

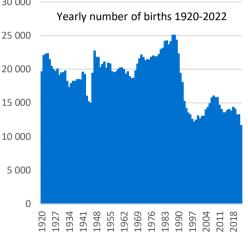
# OSKA: Estonian labor and skills forecasting system



Ave Ungro Estonian Qualifications Authority

## Background for establishing a skills anticipation system in Estonia

- Lack of qualified labour force as one of the main <sup>30 000</sup> problems for Estonian companies
- Rapidly aging society and declining working age population
- **High skills mismatch** due to rapid changes in the society during the last 30 years (after gaining independence from Soviet Union)
- Rapid changes in economy and labour market (automation, digitalization, green transition, etc)

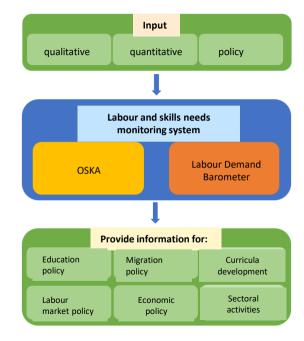


# Labour and skills needs monitoring in Estonia

**OSKA** (since 2015) and **Labour Demand Barometer** (since 2016) have different time horizons (10 years vs 6 months )

#### **OSKA** aims to:

- help people make good career choices
- help to learn and teach useful skills in the best way
- enhance cooperation between employers and schools
- drive education, labour and migration policy

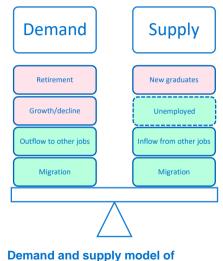


#### **Different OSKA studies**

• OSKA data model

#### 3 types of studies:

- OSKA general report
- Sectoral studies (+ follow-up)
- Ad hoc studies
- Labour market megatrends monitoring



skills/people in OSKA forecasts

# OSKA sectoral studies of labour and skills needs – since 2015

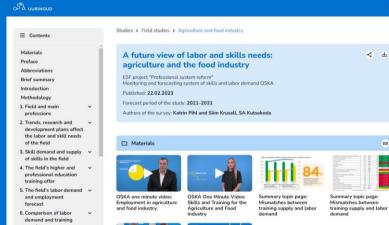
- Reports on 5 economic sectors or topics every year
- Aim to cover all sectors in 5-7 years (and continue the 5-7 years cycle)
- Similar methodology applied to all sectors comparable results
- Forecast horizon 10 years
- Combining qualitative and quantitative methods
- Sectoral expert panels (½ employers, ¼ educational institutions, ¼ policy makers)
- Follow-up of results and recommendations







#### **OSKA** website for different target groups



supply

7. Conclusions and





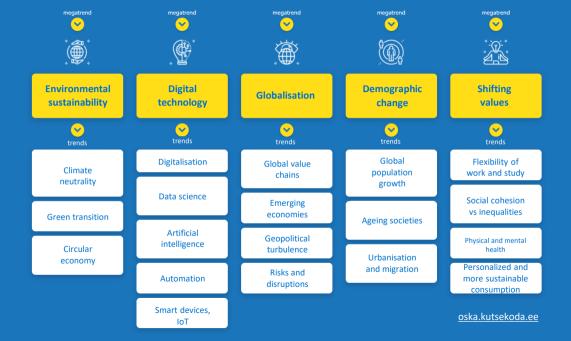


Briefing presentation

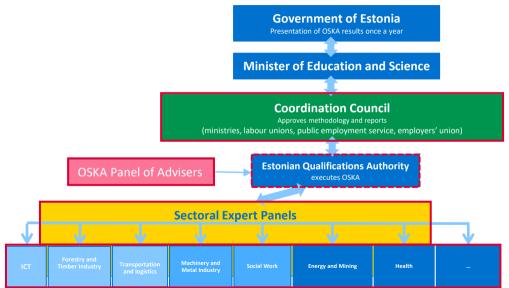


training supply and labor





# **OSKA** governance model



## Labour market policy /re- & upskilling stakeholders in Estonia

Estonian Qualifications Authority

#### A tripartite organisation

- Occupational qualification standards
- Occupational qualifications
  register
- OSKA labour and skills forecasting
- Skills system
- https://www.kutsekoda.ee/en/

# Estonian Unemployment Insurance Fund

- A government organisation
- Provision of Active Labour Market Measures (ALMPs)
- Payment of unemployment and work ability benefits and compensations
- Work capability assessment
- Career services to all population groups
- Mediation of jobs
- Labour demand barometer

https://www.tootukassa.ee/en

#### **Ministries:**

# Ministry of Economic Affairs and Communications

Employment and working life policy, equal treatment

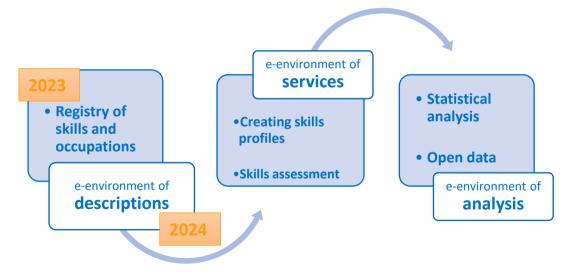
#### **Ministry of Education and Science**

- Education
- Re-/up-skilling projects (green skills, digital skills, etc)

# OSKA intelligence is used in policy-making and more

- For planning **VET curricula** and commissioning study places since 2016
- As input for adjusting university curricula (obligatory since 2017)
- Feeds directly into several active labour market policy measures
- Main data source for career counselling service providers
- OSKA main findings presented to Government of Estonia every year
- Ad hoc OSKA studies for policy input (sectoral ICT skills; green skills; business and management education; Labour market effects of Covid)
- Fair transition measures, green skills
- For up- and re-skilling measures
- For popularizing growth occupations
- As background and source information for adjusting sectoral strategies

## The skills system of Estonia (developed from 2022)



#### **Occupation profiles**

- Based on OSKA studies, qualifications standards, etc.
- Profiles include
  - Description, main tasks
  - Working conditions
  - Minimum requirements (education, language etc.)
  - Knowledge and skills needed



## E-environment for (self) assessment

- User can mark what skills they already have and what they wants or needs to learn
  - Self-assessment
  - System based recommendations from prior education
  - Learning possibilities

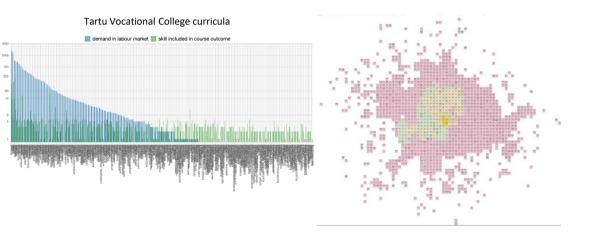


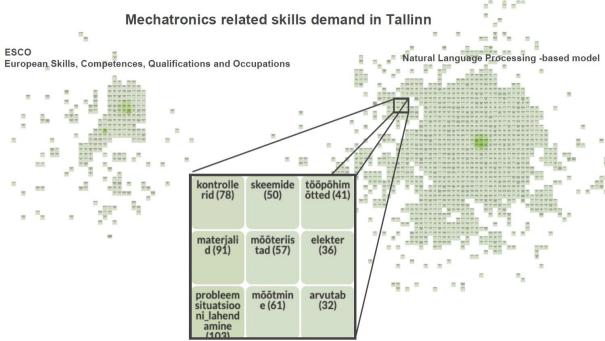
#### OsKus web will bring skills and occupations together

- Matching people to jobs based on the skills they have
- Recommending skills to learn to get jobs what people want
- Advising people on the future outlook of the jobs they want to learn skills for
- Advising how should the skills be obtained in/as degree programs, micro qualifications or short courses
- Directing people to apply to best fitting programs



#### Automation via AI – first pilot project in cooperation with Head AI (2019) The useful failure





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