



CELEBRATING  
**25 YEARS**  
OF ACHIEVEMENTS



# ICT for Empowering Women

**Assoc. prof. Danguole Rutkauskiene**

Head of Young Computer User's School at Kaunas University of Technology

Head of „School Communities“ Working group at National Digital Coalition, Lithuania

26 April 2017, Vilnius



# Dr. Danguole Rutkauskiene - CV

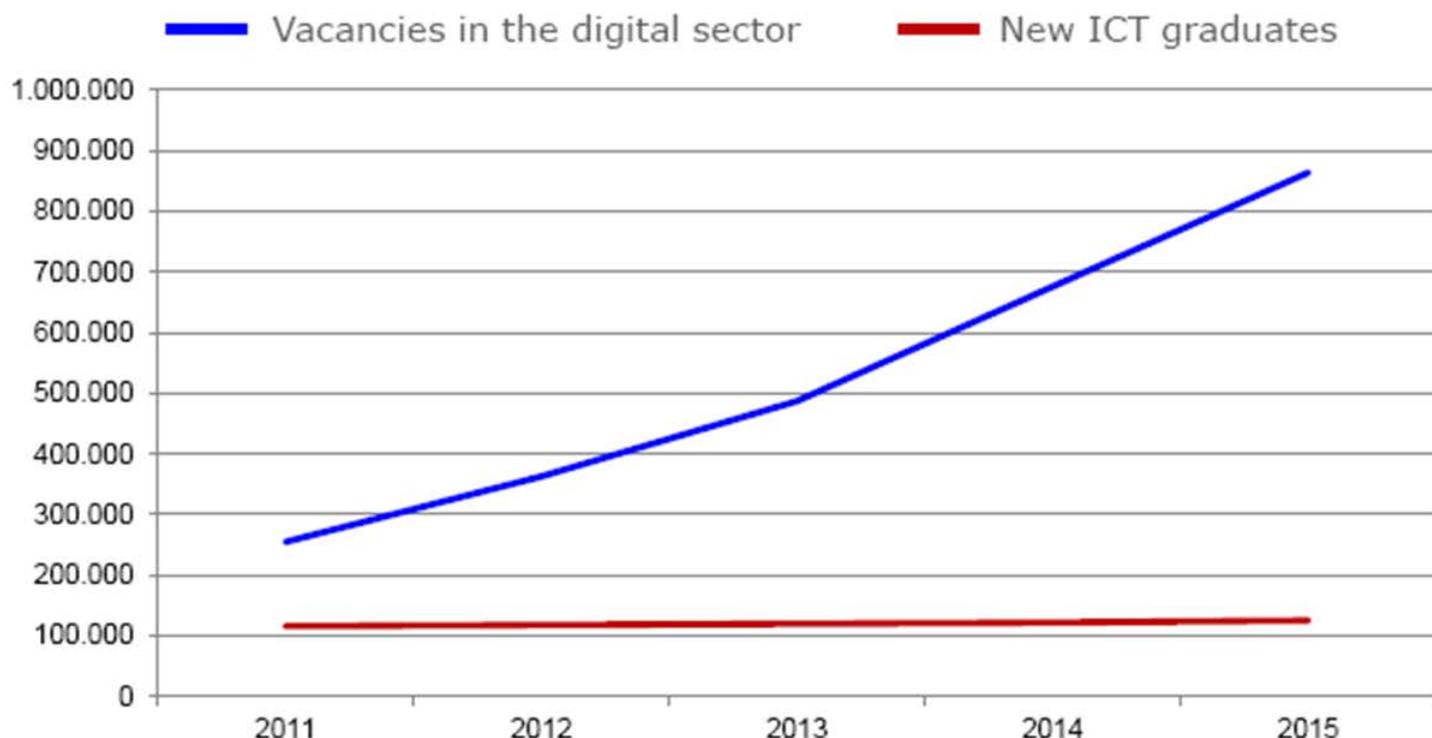
- President of National Association of Distance Education (Lithuania)
- **Member of Teacher Academy Pedagogical Advisory Board at School Education Gateway**
- Member of Management Committee of EADTU (European Association of Distance Teaching Universities)
- Member of WITSA Committee on Education, Training and Human Resources
- **Task Force Leader of “School Communities” at National Digital Coalition**
- **High-level Advisory Committee member at The European Centre for Women and Technology (ECWT)**
- Steering Committee Member of INPUT association
- Member of INFOBALT Association (vice-President 2011-2013)
- Member of Steering Committee of EDEN (European Distance Education Network)(2005-2010)
- Member of WB GDLN (World Bank, the Global Development Learning Network)
- Member of “Knowledge Society Board” at President of the Republic of Lithuania (2001-2003)

Participated in more than 80 international projects, wrote 30 books and more than 180 articles

# The example of the ICT sector

## Digital jobs: vacancies and graduates\*

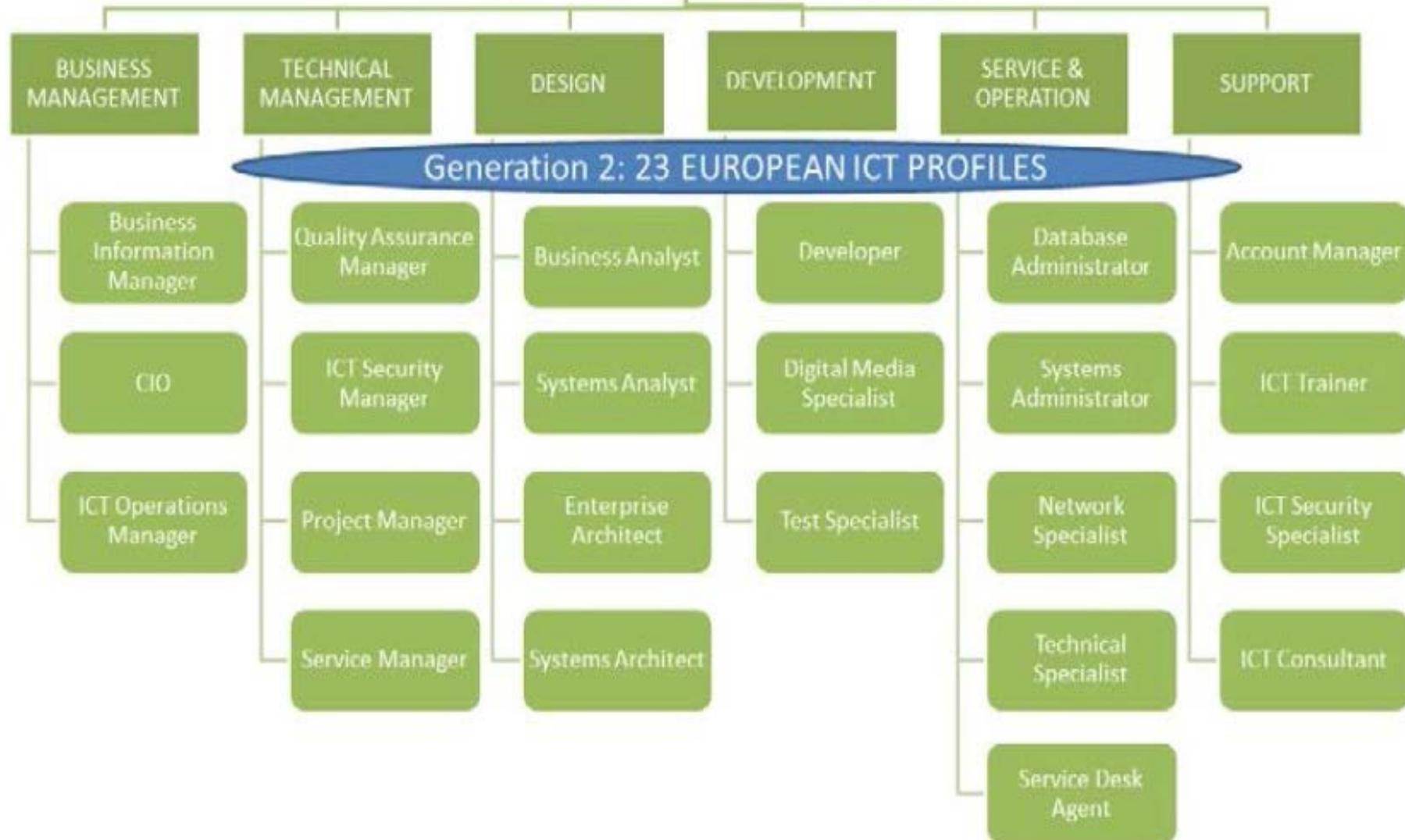
(numbers)



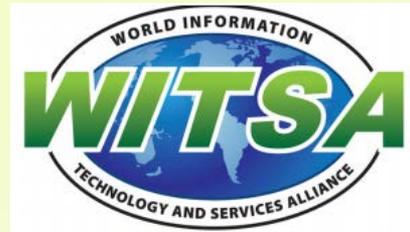
\* Surveys and forecasts assuming moderate growth in GDP and ICT investment. Only ICT graduates are considered here.  
Source: Empirica

# EUROPEAN ICT PROFILE FAMILY TREE

## Generation 1: SIX FAMILIES

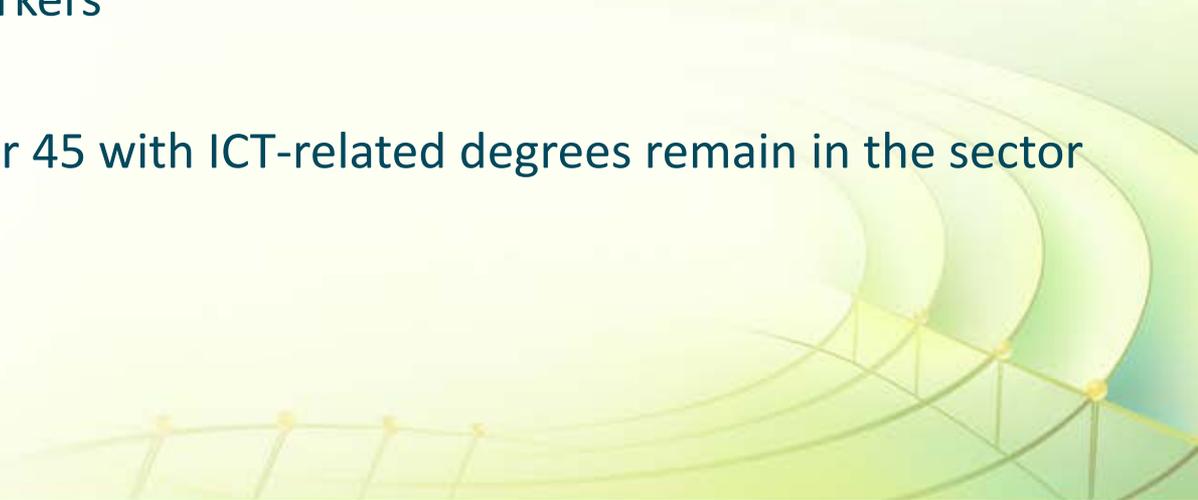


# Global situation



- Over 3.4 billion people around the world use the Internet. However, only 43% of women are connected
- Women comprise **half** of the world's **working population** but they **only** generate about **37 %** of GDP today
- If women reached parity with men in the workforce, it would add up to \$28 trillion, or 26 %, to annual global GDP in 2025 compared with a business-as-usual scenario
- According to a 2015 study "Women in the Workplace", it will take more than 100 years for U.S. corporations to reach gender parity based on current trends

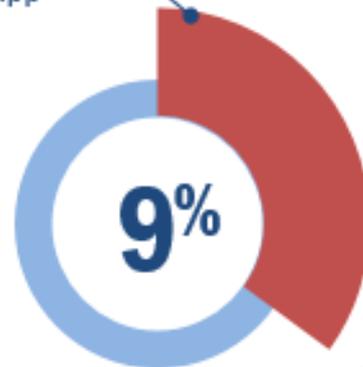
# European situation

- Today, only 29 per 1,000 women in the EU have an ICT related degree (compared to 95 men per 1,000 men)
  - Women leave the tech sector mid-career much more frequently than men
  - In the EU, only 19.2% of ICT-sector workers have female bosses, compared to 45.2% of non-ICT workers
  - Only 9 % of women over 45 with ICT-related degrees remain in the sector
- 

# European situation

## Application Developers

Only 9 in 100 European app developers are female



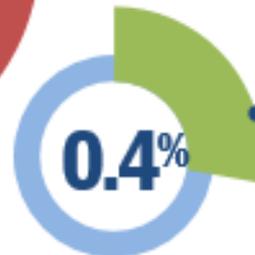
## ICT Managers

Only 19% of ICT managers are women



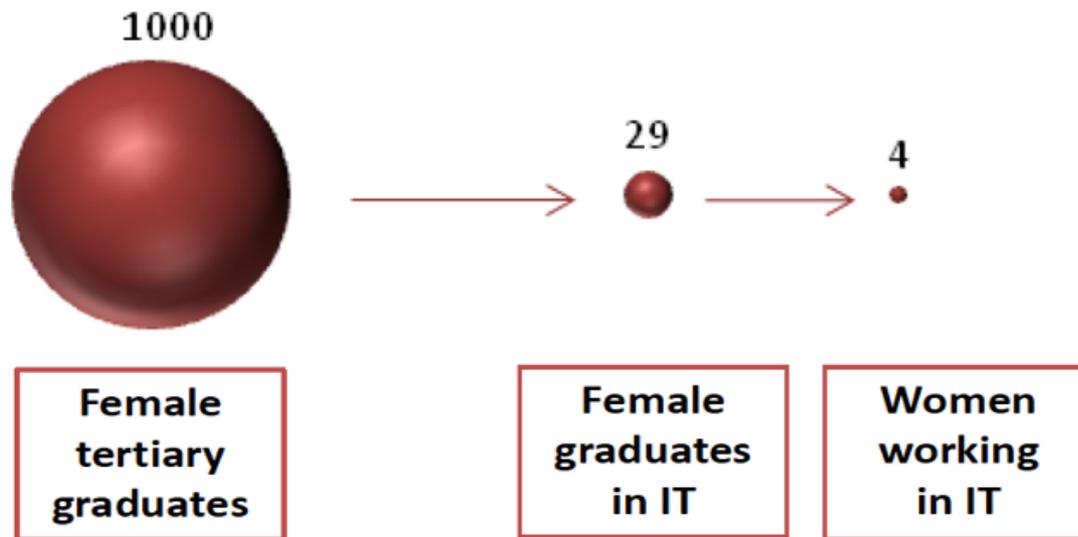
## Women in ICT

Of 1,000 women with a Bachelors or other first degree, only 29 hold a degree in Information and Communication Technologies (ICTs) (as compared to 95 men), and only 4 in 1000 women will eventually work in the ICT sector.



– Un-tapped Potential

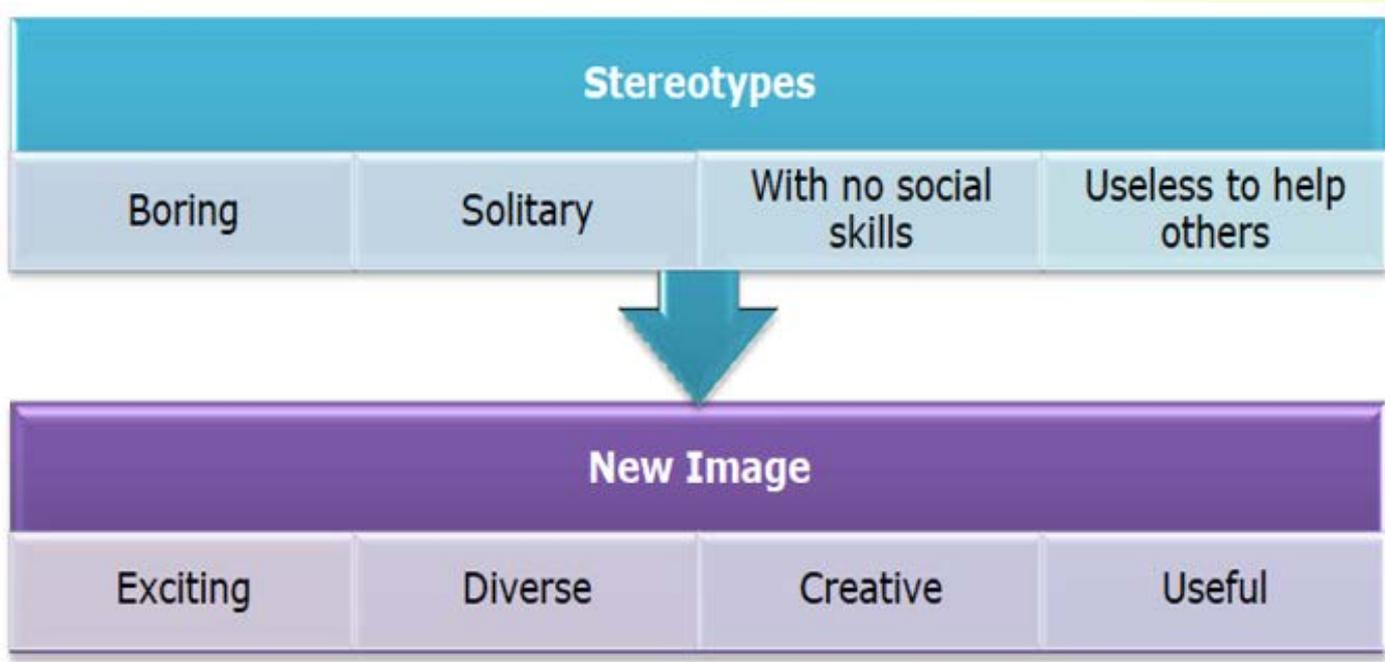
# Female participation in the ICT sector in Europe



# Factors that limit women's presence in the ICT sector



# Image of the ICT sector among women



# The European Centre for Women and Technology (ECWT)

## Key Priorities

1. *Getting more girls to study ICT and STEM*
2. *Attracting to and retaining more women in ICT*
3. *Designing gender sensitive ICT solutions*
4. *Fostering women's digital entrepreneurship*
5. *Sustaining ECWT as the leading platform and single point of contact in Europe for women in computing*



# Grand Coalition for Digital Jobs



# National Digital Coalition (NDC) in Lithuania

## MISSION

Institutions, companies and organizations agreed to form the National Digital Coalition for the Promotion of Digital Skills for Jobs in Lithuania mission to increase employment and **to achieve a more effective use of digital potential** and cooperate in implementing information society development programme 2014–2020 *Digital Agenda for Lithuania*.



# Objective nr. 2

**2. To attract more young people to choose ICT and other science studies and professions, to ensure the acquisition of digital skills also when learning other professions:**

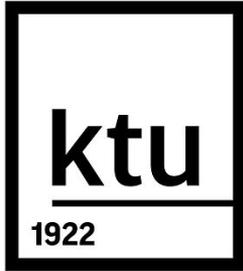
- To continuously improve general education, higher education and vocational training programmes according to the labour market requirements.
- To seek that the professionals that are being trained had necessary ICT skills required by the labour market.
- To reinforce the framework of digital skills training by cooperation between the representatives of business, education and other organizations.
- **To include ICT training to the system of non-formal youth education.**

# Situation in Lithuania

Women and men by frequency of using a computer, 2015  
Aged 16 – 74, per cent

<b>Moterys</b> <i>Women</i>	<b>Vyrai</b> <i>Men</i>	
		<i>Have used a computer</i>
57,1	55,1	<i>daily</i>
11,5	13,2	<i>at least once a week but not daily</i>
2,6	2,5	<i>less than once a week</i>
28,8	29,2	<i>Did not use</i>

In 2015 only 35 % of private sector executives were women



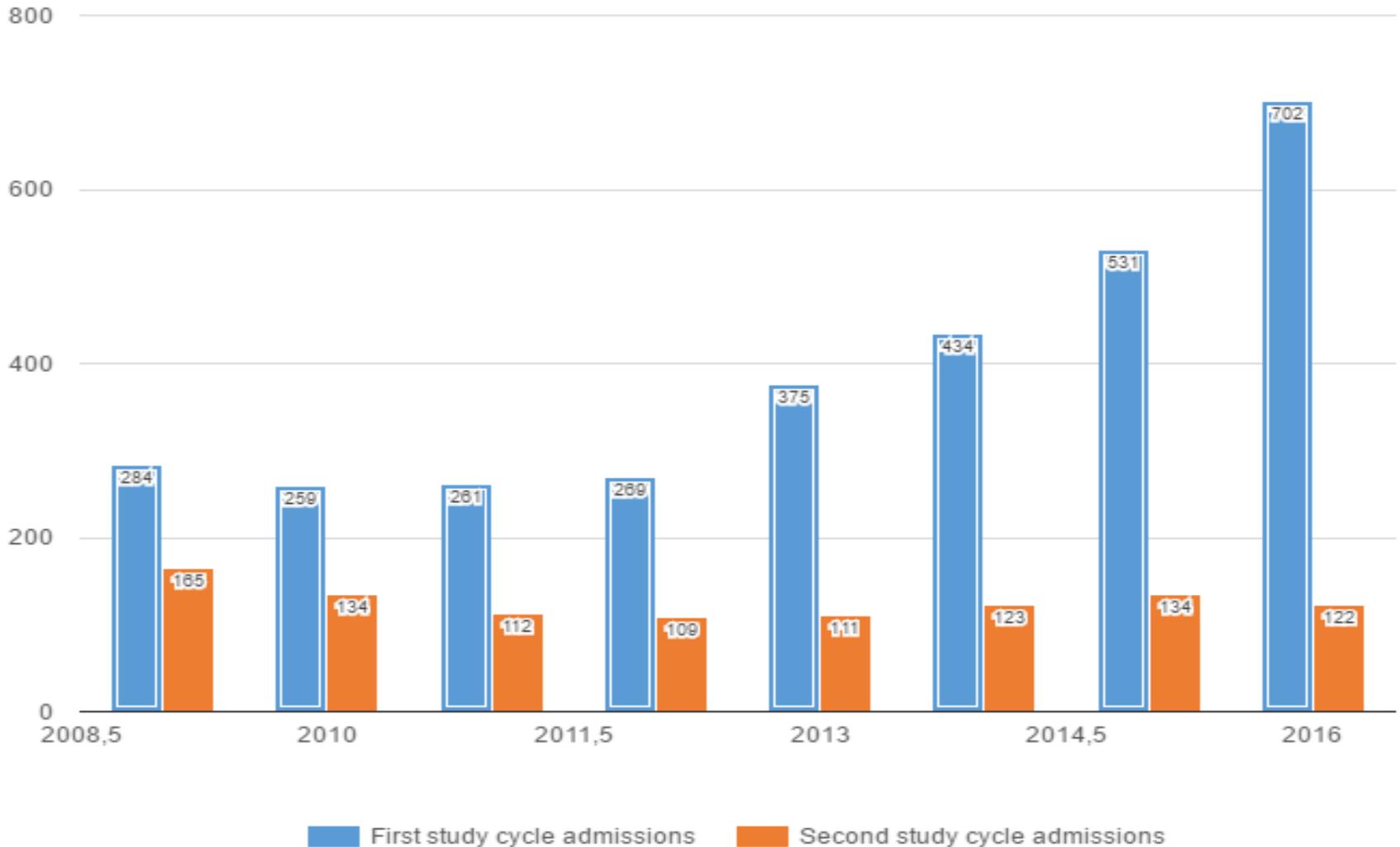
kauno  
technologijos  
universitetas

# Situation in Lithuania

KTU case. Informatics dep.

Student admissions

5-10 % of students are female



# Prof. Valentina Dagiene



1st European Celebration of Women in Computing,  
April 25-26, 2016

- Founder of BEBRAS Challenge, which engaged almost **1,5 million children from 50 different countries**
- 55 % of BEBRAS participants are girls!

# Milda Mitkutė

- VINTED startup establisher, current marketing manager
- VINTED is an online fashion marketplace for buying, selling and swapping clothes
- 8 countries with 10 million members, and growing



Vinted

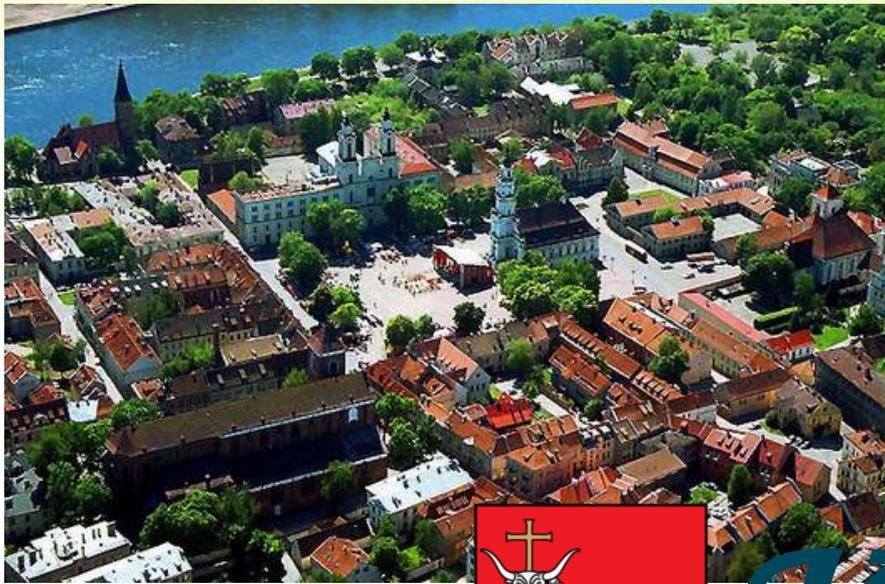
# Recommendations

- To educate girls about ICT from the early years
- Review education system at schools focusing on ICT
- To show more **good practises** of women in ICT
- Allocate funds and means to engage more young people in ICT
- Special means to support youngsters and particular women entrepreneurship
- Foster women engagement to ICT skills and ICT relater career and business
- Reach for synergy in „Women in ICT“ organizations (National Digital Coalition, Women in Tech, Women and Technologies)

# Thank you for your attention

**Assoc. prof. Danguole Rutkauskiene**

danguole.rutkauskiene@ktu.lt



# *Kaunas*

