### More than loot boxes

### The role of video streams and gambling-like elements in the gaming-gambling connection among adolescents

**Eva Grosemans**, Rozane De Cock, Lowie Bradt, Bruno Dupont, Steven Malliet, Tim Smits, Bieke Zaman & Bart Soenens

KU Leuven, Ghent University, LUCA School of Arts Belgium



#### SIMULATED GAMBLING

= the blurring of lines between video gaming and monetary gambling. As a result, elements that resemble monetary gambling are increasingly appearing in video games.

"A digitally simulated interactive gambling activity that does not directly involve monetary gain but is otherwise structurally identical to the standard format of a gambling activity"

(King, Delfabbro, Kaptsis, & Zwaans, 2014, p. 305)



#### comment

#### Video game loot boxes are psychologically akin to gambling

Video games are increasingly exposing young players to randomized in-game reward mechanisms, purchasable for real money — so-called loot boxes. Do loot boxes constitute a form of gambling?

Associations between loot box use, problematic gaming and gambling, and gambling-related cognitions

RESEARCH ARTICLE

Video game loot boxes are linked to problem gambling: Results of a large-scale survey

Loot box engagement and problem gambling among adolescent gamers: Findings from a national survey

#### Loot box ban?

#### Belgium & The Netherlands Classify Loot Boxes As Illegal Gambling

Both Belgium and the Netherlands have now determined that video game loot boxes constitute a form of illegal gambling in the countries.

#### Adopt Me shuts down in The Netherlands and Belgium over loot box woes

Roblox title ceased operations September 13, plans to make changes that "could take a long time"

Qi GamesIndustry.biz

#### Study finds that Belgium's loot box ban isn't being enforced

A new study reveals that Belgium's ban on loot boxes within games has not been enforced. In 2018, the Belgian Gaming Commission recommended...

4 aug. 2022

G Game Rant

#### Loot Box Ban in Belgium Is Not Being Enforced, Says Study

Specifically, the Belgian Gaming Commission declared that loot boxes in video games were akin to gambling and therefore subject to the country's...

8 aug. 2022

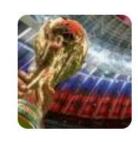
#### G GameSpot

#### New Study Finds Belgium's Loot Box Ban Is Barely Enforced

Back in 2018, the Belgium Gambling Commission found that loot boxes were a form of gambling and recommended criminal prosecution against...

5 aug. 2022







Xiao, L. (2022, July 28). Breaking Ban: Belgium's Ineffective Gambling Law Regulation of Video Game Loot Boxes. doi:10.1525/collabra.57641

## OTHER TYPES OF GAMBLING-LIKE ELEWENTS?

#### Social casino games

- Prize wheels
- Gambling-like elements in video game streams:
  - Loot box openings
  - Poker/gambling streams

## Research questions

How do **loot boxes** relate to teenagers' gambling attitude, intention, and behavior?

What is the contribution of other gambling-like activities in this relation, next to loot boxes?

## Method - Survey

- Flemish teenagers (10-19 years old)
- 13 high schools
- November 2021-March 2022
- Topics:
  - Simulated gambling behavior
  - Monetary gambling:
    - Attitude
    - Intention
    - Behavior



#### 2289 teenagers

45.4% self-identified as male, 53.1% as female, 1.5% as other/missing mean age = 14.1 years old

## 7460/0

Participation rate in simulated gambling games in the past 12 months

## Simulated gambling behavior

### Simulated gambling

(amongst video game players, in the past 12 months)

50.5%
SPINNING A PRIZE WHEEL

51.5%

OPENING FREE LOOT BOXES

24.8%

PAYING FOR LOOT BOXES

14.6%

SELLING ITEMS
FROM LOOT BOXES

8.6%

PAYING FOR ITEMS IN SOCIAL CASINO GAMES

43.1%

WATCHING LOOT BOX OPENINGS

22.3%

WATCHING GAMBLING STREAMS

## Monetary gambling attitude

Average attitude towards monetary gambling amongst teenagers (1-6)

## 

teenagers who do not participate in simulated gambling

teenagers who do participate in simulated gambling

# 

## Monetary gambling intention

Average intention to gamble amongst teenagers (0-10)

## 150

teenagers who do not participate in simulated gambling

teenagers who do participate in simulated gambling

# 

## 

Participation rate in monetary gambling games in the past 12 months

## Monetary gambling behavior

34.6% scratch cards

34.2% betting amongst friends

### BUT ARE THEY CORRELATED?

	Monetary gambling attitude	Monetary gambling intention	Monetary gambling behavior
Opening free loot boxes	.177***	.150***	.746***
Paying for loot boxes	.220***	.744***	.506***
Selling items from loot boxes	.288***	.167***	.517***
Buying items within social casino games	.266***	.154***	.631***
Watching loot box openings	.211***	.749***	.250***
Watching gambling streams	.296***	.251***	.451***
Spinning a prize wheel	.246***	.223***	.229***

# Hierarchical multiple regression analyses

#### **3 BLOCKS**

- Step 1:
  - Gender
  - Age
- Step 2:
  - Opening free loot boxes
  - Paying for loot boxes
  - Selling items from loot boxes

- Step 3:
  - Buying items within social casino games
  - Watching loot box openings
  - Watching gambling streams
  - Spinning a prize wheel

Dependent: monetary gambling attitude, intention, behavior

Model	Adjusted R square	R square change	Sig. change	
Dependent variable: monetary gambling attitude				
1. Gender and age	.005	.006	.007	
2. Loot boxes	.069	.066	<.007	
3. Other gambling-like activities	.124	.057	<.007	
Dependent variable: monetary gambling intention				
1. Gender and age	.012	.013	<.007	
2. Loot boxes	.037	.027	<.007	
3. Other gambling-like activities	.077	.042	<.007	
Dependent variable: monetary gambling behavior				
1. Gender and age	.016	.018	<.007	
2. Loot boxes	.329	.313	<.007	
3. Other gambling-like activities	.461	.130	<.007	

### SIGNIFICANT PREDICTORS

Gambling attitude	Gambling intention
Buying items in social casino games Watching gambling streams Spinning prize wheels	Watching gambling streams Spinning prize wheels
Gambling behavior	
Opening free loot boxes Paying for loot boxes Selling items from loot boxes Watching gambling streams	

Spinning prize wheels

# In conclusion... We ned more than loot boxes!

## In conclusion

- Simulated gambling and monetary gambling are popular amongst Flemish teenagers
- The two activities are significantly positively correlated
- Other gambling-like elements significantly predict monetary gambling, on top of loot boxes

#### WHAT DOES THIS MEAN?

- ✓ Loot boxes remain important
- ✓ Include other types of gamblinglike elements when researching simulated gambling
- ✓ Video game streaming is influential!
- ✓ Ban on gambling-like elements?
- ✓ Longitudinal research?
  - → Wave 2 + 3 Gam(e)(a)ble survey

# Questions?

# LET'S COMMECE



@EvaGrosemans
@gameable\_youth

www.gameable.info

