education estonia

Estonia. Smart solutions for education innovation

Estonia

+ population: 1.3 million

+ 45,339 km2

+ EU, NATO member (since 2004)

+ 99% of public services online



Estonian students rank #1 in Europe (PISA 2018)



in the world in science



in the world in reading



≈ 1.5 times more top performersvs OECD average



≈ 2 times lesslow performersvs OECD average



in the world in math

Education has been highly valued through generations

1918–1940 Estonian Republic

Start of the Estonian national education system. From 1920 compulsory and free education for 6 grades.

1991 Republic of Estonia

The modernisation of Estonian education begins.

Before 1918

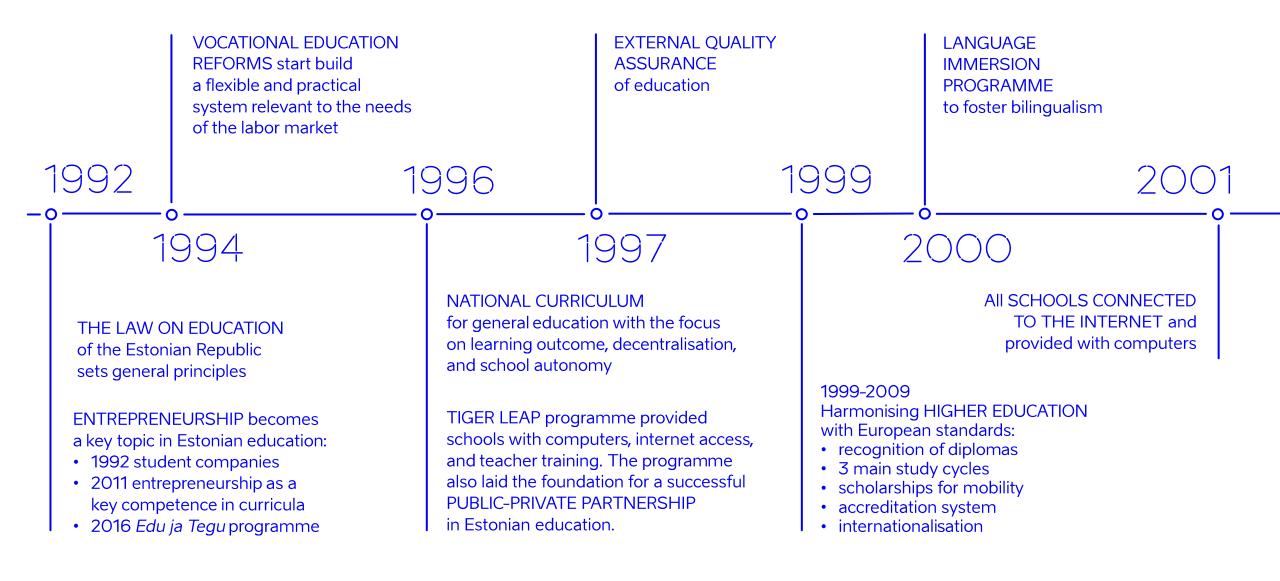
Under Danish, Swedish, German, Russian rule

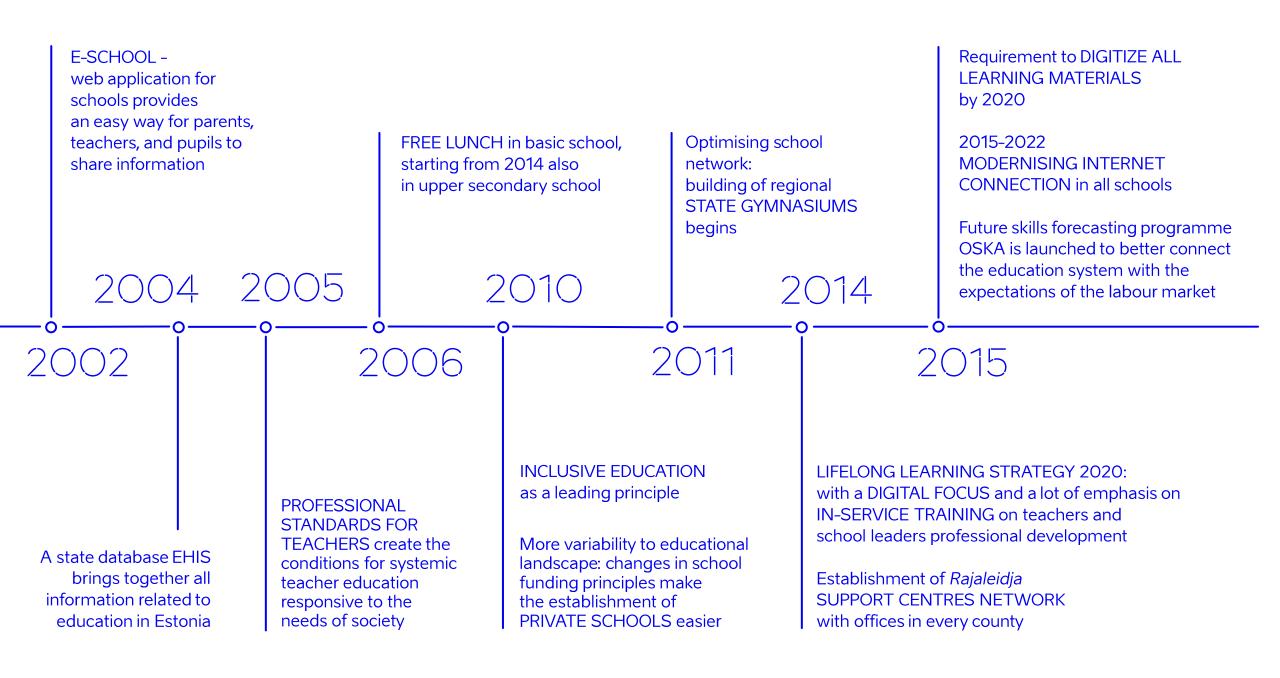
13th c. First monastic schools
17th c. Schools for peasant children
1860-70s Compulsory school
1881 Literacy rate 94%

1944-1991 Soviet Occupation

Estonia managed to maintain high-quality teaching and learning in Estonian.

Restart of the education system





Everyone has the right for a high quality education

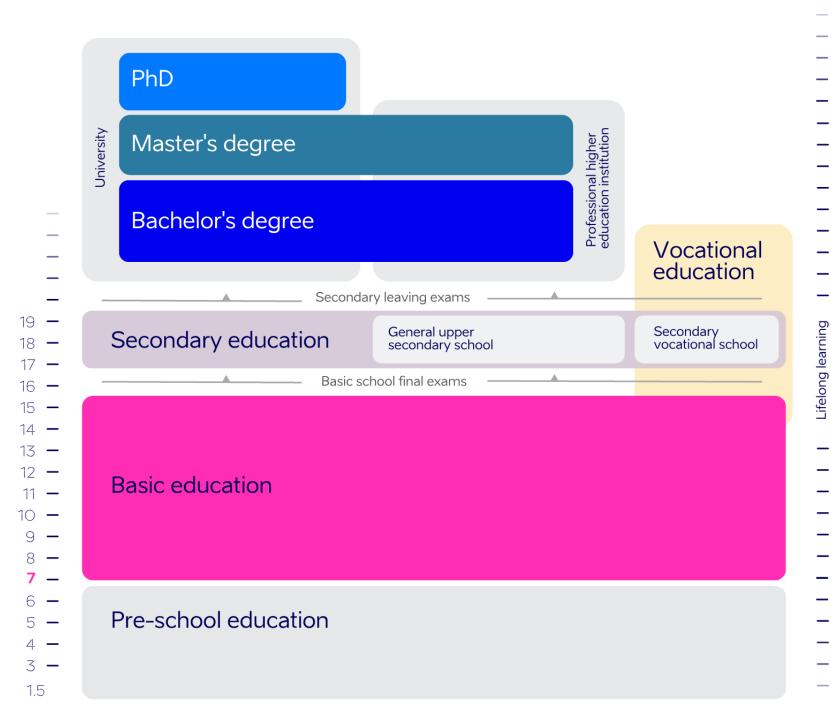
 + In Estonia, student's socio-economic background has a low impact on performance (6.2 % of variation compared to 12% in OECD)

Estonian education today

General education:

- + 169 111 students
- + 16 942 teachers

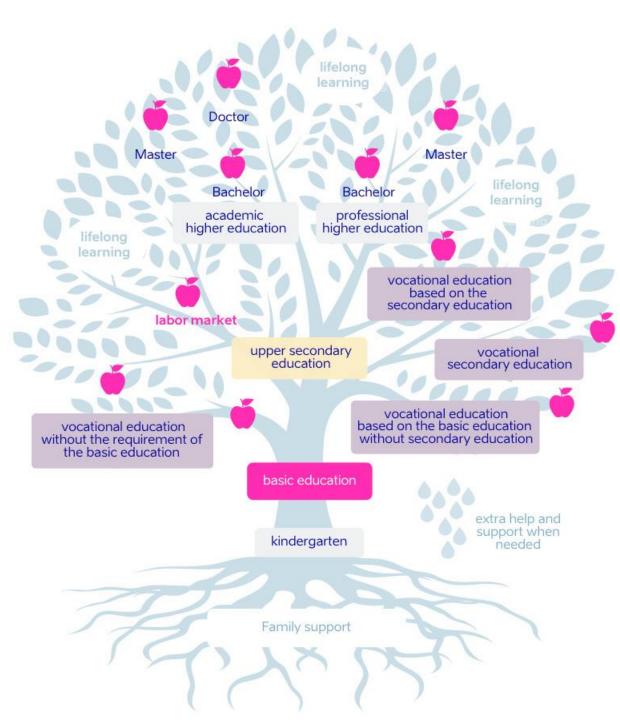
+ 514 schools



Preschool: preparing for school

- + 94% of 4-6-year children attend kindergarten, though this is not compulsory in Estonia
- + Curriculum-based learning outcomes are achieved by learning-through-play method

The strength of the tree depends on its roots



No matter which path you have started on, you have the possibility to move on from one branch to another.

Characteristics of Estonian education

- + TEACHERS ARE HIGHLY EDUCATED. A teaching qualification requires the completion of a Master's degree.
- + Schools, principals and teachers have A LOT OF AUTONOMY.
- + Estonia has successfully implemented an INCLUSIVE EDUCATION SYSTEM. Students with different abilities study together.
- + All students are entitled for free SPECIAL SUPPORT by psychologists, speech therapists at school or at the counselling centres found in every county.

- + EXTERNAL EVALUATION of learning outcomes gives valuable feedback.
- + EDUCATION IS FREE-OF-CHARGE from basic to the higher education. School meals, textbooks, and transit are free for all students.
- + HOBBY EDUCATION offers wide opportunities for self-development in music, sports, art, technology, etc.
- + STRATEGIC PLANNING, involving important stakeholders, is a crucial element of Estonia's education system.

Preparing for the information society



of schools use e-diaries



in media literacy Media Literacy Index 2022



in digital learning CEPS 2019



of Estonian kindergartens take part in technology education programme ProgeTiger



of students study ICT in Estonia – twice as many as EU average Eurostat 2018



of ICT university students are female — this is highest share in Europe Informatics Europe 2020

Technology opens up new possibilities

- + The Tiger Leap programme in the 1990s provided schools with INTERNET CONNECTIONS, COMPUTERS, and IT TRAININGS.
- + For the evidence-based decisions, the EDUCATIONAL DATA is publicly accessible on the internet.
- + DIGITAL LEARNING MATERIALS are available for all subjects and across all educational levels.

- + DIGITAL COMPETENCE is set in curriculum as a general competence.
- + Educational programmes create INTEREST IN TECHNOLOGY from kindergarten to university.
- + All schools in Estonia use E-SOLUTIONS.
- + Many schools and kindergartens have EDUCATIONAL TECHNOLOGISTS

 technology integration specialists to support teachers.

Digital solutions are in everyday use

- + E-diaries for schools and kindergartens: Eliis, eKool, Stuudium
- + Digital learning materials and platforms: e-Schoolbag, OPIQ
- + Student admission systems: DreamApply, SAIS
- + Examination Infosystem EIS for digital tests
- + Estonian Education Infosystem EHIS
- + HarID user administration system etc

2020: crisis as an opportunity

+ Technological advantages were a key during the pandemic

+ Use of e-services increased severalfold

+ Digital skills of teachers, students and parents improved

+ Different sectors cooperated effectively

Youth work and hobby education offer more possibilities

- + 80% of the 7-19 year olds participate in hobby education or hobby activities
- + 90% of youth are satisfied with youth work and extracurricular activities (2020)

Vocational education: ensuring essential skills

- + VOCATIONAL EDUCATION is free-of-charge for everybody and has flexible forms of studies.
- + The state has special project (OSKA) to ANALYSE THE LABOUR MARKET to find out what skills are needed in the future.

- + Close COOPERATION WITH THE PRIVATE SECTOR provides students real workplace experience during their studies.
- + Moving from vocational education to higher education and vice versa is becoming increasingly popular.

Internationally acknowledged higher education

- + Estonian universities rank high in prestigious ranking systems such as THE and QS
- + Innovative study programmes: e-governance, cybersecurity etc
- + Student projects from self-driving car to space satelliite
- + Over 150 degree programmes fully taught in English, in 11 internationally accredited universities

Lifelong learning has become a lifestyle in Estonia

+ Estonians within the 25-64 age group actively participate in learning at almost double the rate of the EU average (17.1% vs 9.2% in 2020). We truly think that the best thing we can give to our children is not land, house or a bank account, but good education.

Aitäh!



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