **~7%** when the **higher education (ISCED 6-7-8 levels) graduates** are taken into account *(according to Labour Force Survey results)*.

Main outputs

- First output of the database was published on August 1, 2022 as a press release 'Higher Education Employment Indicators'.

- The press release covers registered employment rate, duration for the first job and earnings groups of higher education graduates.

- The press release can be accessed from the link.

Conclusion and future plans

- The database is planned to be updated **annually**.

- The database is currently focusing on the employed persons in social security system and the plan is to use the data of Turkish Employment Agency so as to observe the educational backgrounds of **unemployed** persons in Turkey.

- The database is planned to be upgraded with **non-formal education** *(courses with regard to employment)* details of individuals in addition to current formal education information.

- Furthermore, **brain drain** can be calculated for reference years also in details of universities, departments and department of the universities.

e-mail: turgay.altun@tuik.gov.tr