



Riga Schools Making, Thinking and Learning in the Digital Age

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Riga City Council

The Riga City Council elects 60 council members.

The Riga City Council, its institutions and offices ensure implementation of the functions defined by the legislation, taking into consideration the interests of the state and the citizens of Riga.

The City Council adopts decisions in open City Council meetings. The Riga City Council has 8 committees:

- City Development Committee
- O City Property Committee
- O Committee of Housing and Environment
- O Education, Culture and Sports Committee
- O Finance and Administration Issues Committee
- O Security, Corruption Prevention and Public Order Issues Committee
- Social Issues Committee
- O Transport Issues Committee



The role of the Riga City Council's Education, Culture and Sports Department is to:

- implement the council's policies in the fields of education, education, culture and sport, work with youth and in the society integration area
- monitor the operations of education support, culture, sport and leisure time institutions which are under the jurisdiction of the Riga City Council

www.iksd.riga.lv

Establishments in Riga Municipality



13 hobby education centres



11 sports education institutions and Riga National Sports Track



5 culture institutions



Riga Central Library with its 26 branches



9 art and music schools



150 kindergartens



115 schools

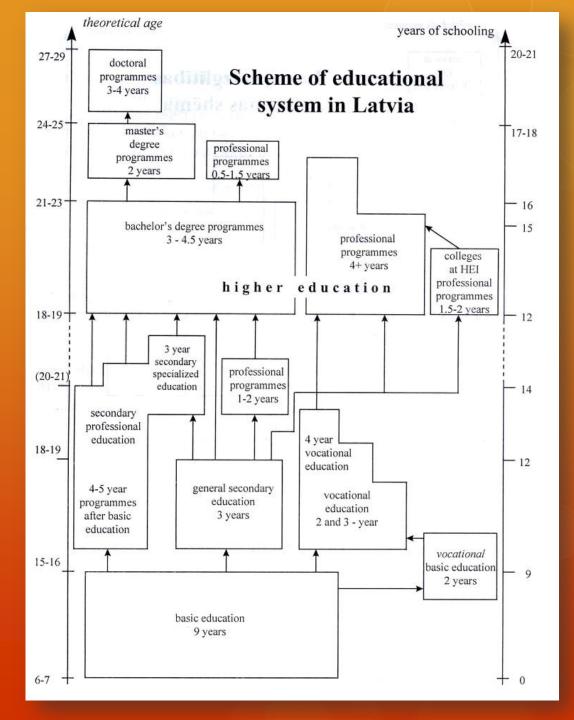


Education and Information Services of Riga City

Education Programs implemented by schools

- O basic education program (in the official language)
- basic education program for minority schools (in Russian and other languages)
- general secondary education mathematics, natural sciences and technologies program
- O general secondary education the humanities and social sciences program
- general secondary education vocational program

Educational System in Latvia



ICT for «qualitative and inovative education» Riga Development Program 2014 - 2020

- promote inovative knowledge robotics, sensor controlling and programming, 3D animation etc.
- O stimulate competence based teaching
- share best practices among schools in digital making
- support and promote teachers' creativity, using technologies
- O develop ICT infrastructure
- O boost *learning cloud* usuage in Riga schools
- O encourage teachers to work with *learning* cloud

Infrastucture support to Riga schools since 2011

 In 2011- 2013 during ERAF financed project for natural sciences schools were supplied with

1439 laptops, 256 interactive whiteboards, 216 tablets,

created e-learning environment learning cloud and bought e-books

In 2012 – 2013 during ERAF financed project schools were supplied with

3531 desktop computers, 100 laptops un

40 interactive whiteboards



http://macibas.e-skola.lv

e- learning environment *Learning cloud* is developed during the project «Development of infrastructure for qualitative studies of natural sciences in Riga Schools» and is open for all Riga municipality schools

Learning cloud aims:

- Promote technology usage in schools
- Information platform for ICT novelties in Riga schools

Learning cloud possibilities:

- Easy accesible for teachers, students and school management
- Use of ready materials for courses at secondary level in mathematics, physics, chemistry, biology
- Teacher can create their own content, place homeworks and exams
- Learn about novelties in Riga schools



Aktualitātes



120 000 e-grāmatas



Finanšu izglītības nedēla, 18.-22.03.2015.

Ekonomikas skolotājiem - iespēja piedalīties pirmajā finanšu izglītības nedēļā Latvijā un ekonomikas stundām vajadzīgas ir - spēles, mērinstrumenti, uzziņas rīki.



Pieteikšanās tālākizglītības kursam "Interneta iespējas mūsdienīgam mācību procesam" līdz 09.11.2014.



LatSTE' 2014



Dabaszinātņu mācību stundu demonstrējumi izmantojot tehnoloģijas

Inovācijas



BETT Show 2015



Blenheim High School (Lielbritānija) pieredze



Seminārs "Akustiskais aprīkojums pedagoga balss pārslodzes mazināšanai"



Madonā jau printē 3D priekšmetus



BETT Show 2014

Planšetes, to izmantošana mācību procesā



Planšetu izmantošana (forums)



09.03.2015. Seminārs "Planšetu izmantošana mācību procesā"



09.03.2015. Semināra darba kārtība.



09.03.2015. Semināra materiāli. A.Beitiks. "Praktiskie padomi video montāžai ar iPad"



12.11.2014. Seminārs "Planšetu izmantošana mācību procesā"



12.11.2014. Semināra materiāli. G Šulce "Mācību procesā biežāk izmantotās interneta vietnes"



12.11.2014. Semināra materiāli. J. Gladčenko "Fizika"



12.11.2014. Semināra materiāli. V.Ozola "Ģeogrāfija"

E-books

Most popular e-books – Biology for Secondary Shools, Physics training book, Mathematics

Conclusions:

- disadvantages of e-books (lack of handy mobile devices, internet access)
- Usage of traditional books is an old tradition
- O If teacher promotes, then students use e-books more
- E-books are used as supplement to the conventional paper books

Computer, Internet Access at Home and Mobile Phone (%) in Latvia



Next year challenge - competence based subject - computer science

Since 2015 schools in Latvia pilot 5 modules in computer science for different ages and different knowledge:

- programme for gades 1 9 for general education in computer science for schools specialed in mathematics, natural sciences
- O programme for gades 1 3 for integated education of computer science
- O programme for gades 4 6 for general education in computer science
- O programme for gades 7 9 for general education in computer science
- O specialized programme for gades 7 9 for deeper learning of programming and un algorithms.

New technologies intervene in old schooling system but at the same time gives new opportunities

- Teachers mentors encourage colleagues to use technologies in training
- Students learn together with the teachers new technologies





Make: Learn: Share: Europe general information

- EU financed Erasmus+ programme
- Project Total Costs: 333 203,00 EUR
- Project implementation: 01.11.2015. 30.10.2018.
- Member States:
- Sheffield City Council, United Kingdom (Lead Partner)
- Gijon City Council, Spain
- Riga City Council, Latvia
- Knut Hahn Institute in Ronneby, Sweden
- Fondazione Mondo Digitale an education charity based in Rome, Italy







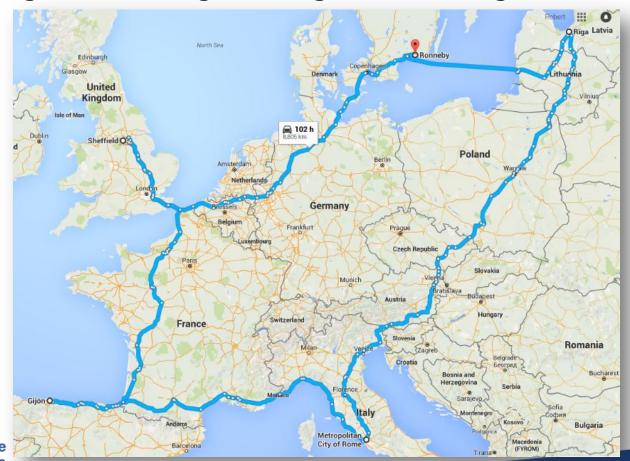








Aim of the project – to develop digital skills amongst young people across Europe, in order to assist learning and working with digital technologies







Sub-targets of the MLSE

- veicināt informācijas komunikāciju tehnoloģiju (IKT) lietojumu
- prasmju pilnveide ekonomikas attīstībai
- attīstīt starppriekšmetu kompetences digitālajā jomā
- nodrošināta pieeja mācību materiāliem tiešsaitē par digitālo prasmju attīstību
- celt skolotāju kvalifikāciju
- veicināt Eiropas valstu saskaņotu sadarbību
- uzlabot zināšanas skolēniem ar zemiem sasniegumiem eksaktajos priekšmetos un lasītprasmē













Planned activities in the project

Acquisition of new knowledge - programming, mobile application (App), 3D animation and printing, robotics in each country

Ambassdors networking (studnts of age 14 – 16)

Online self-study modules - Open School Units

Equipment purchase

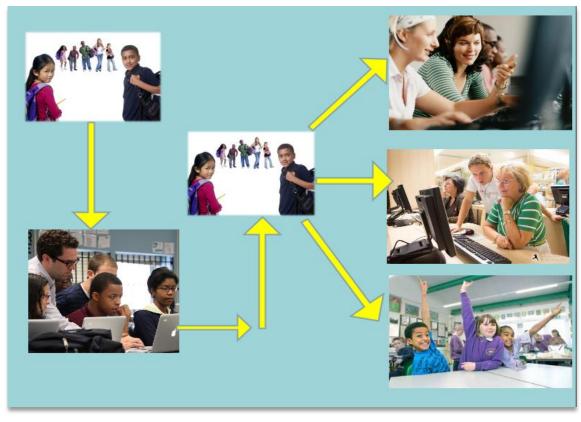
Expierence exchange, share of best practice

Dissemination of project results





Students ambassadors share their knowledge with younger students, teachers, parents.







Three aspects of online self-study modules - Open School Units





Project Results

- 225 students involved in training at open school units
- 675 students involved in training at open school units or by Europe wide student ambassadors from network of associates
- 30 teachers involved in open school units
- O 30 technicians involved in open school units
- A central repository (Shared Drive) of student generated materials
- Reflection of project results in social media and other sources (including YouTube)
- Project website

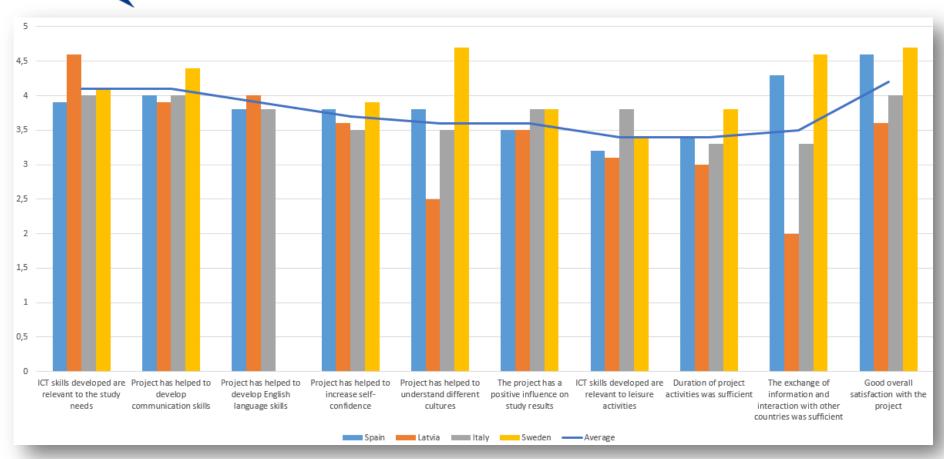


Activities in schools in Riga

| Activity | Topic | Time | Duration | Participants |
|---|-------------------------|---------------------------|------------------------|--------------|
| OSU Riga Secondary School No 22 | Arduino robots | 25.05.2016- 22.06.2016 | 3 sesions x 3 st. | 7 |
| OSU Riga Secondary School No 22, summer camp "ROBO-22" | Arduino robots | 25.05.2016- 22.06.2016 | 10 working days | 30 |
| OSU The Centre of Creative Learning (CCL) "Annas 2" | App development | 01.09.2016- 30.09.2016 | 6 sesions x 3 hours | 25 |
| OSU Riga Secondary School No 25 | Management of Drones | 25.04.2017- 25.05.2017 | 6 sesions x 3 hours | 8 + 24 |



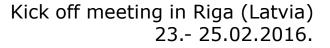
Survey results – quantitative questions







Activities







Thank you for your attention!

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