# TALLINN UNIVERSITY OF

### TTÜ in numbers

- Appr. 12 000 students (25% of all students in Estonia study at TTÜ)
- 4 faculties (2017)
- 2015/2016 1/3 study programmes in English
- ~2000 graduates each year, 2000 employees
- TTÜ is the most preferred university 72% of high school graduates in Estonia prefer TTÜ for continuing their studies
- 1900 international students from 99 countries (incl. degree and exchange students) 40% of all international students in Estonia
- Over 500 partner universities
- 4 university-business agreements per week
- 6.2% of university's revenue comes from cooperation with companies

#### **TTÜ Innovation and Business Centre Mektory**

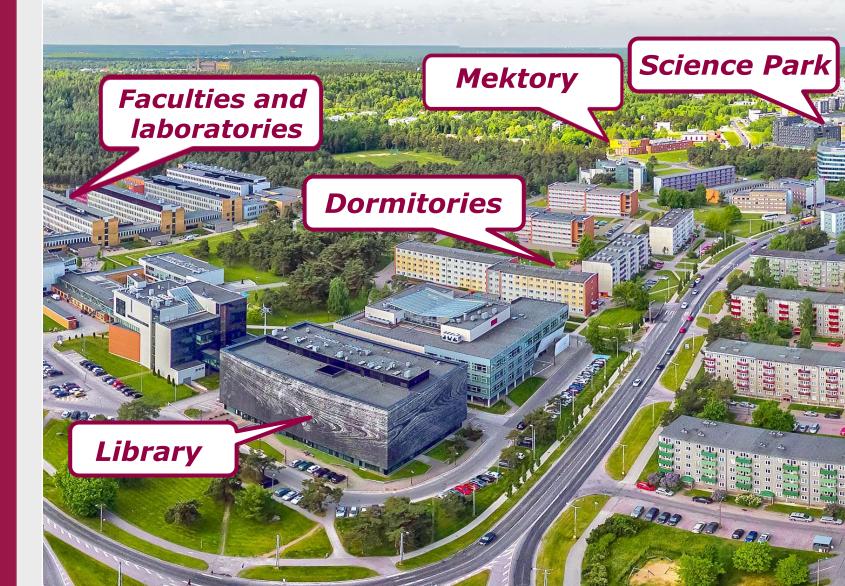
- Over 200,000 visitors from near 160 countries
- 110 companies, 8 embassies







### TTÜ – campus university





### **Innovation and Business Centre Mektory's services**

- Technology transfer
   R&D Contracts
   University Participation policy
   Consulting
   University Participation policy
  - Mektory Centre as a networking venue
  - Popularizing engineering among youth
  - Start-up ecosystem (programmes)
  - EducationUSA Advising Centre





Inter-

university

cooperation

### **Technology Transfer**

## Technology transfer is responsible for long term partnership between the university and companies

- R&D: Projects, lab services, consultations, surveys, analyses, long and short-term contracts;
- Project Management: Preparation of project applications, consultation, administration;
- Spin offs and start-ups: Support in creating a spin off/start-up
- Consulting: expert advises, programme development, content marketing, network building, technology review/audit;
- Intellectual property: Commercialisation, funding opportunities, matching researchers with the needs of companies.

6.2% of university revenues come from R&D contracts with companies



### Cooperation with: ERICSSON ≶

- **R&D projects** 3-5 up to 10 years
- TTÜ Mektory projects with students max 1 year
- TTÜ Mektory building Ericsson demo-centre, 4G, 3G, WIFI testing ground
- Studies/education Lectures, developing degree programmes, educational programmes for entrepreneurs
- Lab investments
- Activities and events with students Conferences, job shadow days, students join Ericsson's internal career fairs, company tours, brain-storming evenings
- Technology trainee programm 8-month internship with salary for most talented students
- Internship of scientists Scientists work part-time at Ericsson
- Entrepreneurship competitions for school children

### 



## TUT Innovation and Business Centre

# MEKTORY

#### MODERN ESTONIAN KNOWLEDGE TRANSFER ORGANIZATION FOR YOU



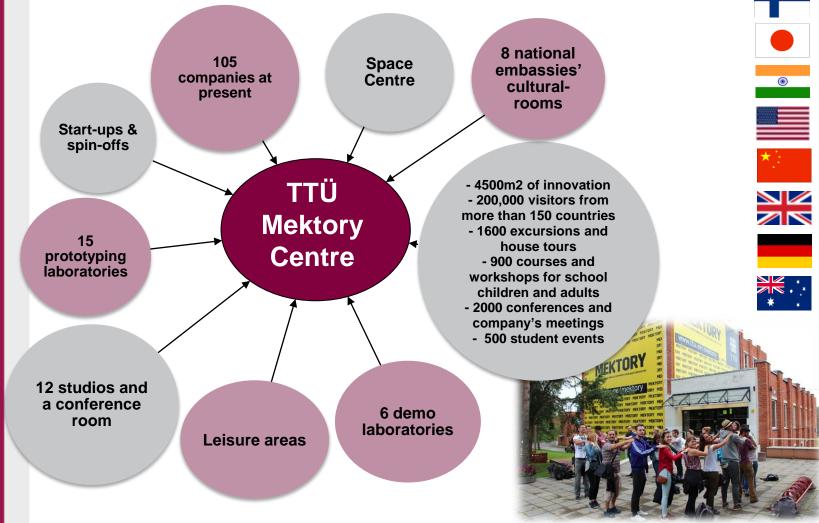
### Five aims of TTÜ Mektory

- To bring together scientists, students and entrepreneurs, to solve practical product development problems and generate new intelligent ideas (technology transfer)
- To maximize theoretical studies at the university through practice, to prepare better-trained engineers with experience in cooperating with companies (*labs, practical side of the studies*)
- To encourage students *start-up companies* to move forward
- To address upcoming generations and show that engineering is exciting, feasible and down to earth (School of Technology)
- To guarantee success in internationalization by bringing together different cultures, working habits, ideas and interesting solutions

#### Mektory – a way of thinking!

### TTÜ Innovation and Business Centre Mektory

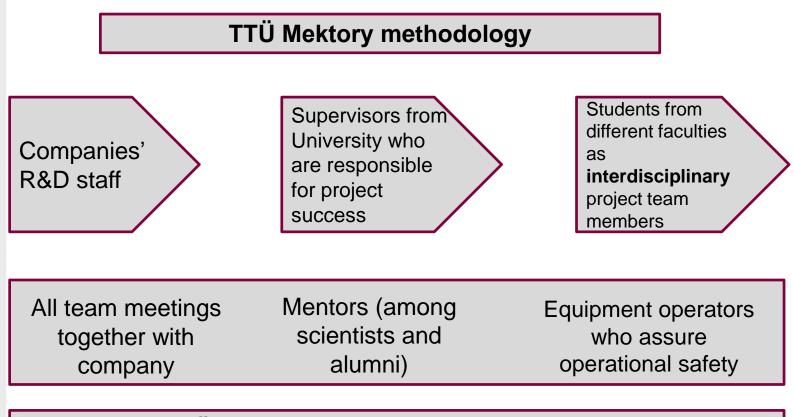
Modern Estonian Knowledge Transfer Organisation for You International innovative ecosystem, where businesses, students, professors, schoolchildren and investors from all over the world meet to generate new ideas and innovation together as one team.





### The first aim: technology transfer

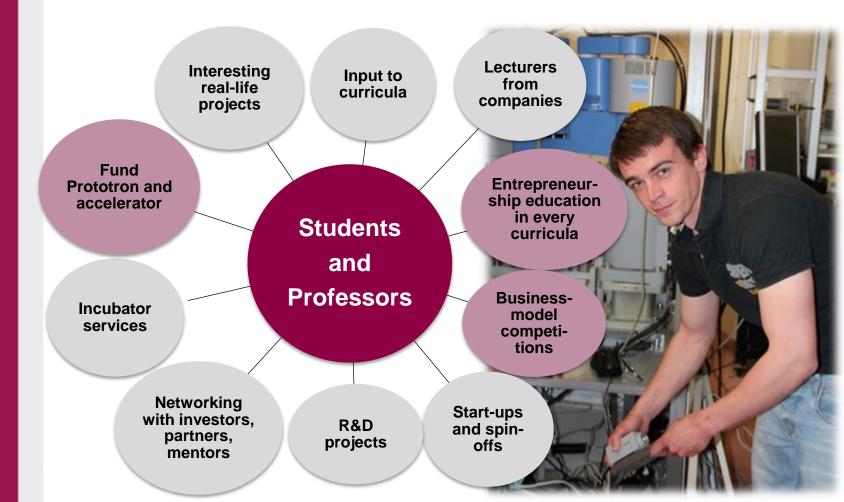
To bring together scientists, students and entrepreneurs; solve practical product development problems and generate new intelligent ideas!



Outcome – TTÜ Mektory's R&D project finished in 4 to 8 months At least 30 projects every year

## The second and the third aim: support student activities

- To tie theoretical studies at the University with the practical side
- To prepare better-trained engineers with an experience of cooperation with companies.
- To encourage student's start-up companies and professor's spin-offs to move forward



### **Studios and labs in TTÜ Mektory**

#### Studios and demo centres

- Samsung Digital Academy
- Ericsson Connectivity Room
- Ventilation lab "Club Fresh Air"
- Logistics lab
- Business models
- Glass Studio
- Energy Studio

#### Prototyping and testing labs

- Wood lab, metal lab
- Welding lab, paint lab
- Automaticum, elecronics lab
- Mechatronics lab, Cool Tool studio
- 3D Printing Innovation Lab
- Telia Testlab
- LEGO lab "Playful learning"
- Smart Lab
- Virtual reality lab "Re:Creation"
- eHealth lab, eRiik
- Space Centre
- Heating lab "Utilitas"





#### **TTU Mektory Start-up Programs**



#### Youth Start-up Program "Bright Minds"

- Target group: all students from middle and high-schools all over Estonia
- Skills and knowledge of the start up world for students and their teachers
- No age limitations for participating
- Ideas preferrably in STEM fields (science, engineering, tehnology, mathematics)
- 800 students and 70 teachers from 10 counties has taken took part in Bright Minds program in 2 years!
- Bright Minds program starts again in November 2017

#### Pre-incubation Program

• Target group: all students from Universities, Applied Science Universities, Vocational Schools

•Trainings, lectures and workshops for 4 months

•e-courses on Youtube.com and live on Facebook

•Financed by EU Funds

• Mentoring Days, coaching

• Evaluation of the development process

Special trainings for
developed startup teams
Started again in February

2017
Demo Day 25th of May
NGAL3 first time in TTÜ in June 2017

#### Start-up Competitions

- Target group: all start-up ideas and teams (students and graduates)
- Technology oriented ideas
- 7 competitions in five years
- International 26 different nationalities
- More than 200 business ideas
- Over 1000 participants
- Mentoring and coaches
- Business Angels and Investors and mentors in Jury
- **Prizes** like room in Mektory, Study Trips
- Next competiton in December 2017

#### Incubation activities

- Target group: start-up teams from the competition or preincubation
- Up to **30 start-up companies** supported
- Office in Mektory building
- Participation in trainings and lectures
- Supporting activities (meeting rooms, technical support, advice)
- Finding and bringing investors, funds, projects to meet start-up teams
- Possibility to mentor, coach and train others – students, school children and teachers
- Link between accelerators and incubators

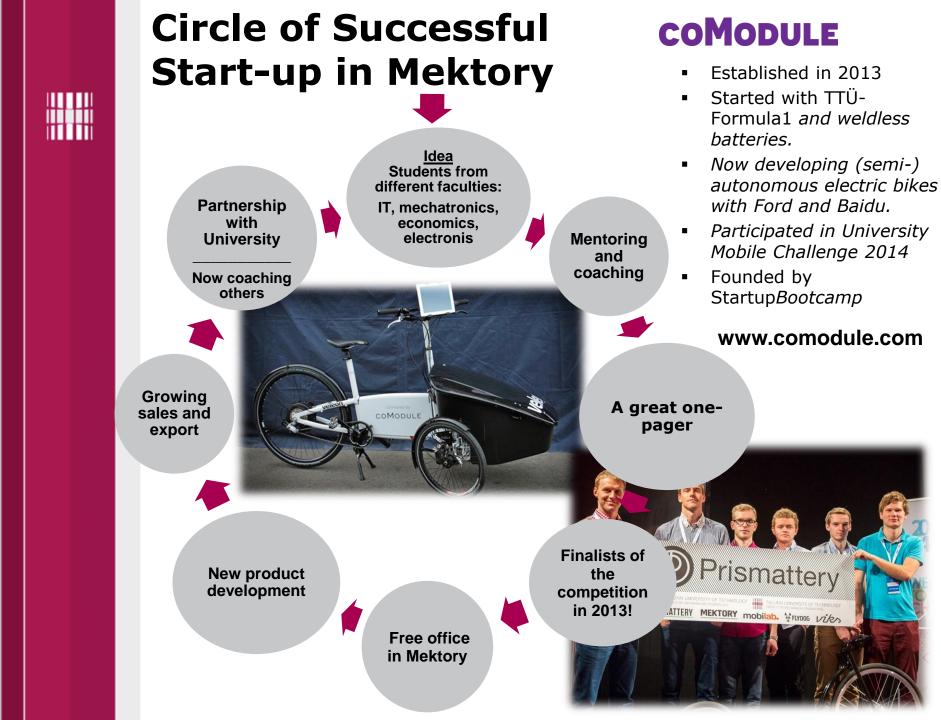














## sls

Smart Load Solutions - winner of 2014 Already raised seed investments Top 30 under 30 - Forbes



3DPrinterOS - winner of 2012 Invested in by Paul Allen (Microsoft) 20+ workers in Estonia and USA

#### COMODULE

CoModule/Prismattery - finalist of 2013 Raised investment 8 workers



**Mektory Start-up Success Stories** 

#### Lainergy

Lainergy - finalist of 2015 Winner - KIC InnoEnergy Highway® 10 000€ Prize



www.leansiteapp.com

Leansite - finalist of 2015 Project management software for construction sites Startup Wise Guys Accelerator 30 000€ investment



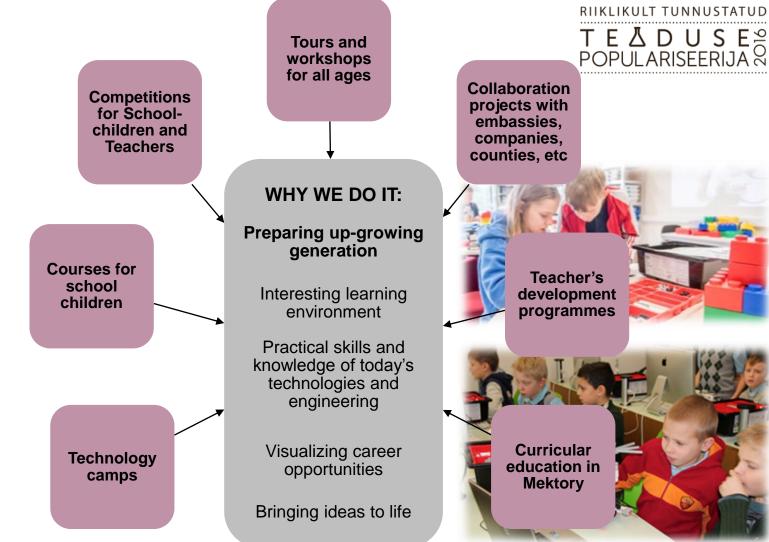
FORBES TOP 30 list of most successful young entrepreneurs in Europe 2016 (2 are from EST/TTU/Mektory)



# The fourth aim: activities for school-children and teachers



To support the up-growing generations and school teachers: to show that engineering is exciting, feasible and down to earth; to prepare entrepreneurial and ambitious future students.



### TTÜ Mektory supporters and partners (1)







## More information:





#### Start-ups in TTU Mektory: Anu Oks Start-up program manager anu.oks@ttu.ee, +372 620 3497

www.ttu.ee/innovation www.ttu.ee/mektory www.ttu.ee/startup

Waiting forward bringing new innovative ideas into life!