## Possibilities of Latvian Students to Achieve High Scores in Math in OECD PISA Study



Linda Mihno

# Percentage of students at highest level of proficiency on the mathematics scale

Year	Latvia	Estonia	OECD average
2003	8	-	15
2012	8	15	13

OECD data base

### Research goal:

 Based on the OECD PISA data to clarify the possible factors high student achievement

### Research question:

 What are the possible factors that provide students with a solid track record a higher proportion of the OECD PISA?

#### Base

- Latvia's PISA 2003 data 15 years old students (2013)
- Latvia's PISA 2012 data 15 years old students (2030)

#### Method

- Linear regression:
  - Group 1 students, which score in mathematics scale over than 600
  - Group 2 students, which score in mathematics scale between 500 and 600

Year	Students with high achievements scored by the OECD PISA	Students with high achievements, the limit of 600 points	Students with achievement between 500 and 600 points
2003	7,9	8,7	34,4
2012	8,0	8,9	35,9

## Results

Index	2003 Exp(B)	2012 Exp(B)
Highest educational level of parents	1,214	1,351
Anxiety in mathematics	1,218	1,376
Attitudes toward computers	,875	,789

#### Conclusions and recommendations

- Good education has become a basic requirement for all citizens, which means that the need to change public attitudes towards education.
- To improve student achievement in mathematics, it is necessary for students to be responsible for their achievements
- Improving ICT skills to benefit the learning

# Thanks!