

EPRA
Vienna University Workshop

Evidence Based Regulation - Youth Engagement in the Digital Environment

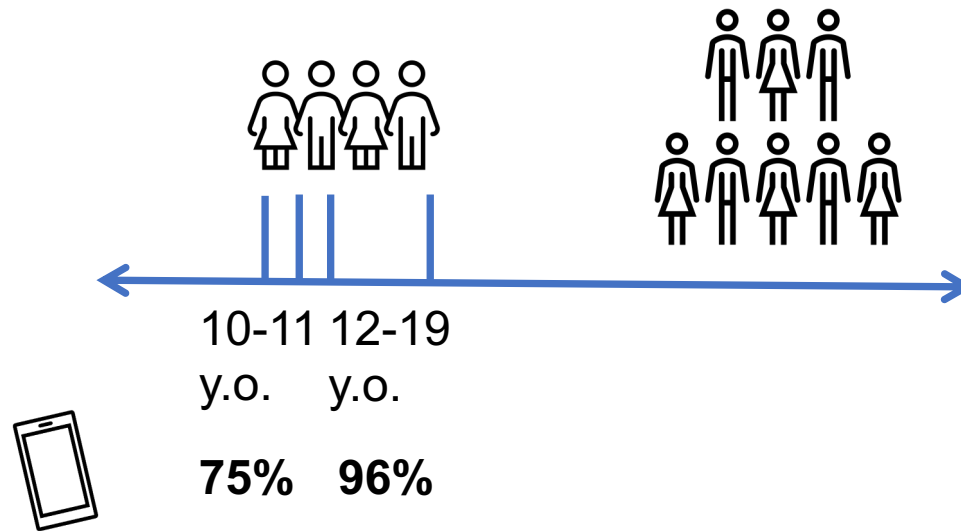
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Relevance



The most used applications on smartphones are **social media networking sites**, 89% of reported usage rates.

Sources: Gfk, 2018; JIM-Studie, 2020; Global Web Index, 2019; Tenzer, 2020

Overview of presentation and studies

- **Study 1. Nighttime smartphone use among children and early adolescents**
 - 29% of teens keep their smartphone in bed
 - 36% check their smartphone at least once at night (Common Sense Media, 2019)
 - Sleep deficit or frequent sleep interruptions could result in negative outcomes
 - difficulties with **sustained attention** during the day (Dahl, 1996)
 - children's **school performance** might suffer

Overview of presentation and studies

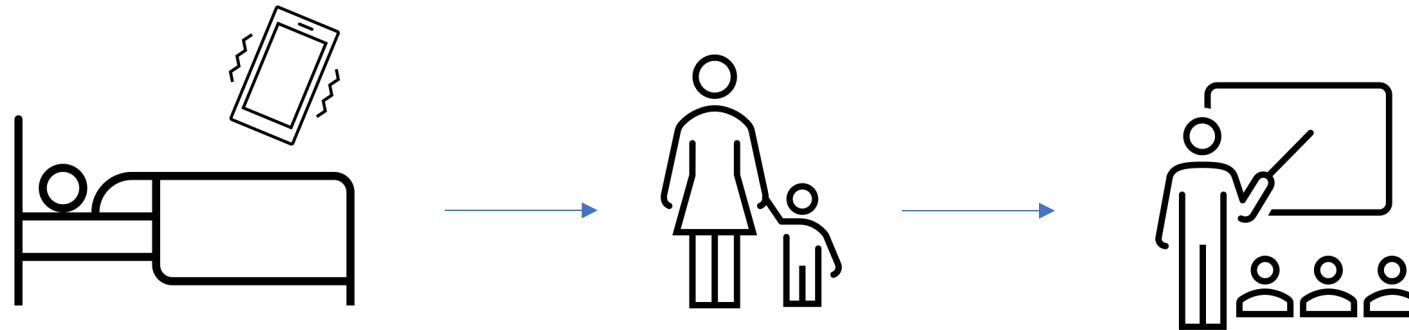
- **Study 2. Phubbing behaviors among late adolescents**
 - **Phubbing** → a situation when a person starts using their smartphone, while interacting with other people in real-life situations
 - During face-to-face interactions → almost constant **smartphone interruptions**
 - 85% of smartphone owners indicate using smartphones while talking to friends or family (Richter, 2018)

Overview of presentation and studies

- **Study 3. Reflective smartphone disengagement**
 - One of the projects in AdMe Research Group is developing a scale for smartphone disengagement
 - Efforts to disconnect from smartphone → attitudes and behaviors of disengagement in certain situations

Study 1: Nighttime smartphone use

- Longitudinal study with parent-child pairs
- Parents' reports of children's attentional problems
- Children's reports of subjective and graded school performance

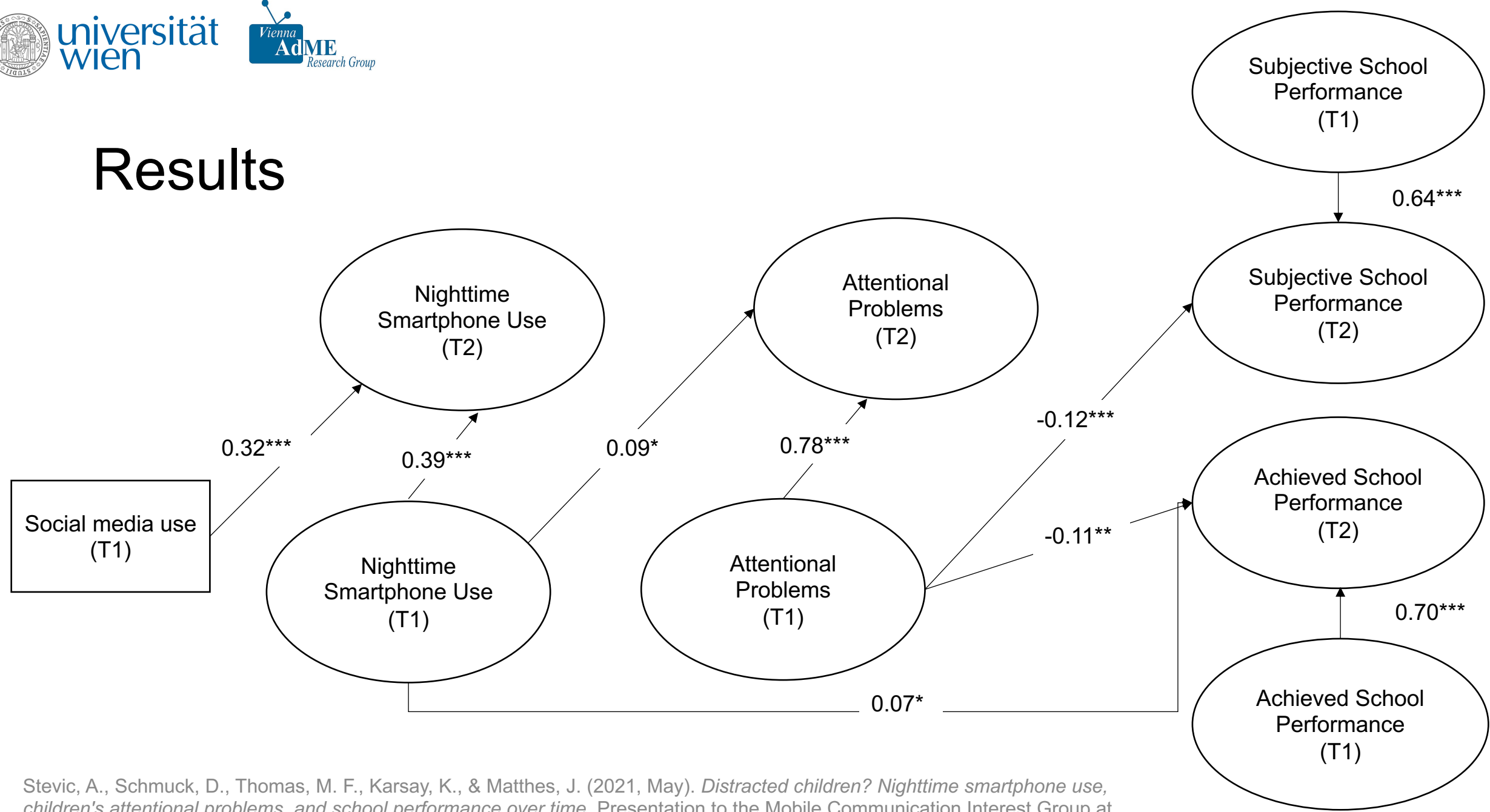


Method

- **Two-wave panel survey** in Germany (**four-month interval**)
- **Quota-sampling** based on parents' age and gender collected by polling institute
- **Children between 10 and 14 years** who possessed a **smartphone** and had used a **SNS** on their smartphone
- $N_{T2} = 384$ **parent-child dyads**



Results



Stevic, A., Schmuck, D., Thomas, M. F., Karsay, K., & Matthes, J. (2021, May). *Distracted children? Nighttime smartphone use, children's attentional problems, and school performance over time*. Presentation to the Mobile Communication Interest Group at the (virtual) 71st annual conference of the International Communication Association (ICA), May 27-31.

Discussion

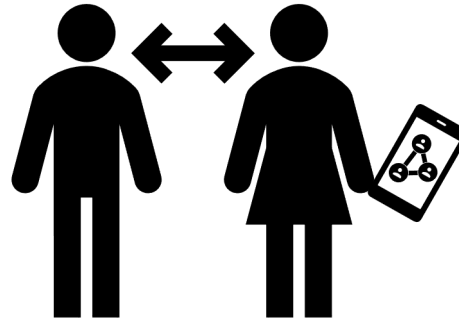
- **Children's nighttime smartphone use** increased their **attentional problems** over time → in line with previous cross-sectional parent-reported findings
 - This result suggests that postponed and impaired sleep is harmful to children's cognitive development after 4 months
- Parent-reported children's **attentional problems** negatively predicted **school performance**
 - Slightly stronger effect on subjective than on achieved school performance; children's own competence beliefs are more sensitive to parent-reports than to teacher-given grades
- Using the **smartphone** at **night** was **related to higher school performance**
 - One reason could be that children use smartphones at night for talking and chatting about school-related content and topics (e.g., Gikas & Grant, 2013)

Implications for regulation

- **Parents** could ensure **optimal (nighttime) smartphone use** and provide effective home learning environments for children and adolescents → having easily **accessible intervention programs** that help parents gain knowledge of how to monitor and regulate children's smartphone use
- **Teachers/educators** could make children aware of the negative consequences of nighttime smartphone use → intervention programs for children that help them gain **digital literacy skills** specific for online contexts should be designed and implemented through schools.

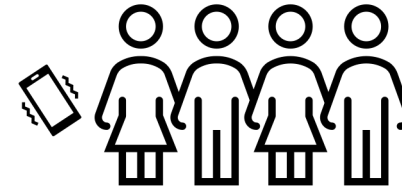
Study 2: Phubbing among adolescents

- Longitudinal study with late adolescents
- Adolescents' reports of own and others smartphone use in social presence

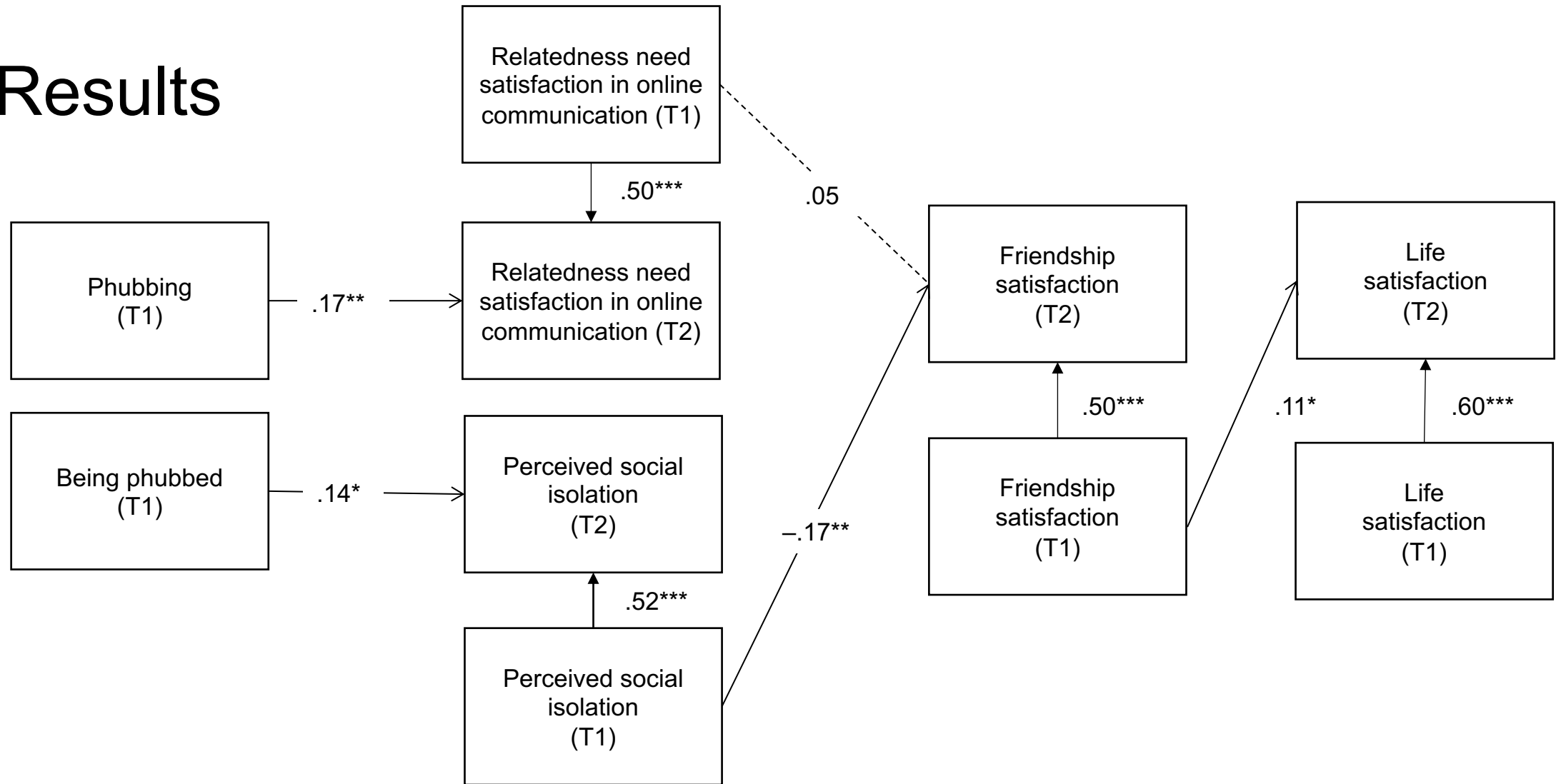


Method

- **Two-wave panel survey** in Germany ($N_{T2} = 294$)
- **Two-month interval**
- **Adolescents between 16 and 19 years**, who possessed a **smartphone** and had used a **SNS** on their smartphone



Results



Discussion

- Adolescents might engage in **phubbing** others because they may receive **social gratification** from their online contacts instead of their face-to-face partners
- Relatedness need satisfaction in online communication is not sufficient for friendship satisfaction over time, suggesting that face-to-face communication matters more
- In line with the **ostracism** theory (Williams, 2009), being with friends who frequently use smartphones might be one of the reasons why adolescents feel isolated and less satisfied in their relationships

Implications for regulation

- Raising awareness about the mobile etiquette for social situations
→ through digital literacy programs in schools
- Increase focus on digital well-being (Vanden Abeele, 2020) and disconnection from devices
- Positive outcomes of sharing screens and co-use of smartphones in youth and parent-child pairs (Floegel et al., 2021)

Study 3: Reflective smartphone disengagement in youth

- Sample of 16 to 20 year olds

Table 1. *Correlations*

		M(SD)	Min	Max	1	2	3
1	Reflective Smartphone Disengagement	3.73 (0.86)	1	5	1		
2	Nomophobia	2.61 (0.98)	1	5	-.19***	1	
3	Self-reflection	3.59 (0.88)	1	5	.23***	.15***	1

Note. $N = 760$, $*p < .05$, $**p < .01$, $***p < .001$.

Future research outlook

- Focus on individual social media use and content → benefits and risks
- Device requires attention → regulate or decrease attention given to the social media and/or smartphones
- Research on causes and implications of disengagement processes → taking a break from device or certain applications and disconnecting intentionally, switching applications or limiting time spent on applications

Conclusion

- Understanding benefits and risks of social media and mobile devices remains one of the most important challenges and continues to be a long-term research goal
- At times when digital technologies overtake most of individuals' daily time, the main objective is to understand and **ensure optimal use** that contributes to well-being



Thank you for your online attention!

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