

What actual impact is AI having on teachers' workdays?

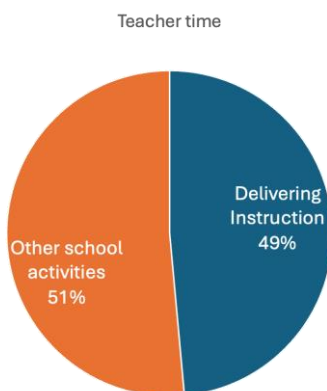
 [#2500101: Exploration and adaptation of experience sampling to understand the impact of artificial intelligence tools on the work of teaching](#)

Background

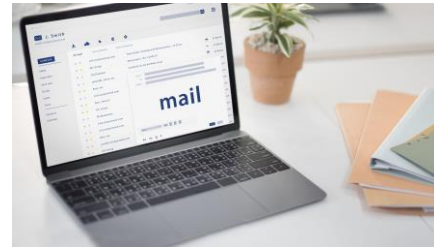
One assumed benefit of AI for teachers is increased efficiency and time savings from its use. Teachers have extensive responsibilities and often have so much work that it extends their work time in many ways.



Beyond personal experience, we have broad stroke information about teachers' work from NCES data that has limited detail.



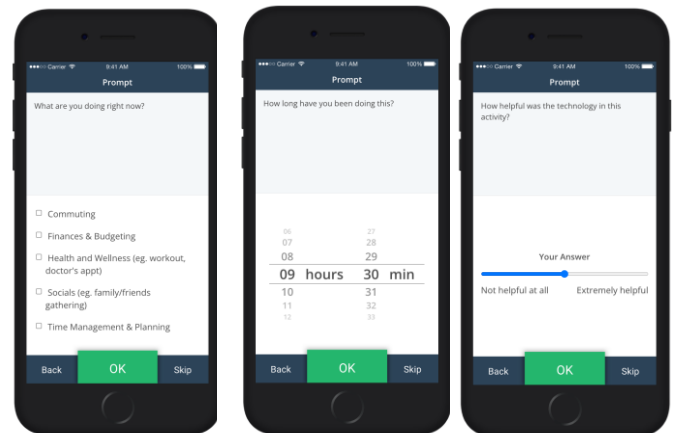
But...



New efficiency technologies can backfire and lead to more work or new challenges. Think: E-mail (that has sped communications but created more work and stress)

But optimistically, if AI is going to have good effects on teacher work, how will we know?

What about experience sampling?



Methods

- Working with one AI-supportive school district
- Co-designing experience sampling instrumentation to be suitable for questions related to AI and teaching
- Collected hourly pilot data over 1 week with 9 teachers

Challenge Area

Experience sampling should be quick. But there are important nuances to capture with AI (e.g., teacher use vs student use with teacher oversight).



Day	Teacher	AI Support	AI Support	AI Support	AI Support	AI Support
MON	1	*	*	*	*	*
TUE	2	*	*	*	*	*
WED	3	*	*	*	*	*
THU	4	*	*	*	*	*
FRI	5	*	*	*	*	*
SAT	6	*	*	*	*	*
SUN	7	*	*	*	*	*
MON	8	*	*	*	*	*
TUE	9	*	*	*	*	*



Also, attrition and missing data are persistent concerns.