Education & Training 2020

Digital Skills and Competences

Digital Skills & Competences Working Group

Peer learning activity 28-29 September 2016
Coding and computational thinking on the curriculum: developments in Finland and across Europe.

Helsinki, Finland

Wednesday 28 September

Meeting location – **National board for Education, Helsinki**

9:00-9:30	*Coffee*
9:30-9.40	Welcome and adoption of agenda
9:40-10.00	Key challenges for Finland in improving digital skills. *Minister of Education and Culture, Sanni Grahn-Laasonen*
10.00-12:15	**Coding and computational thinking in the curriculum**
	De-coding the basic terminology - key points from 'Computing our future ', European Schoolnet (2014), speaker tbc
	Examples from Member States:
	Finland: the Finnish story of introducing coding and algorithmic thinking to the curriculum and school practice. Part I: the curriculum - what and why? *Leo Pahkin, National Board of Education, Finland*
	Poland: Council for Digitalisation of the Education. **Prof Maciej M. Sysło** Faculty of Mathematics and Computer Science, Nicolaus Copernicus University, University of Wrocław
	Estonia: ProgeTiger programme, Estonian Ministry of education and Research, **Kristel Rillo** plus colleague
12:15-13:00	*Lunch*

13.00 - 15.00	**Learning from research**
	Educational approaches to developing computational thinking - study results and recommendations. – European Commission JRC-IPTS (tbc)
	Computational thinking as a transversal skill, Linda Mannila, Researcher.
	What do we know about learning programming, Arto Hellas, University of Helsinki.

15:15-15:30	*Coffee*
15:15-16:30	**Learning from projects and initiatives** Examples of Erasmus+ projects on coding – speakers tbc EU code week – goals and challenges – speaker tbc
16:30-17:30	What are the key issues emerging from the discussion? First draft of key policy messages.
19:00	***Dinner – location TBC***
21:00	End of programme Day 1.

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Thursday, 29 September 2016

Meeting location – Site visits to schools (morning) and the Ministry of Education (afternoon)

9:00 – 12:30	Visits to schools • School a (primary school) • School b (lower secondary) • School c (upper secondary education/or vocational)
12.00-13.00	*Lunch*
13.00-15.00	**The Finnish story of introducing coding and algorithmic thinking to the curriculum and school practice. Part II:** Developing teachers' skills • Implementing the curriculum - teaching teachers to teach coding and algorithmic thinking • Teaching practices for coding. Speakers TBC
15.00-16.00	Finalising policy messages and closing the PLA. Next steps and follow-up work.

16:00	End of PLA - departures from Helsinki