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## **Outline**

#### **The environment**

Looking For Raid (LFR) in World of Warcraft

#### The phenomenon

Perceived rampant greedy behavior vs. self-reported behavior

#### The framework

Game theory and Institutional Analysis and Design (IAD)

### The study

Focus groups and a survey

#### The results

## LFR Phenomenon

#### **Ethnographic observations**

November 29, 2011: Raid Finder released in World of Warcraft

- -Collaboration between 25 unknown players from different servers
- -Exploitation of pre-established loot rules
- -Effect on player behavior



# **Loot System Basics**

Players enter the raid tagged by role

-tank, DPS, healer

Loot also tagged for role and class

Players can roll "Need", "Greed", "Pass"

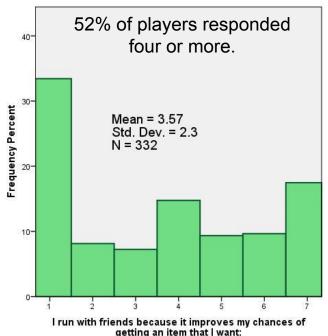
-Only players who match the loot tag can roll "Need"

## How to exploit the system

#### Loot items can be traded among raid members

-Bring a friend in your same class or role.

-both of you roll on items that one can use, and trade with each other



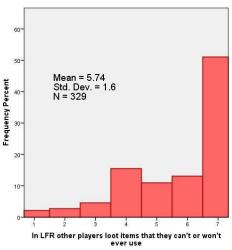


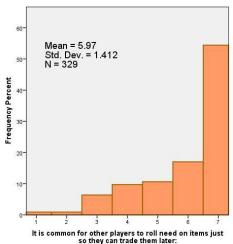
# How to exploit the system

#### If you're alone:

-roll "Need" on everything you can\*hope that you win something whether you actually need it or not

\*use that item to trade later for something you do need





## Focus Groups

Two focus groups conducted with a total of 10 players and an ethnographer.

Insights from focus groups confirm ethnographic observations.

-Players are angry about the behavior of unknown oth

-There is always somebody being a jerk about loot.

-Player fight back by gaming the system, and do so because "everybody else does it".

## Focus Groups

### Players generally report "rampant greed" in LFR

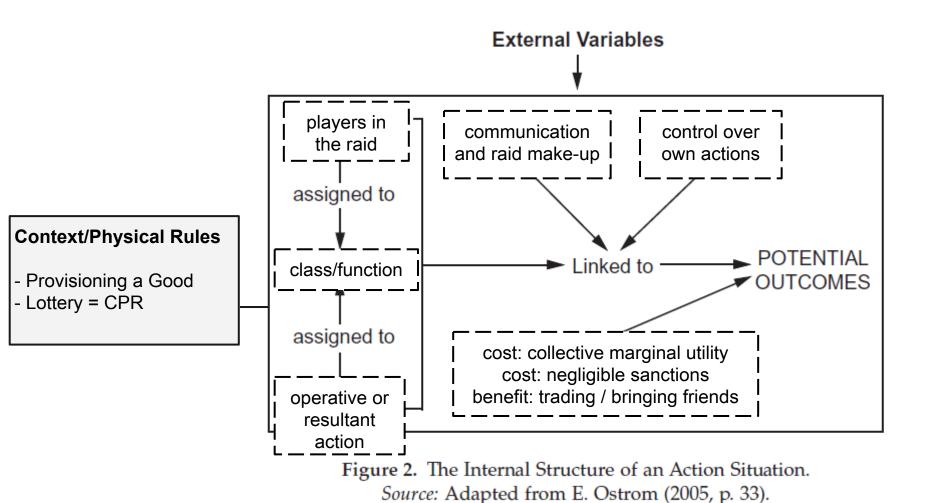
SC: "I just expect everybody to need on everything and that's pretty much going to be the case whether it's need, whether it's offspec, whether they're just being jerks about it."

### Does this cause players to change their behavior?

DG: "...to be honest, the only reason I [trade items with friends] is because I just get pissed off so much that other people are needing on stuff when they obviously have 397 [better gear]. Which again, it's probably the same way, they might be doing this too, but I can't know that for sure, so I do it. I do it to help my friend out, give him a chance to get gear."

...smells like Game Theory.

## **IAD Framework**



## The Survey

54 questions constructed based on observations and focus groups.

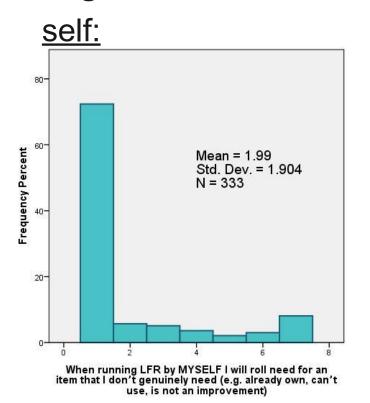
-expectations of others' behavior, your own behavior, happiness, demographic information

333 survey responses gathered from a convenience sample.

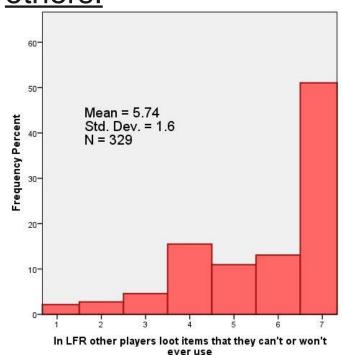
-Survey link posted in WoW-related forums (Blizzard forums, WoWhead, Ten Ton Hammer, Allakazham, TankSpot, WoWladies)

# **Preliminary Results**

Discrepancy between "self" and "others" when rolling 'need' on items that won't ever be used:

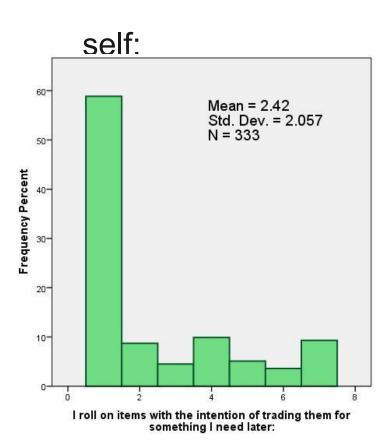


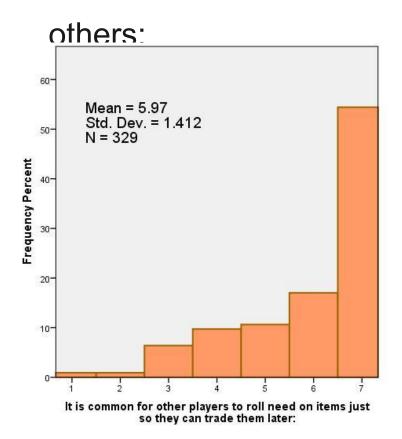




# **Preliminary Results**

Similar discrepancy in reports of needing to trade.





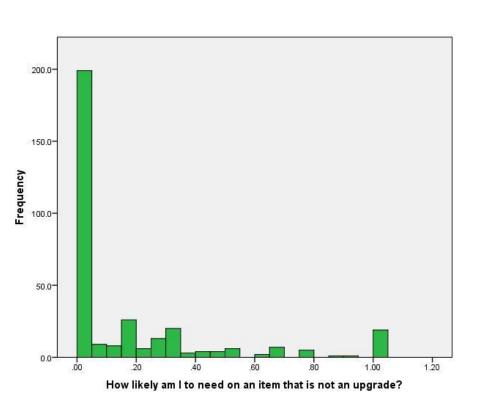
# More Preliminary Results

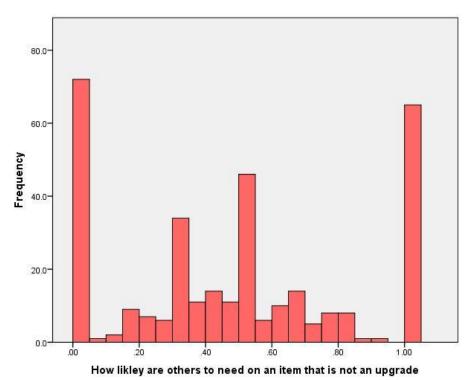
### A simple model:

Do expectations of others change behavior?

Do players who expect greed become more greedy?

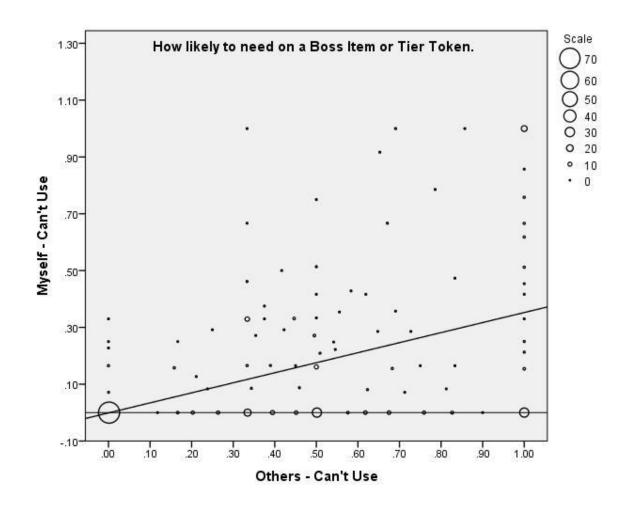
# Myself vs. Others





# Myself vs. Others

Adj.  $R^2 = .20$ 



## **Expertise effect**

#### Significant Main Effect:

#### **Expertise**

$$F(3) = 3.133$$
  
 $p = .026$ 

#### **N** Values

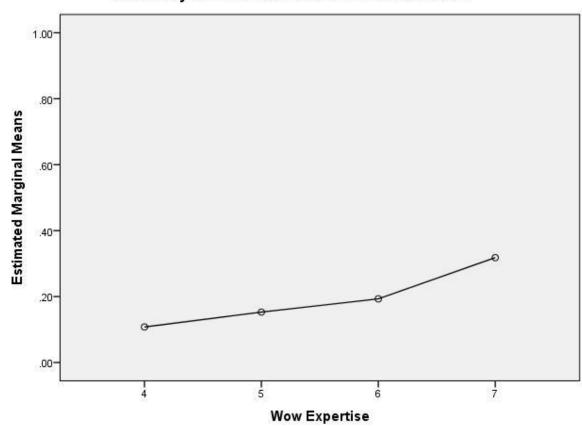
4 = 48

5 = 162

6 = 99

7 = 20

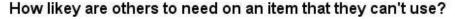
How likely am I to need on an item that I can't use.

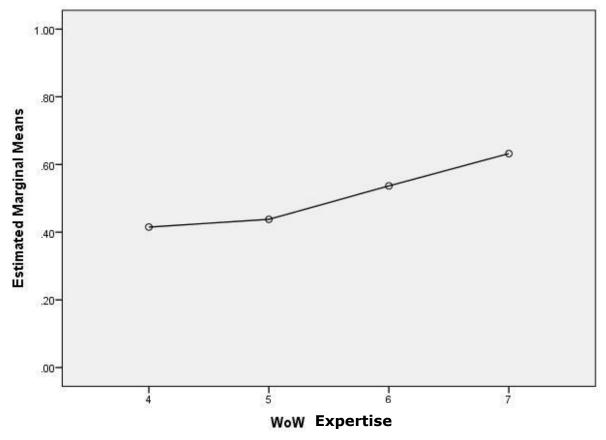


# **Expertise effect**

Significant Main Effect: **Expertise** 

F(3) = 3.55p = .015





## **Future Directions**

#### New WoW expansion = New LFR system

- No longer a mixed motive game.
- Removes opportunities for player interaction
- Natural experiment:
  - -Are players happy?
  - -Do they have more fun?
  - -Has behavior changed?
  - -Does the avoidance of "loot greed" justify the lack of social interaction?

## **Future Directions**

Using Mixed Motive games in multiplayer games

#### Predictions from IAD:

-Have sanctions for greedy behavior

-Keep social interaction possible

## References

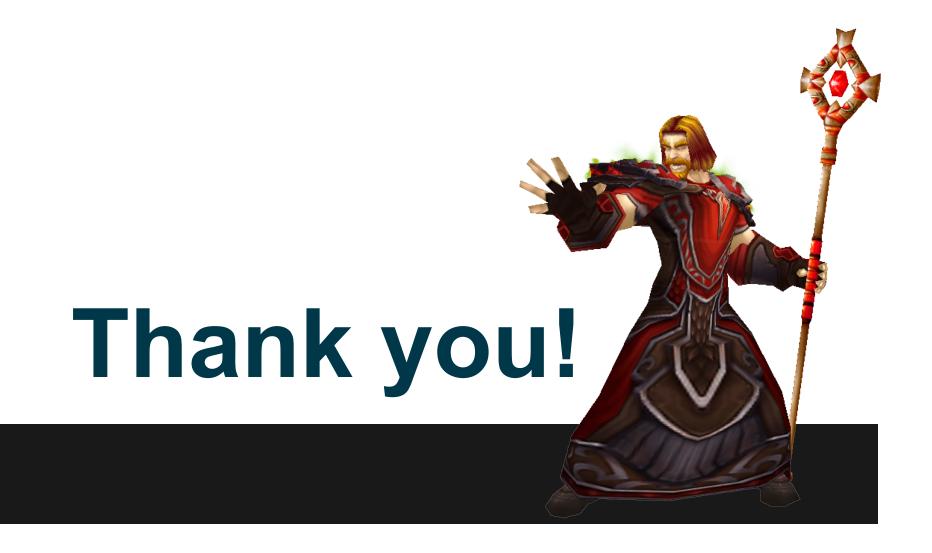
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