

# Responding to digital transformation: Policy and practice in teacher education in Iceland

Sólveig Jakobsdóttir professor

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# Technology waves

## Learning, literacy, competences



~1983+ Micro computers, personal computers

**Computer literacy, educational technology, instructional design**

~1990+ Internet, laptops

**Information and media literacy, ICT, DE and online learning**

~2007+ Social media - 2011+ smart devices

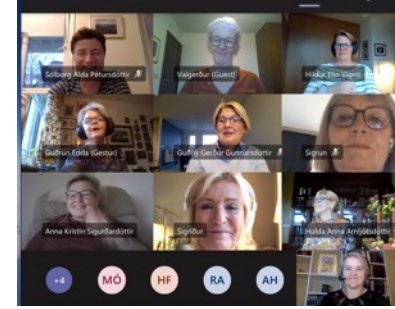
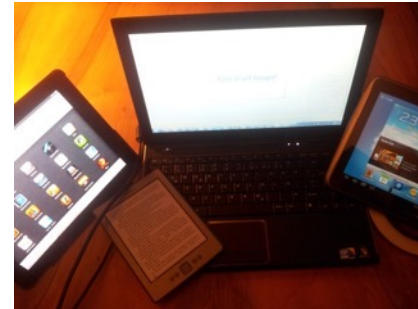
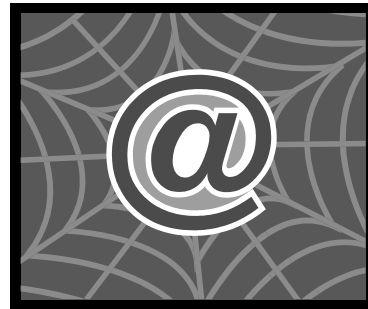
**Agency, sharing, participating – digital citizenship, dig. competence**

~2016+ Fourth industrial revolution

**Maker literacy, coding**

~2020+ New Internet wave with COVID

**Online competence?**



**Responses – especially regarding teacher education (UISE)?**  
**A non-comprehensive overview**

# Microcomputers 1983+ Computer literacy

Internat. National	US - Graduate studies available Ed Tech Educational software development
Teacher Ed	<b>Forward thinking teacher educators start promoting computer use</b> <b>First Icelanders w graduate degrees in ed. tech.</b> <b>Employed at the Iceland University of Education</b>
Schools Grassroot	Some teacher pioneers



# Internet – information and media literacy, ICT online teaching and learning

<p>Internat. National</p>	<p>'97 educational policy on ICT '99 ICT introduced as a special subject at the primary and lower secondary level - information literacy as a cross-curricular theme. ICT conferences 1999-2006</p>
<p>Teacher Ed</p>	<p><b>'93 Teacher Ed – DE – online learning</b> <b>'98, a graduate diploma programme on ICT in education, later undergraduate study track</b></p>
<p>Schools Grassroot</p>	<p>'92 Ísmennt – Icelandic Education Network <a href="mailto:kennarar@ismennt.is">kennarar@ismennt.is</a>; Pioneering teachers in online teaching and learning</p>



# Social media – smart devices

## digital competence, digital citizenship, partipating, sharing

<p>Internat. National</p>	<p>Emphasis and support for ICT and teacher professional development</p>
<p>Teacher Ed</p>	<p><b>Communities of practice and digital habitats</b>  <b>Language Plaza, Natural Sci, Special Ed, ICT, EducationPlaza</b>  <b>Educamps – workshops w peer learning</b>  <b>Digital citizenship module/courses</b>  <b>MOOCs</b></p>
<p>Schools Grassroot</p>	<p>Tablet use in schools, 1:1 pedagogy gains ground</p>



# 4.th industrial revolution

## Maker literacies, STEAM, coding

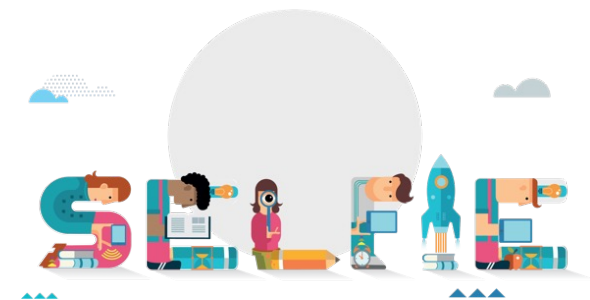
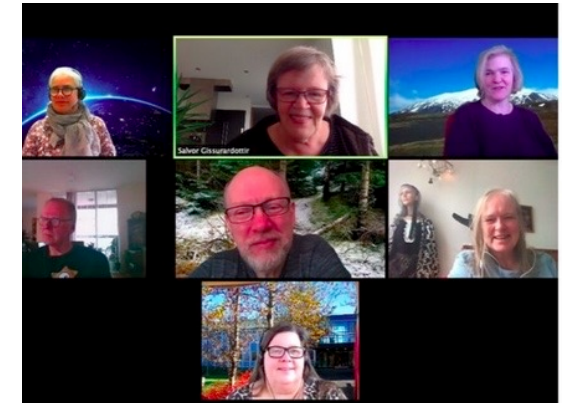


Internat. National	EU competence frameworks for teachers and schools Iceland: Act (2019), on the education, competency and recruitment of teachers defines general and specific competences of teachers. Digital competences <b>not</b> included
Teacher Ed	<b>Makerspaces – European Horizon 2020 project – secondments in different European countries</b>
Schools Grassroot	Educamp style workshop become popular Makerspaces start in many schools/school districts – group of female educators start collaborating UTÍS – group - conferences



# New online wave with COVID

<p>Internat. National</p>	<p>Education policy (2021) emphasizes teacher education and opportunities for PD considering needs of society, including needs for digital skills. Menntaflétta – online courses – w EducationPlaza</p>
<p>Teacher Ed</p>	<p><b>Online educamps developed</b> <b>Increase in synchronous online learning</b> <b>SELFIE – project</b></p>
<p>Schools Grassroot</p>	<p>SELFIE - project Online and blended learning develops further at the primary and secondary level</p>





## Current situation regarding teacher ed and competences

- **Teacher students at UISE can graduate with a B.Ed. specializing in ICT and Media as a main (60/180 ECTS) or supporting subject (40/180 ECTS) and take additional courses at the master's level.**
  - **Current courses: ICT in teaching and learning, coding and makerspaces, playful learning and technology, digital content creation, online and blended teaching and learning, and ICT and school development.**
  - **DigCompEdu model considered as a tool for further development**
- **No core course/curriculum for all teacher students in ICT**

## Current situation regarding teacher ed and competences

- University of Iceland policy for 2021-2026 prioritizes development of digital teaching methods, distance learning and open online courses.
- UISE in forefront regarding DE at the university, recently published recommendations for further development.
- Plans at UISE for increased emphasis on innovation education and makerspaces
- Important networking and sharing with Dicomten!