SPACs

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Intro	SPAC	Overview	Costs	Sponsors	Returns	Evolution	Conclusion





• 298 SPAC IPOs as of March 2021!

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Moti	vation	2: Critiq	ues				

Special purpose acquisition companies (+ Add to myFT) The Spac sponsor bonanza

FT analysis shows backers of cash shells earn billions in what Ackman calls 'one of the greatest gigs'

OPINION | COMMENTARY

The SPAC Bubble May Burst and Not a Day Too Soon

The hot new way to take companies public hurts most investors, and its track record is now clear.

By Michael Klausner and Emily Ruan Jan. 6, 2021 6:25 pm ET



• A SPAC goes public to find a non-listed operating company to merge with





- Exercisable for 5 years after the completion of a business combination³
- Expires worthless in the event of a SPAC liquidation (no rights to the trust)

*source: Gritstone Asset Management

- The money raised in the IPO is placed in an escrow account (trust)
- Units are un-bundled two months after the IPO

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SPAC	Struct	ure2: Lif	ecycle				



*source: PWC

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SPAC	Struct	ure2: Lif	ecycle				

- Underwriting fee: 5.5% (2% + 3.5%)
- Sponsors cover the fees by purchasing warrants
- Sponsor compensation (promote): 20% free shares conditional on mergers



Intro	SPAC	Overview	Costs	Sponsors	Returns	Evolution	Conclusion
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Viewp	oint:	Economic	Tensio	ns			

Three Main Players

Operating Companies

- 2 Sponsors
- Investors
 - \rightarrow Economic Tensions (e.g., wealth transfer, agency issues...)

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Under	rstandin	ig Contra	actual ⁻	Terms			

- Deadlines are designed to incentivize the sponsor to keep the public market investment liquid, rather than parking the money in a trust fund and leaving it there for a long period.
- Deadlines create an incentive for the sponsor to do a bad deal rather than no deal as the deadline approaches, but the redemption option controls this problem.
- The separation of the merger vote and redemption decision limits the ability of a hedge fund to block a merger unless it receives a side payment.

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Costs	of Go	ing Publ	ic				

	Costs
SPAC	SPAC IPO Underwriter Commissions, Sponsor Promotes, Warrants and Rights
Traditional IPO	Underwriter Commissions, Money Left on the Table (Underpricing)
Direct Listing	Financial Advisor Commissions

• Sample: Between 01/2015 and 02/2021

	SPAC (N=142)		Traditiona	1 IPO (N=653)	Direct Li	Direct Listing (N=6)	
	Costs Proceeds	Costs Market Cap	Costs Proceeds	Costs Market Cap	Costs Proceeds	Costs Market Cap	
10th percentile	16.3%	4.8%	-4.1%	-0.9%	-	0.1%	
25th percentile	28.6%	8.5%	7.0%	1.1%	-	0.1%	
Median	47.6%	15.1%	21.9%	3.3%	-	0.3%	
75th percentile	86.3%	28.6%	50.1%	7.1%	-	1.1%	

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Econo	mic Ro	les of Sp	onsors				

- Then why do certain companies merge with a SPAC to go public?
 → What are the economic roles of sponsors?
- Sponsors: Specialized PE GPs with deep pockets working as ad-hoc underwriters
 - Specialized: Individuals behind many sponsors are industry veterans
 - PE GPs: Face deadlines (Pros vs. Cons)
 - Deep Pockets: Invest their own capital (certification)
 - ad-hoc Underwriter: Going public + capital raise

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Relati	ve Adva	antages o	of Merg	ing with	a SPAC		

- Q Capital + "Extra-Financial" Value (e.g. mentorship... Hsu (2004))
- ② Faster with pre-loaded dry power (e.g., a wave of EV companies) → Days between Merger Announcements and Business Combinations

Year	No. of Announcements	Average Days	Median Days
2017	16	139	140
2018	26	151	141
2019	35	175	142
2020	96	129	114
Total	173	141	126

Sorward looking statements (safe harbor)

 \rightarrow Recent SEC probe

More in the paper with limitations

Intro	SPAC	Overview	Costs	Sponsors	Returns	Evolution	Conclusion	
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Spons	Sponsor Compensation Haircuts							

• Sponsors transfer their compensation to others as inducements to salvage mergers, especially weak deals (Sample: 145 mergers between 01/2015 and 02/2021)

	Low Redemption (Strong Deals)	High Redemption (Weak Deals)
Average Redemption Ratio	3%	75%
Inducement: Common Shares Inducement: Warrants	10% 14%	25% 25%
New Capital as % of Total Cash Delivered	35%	47%





- Sample: 151 SPACs that went public between January 2010 and December 2018
- $P_s/P_i = (1 + R_{SPAC})^{(Months/12)}$
- Optimal Redemption Strategy: $P_s = Max(Sell, Redeem)_{t-5}$ $\rightarrow R_{SPAC} = 12.0\%$ per year Returns

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SPAC Period Returns							

Conditional on Outcomes

Outcome	Number of SPACs	Annualized Returns	Average Months
Merger Completed	125	12.9%	21.5
Liquidated	18	2.0%	27.8
Ongoing	8	20.4%	30.0
Total	151	12.0%	22.7

() Default-free convertible bond gross-of fees ightarrow the lowest return: 0.51% per year

2 Considering the downside protection, annualized return of 12.0% is lucrative!

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Expec	ted SP	AC-perio	d retur	ns on a j	point-for	ward bas	is

- 1/3 of IPOs will not complete a deal, and will be redeemed with a 1% return and worthless warrants (0.5% annualized)
- 1/3 of IPOs will complete a deal but shares will be redeemed for a 1% return and warrants will be worth \$0.50 (6.0% return over 1.5 years, 4.0% annualized)
- 1/3 of IPOs will complete a deal and shares will be worth \$10.50 and warrants will be worth \$0.75 (12.5% return over 1.5 years, 8.2% annualized)

 \rightarrow Average annualized return of 4.2%, due to less generous warrants



- Sample: 114 completed mergers between January 2010 and September 2020
- Common Shares: $BHRC_{i,t} = \prod_{t=1}^{min(T, delist)} (1 + R_{i,t}) 1$

 \rightarrow -7.3% (equally) or 2.7% (\$) for the first year (matched CRSP: 13.6%)

- Warrants: $BHRW_{i,t} = \frac{P_{i}_min(T, delist)}{P_{i}_deSPAC_date}$
 - \rightarrow 64.4% (equally) or 27.6% (\$) for the first year

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Interp	oreting	Returns					

Why do deSPAC period common shares underperform?

- Three-Year Returns < -90%: 29% of SPAC mergers Three-Year Returns < -90%: 9% of traditional IPOs
- Extreme incentives (sponsors and SPAC investors) to complete mergers
- 2 Redemption ratios are almost 100% for these mergers
 - \$ weighted returns are not as negative as equally weighted returns
- Warrants are riskier and compensated for volatility
 - Maybe the market is mispricing warrants

Cross-sectional: underwriter dilution redemption profitability industry country

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The E	Evolutio	n of the	SPAC	Market			

Too favorable for the SPAC period investors and sponsors...

 \rightarrow At the expense of merging company's shareholders

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- Less Dilution: Less profit for SPAC period investors and more upside potential for merging company shareholders

- Higher First Day Return: Free lunch is cleared on the first day, similar to operating company IPOs

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Conclu	usion						

- A SPAC merger is a more expensive way of going public than a traditional IPO
- A SPAC merger has relative advantages over a traditional IPO
 → Based on economic roles of sponsors and the structure of SPACs
- SPAC period investors have earned 12.0% per year
 → Underpriced default-free convertible bonds with warrants
- deSPAC period common share returns have been between -7.3% and 4.3% while warrant returns have been between 27.6% and 64.4% for the first-year → \$ weighted returns are not as poor as equally weighted returns
- The SPAC market is evolving towards a more sustainable equilibrium