PLATFORM CAPITAL AND PROFIT IN DIGITAL LABOR PLATFORMS

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Introduction

- Overview:
 - Digital labor platforms are reshaping labor and economic relations globally.
 - This research investigates profitability through the lens of platform capital.
- Key Focus:
 - The role of platform-specific technology and workers in profit generation.
 - Examining Uber as a case study for broader insights.

What is Platform Capital?

- A blend of digital technologies (AI, algorithms, data infrastructure) and precarious labor.
- Enables dual production: surplus value from labor and data extraction.
- Data as a "free gift" from workers and users.
- Algorithmic management controlling labor processes.

Mode of Production

- Digital Taylorism
 - Algorithmic control over workers mirrors traditional factory discipline (Kenney and Zysman 2015; Kellogg et al. 2020; Lee 2018; Gandini 2019)
 - Tasks are standardized, monitored, and adjusted in real-time via digital tools.
- Put-Out System Under Digital Taylorism:
 - Workers provide their own tools (e.g., vehicles, smartphones).
 - Platforms reduce fixed costs by outsourcing production risks to workers.

- Number of platform workers and tasks.
- Efficiency of data-driven operations.
- Take rates from workers and merchants.
- The competition among workers and participating industries (restaurants, groceries, etc.,)

S = TN - W

(1)

- S = the surplus value
- T = number of completed tasks depending on factors (t, n, e), along with the demand
- t = average working hours of platform worker, represents increasing function with T
- n = number of platform workers, which represents increasing function with T
- e = efficiency of platform workers during working hours, which represents an increasing function with T;
- N = average value transformed from each completed task
- W = Piece Wage = v= variable capital = (1-x) where x represents the take-rate of a platform from each task and o<x<1.

• The equation can be rewritten as follows;

S = TN - TN(1 - x)

(2)

• After the simplification of the equation, we see that

$$S = TN(x) \tag{3}$$



- Revenue sources: worker fees, merchant fees (restaurants, grocery stores, retailers).
- Additional streams: subscriptions, targeted ads, big data services.
- We denote non-labor-related fees as δ and take the rate from merchants as $\alpha,$ where o<a<1
- Total Revenue = $TN(x) + \delta + TN(\alpha) + i$
- Where i is the net financial earnings (which could be negative if a company's net financial position is lost) from financial operations.

• Profit = $TN(x) + \delta + TN(\alpha) + i - T(\dot{y}) - C$

• where T(y) is cost of revenue and f'(y) > 0, f''(y) < 0

- C represents the rest of the costs, including research and development, marketing, depreciation, and other indirect operating costs
- Some digital labor platforms report payments to shareholders at their costs. However, this is simply the distribution of the surplus value to the subsumed classes

The Rates of Profit

Table 1 The Rates of Profit

					Excludi	ng Stock-Ba	ased Compe	ensation						
Profit Rate From Operations							Profit Rate (Financial Earnings/Losses)							
Lyft	Deliveroo	Doordash	Delivery Hero	JustTake Away	Fiverr	Upwork	Uber	Lyft	Deliveroo	Doordash	Delivery Hero	JustTake Away	Fiverr	Upwork
-26%			-29%			0%	6%	-24%			-13%			-2%
-19%		-35%	-28%		-11%	0%	-12%	-46%		-37%	-19%		-10%	0%
-27%	-26%	-2%	-18%	-1%	0%	1%	-18%	-38%	-27%	-2%	-18%	-1%	0%	1%
-9%	-15%	0%	-27%	-5%	1%	0%	0%	-22%	-13%	0%	-8%	-5%	-1%	0%
-16%	-13%	-2%	-32%	-5%	3%	-2%	-24%	-35%	-12%	-5%	-18%	-45%	3%	-1%
0%	2%	5%		-3%	5%	6%	11%	-7%	5%	5%		-19%	7%	12%

Including Stock-Based Compensation

Profit Rate From Operations							Profit Rate (Financial Earnings/Losses)							
Lyft	Deliveroo	Doordash	Delivery Hero	JustTake Away	Fiverr	Upwork	Uber	Lyft	Deliveroo	Doordash	Delivery Hero	JustTake Away	Fiverr	Upwork
-26%			-30%			-3%	5%	-24%			-13%			-5%
-47%		-36%	-28%		-15%	-4%	-27%	-46%		-38%	-19%		-14%	-4%
-39%	-34%	-7%	-18%	-1%	-1%	-4%	-20%	-38%	-35%	-7%	-18%	-1%	-2%	-4%
-24%	-19%	-7%	-27%	-5%	-5%	-5%	-3%	-22%	-18%	-7%	-8%	-6%	-7%	-5%
-32%	-18%	-11%	-32%	-7%	-5%	-9%	-29%	-35%	-17%	-14%	-18%	-47%	-8%	-8%
-10%	-4%	-5%		-4%	-1%	-1%	6%	-7%	-1%	-5%		-20%	0%	5%

Take Rate

Take Rate in General	2018	2019	2020	2021	2022	2023
Uber	21%	20%	19%	19%	28%	27%
Lyft					34%	32%
Deliveroo			29%	28%	29%	29%
Doordash	10%	11%	12%	12%	12%	13%
DeliveryHero		15%	17%	20%	18%	20%
JustTakeAway	13%	14%	10%	16%	20%	20%
Fiverr		27%	27%	29%	30%	32%
Upwork	13%	13%	13%	13%	13%	14%

Source: Companies' Financial Statements and Author's

Calculations

Take Rate in General	2018	2019	2020	2021	2022	2023
Uber	21%	20%	19%	19%	28%	27%
Lyft					34%	32%
Deliveroo			29%	28%	29%	29%
Doordash	10%	11%	12%	12%	12%	13%
DeliveryHero		15%	17%	20%	18%	20%
JustTakeAway	13%	14%	10%	16%	20%	20%
Fiverr		27%	27%	29%	30%	32%
Upwork	13%	13%	13%	13%	13%	14%

Source: Companies' Financial Statements and Author's Calculations

Take Rate

The Relationship Between the Number of Merchants and Take Rate from The Merchants



Cont

Take Rate and Platform Workers in Uber Mobility

Cost of Revenue as Percentage of Revenue



The Efficiency of Platform Capital and Profit-Uber





Cont



Profit Dynamics in Uber and Doordash



Uber

Doordash



Conclusion

- Platform capital is the backbone of profitability in digital labor platforms.
- The expansion of data, technology, and precarious labor drives efficiency and profits.
- The finance logic behind platform should be investigated further studies