



Lars Lingman

**Director of Education – ICT in Education
Swedish National Agency of Education**

lars.lingman@skolverket.se

 [@LarsLingman](https://twitter.com/LarsLingman)

Skolverket

National strategy

Key findings

1

Challenges

The Swedish school system should be at the very forefront in optimizing the potential of digitalization in order to achieve high digital competence in children and students and to promote knowledge development and equivalence.

The Swedish school system should be at the very forefront in optimizing the potential of digitalization in order to achieve high digital competence in children and students and to promote knowledge development and equivalence.

Digital competence

**Equivalence in access
and usage**

Research

National strategy

Key findings

Challenges

1

Digital competence

**Equivalence in access
and usage**

Research

Digital competence Students



Skolverket

Digital competence Students

*All children and pupils should develop
adequate digital competence.*

/Nat. strategy for digitalisation

Digital competence Students

1

- *understanding the digital transformation of society and how it affects us*
- *ability to use digital tools and media*
- *critical and responsible approach to digital technology*
- *creativity - to put your own ideas into action and to solve problems using digital technology*

DLAR UPP:

(Marc)
(Katarina)
(Nancy)
LÄT STA!!

seminarium
Arnes
nningar ☺

kl. 14.00
ledarmöte
ulan inför
övning

h-n
h-n

Digital competence Teacher

420 a) $2 \frac{4}{3} =$

V. 45 lediga tis&tors.
de som har individuellt
val ska gå på det!

fredag 18/11
prov HÄP !



Digital competence

Teacher

2

In house collaborative learning material
Web based training
University courses
Conferences

Digital competence

Teach & learn in tech dense classrooms

Digital storytelling

Critical use of the internet

Safe use of the internet

Digital tools in kindergarten

Synchronous learning

Language

Writing in digital environments

Thematic procedures and digital tools

Technology

The digital world

Innovation and construction

Natural science

Digital tools in natural science

Mathematics




Algebra

Teaching math with digital tools

Programming

Programming for every teacher

Programming 7,5 ECTS

-  In house collaborative material
-  Webb course
-  University course

Digital competence Leaders



Digital competence Leaders

3

Strategically lead digitalization

/Nat. strategy for digitalisation

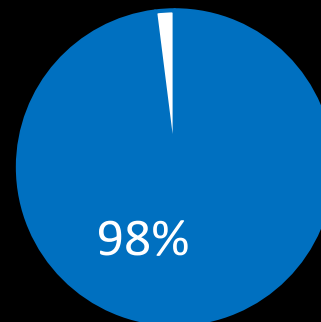
Digital competence

**Equivalence in access
and usage**

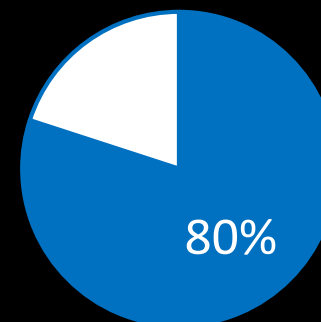
Research

1to1 penetration

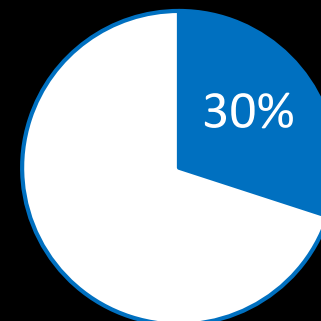
Year 10-12



Year 7-9



Year 1-6



Numbers are estimates as of spring -18.

Digital competence

**Equivalence in access
and usage**

Research

Digital divide

Do Do not

Have Have not

4

Digital competence

**Equivalence in access
and usage**

Research

All students – equal access

*Purposeful infrastructure.
Technological and pedagogical
and support*

*Purposeful digital learning
resources*

*Digital tools shall facilitate
administration and teaching*

Digital competence

**Equivalence in access
and usage**

Research

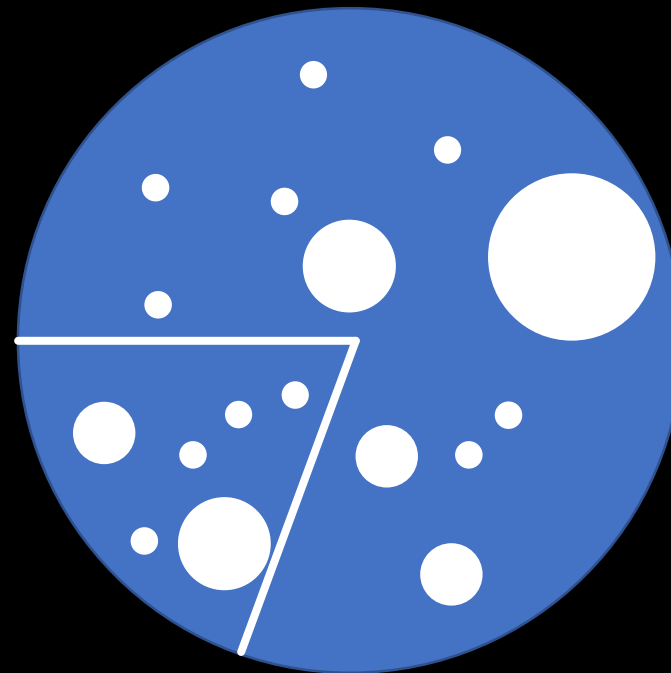
*How is digitalisation affecting
teaching and learning*

*Monitoring the progress of
digitalisation in the school
system*

Digital competence

**Equivalence in access
and usage**

Research

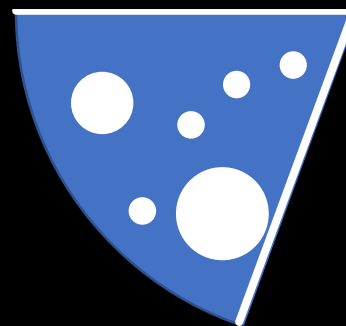


Digital competence

Equivalence in access
and usage

Research

5





Key findings

5

5

Key findings

Adequate digital competence

Competence building is key

How to lead strategically

2 levels of digital divide

Make research accessible



Challenges

Skolverket

Decentralised school system

Equality

Programming

Teacher education

Challenges



Lars Lingman

**Director of Education – ICT in Education
Swedish National Agency of Education**

lars.lingman@skolverket.se

 @LarsLingman

Skolverket