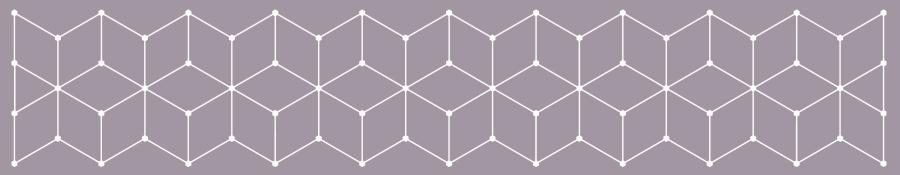




Developing Teachers' Professional Digital Competence (PDC)? An example from BlendVET in Norway



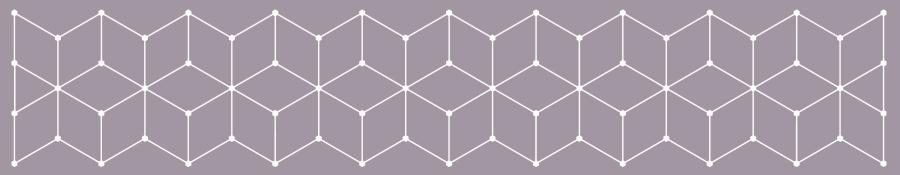


REPUBLIKA SLOVENIJA MINISTRSTVO ZA KOHEZIJO IN REGIONALNI RAZVOJ



() Østfold University College

Developing Teachers' Professional Digital Competence (PDC)? An example from BlendVET in Norway





Who are we?

- Sonja Nygaard-Joki, Assistant Professor, ICT in Teaching and Learning
- Eva Martinsen Dyrnes, Associate Professor, Vocational Education and Training
- Stine Brynildsen, Assistant
 Professor, ICT in Teaching and
 Learning





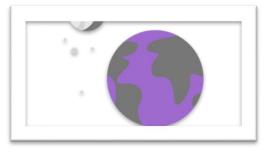
The ØUC Faculty of Teacher Education and Languages



- > Campus in Halden
- > Four departments:
 - > Department of Education, ICT and Learning
- Educate student teachers in our master programs to all school levels (Kindergarten – Primary School -Secondary school)
- Continuing professional development of teachers
- Ca. 2 700 students
- > Ca. 170 members of staff









Teaching and learning in digitally infused environments (online and pysical)

MOOCS (Massive Open Online Courses) Teachers' professional digital competences

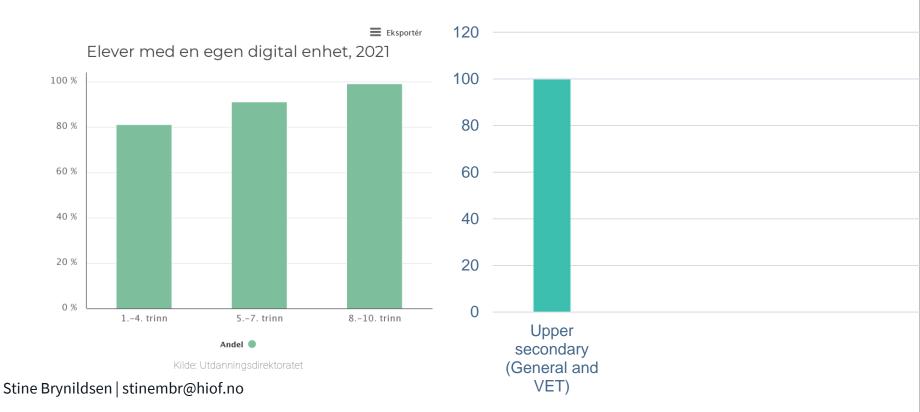


«The digital state» of Norwegian schools

- Digital skills is both a basic skill and integrated in all school subjects' curriculum
- Understood as a prerequisite to learning and taking an active part in society and work life
- Very good digital infrastructure, 1:1 devices for the vast majority of pupils & other digital equipment at schools



Pupils with 1:1 devices (PCs, iPads, Chromebooks)





«The digital state» of Norwegian schools

- Digital skills is both a **basic skill** and **integrated** in all school subjects' curriculum
- Understood as a prerequisite to learning and taking an active part in society and work life
- Very good digital infrastructure, 1:1 devices for the vast majority of pupils & other digital equipment at schools
- Pupils' learning outcomes **depend** on what the teacher does and how – when teaching in digitally infused classrooms (e.g. Blikstad-Balas, 2019; Krumsvik, 2013).
- Teachers in Norway, and internationally, state a **need** to continuously develop their digital competence



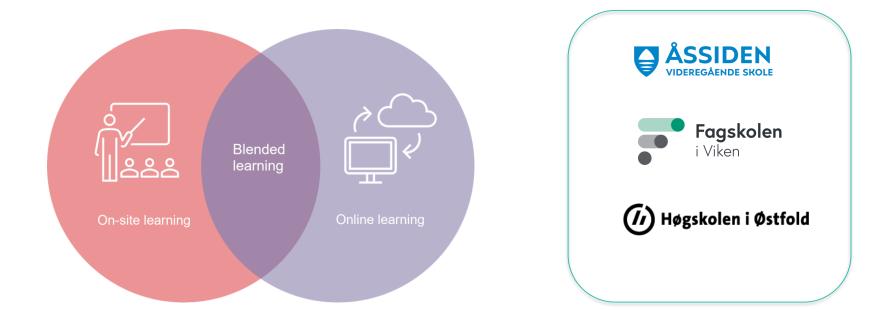
What is **Teacher's** Professional Digital **Competence**?



(Kelentric et al., 2017)

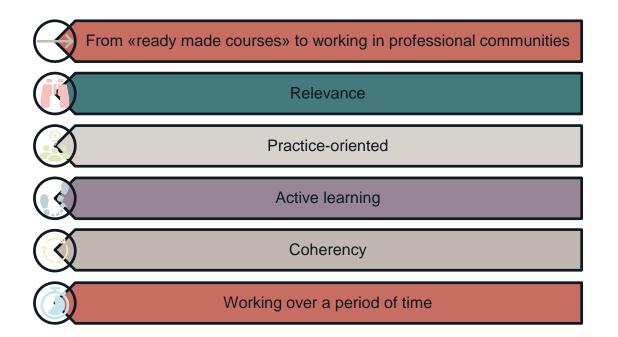


The Norwegian BlendVET partner schools





Good starting points for continuing professional development:



(Inspired by Desimone, 2009, Opfer & Pedder, 2011; Postholm, 2018)



Inspired by action research/ action learning:

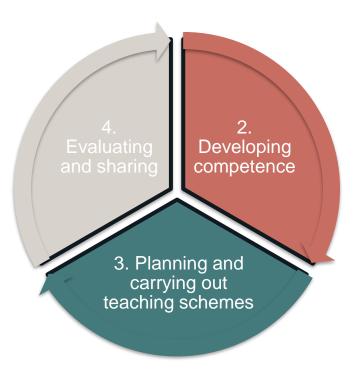






- 1. Flipped classroom methodolgy
- Pedagogical and didactical use of Microsoft Teams and OneNote Class Notebook
- 3. Using and producing videos and podcast

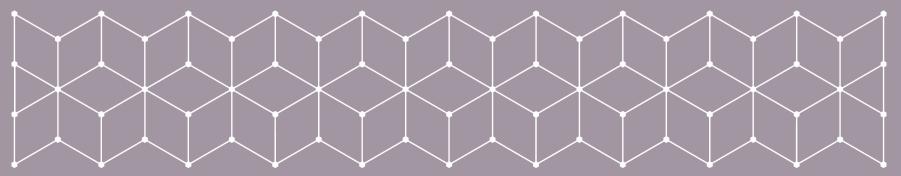




- > October 2022- March 2023
- > Three «competency packages»
 - > Flipped classroom methodology
 - Microsoft Teams and OneNote Class Notebook
 - Using and producing videos and podcast
- "Learning loops"
 - > Physical or online meeting with input
 - > Work with online resources
 - > Plan and carry out teaching
 - > Physical or online meeting to share and evaluate



EXAMPLE Learning loop 1: Flipped Classroom methodology





Kick-off at Åssiden





Online resources



Dobrodošli! 😉

To je skupna zbirka virov v Wakeletu za učitelje, ki so del sodelovanja BLENDVET med Østfold University College, Åssiden vgs. in poklicno šolo v Vikenu. Deloval bo kot tako imenovana "vmesna misija" med zbirko 1 v Drammnu 12.10. in Zbirka 2, ki je digitalna na Teams 30.11.

...

Glavna tema: Blended learninng a kot oblika mešanega učenja, ki lahko olajša aktivno poučevanje učencev v tehnološko bogati učilnici.

Glavni cilj v časovnem obdobju med 12.10. - 30.11. je, da načrtujete, ustvarite in izvajate program poučevanja, ki temelji na metodi Flipped Classroom.

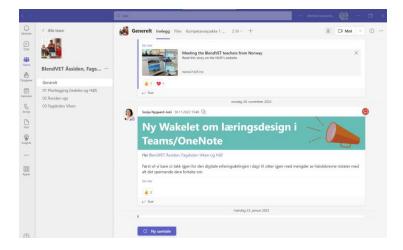




Planning & teaching

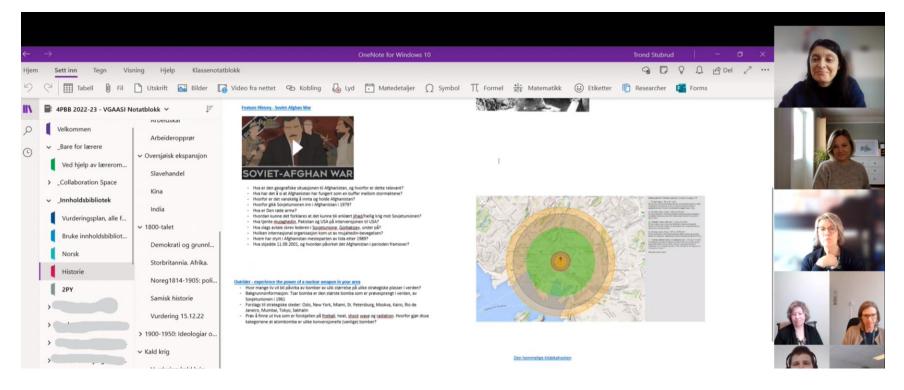








Evaluating & sharing



When?	What?	How?
October 12th	Kick-off with all partners for competency package 1: Flipped Classroom	Meeting at Åssiden (Åssiden, FIV, ØUC)
October - November	 Teachers working with online resources, planning and teaching Opportunities for guidance by ØUC 	 At the schools Digitally (Teams, e-mail etc.)
November 30th	 Meeting with all partners – sharing & evalutating Kick-off for competency package 2: Teams and OneNote 	Videomeeting (Åssiden, FIV, HiØ)
December- February	 Teachers working with online resources, planning and teaching Opportunities for guidance by ØUC 	 At the schools Digitally (Teams, e-mail etc.)
February 1st	 Meeting with all partners – sharing & evalutating Kick-off for competency package 3: Videos and podcasts 	 Meeting at Campus Remmen (Åssiden, FIV, HiØ)
February-March	 Teachers working with online resources, planning and teaching Opportunities for guidance by ØUC 	 At the schools Digitally (Teams, e-mail etc.)
March 30th	Final meeting – sharing, evaluating & concluding the three competency packages	Videomeeting (Åssiden, FIV, HiØ)



Impact & results?

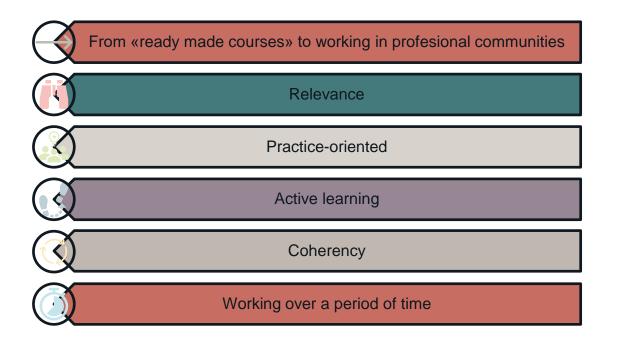
I'm a newly educated teacher, so to me everything feels new [...] But what I've appreciated is that this project has given me expamles of ways of doing things [...] I've become more aware of how different teaching methods may complement each other My own learning outcome has been really good. I've been able to develop myself and my own teaching methods [...] and I've appreciated these meetings where I've heard other teachers share what they have done. That's really valuable.

I have changed my teaching practices quite a lot. When I looked at my last planning document I realized that I had used all the [flipped classroom] principles and made use of content from all of the competency packages...

To me the combination of hearing what fellow teachers have done and to get theoretical, but also practical, input from you [ØUC] has been very valuable. It's made me think about and develop my own teaching.

I think this [flipped classroom] is something all teachers at our school should learn about and make use of. I believe the students' learning outcomes increase when they get to actively make use of their subject knowledge and skills.





(Inspired by Desimone, 2009, Opfer & Pedder, 2011; Postholm, 2018)