

# Health analytics education in TTÜ

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# The project

- Development and piloting of Health analytics education program
- May 2017 – December 2018
- Participants
  - The Finnish Innovation Fund Sitra
  - Satakunta University of Applied Sciences
  - Tallinn University of Technology
  - Pori unit of Tampere University of Technology



# Health Analytics education pilot

- Part of a wider project funded by Sitra aiming at deepening the awareness and understanding of **tools and methods in health analytics**, and their **applicability** in developing healthcare services to become more **driven by costumers**
- **Common pilot curriculum** for Estonian and Finnish students



# Goals of the curriculum

- Deepen analytic and technology competences in order to improve the usage of **health care data** in service deliveries
- Enhance innovation, change and project management skills
- Deepen the know-how of the opportunities brought by IT to activate and **involve the customer** in the service system
- Assess the potential of establishing a health analysts role in future health services



# Students

- 10 students from Finland and 5 students from Estonia
- Diverse backgrounds
  - Nurses
  - IT-specialists
  - Medical physicist
- Motivation
  - „... get more information about digital applications etc. and overall all development of the health care field“*
  - „I expect to learn health data manipulation (analysis, interpretation, visualization, prognosis)“*
  - „I am very interesting about this subject. I think that it is future“*



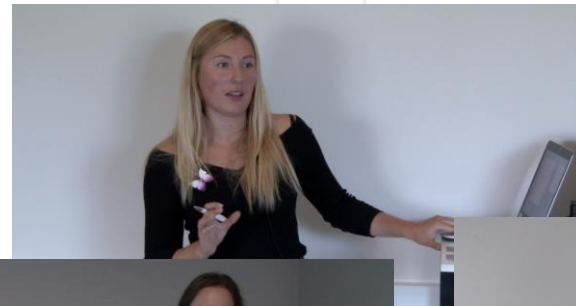
# Curriculum

- Consists of 50 ECTS, which are divided to 30 ECTS theoretical studies and 20 ECTS of analysts work in healthcare organisations
  1. eHealth and telemedicine, 10 ECTS
  2. Decision support in healthcare, 5 ECTS
  3. Statistical analysis and decision support technologies in CDS systems, 5 ECTS
  4. Client involvements and smart services, 5 ECTS
  5. Service design and case management, 5 ECTS
  6. Piloting decision support systems in health services, 20 ECTS



# Curriculum set-up

- E-learning platform in SAMK moodle
  - Weekly videos
  - Home reading materials
- Seminars
- Study visits
- Tasks





# Study visit in Estonia

- Health Coaching Workshop
- Tallinn Health Care College Simulation Centre
- Estonian Genome Center
- TASKU Medical Center







# Collecting your own data

- Three pre-defined data collection forms and free choice
  - Health declaration
  - epSOS data set
  - Gene donor questionnaire
  - Different wearables, weight scales etc
- Even with the best intentions...



# Feedback to eHealth and Telemedicine course

- Most useful topics
  - New models of care
  - Health 1.0 -> 4.0
  - Evaluation methods of telemedicine
  - Data analytics
- Want to know more about
  - Interconnections between health databases
  - International aspects
  - Data analytics



# Future of health analytics in TTÜ

- Scenarios
  1. New health analytics module in an existing Health Care Technology course
  2. New course to Health Care Technology master's program
  3. New specialization to Health Care Technology master's program
  4. New one-year master's program

