

Learning, Teaching & Training in ESTONIA

APRIL 2nd – 8th 2017

VALGA, (HALF) TOWN

IN 1920 THE BORDER
BETWEEN ESTONIA AND
LATVIA WAS LAID.

THE BORDER PASSED
THROUGH THE TOWN AND
SPLITTED IT IN TWO:

VALGA IN ESTONIA

VALKA IN LATVIA



Valga and Valka



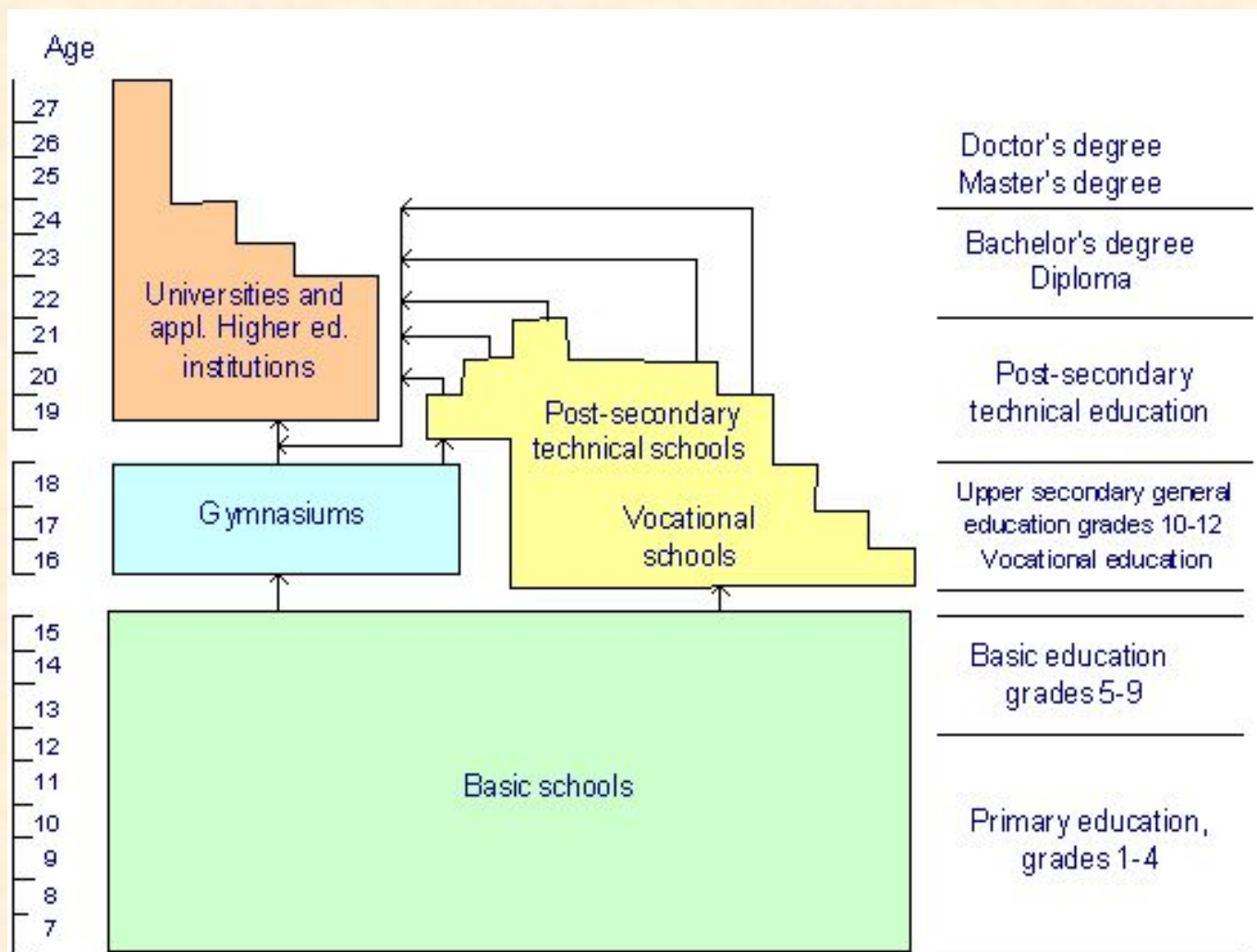
- Both Estonia and Latvia are part of European Union and thanks to Schengen Agreement life is nowadays a lot easier in Valga-Valka
- Tangible pain in remembering the military past of this village (1500 inhabitants) during Soviet Union era
- Fear in European nationalisms

MEETING WITH THE MAJOR



**THE TOWN IS STRUGGLING TO FIND SOLUTIONS AND
OVERCOME THE PROBLEMS DUE TO THE SPLIT IN TWO PARTS**

ESTONIAN EDUCATIONAL SYSTEM



ESTONIAN EDUCATIONAL SYSTEM

- All materials are owned by Ministry of Education and can be moved from one school to another on the basis of needs
- Teachers teach 24 hours per week, they work at school for 40 hours a week, they earn 1000 euros a month
- Courses of study can be closed if there are not enough responses from the job market
- Schools are closing at a fast pace (due to decreasing population)

VALGA VOCATIONAL SCHOOL



- **MODERN BUILDING, FINISHED IN 2011**
- **ABOUT 80% PAID BY EUROPEAN COMMUNITY**
- **WIFI AVAILABLE IN ALMOST EVERY ROOM**
(also for students)

VALGA VOCATIONAL SCHOOL

- SOCIAL CARE
- FOOD SERVICE
- LOGISTIC
- CONSTRUCTION
- WOOD WORK
- CAR REPAIR

POPP Comprehensive
competence in border school
without borders



FINANCIAL INCENTIVES
FOR STUDENTS FROM
OTHER TOWNS

LIFE-LONG LEARNING

VALGA VOCATIONAL SCHOOL



VALGA VOCATIONAL SCHOOL

COLLABORATION WITH OTHER SCHOOLS TO PRODUCE A
DATABASE OF MATERIALS AVAILABLE NATIONWIDE

- **DIGITAL MATERIAL: FRIENDLY TUTORIALS FOR COOKING, NO TEXT, A STREAM OF PICTURES SHOWING THE STEPS OF THE WORK**
- **LINKS TO TUTORIALS BY QR CODES (avoids misspelling)**
- **VOCAL COMMANDS FROM TABLETS IN THE KITCHEN (dirt)**
- **PROFESSIONAL DRONE (development researches)**
- **GEOGEBRA (flipped classroom**

‘Maths all around us’)



VALGA GYMNASIUM



CONTEXT

OUTSTANDING ARCHITECTURE

RENOVATED ACCORDING TO THE EXISTING
STRUCTURE (EUROPEAN FUNDS)

ALATSKIVI CASTLE



At the border with Russia

Restored to the ancient look after Soviet Union requisition and partial destruction

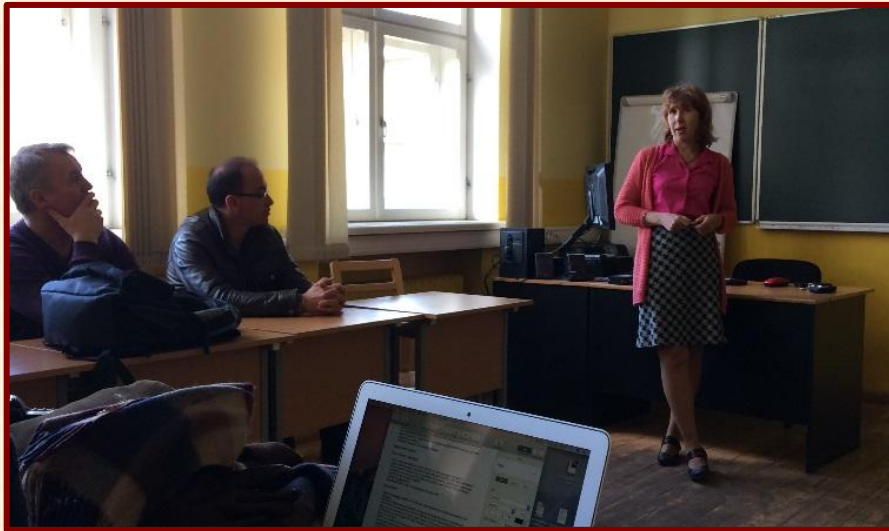
GAMIFICATION OF DIDACTIC UNITS

- **AUGMENTED REALITY** with glasses and smartphone: reproduction of environments and situations
- **TEAMUP**: create, manage, monitor groups in a class
- **LOQUIZ**: create groups, fix and find hotspots through Google Maps and GPS, answer questions (multiple choice, pictures, movies, ...), manage results
- **Actionbound**: quiz and gamification



TARTU UNIVERSITY

Piret Luik, ass. professor of Educational technology, University of Tartu



TARTU UNIVERSITY, Prof. Luik work

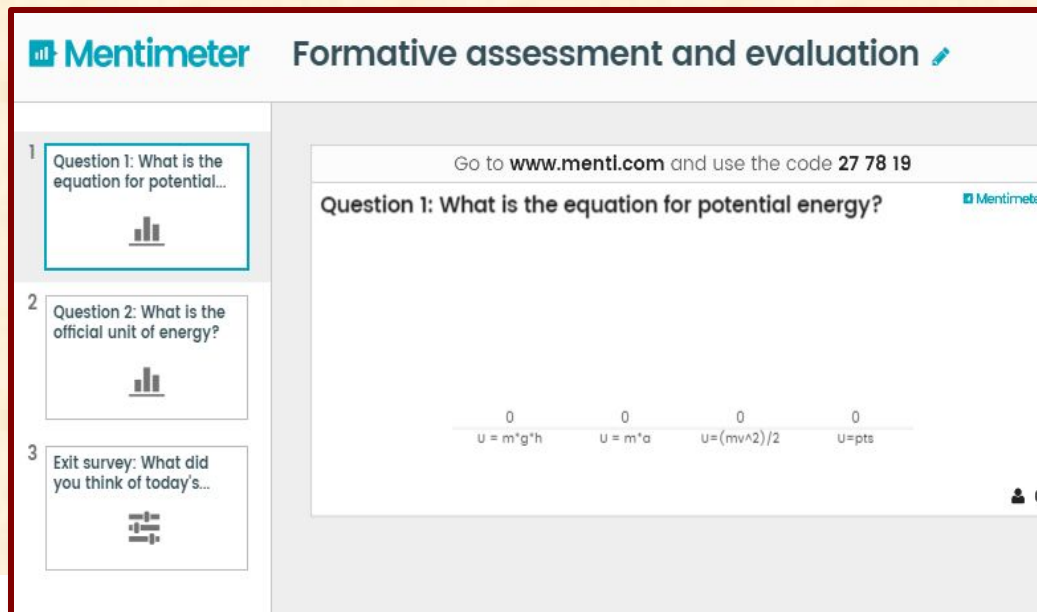
- Teach to all kind of teachers and school leaders
- Study blogs, MOOC, TPACK for education and the motivations to enroll to digital platforms
- Her use of digital tools with students: to get information, activate them, self assessment (anonymous), disprove misunderstanding, learn from mistakes, compare with others, ask questions (slides on class pc, paddlet on teacher pc), save what is done and share with absent students

Group work is given for granted in her speech.

TARTU UNIVERSITY, Apps

MENTIMETER free tool for interactive teaching: information before the lesson, exercises, feedback, evaluation (students-teacher / student-student), instantaneous results.

Mentimeter for creators



Mentimeter Formative assessment and evaluation

1 Question 1: What is the equation for potential...


2 Question 2: What is the official unit of energy?

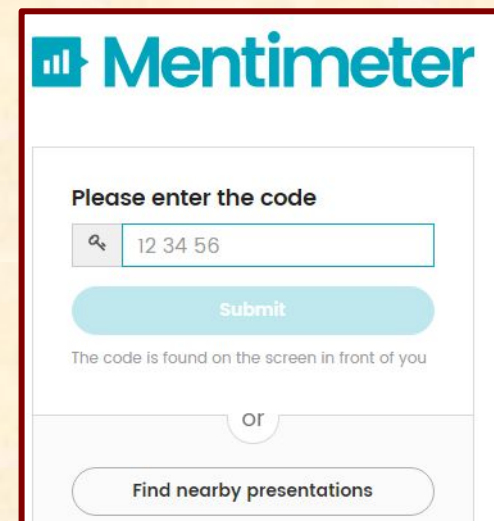

3 Exit survey: What did you think of today's...


Go to **www.menti.com** and use the code **27 78 19**

Question 1: What is the equation for potential energy?

$U = m \cdot g \cdot h$ $U = m \cdot a$ $U = (mv^2)/2$ $U = \text{pts}$

Menti for users



Mentimeter

Please enter the code

Submit

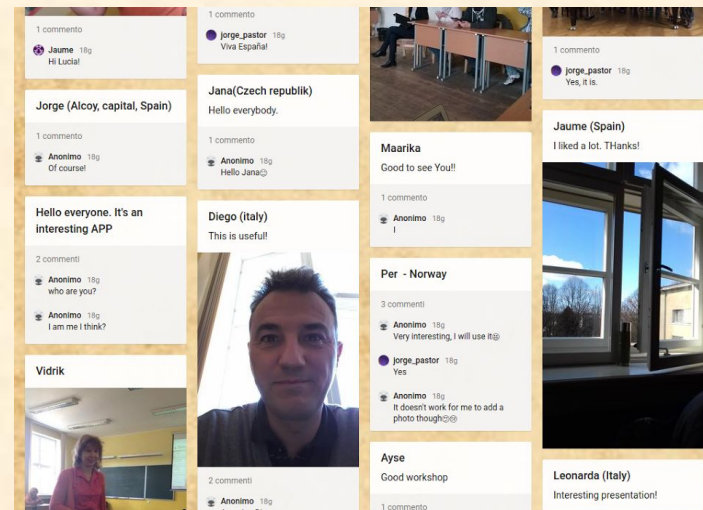
The code is found on the screen in front of you

OR

Find nearby presentations

TARTU UNIVERSITY, Apps

PADLET digital board to post comment/pic/movie/link. Uses: present, collect, share, get information, 'vote' (teacher puts statements, students put their name near the statements they believe most), build work groups using similar procedure as 'vote', learning diary, comment. It is possible to hide the post to everybody but who wrote it and to the padlet owner.



TARTU UNIVERSITY, Apps

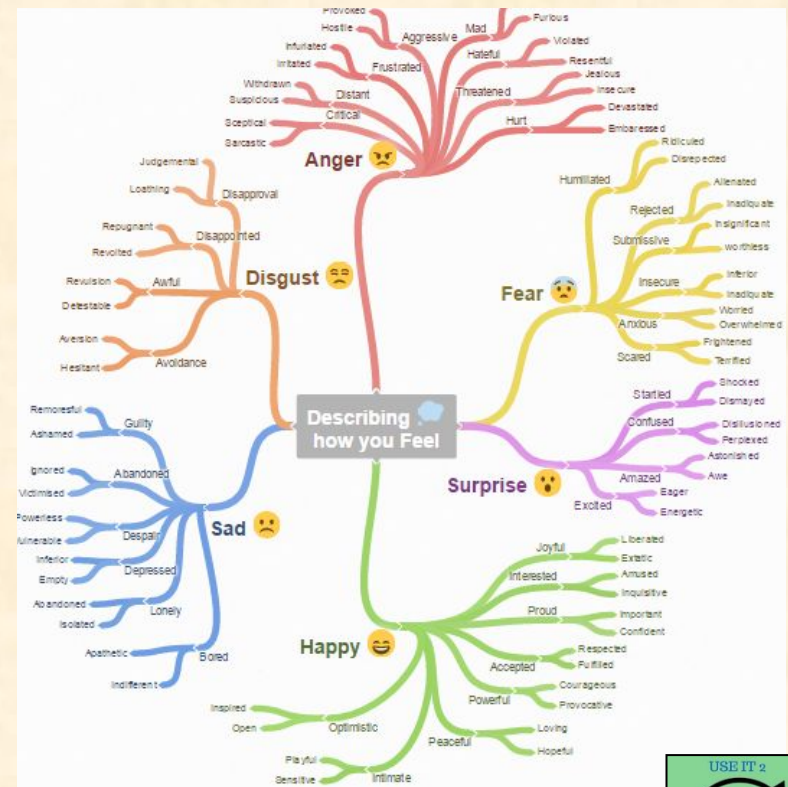
KAHOOT (tired a bit, used too much)

SMORE : newsletter and presentation;
useful for students assignments;
used for videos, essays. It has limited
space available!

BLOGGER : reflection and sharing
information, useful for practice, for
creative work (ex: each student write a
paragraph of an essay)

[Learning Apps.org](https://learningapps.org)

COGGLE collaborating mind
maps (linked to Google)



A SMALL WORLD...

UNSCHEDULED MEETING WITH THE COORDINATOR OF DESIGN STEM PROJECT AT TARTU KUNSTI SKOOL



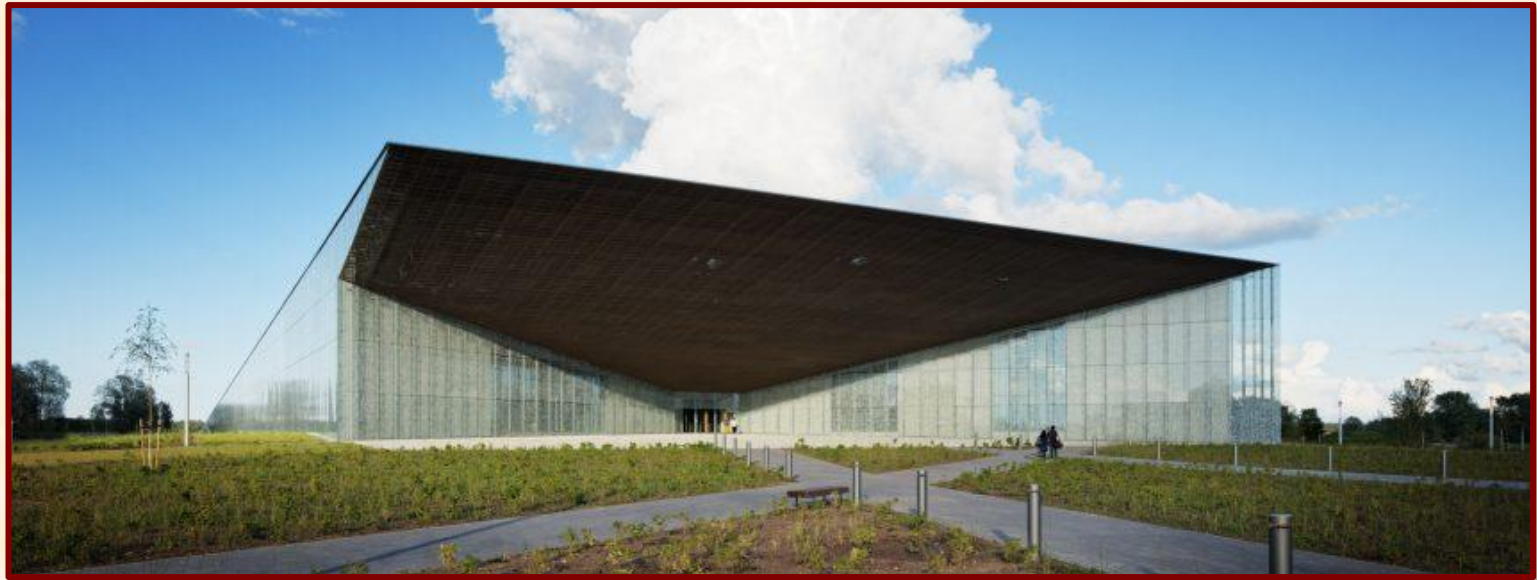
TARTU town

Third town in Estonia.

Only visited the main square
and our partner Tartu Art School



TARTU MUSEUM



The 34,000-square-metre museum is the largest in the Baltic States. Its exhibitions chart Estonia's history from the Stone Age to present day.

A 350-metre-long glass block ramps up from the runway of a former soviet airfield

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FREE COURSES IN ESTONIAN
LANGUAGE

SMARTPHONE AND
TECHNOLOGY ARE WELCOME

e-IDENTITY CARD

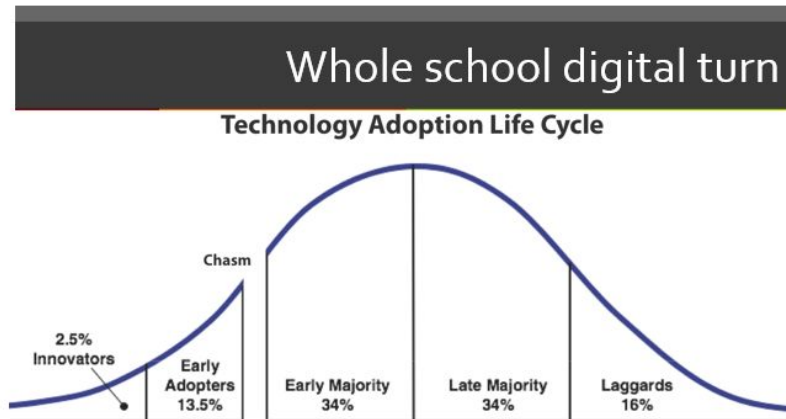
INTERNET AS HUMAN RIGHT



TALLINN UNIVERSITY

[Mart Laanpere](#) (researcher in educational technology) martl@tlu.ee

- Wide vision about education
- Keywords: DEVELOPING DIGITAL MATURITY, DIGITAL TURN FOR LIFELONG LEARNING, DIGITAL MIRROR



- The training and support is oriented on the level of a teacher
- Diffusion of innovations (Rogers, 1992), OECD study (2002)
- Whole school intervention models are needed

Change management

Technology

SCHOOL

Pedagogy

*ullan (2013) Stratosphere:
grating Technology, Pedagogy
Change Knowledge*

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phd student [Romil Robtsenkov](#) romilr@tlu.ee:

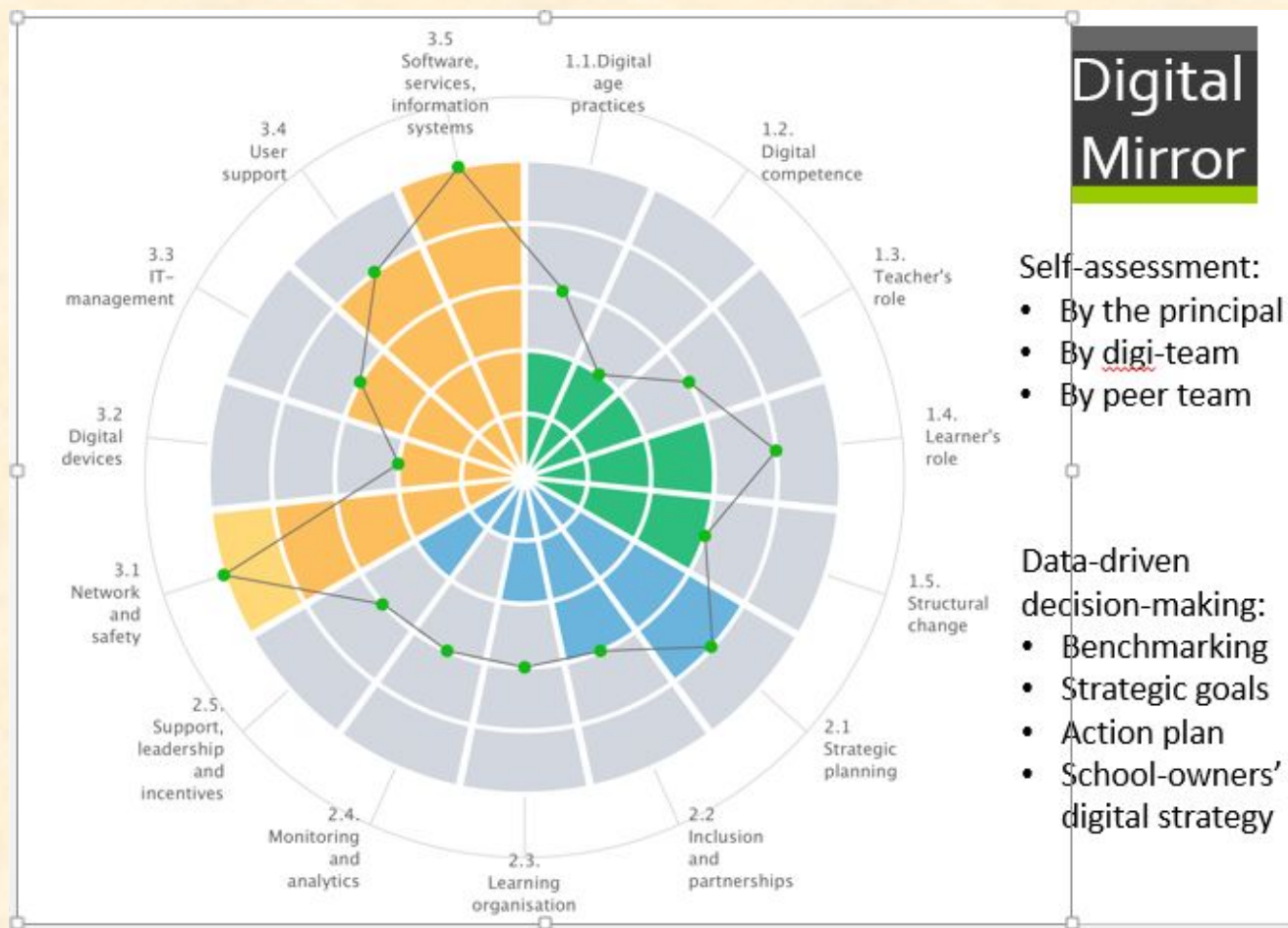
- [LEPLANNER.NET](#): lessons scenarios, comments (about 80 in English), project based learning classes. Project for teachers: sharing experiences in particular lesson plannings.

Jaanika Hirv, Analyst at the Centre of Educational Technology, School of digital technologies - Tallina Ulikool (she takes part in researches and projects)

- [ACHSO](#): record a video, add comments, share. Possible uses: Internship experience presentation and documentation; give feedback about experiences that can be filmed and annotated at some points.

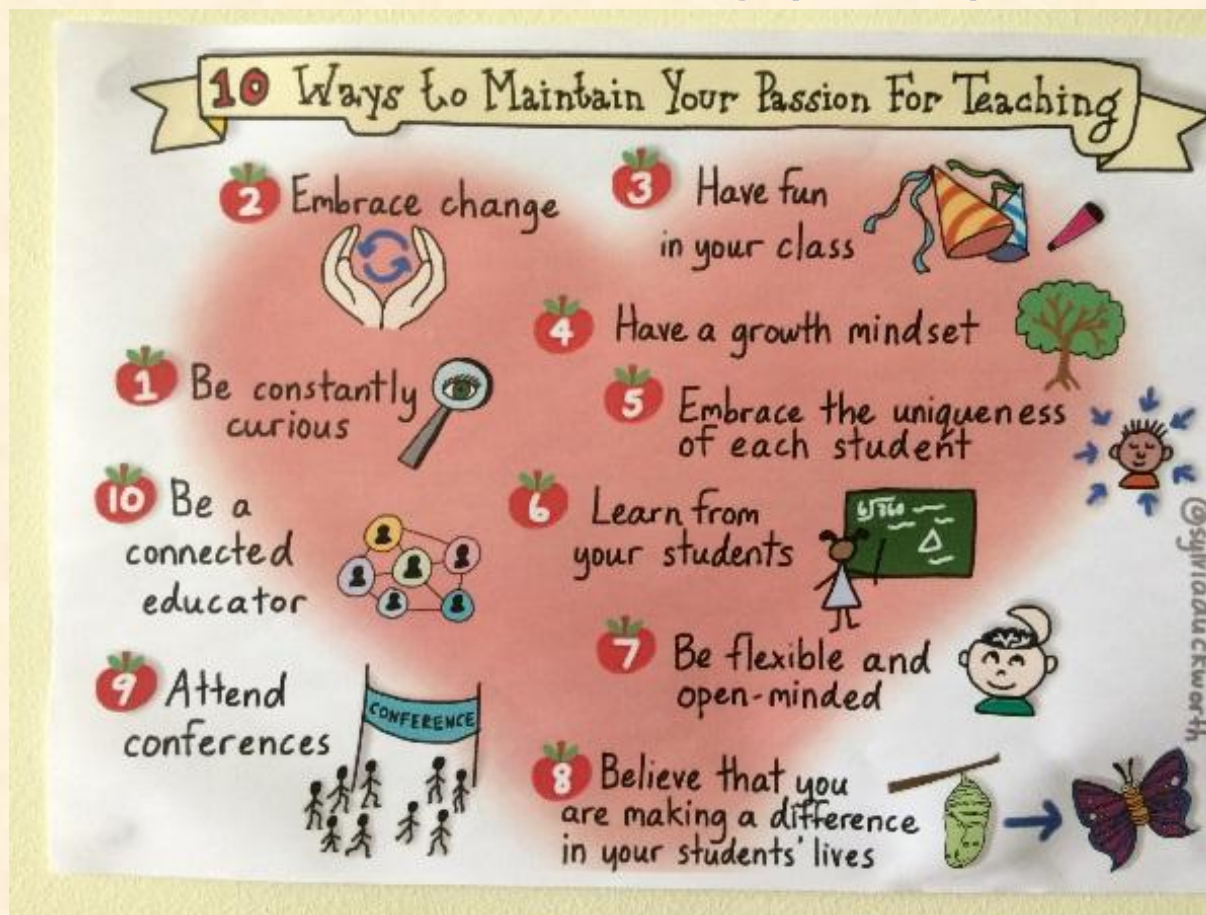
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DIGITAL MATURITY SCREENSHOT OF A SCHOOL



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Passion at the heart of teaching (Lucia)



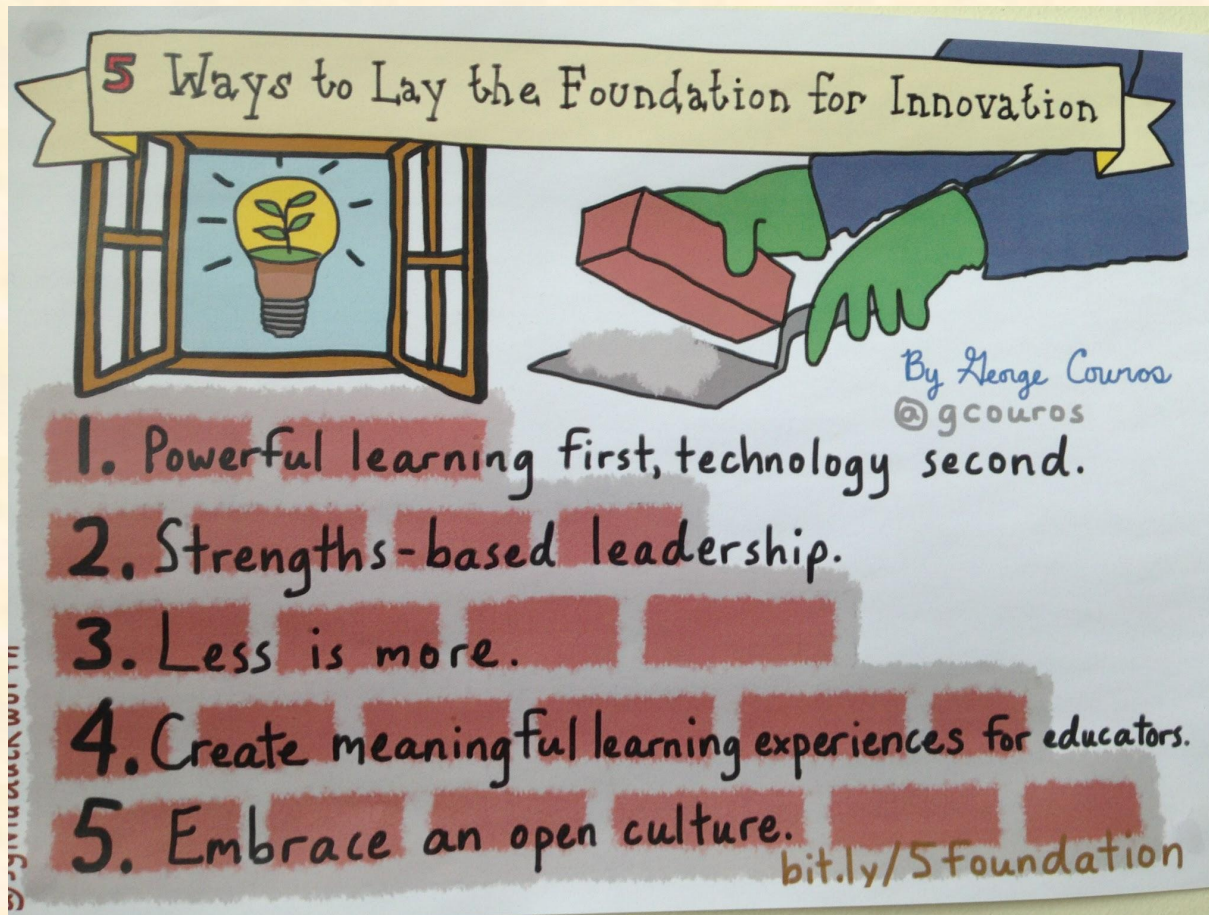
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Consciousness at the heart of teaching (Diego)

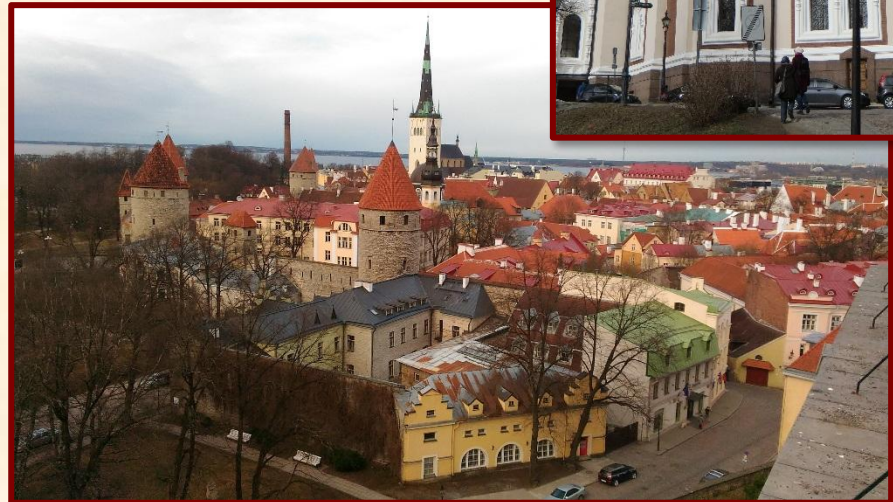
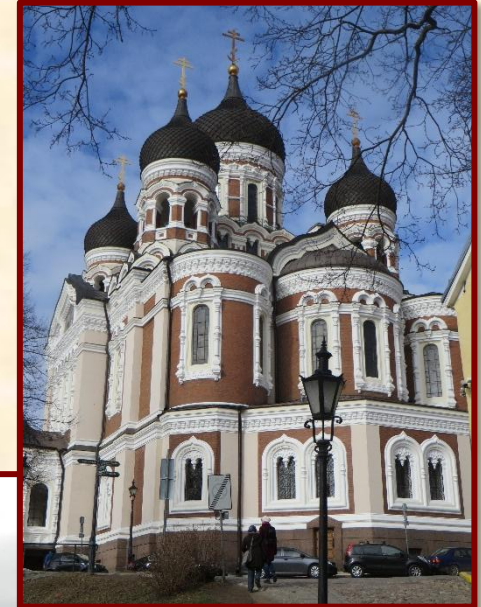


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Teaching at the heart of digital teaching (Leonarda)



TALLINN SIGHTSEEING



OUR CONCLUSION:

**TEACHERS ARE NOT MEANT TO SOLVE
TECHNICAL PROBLEMS, BUT TO SHOW
WIDER HORIZONS AND BROADEN PUPILS'
MINDS (USING TECHNOLOGY)**

THANKS FOR YOUR KIND ATTENTION



The Italian group in Estonia:

Lucia Marchi
Diego Paternolli
Leonarda Raffoni