FOUS innovation, research and development in schools and pre-schools

Storuman

Research and development program:

Digital learning environments - equal education with remote and distance learning

Anna Åkerfeldt

Ph.D. researcher Stockholm University, MND & Project- & process manager at Ifous, <u>www.ifous.se</u>

Region Östergötland

Gotland

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Linköping

Research interests:

Teaching, learning and assessment with the use of digital technologies

Research project: Programming didactics learning and assessing programming in primary education

MARCUS AND AMALIA WALLENBERG FOUNDATION

Swedish EdTest - Sweden's first national EdTech testbed https://edtest.se/ SWEDISH Edtest.

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Research project: Remote and distance education

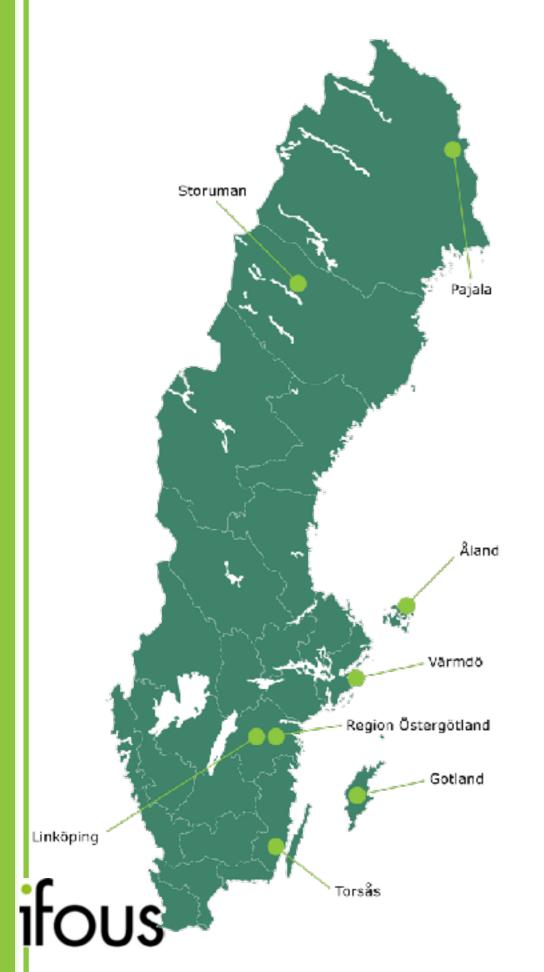
anna@annaakerfeldt.se | Twitter: @annaakerfeldt | www.linkedin.com/in/annaakerfeldt

Research and development program:

Digital learning environments - equal

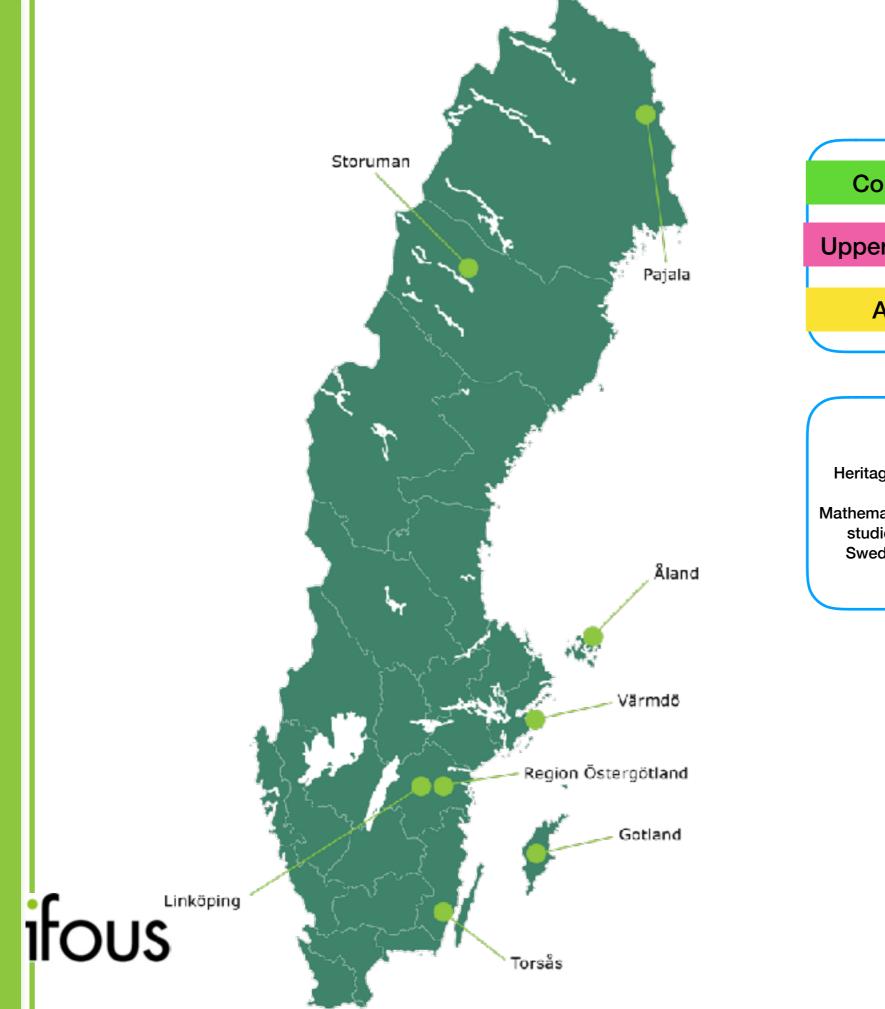
education with remote and distance learning

	About the program	Experiences so far	0
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Participants:

- 8 school organisers (skolhuvudmän)
- Aprox. 60 participants
 - Each school organiser has a group of teachers that works to develop their practice
 - The group is lead by a local process manager
 - Decisions are made in a steering committee
- Researchers:
 - Charlotta Hilli, Åbo Akademi
 - Anna Åkerfeldt, Ph.D.



Compulsory school

Upper secondary school

Adult education

Subjects

Modern language Heritage language (Mother tongue tuition) Mathematics, English, Music, Science studies, Social study subjects, Swedish, Swedish as a second language

Longterm goal is to...

... with the support and use of digital technology create a more efficient use of teachers resources regardless of geographical location and thus increased conditions for equal access to education.

The aim with the program:

- further, develop didactic methods in remote and distance education and develop the teacher's role when teaching online
- strengthen the ability of school principals to offer good quality remote and distance education and, in the long run, contribute to a more equal education.
- in collaboration between the school's professions and researchers, increase the knowledge of teaching in digital environments.



Design based research - working closely with the participants

Survey - 2019

- 47 teachers / ICT teachers
- 4 principles and school leaders

Focus groups, observations, meetings

- 12 focus groups interviews
- Approx. 10 observations
- Meetings (webinaries, local process management meetings)

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Challenges - teachers

- Design of material in digital learning environments
- Social relations online (How to establish and maintain relations with the students and how to organise for collaborating work)
- Assessment
- Design of tasks (group as well as individual tasks)

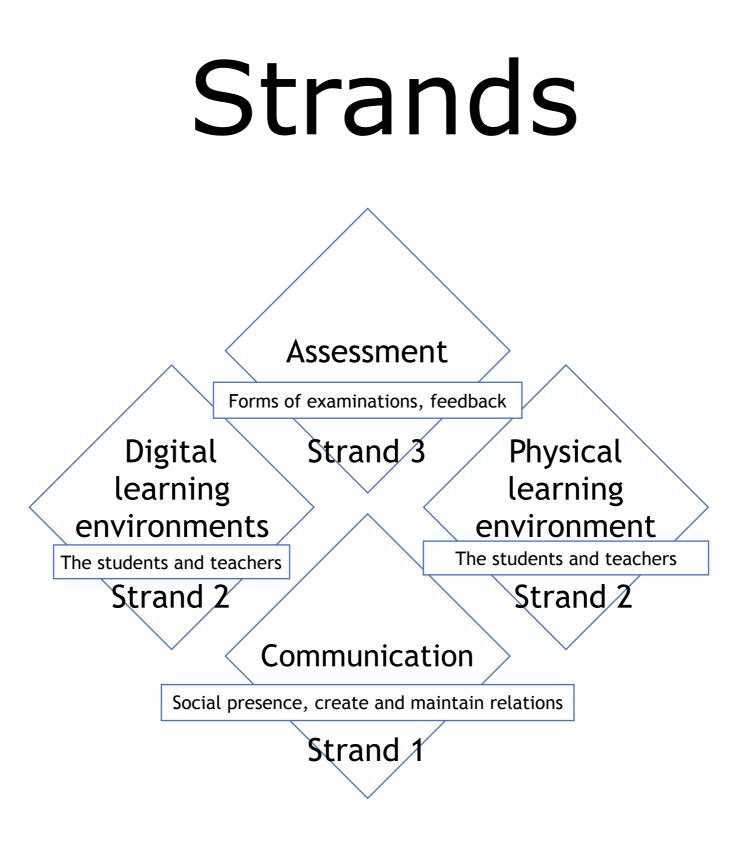


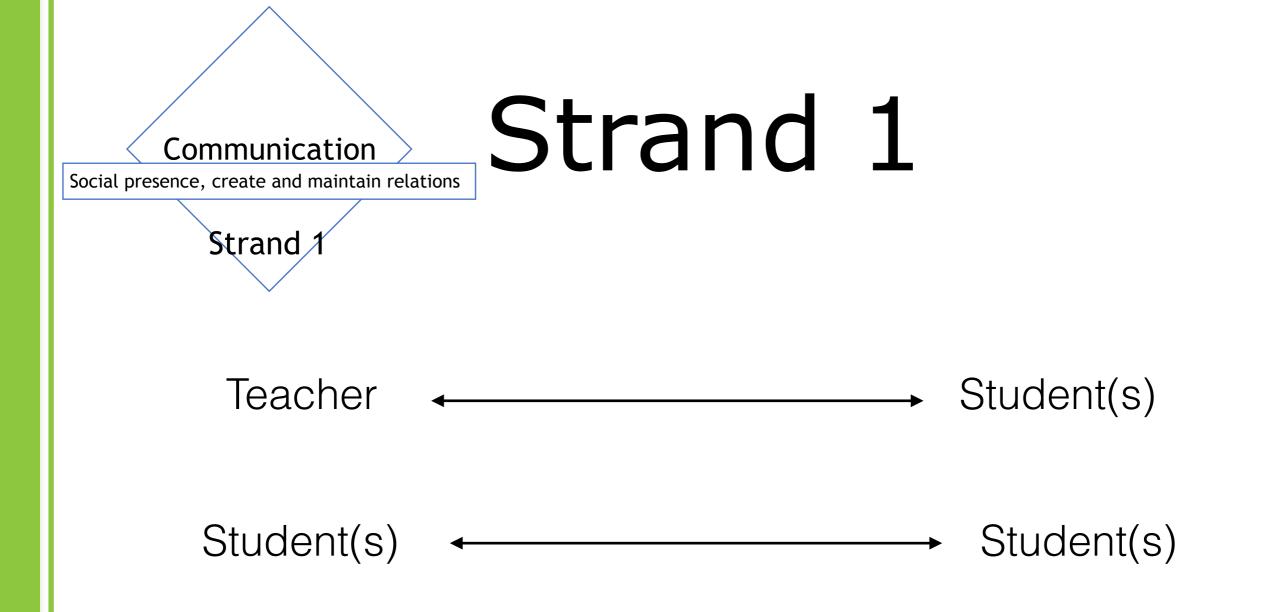
Challenges - School leaders

- Legislation
 - (legally and workable solution with assessment)
- Professional development and to share knowledge
- Technologies (hardware and software)
- Attitudes towards the use of technologies and to teach remote and distance education
- Develop teachers digital competencies
- Lack of educated teachers
- Forms of recruitment (hard to offer full-time employments)

Prominent themes:

- professional development (digital competencies, sharing knowledge and experience)
- communication and social relations,
- assessment,
- legislation,
- design of material in digital learning environments

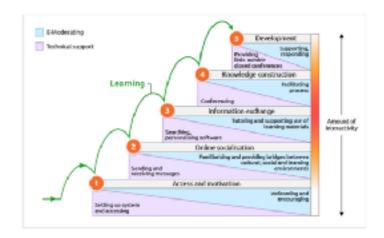




Synchronous and Asynchronous Communication Social presence

Guided by for example:

- G. Salmons e-tivities and five stage model of online teaching
- D. Laurillard ABC design
- research articles



Communication in remote and distance education work in progress...

Remote education: Create

student - student activities

Adult education: Establish

and maintain communication in order to reduce students drop outs.

Methods:

- Involve the students by targeting their interest
- "Less is more"
- Meta reflections (Exit-tickets, discussions about the course)
- Create opportunities to see each other (upper secondary school)

Methods:

- Use synchrony communication (email, chat)
- Check-in tasks every week
- Important that the teacher maintains the communication
- Always have an "open channel"

Prel. results Communication in remote and distance education

Tendencies towards....

- Teachers: An active and systematic approach to designing online communication new methods, routines are being developed
- Increased students communication (remote/fjärr)
- Increased number of students that receives grades (upper secondary school) and follow through courses (adult education)

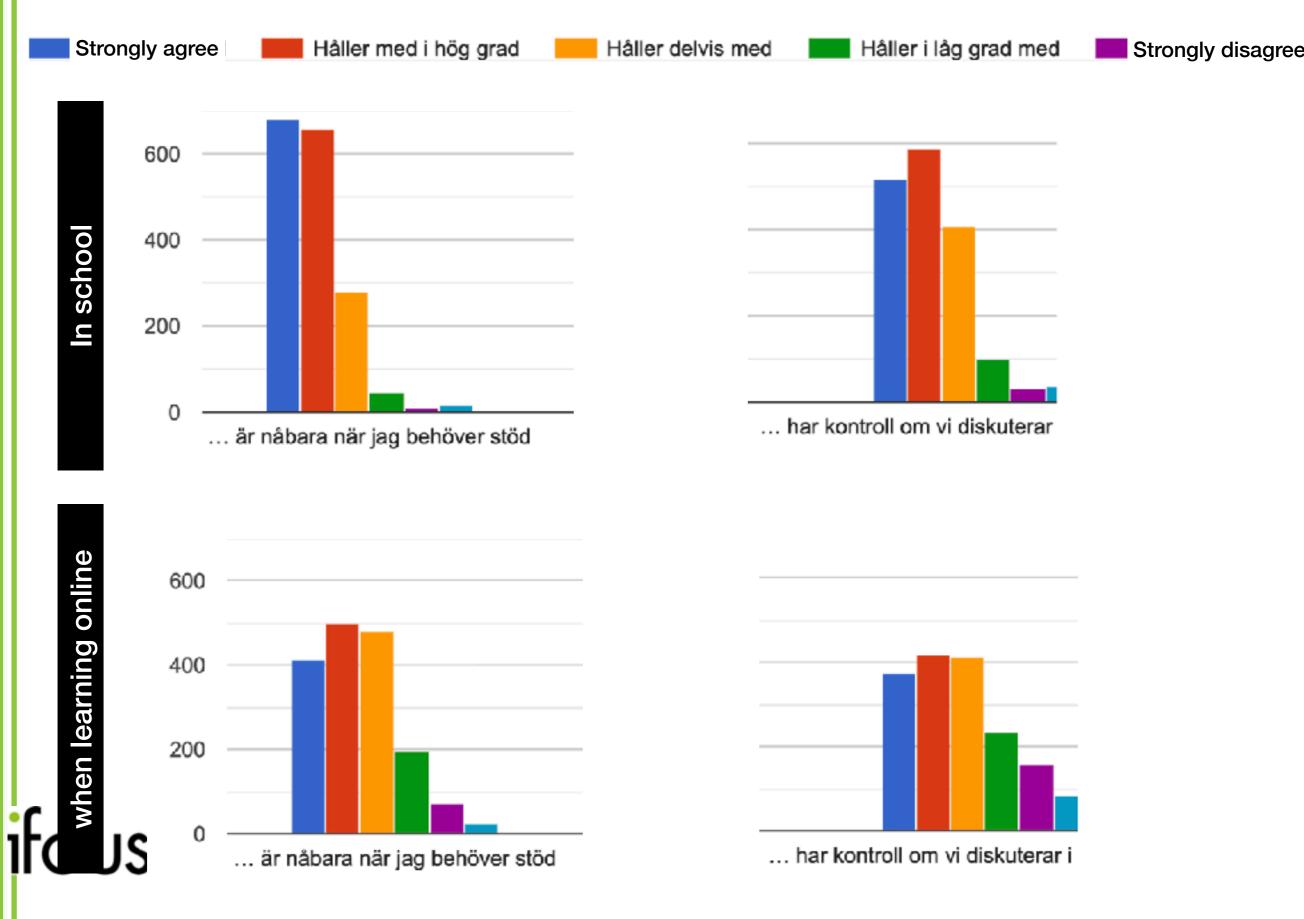
Survey - upper secondary students work in progress...

Online learning climate scale (OLCS)

Renee Kaufmann, Deanna D. Sellnow & Brandi N. Frisby (2016) The development and validation of the online learning climate scale (OLCS), Communication Education, 65:3, 307-321, DOI: 10.1080/03634523.2015.1101778

As of today: 1 668 students answer

The teachers....



... a selection of frequent comments from the students:

What is the most challenging when study online? 1524 answer

- To get help and support from the teacher
- To get something done
- Nothing
- Loneliness (missing classmates)
- Group work
- Get up in the morning
- Motivation
- Boring
- Group work, discussion
- To separate school from leisure (lack of rhythm)
- Practical subjects (music, physics)

FOUS... innovation, research and development in schools and pre-schools

Thank you!

Anna Åkerfeldt, Ph.D., Project-,& Processleader Ifous

anna.akerfeldt@ifous.se | @annaakerfeldt

www.ifous.se | @ifous1

