

# IT Academy Research Programme

Jaak Vilo

# ICT industry in Estonia in numbers

~ 32 000 employees, grows by > 1200 per year

~1.5B exports, 800M netto exports

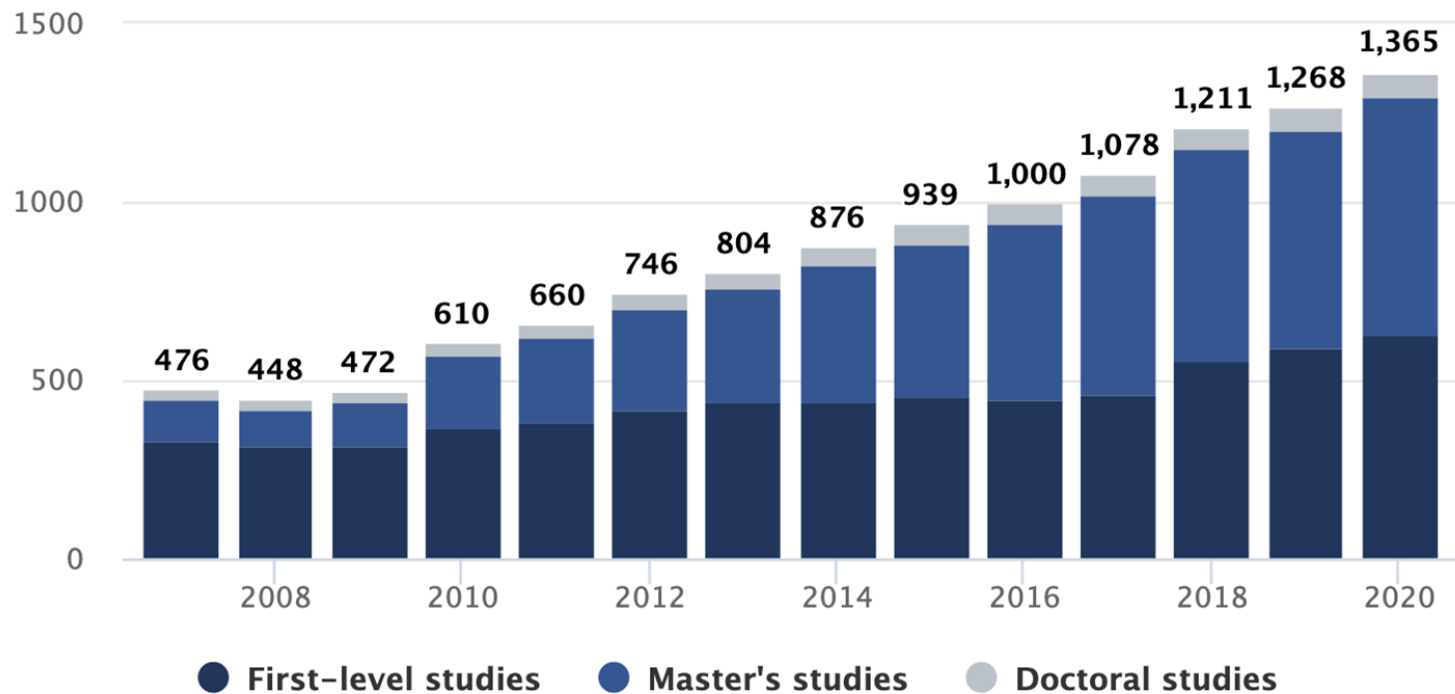
25 000 eur per employee per annum

- IT sector does over 50% of company R&D

**~ Need for skilled staff, new technologies, deep tech capability**

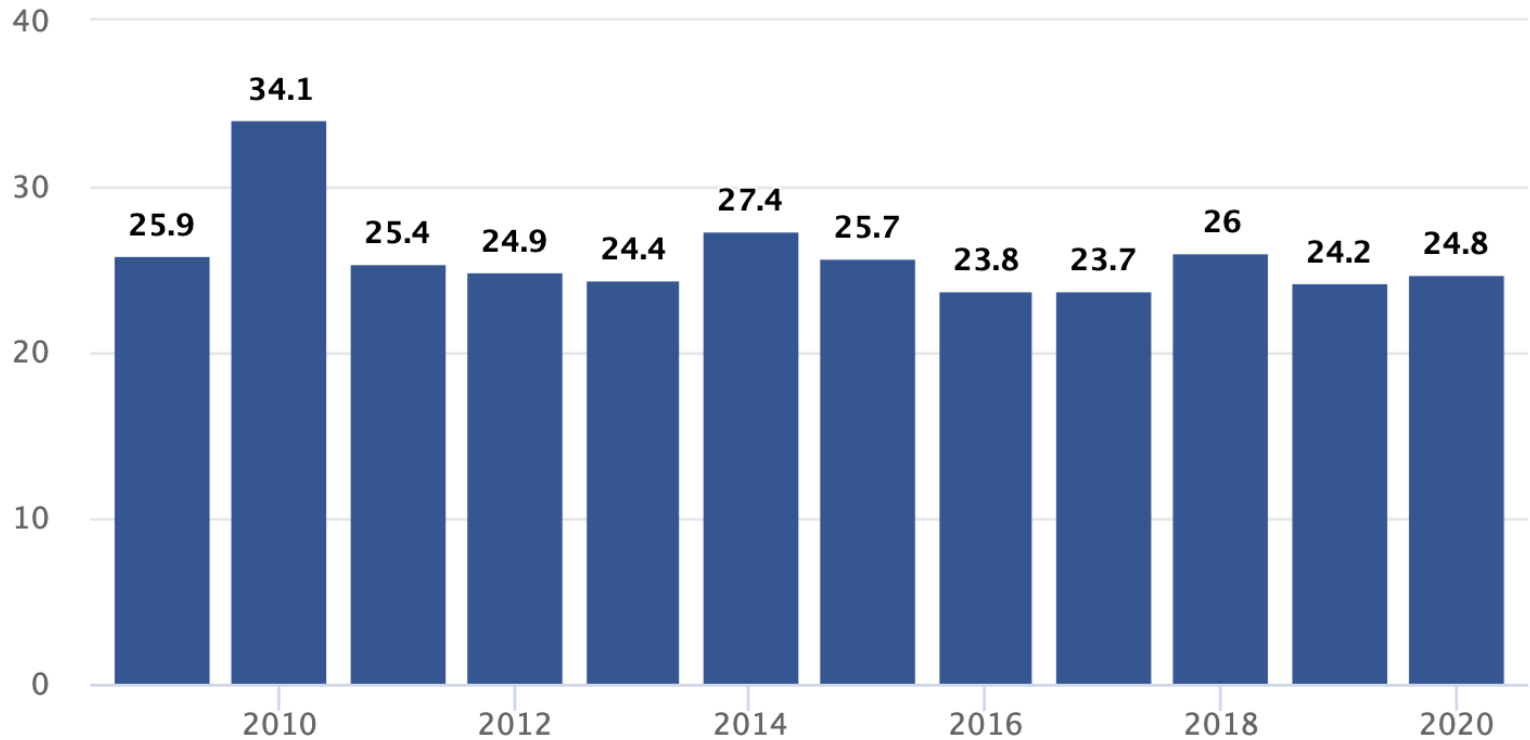
## Number of students by study level

International students only



# Number of students per teaching staff

Teaching staff  Research staff



# ICT R&D programme - aims

## **Need for more academic staff**

Government ICT research varies from <4% to 12%

## **Strengthen ICT research in chosen areas**

proposed by universities and companies

## **Build capacity and capability to collaborate with companies**

Tartu University

**Big Data, sec.**

Riccardo Tommasini  
Feras Awaysheh  
Ulrich Norbistrath  
Arnis Paršovs  
Kuldar Taveter  
Syed Shah  
Toomas Krips

**AI & ML**

Raivo Kolde  
Anna Aljanaki  
Stefania Tomasiello  
Kallol Roy  
Jaan Aru  
Victor Pinheiro

**Robots, IoT, ...**

Arun Singh (I. of Tech)  
  
Huber Flores  
Naveed Muhammed  
  
Mozhgan Pourmoradnasseri  
  
Kavekh Khoskhah

**+ ca 30 PhD students**

## 10.45 Andmeteadus ja suurandmed

- **Jaak Vilo**, TÜ arvutiteaduse instituudi andmeteaduse õppetooli juhataja, bioinformaatika professor – sissejuhatus teemasse;
- **Kuldar Taveter**, TÜ arvutiteaduse instituudi tarkvaratehnika õppetooli juhataja, infosüsteemide kaasprofessor – “Why is the theory of constructed emotion relevant in computer science?”
- **Feras Mahmoud Naji Alwaysheh**, Tartu ülikooli arvutiteaduse instituudi serva-andmeanalüütika lektor – “The Next Big Thing in Big Data: Edge Intelligence”
- **Ulrich Norbistrath**, TÜ arvutiteaduse instituudi tarkvaratehnika kaasprofessor – “Bridging Virtual and Physical”.