Insert Coin to Continue

Microtransactions Among Adolescents in Austria: Heavy Spenders and Links to Pathological Behaviors





Insert Coin to Continue

Microtransactions Among Adolescents in Austria: Heavy Spenders and Links to Pathological Behaviors



UNIVERSITÄT GRAZ

Markus Meschik, PhD Dr. Natalia Wächter Elena Stuhlpfarrer, MA BA Johannes Fussi, MA Dr. Doris Malischnig



















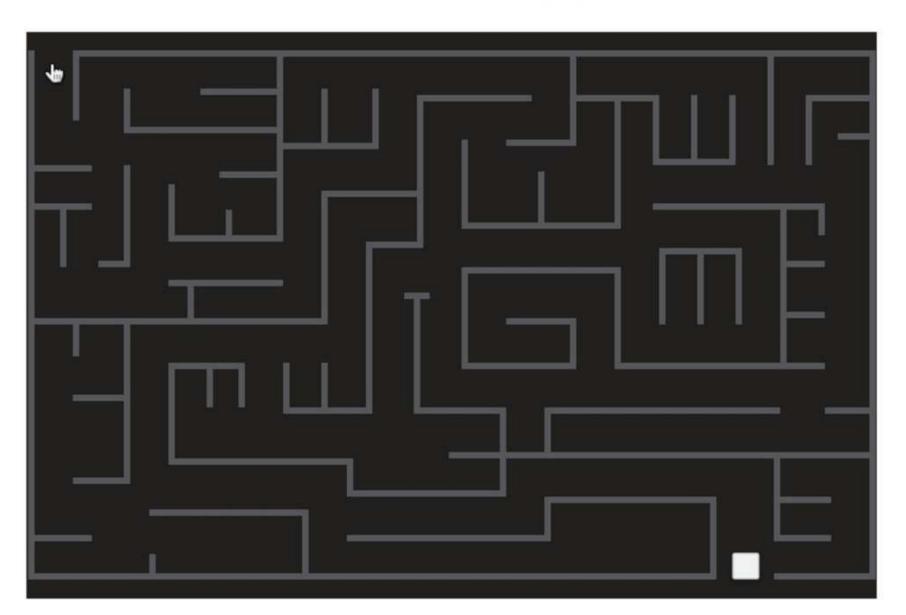








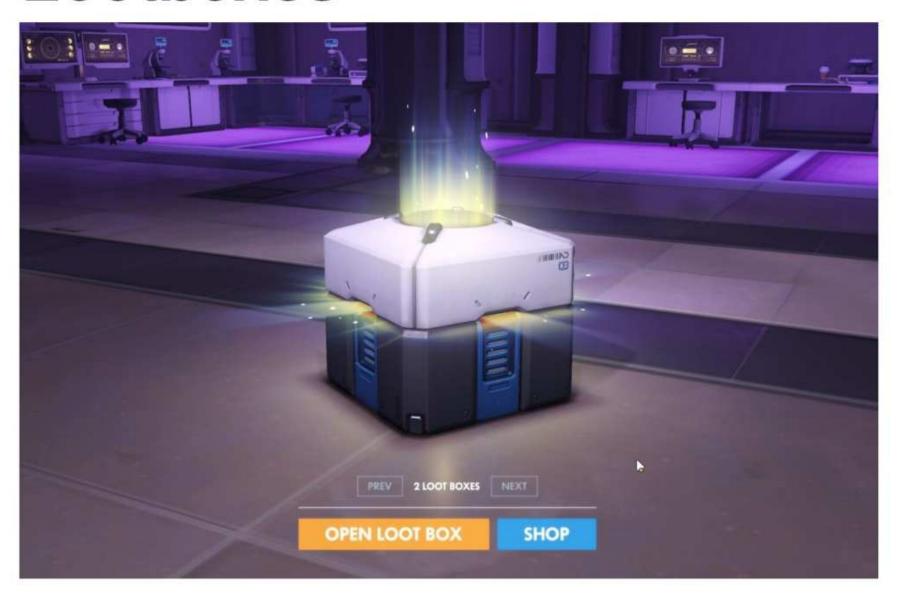
"Dark Patterns" Zagal, 2013



Artificial Scarcity



Lootboxes



Expense Concentrations

In the mobile game sector, 5.5% of the players generate 67% of the revenue.

(Fiedler et al. 2018: Die Konvergenz von Gaming und Gambling. Hamburg: Springer)











Research Questions

Why do adolescents spend money on Free-to-play games?

How much money do teenagers in Austria spend on in-game-purchases?

Who spends the most money?



Mixed Methods approach

Qualitative interviews and group discussions with 29 adolescents aged 13 to 24 years old

Quantitative survey of 2308 students aged 10 to 19 years from 82 schools

146 schools selected randomly; stratified sample; quotarepresentative with respect to federal state, school level, and school type

Instruments used:

- GDT (Pontes et al., 2021)
- BAGS (Stinchfield et al., 2017)
- FAS III (Torsheim et al., 2016)

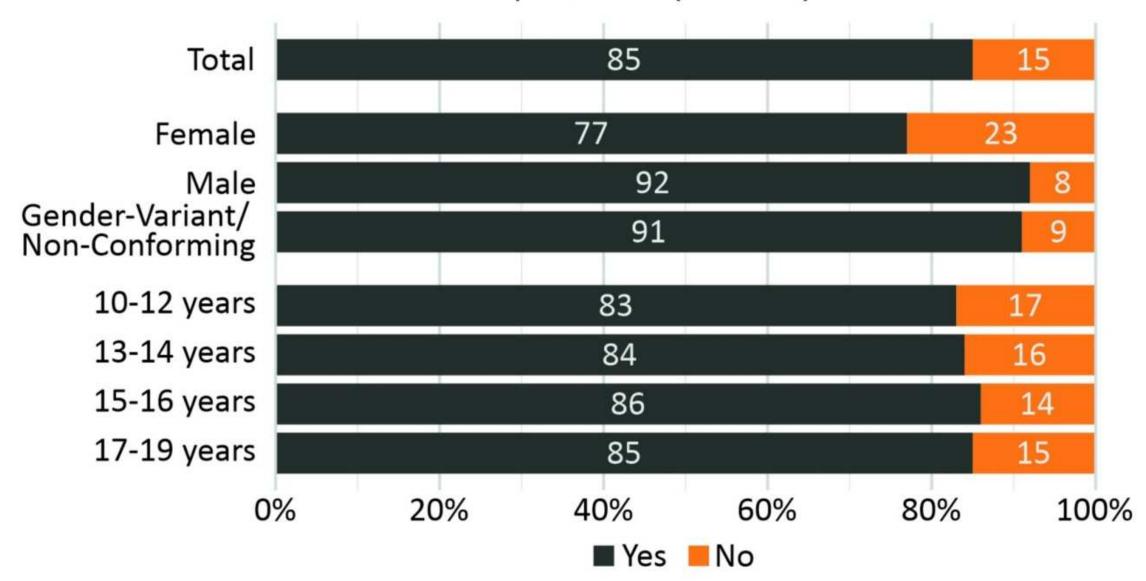




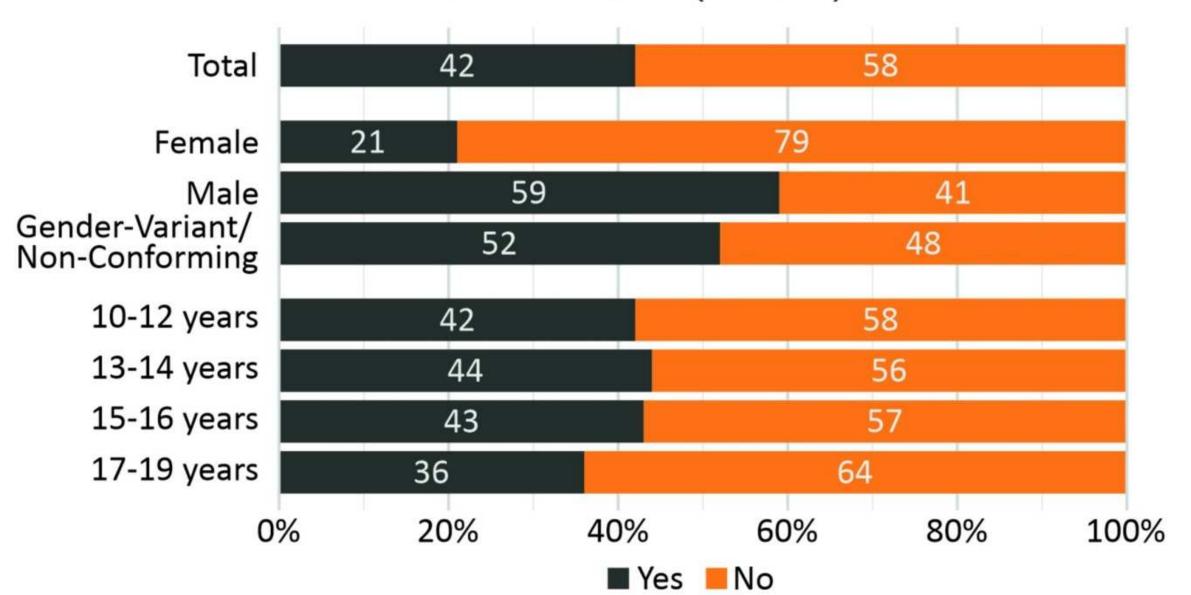




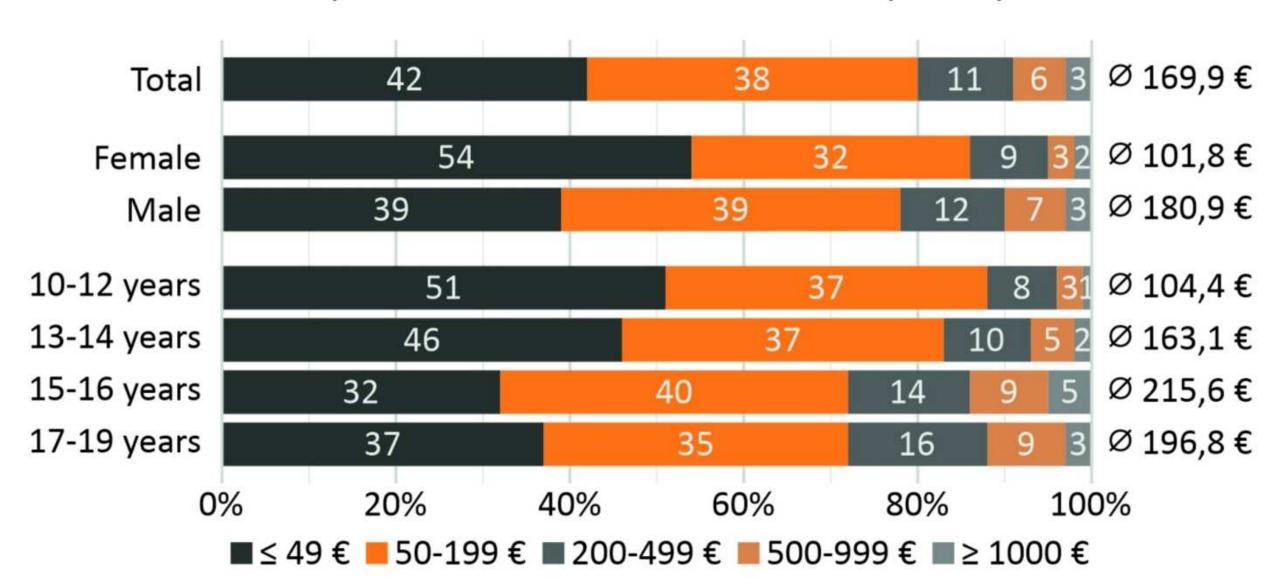
Have you ever played a game where in-game purchases are possible? (n=2308)

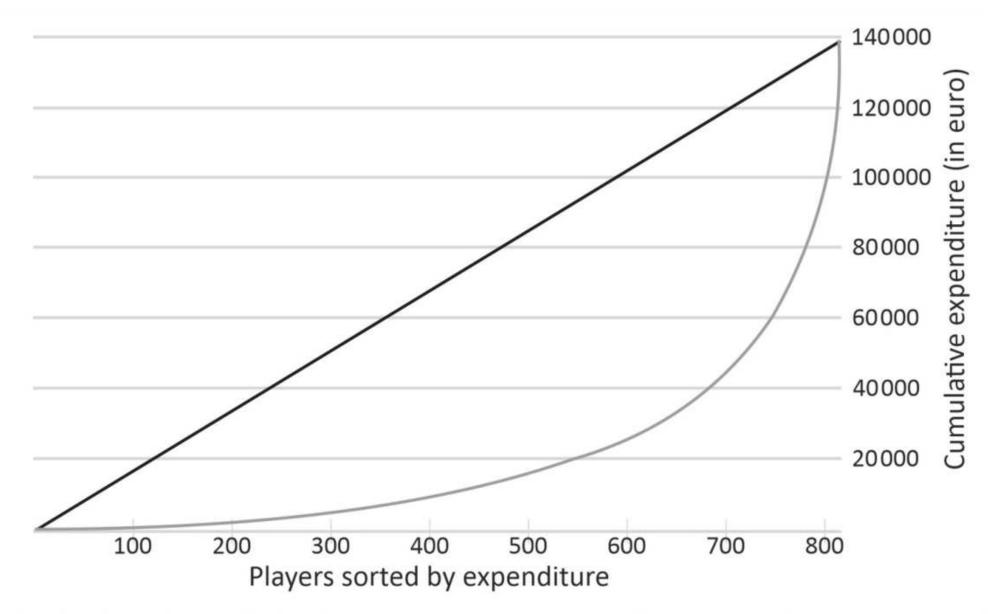


Have you made any in-game purchases in the last 12 months? (n=1952)



How much money have you spent on in-game purchases in the last 12 months? (n=818)





Distribution of cumulative in-game purchase expenditures over the past 12 months; n = 818 (adolescents who made in-game purchases in the past 12 months)

Heavy Spenders ("Whales")

Casual Spenders $(n = 733)^1$		Heavy Spenders $(n = 85)^1$	
Male	545 (74.3%)	Male	70 (82.3%)
Female	178 (24.3%)	Female	10 (11.8%)
Non-binary	10 (1.4%)	Non-binary	5 (5.9%)
Total	733 (100%)	Total	85 (100%)
10–12 years	188 (25.6%)	10-12 years	11 (12.9%)
13-14 years	226 (30.8%)	13-14 years	20 (23.5%)
15–16 years	213 (29.1%)	15-16 years	35 (41.2%)
17–19 years	106 (14.5%)	17-19 years	19 (22.4%)
Total	733 (100%)	Total	85(100%)
Gaming Disorder	31 (4.2%)	Gaming Disorder	12 (14.1%)
Gambling Disorder	17 (2.3%)	Gambling Disorder	15 (17.6%)

Distribution of the variables sex, age, gaming and gambling disorder for casual and heavy spenders

- Primary purchase motivations are 'to improve in the game' and 'because opening loot boxes is exciting'
- Influencers promoting pack openings and gambling are significantly more prominent
- Valorant, CS:GO and Genshin Impact are notably prominent

H1: Children from economically disadvantaged families spend as much money on in-game transactions as children from higher-income families.

H1: Children from economically disadvantaged families spend as much money on in-game transactions as children from higher-income families.

Kruskal-Wallis (H = 0.798, p = .671)

H1: Children from economically disadvantaged families spend as much money on in-game transactions as children from higher-income families.

Kruskal-Wallis (H = 0.798, p = .671)

Spearman R (rs = .013, p = .700)

H1: Children from economically disadvantaged families spend as much money on in-game transactions as children from higher-income families.

Kruskal-Wallis (H = 0.798, p = .671)

Spearman R (rs = .013, p = .700)

H2: The occurrence of a video game disorder correlates with the amount of money spent on in-game purchases.

H1: Children from economically disadvantaged families spend as much money on in-game transactions as children from higher-income families.

Kruskal-Wallis (H = 0.798, p = .671)

Spearman R (rs = .013, p = .700)

H2: The occurrence of a video game disorder correlates with the amount of money spent on in-game purchases.

Spearman R (rS = .257, p < .001)



 Analogies to classic gambling: reporting wins, concealing losses, high event frequency, chasing





 Analogies to classic gambling: reporting wins, concealing losses, high event frequency, chasing

"It already annoys me that I didn't get anything worthwhile for the money. Let's try it again; maybe it will improve, maybe I'll get something from a second pack to make the money back. You just want to somehow recover your loss, and eventually, you have such a high loss that you can't really make the money back anymore." (Jan, 17)



 Analogies to classic gambling: reporting wins, concealing losses, high event frequency, chasing

"It already annoys me that I didn't get anything worthwhile for the money. Let's try it again; maybe it will improve, maybe I'll get something from a second pack to make the money back. You just want to somehow recover your loss, and eventually, you have such a high loss that you can't really make the money back anymore." (Jan, 17)

 It is not so much the question, if in-game transactions are a gateway to gambling or other problematic behavior - they are problematic in themselves

Policy recommendations

Policy recommendations

To increase the inhibition threshold:

- Allow the purchase of only one item at a time
- Implement a cooldown period after a purchase
- Apply KYC Policies
- Impose stricter regulations on minors' access to prepaid cards











UNIVERSITÄT GRAZ



markus.meschik@uni-graz.at

THANK YOU MARIO!

BUT OUR PRINCESS IS IN ANOTHER CASTLE!



UNIVERSITÄT GRAZ



markus.meschik@uni-graz.at









Insert Coin to Continue

Microtransactions Among Adolescents in Australian Heavy Spenders and Links to Pethological Behaviors





