W U T I S



# Pinduoduo Inc. Equity Research

Target Price: 28,82\$
Current Price: 169,43\$
Downside Potential: -82,1%

**Recommendation: UNINVESTABLE** 

**Investment Horizon:** 1 Year

Vienna, January 29th, 2021

## **Team – Overview**









## **Equity Research**



Jan **Tanson Director** 

- Task distribution
- Story guideline
- Valuation







- BSc. (WU) 7<sup>th</sup> Sem.
- BSc. Pharma 5<sup>th</sup> Sem.



Iryna Zginnyk

**Associate** 

- Market & industry analysis
- Peer benchmarking
- Valuation



■ BSc. (WU) – 3<sup>rd</sup> Sem.



**Benedikt** Lucny **Analyst** 

- Business model
- Industry analysis
- HR analysis





■ BSc. (WU) – 2<sup>nd</sup> Sem.



**Katrin** Haas **Analyst** 

- Business model
- Financial analysis
- Management analysis



■ BSc. (WU) – 5<sup>th</sup> Sem.

# **Agenda**

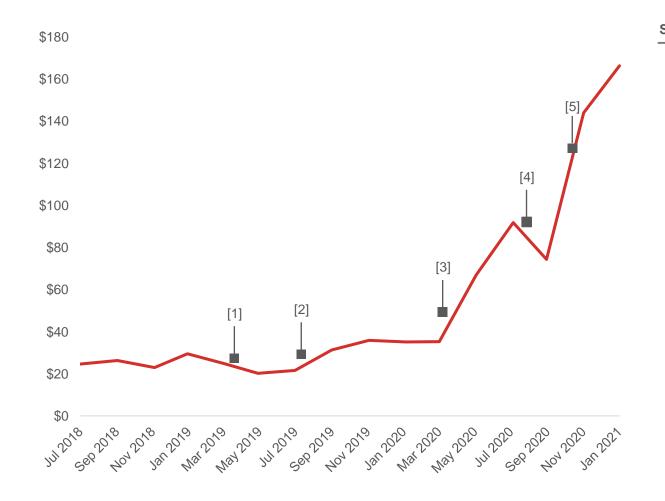


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# **Share price performance**



PDD has experienced a tremendous growth in share price and a lofty valuation since 2020



## **Share price - Major Events**

- [1] April 2019 (-5%) Financial Times cash burn criticism
- [2] August 2019 (+39%) Q2 2020 results –
   Pinduoduo beats estimates & GMV strength
- [3] April 2020 (+35%) Strategic partnership with GOME (financing of struggling retailer)
- [4] August 2020 (-19%) Q2 2020 results Pinduoduo missed top-line estimates
- [5] November 2020 (+21%) Q3 2020 results
   Pinduoduo beats expectations (89% Y/Y revenue growth) & Q3 report shows
   "investments paying off"

## **Investment thesis**

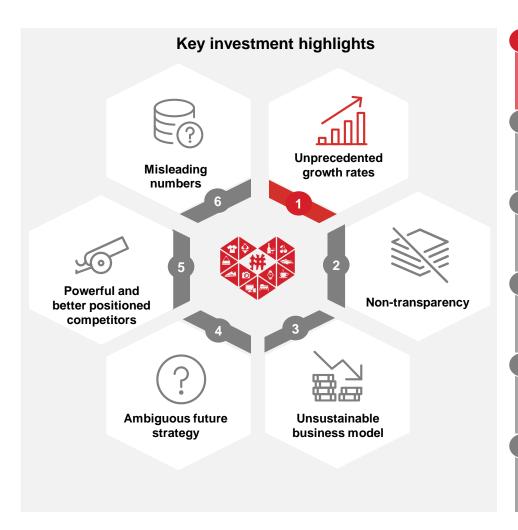






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A cash-burning business model, potential fraud and no plan for the future; PDD is uninvestable



Pinduoduo has **grown almost exponentially** since its foundation in 2015 and is on the run to outpace its competitors in terms of **GMV**<sup>1</sup>

The company's **shareholder structure**, **management**, **financials** and **relations** with independent parties are **opaque and deceiving** 

Pinduoduo's growth is founded only on its expensive **subsidy program** that is **fueled by investors' money** and enables the company to offer products at a cheaper price

While management has spoken about the idea of becoming China's "first" agricultural e-commerce company, there are **no clear plans or transactions** showing how it will achieve this goal

Well-established competitors and new entrants compete with Pinduoduo in its main market and already have the necessary infrastructure to enable online grocery shopping

Pinduoduo's reported numbers seem **unrealistic** and might be **embellished**, underscored by the fact that **explanatory details** in the financial statements are **missing** 



# Company overview











# **Business description**

## Pinduoduo Inc. is a Chinese e-commerce platform operator offering value-for-money merchandise and an interactive shopping experience through its same-named mobile platform

 Business segments: Online marketplace services (90%) & **Transaction services (10%)** 

• Founded: September 2015

Headquarters: Shanghai, China

Employees: 5,828

Auditor: Ernst & Young Hua Ming LLP<sup>1</sup>

## Initial public offering

Date: July 26, **2018** 

Stock exchange: NASDAQ

Ticker: PDD

Pinduoduo Inc. is the holding company of a Chinese mobile e-commerce platform

Initial Price: \$19.00

Opening Trade: \$26,50

Closing Price: \$26,70

 Offering led by Credit Suisse, Goldman Sachs & China Renaissance

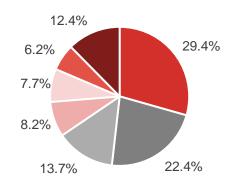
## Management team

- Zheng Huang Chairman & Founder
- Lei Chen CEO since 07/20
- Zhenwei Zhena Senior VP of Product Development since 01/16
- Junyun Xiao Senior VP of Operation since 01/16
- Jing Ma VP of Finance since 07/20

## Key financial metrics

in RMB tsd.	2016	2017	2018	2019
Revenues	504.864	1.774.076	13.119.990	30.141.886
YoY growth		245%	641%	220%
Costs of revenues	(544.870)	(722.830)	(2.905.249)	(6.338.778)
Gross margin	-8%	58%	78%	79%
Operating expenses	(791.074)	(2.339.800)	(23.919.731)	(38.680.097)
Operating loss	(286.210)	(595.724)	(10.799.741)	(8.538.211)
Operating margin		-34%	-82%	-28%
Net loss	(291.977)	(525.115)	(10.217.125)	(6.967.603)
Total Debt/Equity	0%	0%	0%	25%

## Shareholder structure

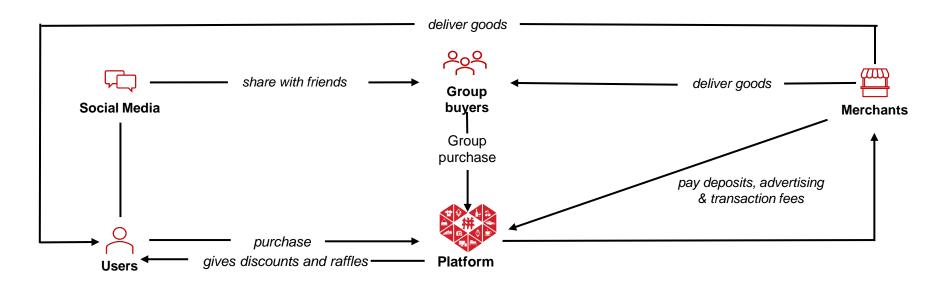


- Zheng Huang
- Tencent Holdings Limited
- Banyan Partners Fund li, L.p.
- Sequoia Capital China
- Qubit GP Ltd
- BlackRock Inc.
- Other

## **Business model**



Together, maybe more savings for consumers, probably less fun for investors



## **Pinduoduo**

- Products get subsidized
- Revenue Income: 90% comes from online marketing services & 10% from transaction



## **Merchants**

- Pay deposits but no platform fees
- Ships goods via 3<sup>rd</sup> party logistic, mainly China post (pay on own)
- Pay 0.6% of each transaction on platform as payment fee



#### **Customers**

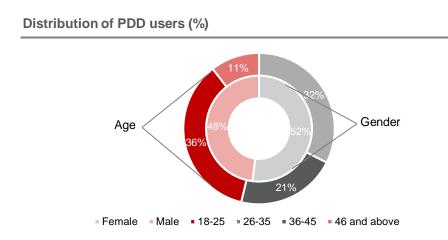
- Customer base = not loyal
- Price sensitive & benefit from discounts of up to 90%
- Reside in rural areas

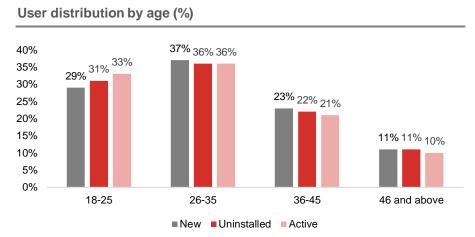
The business model is not sustainable as Pinduoduo is burning huge amounts of cash while not generating a loyal customer base

# **Target group & monetization**

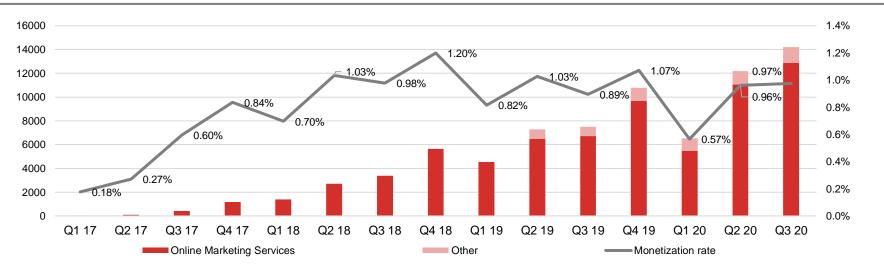


Pinduoduo monetizes its users through cheap advertising services for merchants





Revenue breakdown (RMB m) - The unusual case of a marketplace, not monetizing on sales



# **History**









## Founded in 2015, PDD is said to be China's fastest growing e-commerce company

## **Company Development**

2011 Shanghai Xunmeng Online gaming platform

## 2015 Pinhaohuo

Social e-commerce platform for groceries

## Sep **2015 Pinduoduo** Same concept applied to online marketplace

## Until 2016 **Hangzhou Tuxian Logistics** providing fulfilment services for fresh produce







Dec 2015

Private Equity funding



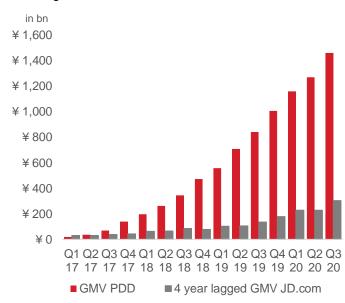
## 2021 Change in business model back to Pinhaohuo concept?

Jul 2020 Lei Chen succeeding Colin Huang as CEO

2019 - 2020 Several funding rounds in total of \$3,3 bn

## **Unprecedented Gross Merchandise Volume growth**

- Pinduoduo reached the same GMV figure in 5 years that its main competitors Alibaba and JD.com needed more than 14 years to achieve
- This might be best explained by Pinduoduo's subsidy-fueled spending spree to attract neglected lower tier consumers



"GMV": Total value of all orders for products and services placed on Pinduoduo, regardless of whether actually sold, delivered, or returned. Shipping costs are included.

# Management











## Two men concentrate Pinduoduo management functions between them, without a CFO

## Founder & former CEO Zheng Huang



Born 1979/80 in Hangzhou

- MSc in Computer Science from the University of Wisconsin (2014)
- Worked on setting up Google China
- Serial entrepreneur & founder of Ouku.com (2007), Legee (2009), & Lebbay (2011)
  - No direct ownership in any of these companies
- Transferred majority ownership in PDD's VIE to Lei Chen in May 2018
- Stepped down as CEO and transferred 35 % of his shares in May 2020
- Has remained chairman of board of director
- First partner in Pinduoduo Partnership

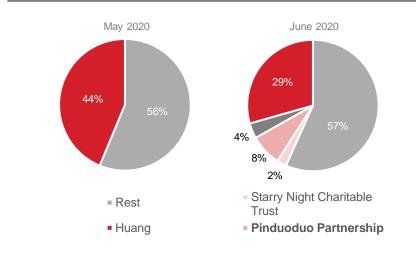
#### **Current CEO Lei Chen**



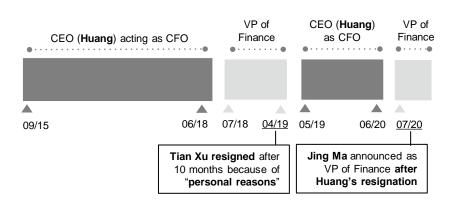
Born 1979/80

- Founding member & former CTO
- Doctoral degree in Computer Science from University of Wisconsin
- Interned at Google, Yahoo, IBM
- Worked at Ouku.com
- Second partner in Pinduoduo Partnership
  - Established with Huang's share transfer to "act as cultural guardian" and "assisting board of directors to select directors and the CEO"
- Only two partners are Huang and Chen

## Shareholder structure after Huang's resignation



## **Vice President of Finance history**



# **History of negative events**

Pinduoduo has come under scrutiny several times

- A class action lawsuit
- Overstatement of GMV
- Undisclosed party secretly hiring staff for PDD
- Failed investment in Chongma Linlituan (food e-commerce platform)

- Allegations of bribery
- Withdrawal of the founder and transfer of 7.74% of the companys stake to PDD Partnership
- Clash with Tesla and Rolls Royce over subsidies without permissions
- People using the platform to lauder money
- Downgrade in MSCI ESG Index
- Change of legal team in PDD's subsidiaries



 Understatement of employees headcount and staffing costs

- Added to "notorious" US list for IP Protection
- Unauthorized selling of Apple products
- Operation of payment services without license
- Facilitation of illegal transactions for gambling websites
- Loss of 10 million to fraud overnight

- Employee death due to long working hours
- Employee suicide



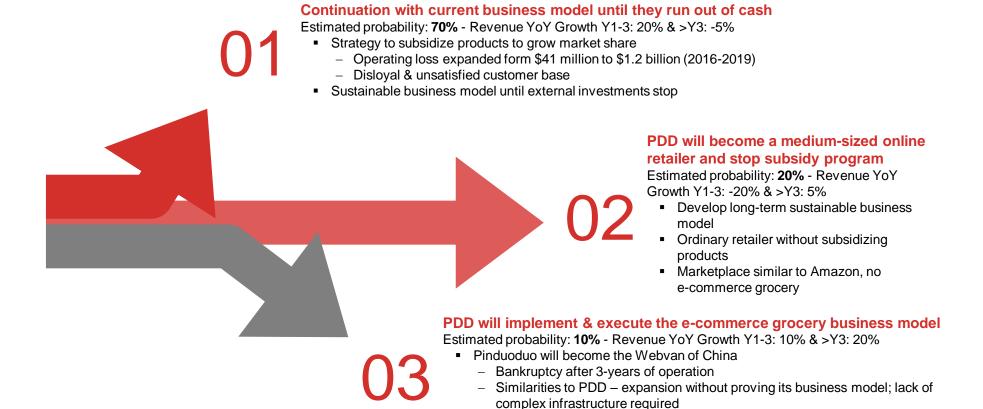
# **WUTIS - Equity Research**

Market outlook

## **Future scenarios**



The company might be at the outset of pivoting its business model



Pinduoduo will become the Instacart of China

of stores special offers

Platform – shop at various supermarkets in your local area & take advantage

## Market overview

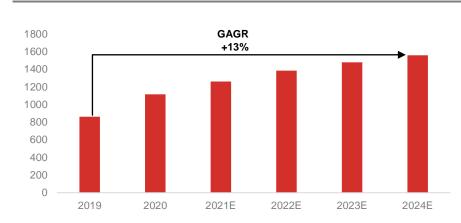




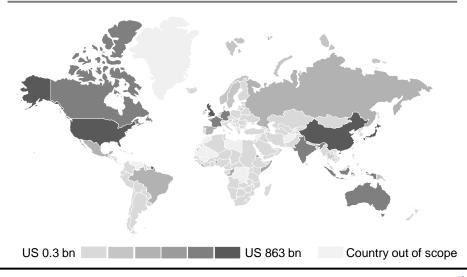


## The largest e-commerce market worldwide with high growth rate

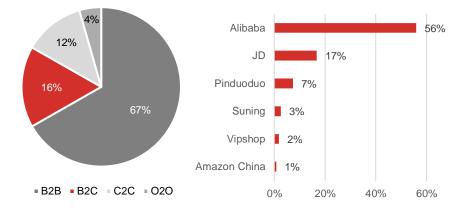
## Chinese e-commerce market (billion, US)



E-commerce revenues by country (billion US) in 2019



#### Distribution of e-commerce market transaction value in China in 2019



#### **Growth drivers**



## China's Internet penetration rate:

As of March 2020, around 64.5% of the Chinese population had used the Internet



#### **Rural consumers:**

Higher GDP growth in rural areas than in major cities, as well as more active users from lower-tier cities on e-commerce sites



## Livestreaming:

Livestreaming accounted for almost 9% of e-commerce sales in China in 2019

# **Market segmentation**



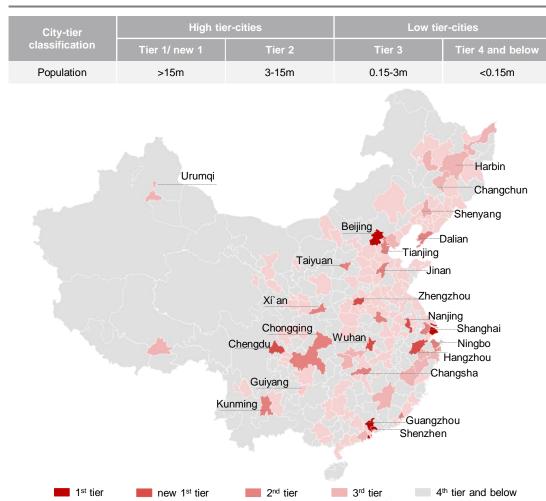




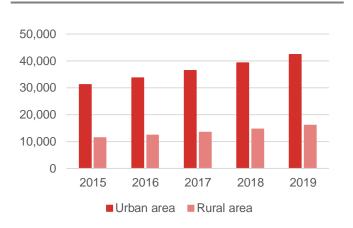


Rising online penetration rate and consumption in lower-tier cities fuel market growth

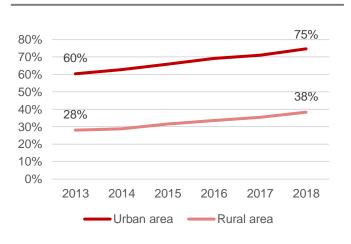
## Tier-city distribution



## China's per capita disposable income p.a. (RMB)



## China's online penetration (%)



# Agricultural company strategy









The claimed first-mover advantage has long passed and PDD faces massive hurdles

## Questionable "Pioneer in digital agriculture"

#### 2020 World Digital Agriculture Conference

- "PDD was named a pioneer in digital agriculture"
- "Systems approach tackling inter-related issues"
- "High quality, great value agricultural products"
- "PDD covers almost all agricultural production areas in China"



#### Hurdles & barriers to overcome

#### **Market domination**

 Obtaining sufficient market share to become efficient on unit economics and profitable

## **Complex infrastructure**

- Logistics and efficient delivery
- Last mile logistics is major challenge

## Low-profit margins

- Operating expenses are high
- Low basket value
- Increased costs
- Increased competition

## **Inventory Management**

- Inventory control systems
- Product information software

## Agricultural initiatives of e-commerce players – PDD is late to the game

## JD Fresh



- Fresh food business unit, operating since 2016
- China's largest frozen and chilled e-commerce warehousing and delivery network
- Line of premium stores 7Fresh

## Freshipo



- Grocery retail chain of Alibaba, operating since 2015
- Low CAC and higher customer margin
- Low delivery costs, using existing logistics infrastructure and cold chain logistics

## Suning Carrefour's Fresh Food Channel/ Xiaodian



- Acquisition of 80% in Carrefour China, leading retailer with an extensive network of more than 210 supermarkets in China
- Xiaodian, retailer unit with about 5,000 convenience stores in China

## **Meituan-Dianping**



- Supermarket chain Xiaoxiang Shengxian with focus on fresh foods and catering
- Launch of autonomous food delivery system (2018)
- Pinhaofan, group-buying feature for food delivery (2020)

## Infrastructure





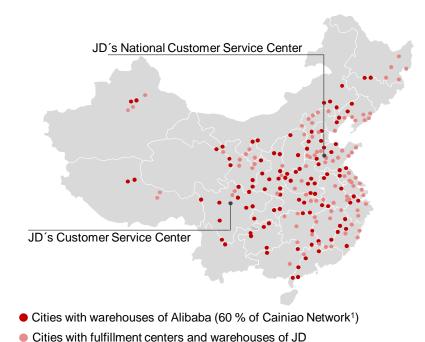




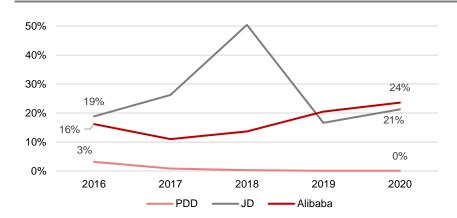
## Despite claims to enhance rural e-commerce, PDD shows zero progress as of today

## Logistics network of Alibaba and JD

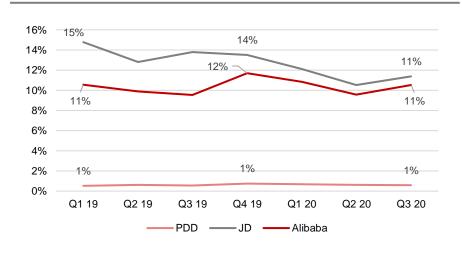
Alibaba	JD	PDD
<ul><li>&gt;200 warehouses</li><li>2.000 pick-up stations</li><li>42 mil package per day</li></ul>	<ul> <li>800 warehouses</li> <li>gross floor area - 20 million sq.m.</li> <li>7.000 delivery stations</li> </ul>	<ul> <li>So far no updates on progress despite announcement of agricultural pursuit in 2019</li> </ul>



Capex % Sales - PDD does not seem to invest much in PP&E



Right-of-use and fixed assets to total assets (%)



# Logistics network of prime competitor JD









One of the largest fulfilment infrastructure of e-commerce companies in the world

## Leveraging a network of 800 warehouses, delivering 90% of orders same-day

in mm RMB	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019	Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020
Sales	5673.9	6267.2	6609.0	8758.8	6984.9	8299.0	8348.7	10311.3	10120.4	12969.9	11359.4	13003.4	12135.7	16679.1	15203.0
Capex	(663.4)	(1,305.1)	(7,197.4)	(6,561.6)	(3,766.1)	(4,744.0)	(5,276.2)	(3,316.2)	(2,186.9)	(1,476.7)	(658.6)	(2,076.9)	(2,078.9)	(2,865.3)	(1,951.4)
QoQ% increase	18.0%	96.7%	451.5%	-8.8%	-42.6%	26.0%	11.2%	-37.1%	-34.1%	-32.5%	-55.4%	215.4%	0.1%	37.8%	-31.9%
Amount of warehouses at the end of each quarter	263	335	405	486	515	521	550	550	550	600	650	700	730	750	800
Amount of warehouses built during the quarter	7	72	70	81	29	6	29	0	0	50	50	50	30	20	50
Gross flow area (mil m2)	5.8	7.1	9	10	10.9	11.6	11.9	12	12	15	16	16.9	17	18	20
Delivery and pickup stations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capex spend per warehouse	(94.77)	(18.13)	(102.82)	(81.01)	(129.86)	(790.67)	(181.94)	-	-	(29.53)	(13.17)	(41.54)	(69.30)	(143.27)	(39.03)
Capex/Sales Ratio	11.7%	20.8%	108.9%	74.9%	53.9%	57.2%	63.2%	32.2%	21.6%	11.4%	5.8%	16.0%	17.1%	17.2%	12.8%

## JD revolutionizes global commerce by enabling more efficiencies



No. 1 logistics parks with the most advanced logistics centers in Asia, equipped with cutting-edge warehouse technologies



World's first e-commerce company to commercially deploy drones for rural deliveries



Cloud-based smart supply chain management, including autonomous delivery vehicles

## Number of warehouses PDD could build in a best case scenario

	JD's capex Sum (RMB)	(55,655.1)
	JD's capex Sum (USD)	(8,562.32)
	Capex per warehouse	(12.55)
	Capex per warehouse excluding maintenance	(11.30)
	PDD's (cash raised less 12 month 2020 burn rate)	(3,200)
-	PDD's number of warehouses	283.20

## **Human resources**

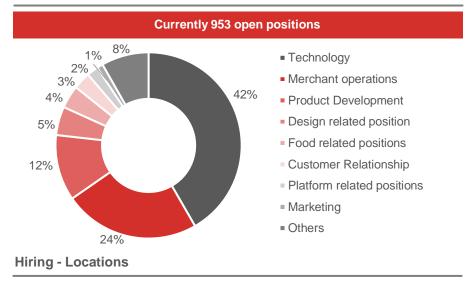


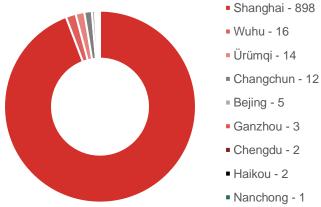




## HR analysis displays clear lack of engagement in infrastructure roll out hiring

## **Hiring - Open positions**





#### Locations



- PDD will **not** be able to **implement** and **execute agricultural** 1 business model based on open positions
- Management board has no experience in supermarket/ 2 infrastructure industry & focus only on Shanghai
- Execution only possible by hiring personnel with 3 demonstrated track record



# **Competitive landscape I**



## Competitors act fast and have established powerful networks

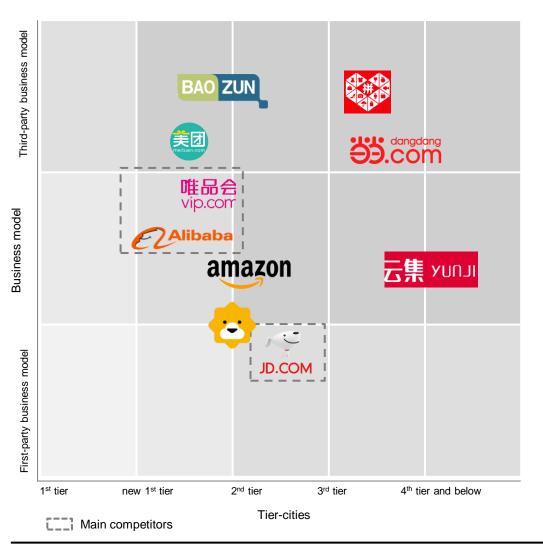
Marketp	lace	Ultimate Ownership	Group buying	C5M	B2C	C2C	Agro initiative	Overview
	Pinduoduo		<b>⊘</b>	$\odot$	X	X	<b>⊘</b>	Group-buying platform with low-priced products offering users to form a new or join an existing group of buyers
JD.COM	JD	JD.COM	$\odot$	X	$\bigcirc$	X	$\odot$	The largest online retailer in China, which operates on the most advance logistics network
JD.COM	Jingxi	JD.COM	$\odot$	X	$\bigcirc$	X	X	Group-buying app & WeChat mini-program, which targets consumers in China's lower-tier cities
<b>唯品会</b> vip.com	Vipshop	<b>唯品会</b> vip.com	x	X	$\odot$	X	X	Discount retailer for high quality and popular branded products
美团	Meituan	<b>\$</b> 1	<b>⊘</b>	X	$\bigcirc$	X	<b>⊘</b>	On-demand food delivery service provider and China's leading e-commerce platform for in-store dining services
淘	Taobao	<b>C</b> Alibaba	x	X	$\bigcirc$	$\bigcirc$	$\bigcirc$	C2C e-commerce platform designed for small businesses and individual sellers that uses big-data analytics to offer personalized shopping experience
天猫 THAIL.COM	Tmall	€ Alibaba	X	x	$\bigcirc$	x	X	B2C e-commerce platform designed for brands and established retailers, accessible to both foreign and local sellers
考拉海與I 840(4.117) [	Kaola	@Alibaba	x	X	$\bigcirc$	X	X	Cross-boarder platform selling "western" brands
Ċ	Suning	<b>ċ</b>	x	x	$\bigcirc$	x	x	Offline-to-online (O2O) smart retail company, which integrated capabilities that encompass, omni-channel operations, technology service and supply chain management
BAO ZUN	Baozun	BAO ZUN	x	X	$\bigcirc$	$\bigcirc$	X	Brand e-commerce company, a leading digital technology and solution company
云集	Yunji	云集	X	X	$\bigcirc$	X	X	Social reselling platform offering trainings to social sellers and logistics and aftersales service to merchants
V 松鼠拼拼 SONGSHU PINPIN	Songshu Pinpin	V 松鼠拼拼 songshupinpin	$\bigcirc$	X	$\bigcirc$	X	X	Group buying platform offering daily necessities that neighborhood representatives buy for the neighborhood and distribute from a central point in the area
Tence	ent ecosystem	Aliba	aba eco	system	[]	☐ Mai	n compe	etitors

Source: Team research & analysis • 22 • © WUTIS

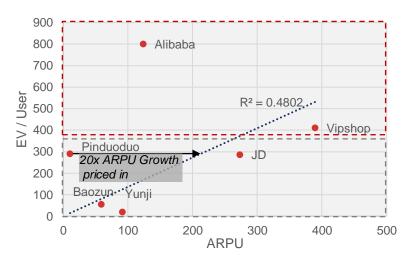
# Competitive landscape II



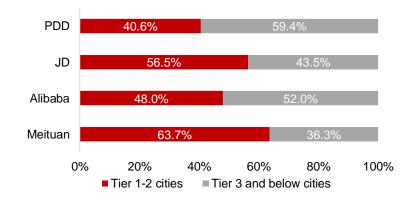
PPD is priced in line with top market players, despite having low monetization user profiles



## EV/User vs ARPU - Pinduoduos monetization is priced in



Self-proclaimed user breakdown by tier-cities doesn't match ARPU





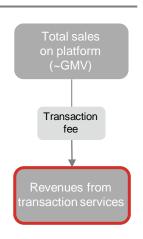
# Signs for GMV delusion



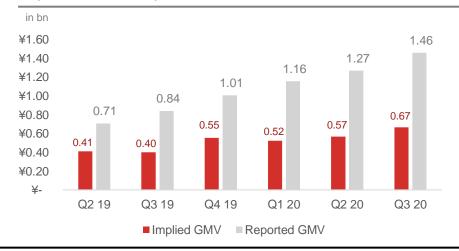


## **Transaction fees**

- Pinduoduo charging 0,6% of merchants' revenues (GMV) as transaction fees recognized as transaction services
- Transaction fees only collected on behalf of third parties → recognition as revenues questionable per se
- Preferential rates rewarded according to the company's "discretion from time to time"
- Taking a conservative approach of 0,2% as average transaction fees, the implied GMV is more than 50 % lower than the reported figures



## Reported GMV vs. implied GMV with a transaction fee of 0,2%

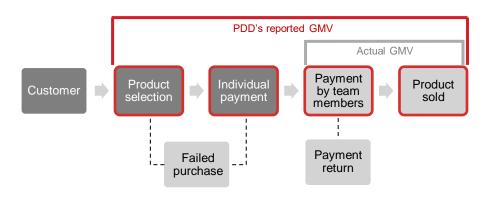


## Payables to merchants



- Merchants' recognized revenues are kept as payables to merchants
- Pinduoduo's reported numbers suggest a cash cycle of approximately 10 days
- Assuming a conservative cash cycle of 15 days, the implied GMV is more than 30 % lower than reported figures

## **Shopping process**



# **Explanations for absurd numbers**



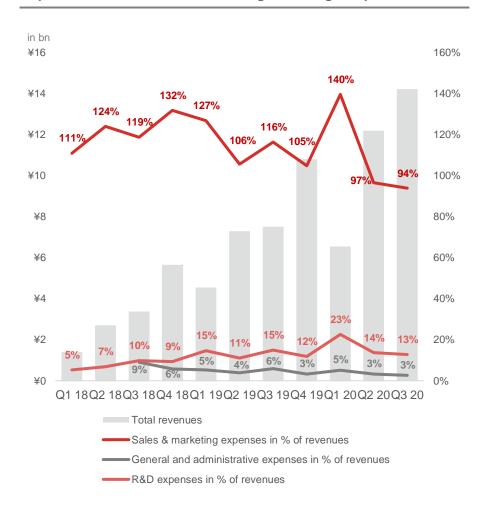






## Related companies might help Pinduoduo in embellishing its numbers

## Expenses as % of revenues - Little signs of margin improvement



## Explanations for disproportionate sales & marketing expenses

#### No business activity other than subsidizing purchases on platform

- By issuing coupons and subsidizing teams purchases, Pinduoduo partially pays for the merchants' products instead of customers
- Customer engagement awarded with "cash redeemable credits"
- New capital raised whenever cash necessary to pay these coupons depleted

#### Alleged outsourcing of general & administrative and R&D expenses

- Compensation for employees could be paid by an independent company that is not mentioned in the financial reports
- Huang's earlier founded companies Lebbay and Legee are reasonable candidates

Signs for interference of Huang's earlier founded companies

Lebbay & Legee ran Pinhaohuo's business

**Huang controlled** Legee until IPO. now relations unclear

> Non-transparent ending of relations

Open positions on website

Legee advertised employment positions for **Pinduoduo** before & after IPO

Current and former employees were recruited by Lebbay/ Legee but are **paid by** different entity (not PDD)

> Confused employees

# Usage of new capital



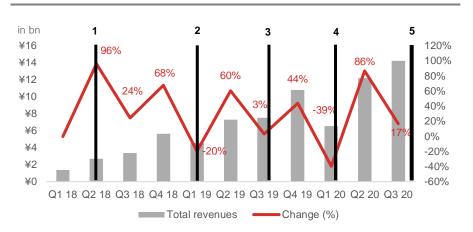




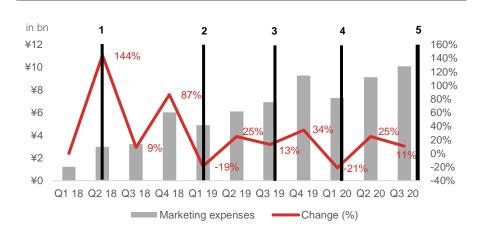


## Pinduoduo is scrambling for cash injections every two quarters

## **Development of revenues**



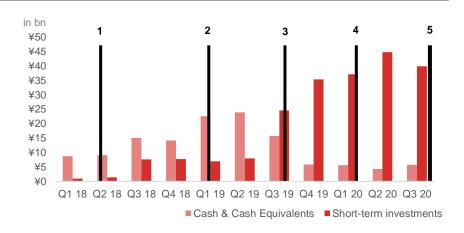
## **Development of marketing expenses**



## **Founding rounds**

Nr.	Date	Туре	Volume		
1	Apr. 11, 2018	Series D Equity	USD 3 bn		
2	Feb. 8, 2019	Secondary Offering	USD 1,375 bn		
3	Sep. 29, 2019	Post-IPO Debt	USD 1 bn		
4	Mar. 30, 2020	Post-IPO Equity	USD 1,1 bn		
5	Nov. 17, 2020	Post-IPO Debt	USD 1,75 bn		
5	Nov. 18, 2020	Post-IPO Equity	USD 3,59 bn		

## Why is the raised cash used for short-term financial investments?



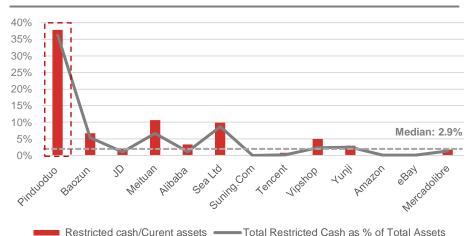


## **Financials**

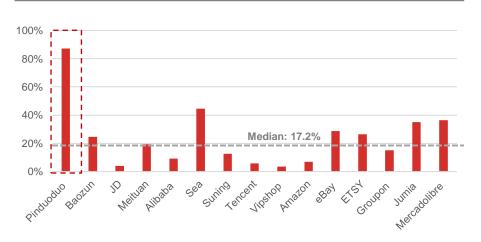


## Pinduoduo is a negative outlier on every observable financial metric

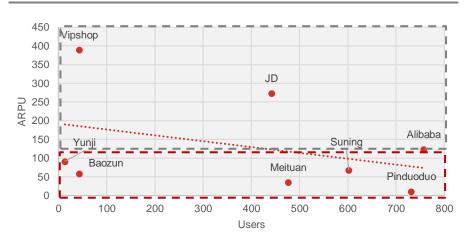
## Restricted cash (%) - A potential for disaster going forward



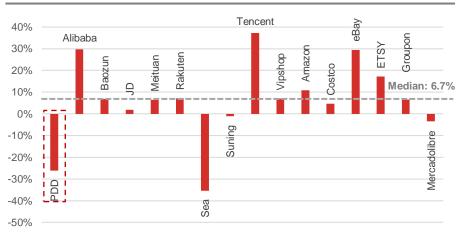
## Marketing/Sales (%) - User growth at all costs



## Despite claims of high user figures, PDD seems unable to monetize



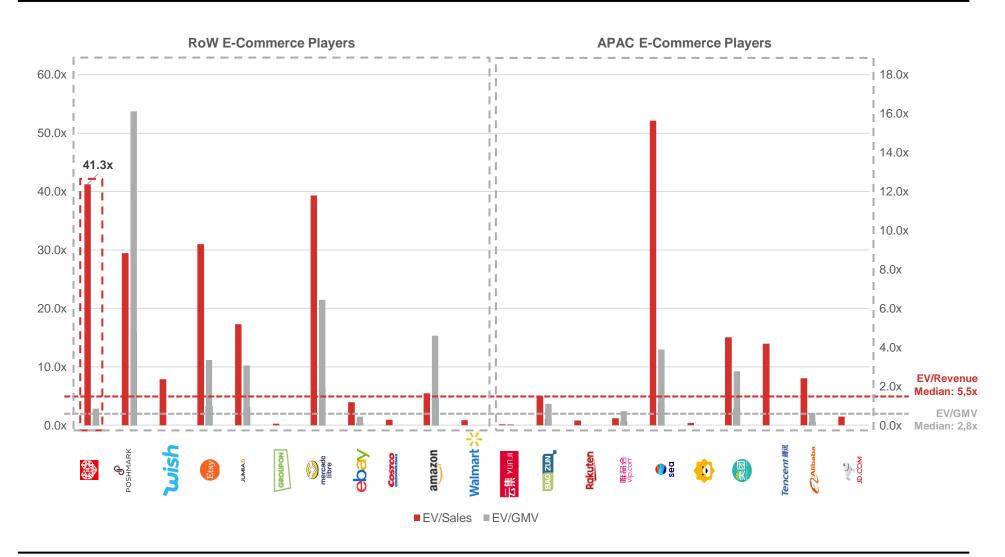
## **EBITDA** margin (%)



# Comparable company analysis



Pinduoduo is globally traded at surreal revenue multiples given its low-profile customer group

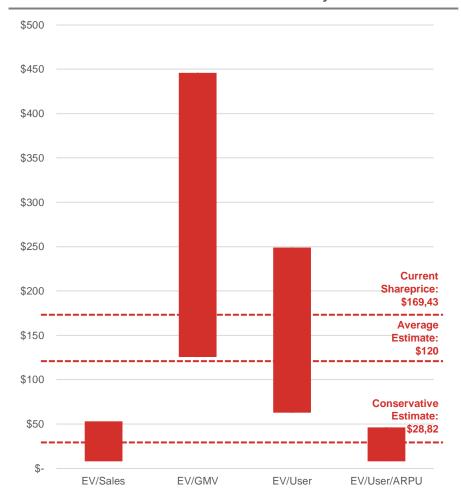


# Comparable company analysis



Investors seem to be pricing in an overstatement in GMV, based on comparable APAC peers

#### Football Field Valuation - APAC E-Commerce Players



## Adjustments for overinflated user figures

- As shown previously, we have reason to believe that PDD is overstating its GMV by ~ 30 - 150%
- Non-Adjustment for GMV and possible user metrics inflation yields an Average Price-Target based on Median Peer Multiples of \$124,83 per share, representing a downside risk of 22,3%
- Adjustment for highly likely GMV inflation and user count inflation yields an Average Price-Target based on Peer Multiples of \$28,82 per Share, representing a downside risk of 82,1%

## Competition

- As shown previously, PDD is solely outcompeting on user growth and GMV-based metrics
- As these metrics seem to distort investor perception quite drastically and are prone to manipulation, we propose additional ways of conceptualizing the future scenario currently priced into the shares of PDD

## **ARPU Growth**

 Assuming 731.3 mm active users and fairly strong maturation, PDD would have to grow its user monetization by 900% just to be ON PAR with its peers in terms of valuation

## Agricultural hiring carnage

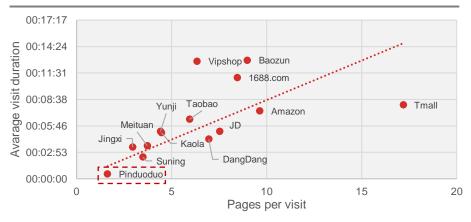
 Assuming infrastructure and logistics rollout in line with peers, PDDs workforce would have to increase by approx.
 16 times<sup>2</sup> in order to service its users with its own delivery system

# **Benchmarking: Webpage statistics**



A lack of interaction is observable compared to other e-commerce platforms

## Pages per visit vs average visit duration

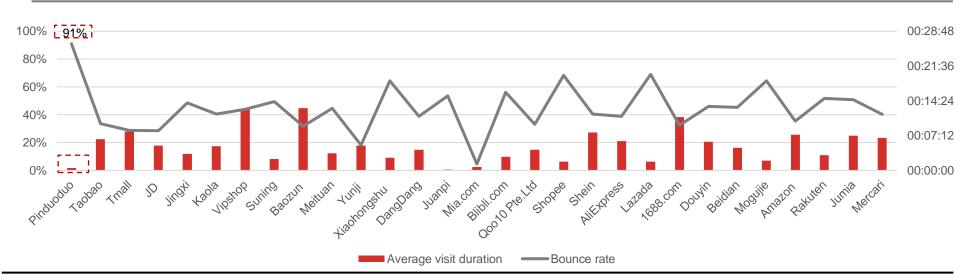


#### Low stickiness of users

## Low engagement rate, despite high number of users

- Bounce rate measures the percentage of visitors to the website who leave without taking any further action
- Average bounce rate for e-commerce & retail platforms: 30-45%
- High bounce rate for PDD of 90,97%, indicating a rather poor user emerging experience or possible bot/ spam activity
- Incentivization of daily check-ins does not seem to provide actual stickiness of users to services

## Average visit duration vs bounce rate of e-commerce companies



# **Appstore Reviews analysis**

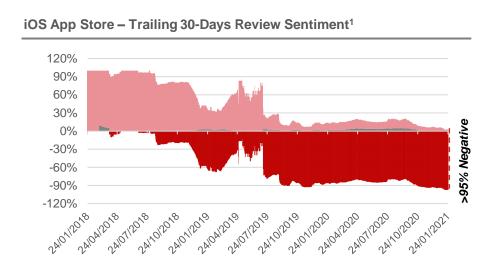






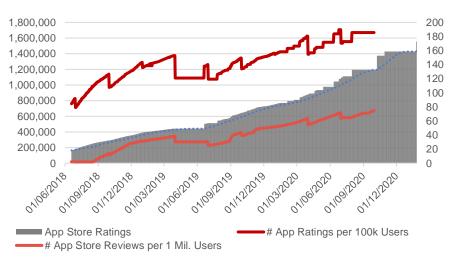


Consumer complaints are on the rise, becoming a challenge for keeping the user base

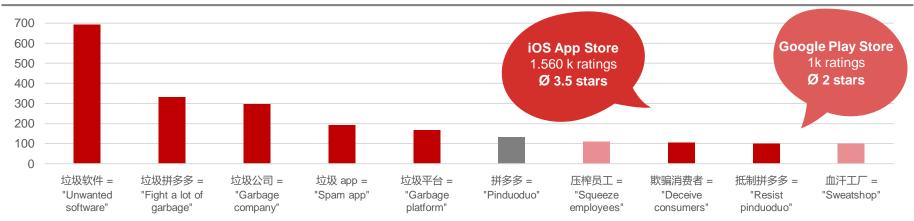


■ Negative ■ Neutral ■ Positive

## App Store Ratings have been steadily increasing since the launch



Most frequently mentioned words in PDD iOS Appstore reviews (61k reviews)<sup>2</sup> reveals true customer sentiment



# Statements by various interviewees about PDD



The picture portrayed by the company does not match descriptions of interviewees

"We don't use the app, its primarily been made for poor people from rural regions [...] Main difference between Taobao and Pinduoduo is that Pinduoduo is on average around 30% cheaper – We doubt the legitimacy"

- Chinese Locals, Tier 1 City

"I do not sell on Pinduoduo, goods are many counterfeits and many reseller using dropshipping to make margin, people often not want pay, not good reputation"

- Chinese Metal Consumer Goods Supplier, Tier 3 City

"Pinduoduo is most likely a fraud, atleast everyone thinks it is"

- Chinese Consumer, Tier 1 City

"I [think] mostly students use it to get [...] free groceries and gifts from promo campaigns"

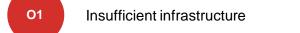
- Chinese Consumer, Tier 3 City

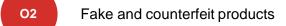


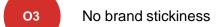
# **Risk Analysis**

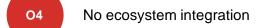


The risks Pinduoduo is facing are plentiful and various

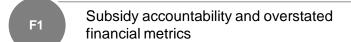


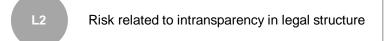


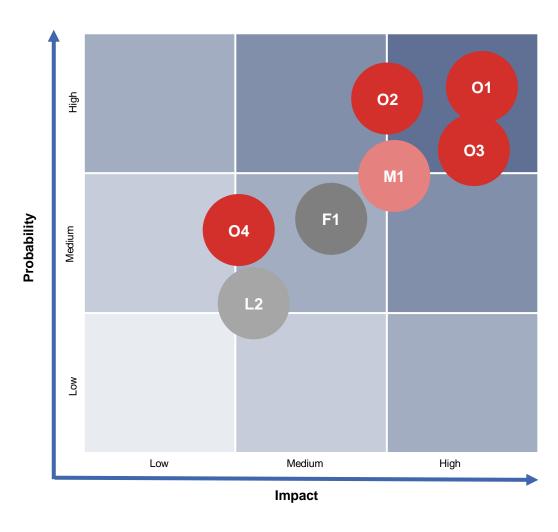












Operations (O) – Market (M) – Financial (F)– Legislation (L)

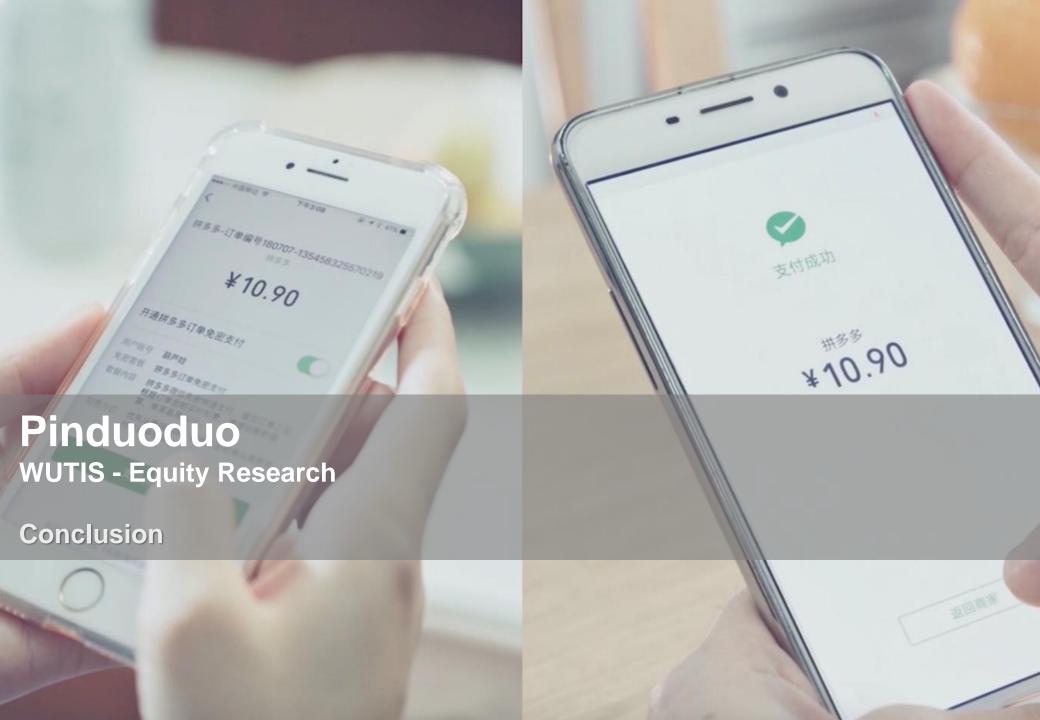


# **Catalysts**



A wide array of catalysts could further propel the shareprice upwards or cause prices to plummet

Catalyst	Туре	Estimated impact on share price	
Larger shareholder cashing out	Soft	High, due to low overall real free float	1
Chen withdrawal or going awol	Soft	High, as could be witnessed in past occurrences	1
Acquisition of a logistics company	Soft	Medium, likely to lead to investor confidence in the short term	1
Chinese government interventions	Soft	High, see e.g. Alibaba / Jack Mas recent disappearance & tender	1
Massive cutomer churn due to service related issues	Soft	High, likelihood of equity issuance discontinuation / undersubscription	1
<b>Delisting risk</b>	Soft	<ul> <li>Very High, diminished capital influx for the stock could inevitably lead to funding risks</li> </ul>	1

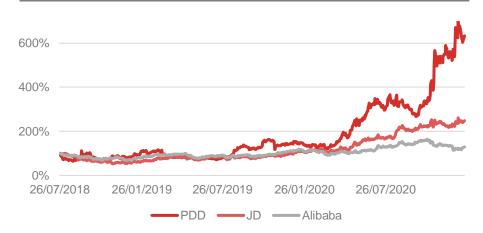


# **Conclusion**

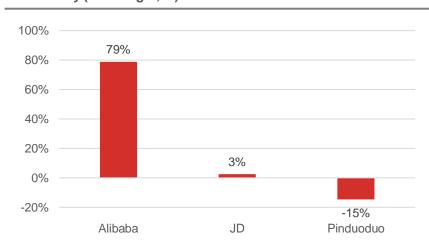


PDD underperforms its peers on every metric exept share price and is deemed overvalued

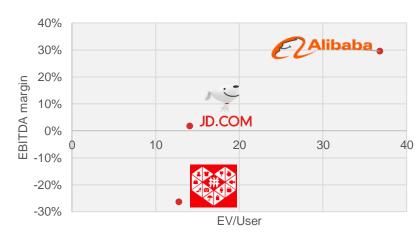
## Share price performance



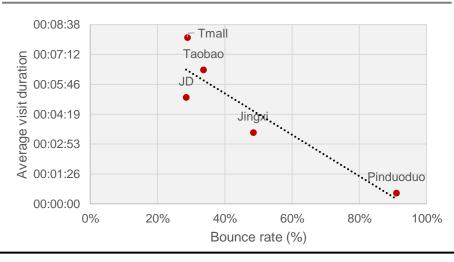
### Profitability (net margin, %)



### EBITDA margin vs EV/User



## Webpage statistics



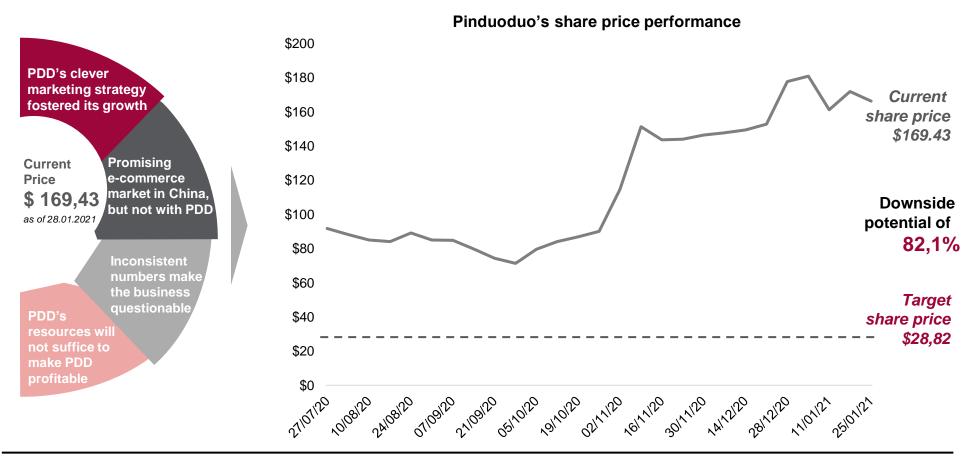
## Conclusion



While the Chinese e-commerce market has large potential for further growth, Pinduoduo is not the right investment

In their IPO S-1 Filing, Pinduoduo's founder Colin Huang described the company's aspiration to become a mixture of Costco and Disneyland, a combination of great value products and fun entertainment.







# **Checklist for fraud detection – Red flags**



Possible fraudulent activity	YES	NO
Domination of management by a single person or small group without compensating controls	$\bigcirc$	$\bigcirc$
Rapid growth or unusual profitability especially compared to that of other companies in the same industry	$\bigcirc$	$\circ$
Significant related party transactions not in the ordinary course of business without this fact being disclosed.	$\bigcirc$	$\bigcirc$
High turnover of senior management, counsel, board members or key employees may be an attempt to prevent them from learning too much about the firm.	$\bigcirc$	$\bigcirc$
Known history of violations of securities laws or other laws and regulations or claims against the entity, its senior management, or board members alleging fraud or violations of laws and regulations without this fact being disclosed.	$\bigcirc$	$\bigcirc$
Increasing number of complaints about products or service	$\bigcirc$	$\bigcirc$
Recurring negative cash flows from operations or an inability to generate cash flows from operations while reporting earnings and earnings growth	$\bigcirc$	0

# Alleged business model economics









S

## Business model



### Company

"Together, more savings, more fun"

PDD represents an innovative approach to e-commerce by combining social media and e-commerce into a "social – commerce" platform and by their C2M approach



### **Pricing**

Products are extremely low priced and cheaper than products of competitors. Users form teams of at least two people to unlock discounts of up to 90%



#### Revenue income

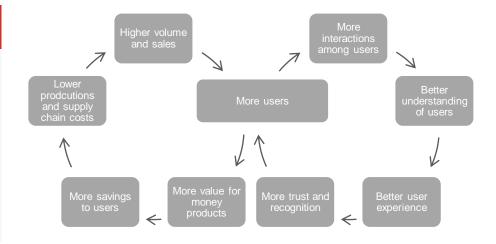
90% of revenues comes from online marketing services and 10% from transaction services

## Growth & consumer-to-manufacturer approach

### From "how much can we produce" to "how much should we produce"

- Human-oriented platform designed to stimulate potential demands
- Understanding of what different groups of users want
  - Claimed benefits for consumer
    - More tailored products
    - Lower prices
  - Claimed benefits for merchants, manufacturers, logistic provider
    - better inventory planning and management
    - lower production cost, better quality
    - better pick-up & delivery planning

## Team Purchasing – self-reinforcing virtuous cycle



# Implied cash cycle from reported numbers



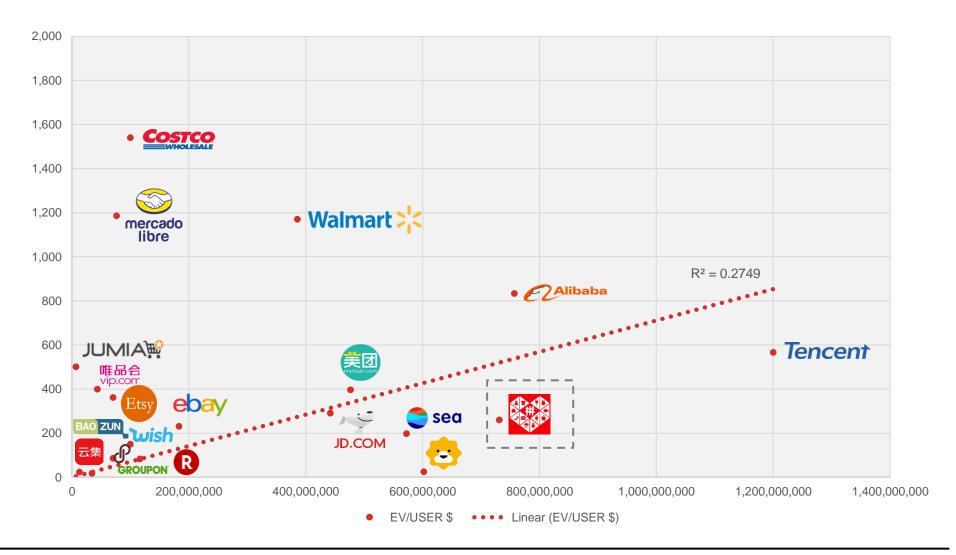
The cash cycle inferred from GMV and payables does not match the real number of 15 days.

in RMB m	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20
GMV	198.700	262.100	344.800	471.600	557.400	709.100	840.200	1.006.600	1.157.200	1.268.700	1.457.600
Payables to merchants	8.594	9.318	10.794	17.276	15.657	17.831	19.820	29.926	28.714	33.979	40.300
		Payables	s to merc	hants = (	GMV * da	ys in cas 360	h cycle				
Implied cash cycle (days)	15,6	5 12,8	11,3	13,2	10,1	9,1	8,5	10,7	8,9	9,6	10,0
Average implied cash cycle:	10,9										
Implied GMV with cash cycle of 15 days	206.262	2 223.637	259.051	414.622	375.772	427.937	475.672	718.236	689.135	815.484	967.196
% of reported GMV	104%	% 85%	75%	88%	67%	60%	57%	71%	60%	64%	66%

# Comparable company analysis



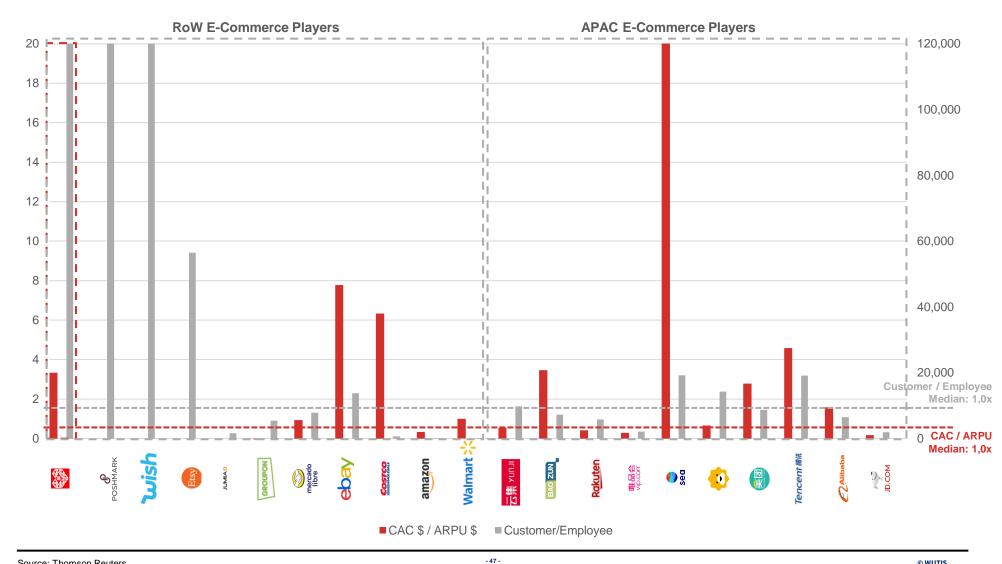
Internationally, Pinduoduo lacks a competitive edge, limiting geographic scope to mainland china



# Comparable company analysis



Low returns on CAC and – as evidenced by customer / employee ratio – a pureplay marketplace



# **Balance Sheet - Assets**



PDD boasts a variety of suspect "assets" and odd ratios on their balance sheet

Assets	Q4 17	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20
Cash and cash equivalents	3.058.152	8.634.289	9.030.874	14.960.018	14.160.322	22.501.691	23.851.940	15.694.045	5.768.186	5.526.736	4.209.623	5.715.676
Growth		182%	5%	66%	-5%	59%	6%	-34%	-63%	-4%	-24%	36%
Restricted cash	9.370.849	8.058.398	8.785.138	10.166.809	16.379.364	14.717.548	16.812.226	18.672.032	27.577.671	26.972.389	32.468.267	38.813.084
In % of revenues	834%	621%	344%	320%	306%	344%	245%	264%	277%	439%	279%	284%
In % of current assets	71%	44%	43%	30%	41%	31%	33%	30%	38%	37%	38%	43%
Growth		-14%	9%	16%	61%	-10%	14%	11%	48%	-2%	20%	20%
Receivables from online payment platforms	88.173	113.525	94.443	126.456	247.586	317.209	452.266	524.436	1.050.974	679.522	429.375	531.009
Growth		29%	-17%	34%	96%	28%	43%	16%	100%	-35%	-37%	24%
Short-term investments	50.000	850.000	1.300.000	7.511.280	7.630.689	6.919.548	7.935.421	24.560.779	35.288.827	37.048.472	44.801.078	39.859.089
In % of current assets		5%	6%	22%	19%	15%	15%	40%	48%	51%	52%	44%
Growth		1600%	53%	478%	2%	-9%	15%	210%	44%	5%	21%	-11%
Amounts due from related parties	442.912	515.497	588.078	693.919	1.019.033	1.081.936	1.043.258	1.253.490	2.365.528	1.948.392	2.428.172	3.449.126
Prepayments and other current assets			673.405	784.945		1.268.842	1.210.648	884.602	950.277	914.603	1.245.451	
VAT recoverable	33.364	32.475			63.005							371.127
Prepayments	35.104	110.882			667.113							570.658
Rental and other deposits	14.589				64.902							566.654
Staff advances	3.689				7.868							
Payments made on behalf of merchants	4.914				8.234							
Others	7.097	37.219			6.805							
Interest receivables	26.529	27.909			101.062							249.146
Loan to a third party	2.456	2.365			35.000							45.000
Total Current Assets	13.137.828	18.382.559	20.471.938	34.243.427	40.390.983	46.806.774	51.305.759	61.589.384	73.001.463	73.090.114	85.581.966	90.170.569
Property and equipment, net	9.279	9.897	14.876	19.110	29.075	36.089	33.409	38.153	41.273	41.353	47.525	46.509
Intangible assets		2.789.354	2.786.690	2.741.320	2.579.338	2.381.247	2.277.009	2.182.296	1.994.292	1.866.532	1.706.291	1.486.959
Right-of-use-assets						218.836	307.735	316.239	517.188	486.894	514.926	534.076
Loan to related party	162.363	164.199	0	0	0						0	0
Other Non-Current Assets	5.000				182.667	340.819	436.938	449.990	503.120	691.994	3.049.958	7.172.813
Total Non-Current Assets	176.642	2.963.450	2.801.566	2.760.430	2.791.080	2.976.991	3.055.091	2.986.678	3.055.873	3.086.773	5.318.700	9.240.357
Total Assets	13.314.470	21.346.009	23.273.504	37.003.857	43.182.063	49.783.765	54.360.850	64.576.062	76.057.336	76.176.887	90.900.666	99.410.926

Competitors' share of restricted cash is less than 4 %

Competitors' share of short-term investments is between 7% and 20%

PDD gives no information of what is included in long-term investments and does not explain sudden spikes

# **Balance Sheet - Liabilities**



Liabilities of the company largely remain a mystery to outsiders

Liabilities	Q4 17	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20
Amounts due to related parties	76.057	142.003	294.201	571.816	478.113	921.418	1.412.517	2.085.604	1.502.892	2.635.849	1.928.353	3.298.767
Customer advances and deferred revenues	56.453	85.657	105.013	165.044	191.482	243.048	267.322	379.001	605.970	619.769	750.548	1.042.093
Payables to merchants	9.838.519	8.594.240	9.318.220	10.793.733	17.275.934	15.657.163	17.830.719	19.819.656	29.926.488	28.713.943	33.978.503	40.299.835
Growth		-13%	8%	16%	60%	-9%	14%	11%	51%	-4%	18%	19%
In % of Restricted cash	105%	107%	106%	106%	105%	106%	106%	106%	109%	106%	105%	104%
Accrued expenses and other liabilities			971.103	1.082.774		2.779.172	3.573.906	4.197.751	4.877.062	5.791.227	5.906.412	
Payroll payable	61.153	71.199			389.615							1.340.438
Accrued expenses	192.034	281.596			1.371.483							3.653.380
VAT and other tax payable	104.197	158.079			436.495							1.809.374
Others	3.009	6.022			28.074							101.761
Merchant deposits	1.778.085	2.414.648	3.194.609	3.629.887	4.188.273	4.908.578	5.833.878	6.654.130	7.840.912	8.639.172	9.923.180	10.574.559
Growth		36%	32%	14%	15%	17%	19%	14%	18%	10%	15%	7%
Short-term borrowings									898.748	2.114.541	2.754.466	2.773.023
Lease liabilities						73.037	80.026	80.882	115.734	118.281	144.293	182.318
Total Current Liabilities	12.109.508	11.753.445	13.883.147	16.243.255	24.359.471	24.582.417	28.998.369	33.217.025	45.767.808	48.632.783	55.385.756	65.075.549
Convertible bonds								5.140.305	5.206.682	5.430.487	5.572.449	5.504.873
Lease liabilities						163.785	247.426	254.508	428.593	397.127	410.531	390.803
Other non-current liabilities						8.435	8.171	7.949	7.389	7.050	38.071	36.040
Total Non-Current Liabilities	0	0	0	0	0	172.220	255.597	5.402.762	5.642.664	5.834.664	6.021.051	5.931.716
Total Liabilities	12.109.508	11.753.445	13.883.147	16.243.255	24.359.471	24.754.637	29.253.966	38.619.787	51.410.472	54.467.447	61.406.807	71.007.265

Restricted cash almost only consists of payables to merchants

PDD does not explain what is included in shortterm borrowings and does not explain sudden spikes

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