WELCOME TO TALLINN UNIVERSITY
HISTORY
Established 18.03.2005 by the Estonian Parliament by merging:

- Tallinn Pedagogical University
- Institute of Ecology
- Institute of Estonian Demography
- Institute of International and Social Studies
- Institute of History
- Tallinn Pedagogical College
- Baltic Film and Media School
- Estonian Institute of Humanities
- Academy Nord
- Estonian Institute of Future Studies
- Estonian Institute of Future Studies
- Estonian Archive Museum of Pedagogy
- The Academic Library of Estonia
UNIVERSITY CRISIS - TLU EXAMPLE

1. The budget was not increasing, but the maintenance costs were constantly increasing. Revenues for 2014 - 33,4 M€, expenses 37,7 M€.

2. No tuition fees since 2014.

3. Inefficient teaching: 136 study programmes, 1369 different courses (some for several groups) in 2014.

4. Minimal salaries: lecturer - 775€, associate professor - 1050€, professor - 1405€ (Minimal salaries in secondary schools were - 900€).

5. Teaching load was very high, not enough time for R&D.

6. Average age of academic staff was increasing.
TALLINN UNIVERSITY
FOCUS FIELDS
THE DEVELOPMENT PLAN FOR 2015-2020

- Educational innovation
- Digital and media culture
- Cultural competences
- Healthy and sustainable lifestyle
- Society and open governance
SINCE 01.09.2015
1 - School of Humanities

- Estonian Institute of Humanities
- Catherine’s College
- Institute of Estonian Language and Culture
- Institute of Germanic and Romance Language and Cultures
- Institute of Slavonic Language and Cultures
School of Natural Sciences and Health

- Institute of Ecology
- Institute of Mathematics and Natural Sciences (except Dep. of Mathematics)
- Institute of Health Sciences and Sports
- Institute of Psychology
School of Digital Technologies
- Institute of Informatics
- Institute of Information Sciences
- Department of Mathematics
- Baltic Film and Media School
- Institute of Fine Arts
- Institute of Communication
School of Educational Sciences
- Institute of Educational Sciences
- Pedagogical College
- Center for Innovation in Education
School of Governance, Law and Society

- Estonian Institute of Future Studies
- Estonian Institute of Population Studies
- Institute of International and Social Studies
- Institute of Political Science and Governance
- Law School
- Institute of Social Work
FINANCING OF THE SCHOOLS

1. Financing of schools will motivate reducing teaching: 75% of the budget from previous year + 15% by achievements + 10% new initiatives.

2. Schools will rent the rooms from the university central administration: 3 or 9 €/month for 1 m².

3. For motivating R&D and offering continuing education: no (zero) overhead to the central administration.

4. There are university supported centers of excellence in each focus field.
SCHOOL OF DIGITAL TECHNOLOGIES

Priority academic areas:

- Applied Informatics (head: prof Peeter Normak)
- Digital Learning Ecosystems/Educ. Technology (senior researcher Kai Pata)
- Human-Computer Interaction (prof David Lamas)
- Information Sciences (prof Sirje Virkus)
- Mathematics and Didactics of Mathematics (assoc prof Madis Lepik)
SCHOOL OF DIGITAL TECHNOLOGIES

Research Center (A-317): Center for Educational Technology (senior researcher Kairit Tammets)

Laboratories:
1) Interaction Design & User Experience (A-433, A-422),
2) Software Development (A-302, A-303),
3) Virtual Reality and Games (A-421),
4) Technology (A-440).
BACHELOR LEVEL CURRICULA

- Informatics (focus on software engineering)
- Information Sciences
- Mathematics
MASTER LEVEL CURRICULA (EE)

- Information Sciences
- Management of Information Technology
- Educational Technology
- Teacher of Mathematics
- Teacher of Informatics, School IT Manager
MASTER LEVEL CURRICULA (EN)

- Human-Computer Interaction
- Digital Learning Games
- Open Society Technologies
MASTER LEVEL CURRICULA (EN, JOINT)

- Digital Library Learning - jointly with University of Parma (Italy)
- Interaction Design - jointly with Cyprus University of Technology
DOCTORAL LEVEL CURRICULUM (EN)

- Information Society Technologies
# International Evaluation in CS

<table>
<thead>
<tr>
<th>University</th>
<th>No of Strengths</th>
<th>Areas of improvement and recommendations</th>
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</thead>
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<tr>
<td>Tallinn University of Technology</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>University of Tartu</td>
<td>5</td>
<td>11</td>
</tr>
<tr>
<td>Tallinn University</td>
<td>6</td>
<td>8</td>
</tr>
</tbody>
</table>

Self-Evaluation Report:  

Expert Report:  
EXAMPLE OF A CHALLENGE

Development and implementation of a conception of Industry based university education.
COOPERATION WITH THE INDUSTRY (POLICY LEVEL)

1. Companies are represented in the council of the school.

2. The school represents the university in *Estonian Association of Information Technology and Telecommunications (ITL)*.

3. The school is represented in *Information Technology and Telecommunications qualifications committee* (skills council) of *Estonian Qualifications Authority*.

4. Participation in the development of a 2020 vision for Estonia in IT.

INVOLVEMENT OF COMPANIES (CURRICULUM DEVELOPMENT)

1. Involvement in initial curriculum development.
2. Companies are represented in curriculum councils.
3. Feedback from the companies (examples):
   - Questionnaires (to the graduates and to their bosses)
   - Seminars in the companies (one seminar a week).
4. Companies are always represented in graduation committees.
5. Companies are always represented in accreditation committees.
IN Volvement of Companies (Teaching)

1. Examples of courses completely taught by industry experts:
   - ICT Strategic Management
   - IT Operations and Management
   - Agile Software Development

2. Examples of courses where some topics are taught by industry experts:
   - Development of Infrastructure of IT
   - ICT Procurements and Contracts
   - Programming of Applications

3. Experts from the industry are also used as (co-)supervisors and theses reviewers.

4. Seminars in the companies.
SOME CURRENT AND RECENT R&D PROJECTS

- Estonian Ministry of Foreign Affairs ordered project „The implementation of the IT-related master’s curriculum in the IT Department at Kabul University in 2016-2018, and a training programme in Estonia for state officials responsible for the development of higher education in Afghanistan”

- Service agreement „Piloting the European Framework for Digitally-Competent Schools in EU education systems”

- EU Lifelong Learning programme Comenius project SiLang (“Serious Games in Language Learning”)
EXAMPLE: GENERAL PRINCIPLES OF STUDY PROGRAMMES FOR KU

- The structure and composition of curricula correspond to general frameworks of university curricula suggested by relevant international organizations. This would ensure coherence with international university degrees and facilitate students’ mobility (taking courses in foreign universities).

- The curricula takes into account the expertise of academic staff currently employed by Kabul University. This would lower the risks of decreasing teaching quality and ensure smooth transition to the new curricula.

- Implementation of the new curricula is economically and administratively affordable.
LARGEST RECENT R&D PROJECT

EU 7th FW large-scale integrated ICT project

Learning Layers (“Scaling up Technologies for Informal Learning in SME Clusters”).

Partners from ES, AT, UK, DE, FI, NO - in total 15 partners;

Budget: 12 M€ (9,9M€ from EU)

Duration: 2012-2016

Web: http://learning-layers.eu/
EXAMPLES OF DEVELOPED SOFTWARE

- Digital LMS’s - Krihvel, ViKo, IVA, Dippler
- Authoring systems of learning objects - LeMill
- Services supporting learning and teaching - DiPo, Edufeedr, LePress, LeContract
- Educational portals - Koolielu
- Other - VAKO, Waramu, Digimina, ...
CONFERENCES 2017

- GAAD (Global Accessibility Awareness Day, 18.05).
- E-Vent (Tallinn University Digital Innovation Day, 24.05, http://htk.tlu.ee/event/)
- WUD (World Usability Day, 16.11).
- MTSR 2017 (11th International Conference on Metadata and Semantics Research, 28.11-1.12).
International research evaluation in educational sciences (2013): “The Panel thought especially notable the high quality, originality and international significance of the publications emanating from the Centre for Educational Technology ... ”.

Expert assessment (2014): “This team is very active in the European landscape and recognized as an important actor ... . They have the potential to become a leading team in Europe”.

THANK YOU!

PEETER NORMAK

peeter.normak@tlu.ee