Cooperation to strendthen the citizens math skills in the context of sustainable development and welfare



ESTONIA presentation, 2014



Why math is needed?

 Mathematical skills are needed for specialists, who work in engineering, economics, IT and others



Business

Mathematical skills are needed for business, founded on knowledge and innovations according to Europe Strategy



We need to know...

- How mathematical skills level influences to economical and social development of country?
- How the country politics create conditions for the youth and adults to learn mathematics?



European Union

• Competence in mathematics is identified as key competence at EU level for personal fulfilment, active citizenship and social literacy in knowledge society of 21th century



Questionnaire

• For investigation of situation with mathematics along adults it is created the questionnaire to conduct separately in Estonia, Latvia and Lithuania



Baltic cooperation

 Baltic cooperation is to exchange information in mathematics field and think about future



Project work and investigations

Europe requirements for mathematics skills
Europe documents
Estonia politics in mathematics education
Estonia processes, that concern mathematics
Conduction of questionnaire

 Interviews, seminars according to the project



Analysis and conclusions

• According to the project investigation are prepared analysis and conclusions



Education in Estonia

- During 20 years education reforms are continued
- Education programs depend on political party or coalition, that is in majority of Parliament
- These factors influence to education quality, what universities say about



About mathematics is Estonia

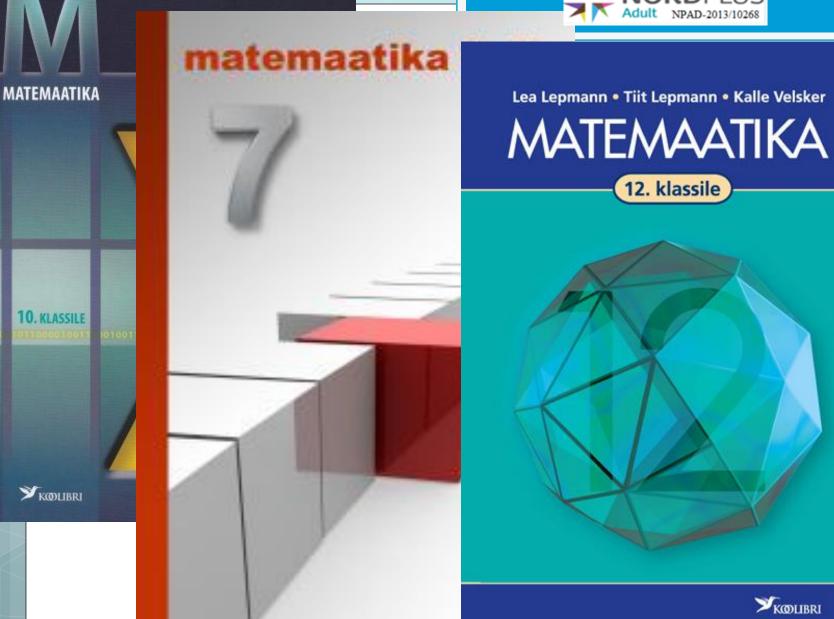
- From 2007 the state math exam is cancelled
- From 2014 the state math exam is done as obligatory again
- From 2010 year it is done new math program in grammar school – narrow and wide courses, that differ each other by teach hours and context volume
- Narrow 8x35 hours, wide 14x35 hours



Mathematics study books

- New study books for mathematics does not means higher quality
- On the contrary students consider, that mathematics study books are not understanding and not clear for studying









Economical crisis

Economical crisis shows, that there are need strong skills in exact subjects
Thinking ability is needed for innovations
Mathematical skills should be improved in Estonia in Europe generally



Changes in Estonia math politics

Some changes are seen from 2014 years
From 2014 years universities consider math exam results from future students
Many university researchers say in media about mathematics role in study, work

and life



Mathematics and Engineering

- Estonia President says about math and engineering importance
- Eesti Energia large enterprise general director says about role of engineers
- Estonia media says and writes about mathematics



The project results

- The project results will be at the end of the project
- Questionnaire results
- Investigation conclusions
- New thinking



Benefits of the project

- Cooperation between Baltic countries
- Common work to value mathematics skills in society
- New information and new experience
- Common work to promote mathematics needs to society



About future

• We hope to continue our cooperation with Latvia and Lithuania partners in fields of mathematics



Thank you!

• Thank you our partners from Latvia and Lithuania for good cooperation in this project!