



**EQUITY RISK SCIENCES, INC**  
*Technology for Investment Excellence*

**500+ COMPANIES THAT RECENTLY CRASHED  
HELD BY THE LARGEST MUTUAL FUNDS AND ETFs:  
THESE LOSSES WERE *ENTIRELY AVOIDABLE* WITH ERS'S TECHNOLOGY**

*April 18, 2024*

# THESE 100 COMPANIES LOST \$9.2 TRILLION IN 2022.

## 100% OF THESE LOSSES WERE AVOIDABLE WITH ERS'S TECHNOLOGY

The average company in this list **declined -42%** from 12/31/21 to 12/31/22.

Every one of these losses were avoidable.

86 of these 100 companies had **PRI™** or **FRI™** ratings of **70 or greater** – a **“high-risk”** score.

3M Co	Abbott Labs	Adobe	Affirm Holdings	Airbnb	Align Technology
Alphabet	Amazon	AMD	American Tower	Apple	Applied Materials
AppLovin	Autodesk	Bank of America	BlackRock	Blackstone	Block
Broadcom	Capital One	Charter Comms	Cisco	Citigroup	Cloudflare
CME Group	Coinbase	Comcast	Costco	CrowdStrike	Crown Castle
Danaher	Datadog	Digital Realty	DoorDash	Ecolab	Edwards Lifesciences
Estee Lauder	FedEx	Fidelity	Ford	General Electric	General Motors
Home Depot	IDEXX Labs	Illumina	Intel	Intuit	Intuitive Surgical
JPMorgan	Lam Research	Lowe's	Lucid Group	Marvell	Match Group
Meta	Micron Tech	Microsoft	Moderna	MongoDB	Moody's
Morgan Stanley	Netflix	Nike	NVIDIA	Okta	Palantir Tech
PayPal	Pfizer	Procter & Gamble	Qualcomm	Rivian Auto	Roblox
Roku	Salesforce	ServiceNow	Sherwin-Williams	Snap	Snowflake
Starbucks	SVB Financial	T. Rowe Price	Target	Tesla	Texas Instruments
Thermo Fisher	Trade Desk	Truist Financial	Twilio	Uber	Union Pacific
Unity Software	UPS	Verizon	Visa	Walt Disney Co	Wells Fargo
Workday	Zoetis	Zoom	Zscaler		

*Sample: The 100 US companies with the greatest loss in market value from their 12/31/2021 to 12/31/2022.*

# THESE 100 COMPANIES LOST AN AVERAGE OF 64% FROM 12/31/21 TO 12/31/22. THESE LOSSES WERE AVOIDABLE WITH ERS'S TECHNOLOGY

These 100 companies **lost \$5.7 trillion** of market value from their 1-year highs between 12/31/2021 and 12/31/2022.

ERS's average **FRR Rating™** on these 100 companies was a **very risky 85**.

10x Genomics	Affirm	Airbnb	Align Tech	Ally Financial	Amazon
AMC Enter.	AMD	AppLovin	Asana	Aurora Innov.	Avantor
Ball	Bill.com	Bio-Rad Labs	Black & Decker	Blackstone	Block
Boston Prop.	Caesars Enter.	CarMax	Carnival	Carvana	Catalent
Charter Comms	Cloudflare	Coinbase	Confluent	CrowdStrike	Datadog
DISH Network	DocuSign	DoorDash	EPAM Systems	Etsy	Expedia Group
Fidelity	Ford	Generac	General Motors	Ginkgo Bioworks	GoodRx
HashiCorp	HubSpot	Illumina	Intel	Liberty Broadband	Live Nation Enter.
Lucid	Lyft	Marvell	Match	Meta	Micron
MongoDB	Mosaic	Netflix	Nutex Health	NVIDIA	Okta
Olaplex	Palantir	Paramount	PayPal	Peloton	Plug Power
Pool	Qualtrics	RingCentral	Rivian Auto	Roblox	Roku
Salesforce	Signature Bank	Snap	Snowflake	SVB Financial	Taihe
Teladoc Health	Teradyne	Tesla	Theralink	Trade Desk	TransUnion
Trex	Twilio	Uber	UiPath	Unity	Upstart
VF Corp	Walt Disney	Warner Bros	Wayfair	West Pharma.	Western Digital
Zebra Tech	Zoom	ZoomInfo	Zscaler		

*Sample: US companies which lost at least \$10 billion of market value from their 1-year highs to 12/31/2022. This table shows the 100 companies with the worst 1-year price drawdowns from among this sample.*

# THESE 100 COMPANIES LOST AN AVERAGE OF 85% FROM 12/31/20 TO 12/31/22. THESE LOSSES WERE AVOIDABLE WITH ERS'S TECHNOLOGY

These 100 companies **lost \$4.8 trillion** of market value from their 2-year highs between 12/31/2020 and 12/31/2022.

ERS's average **FRR Rating™** on these 100 companies was a **very risky 95**.

10x Genomics	Affirm	Align Tech	Altice USA	Am. Great Health	AMC Enter.
Appian	AppLovin	Asana	Aurora Innov.	Beyond Meat	Bill.com
Block	Boston Beer	Bright Health	C3.ai	Carnival	Carvana
Catalent	Chegg	Chewy	Chun Can Capital	Cloudflare	Coinbase
Confluent	ContextLogic	Coupa Software	DigitalOcean	DISH Network	DocuSign
DoorDash	DraftKings	Elastic NV	Fastly	GameStop	Generac
Ginkgo Bioworks	GoodRx	Guardant Health	HashiCorp	IAC	ImmunityBio
Intellia Thera.	Invitae	Life360	Lucid	Luminar Tech	Lyft
Marqeta	Match	Meta	MicroStrategy	Newegg	Nikola
Novavax	Nutex Health	Okta	Olaplex	Opendoor Tech	Palantir
Paramount	PayPal	Peloton	PENN Enter.	Pinterest	Plug Power
Qualtrics	QuantumScape	RingCentral	Rivian Auto	Robinhood	Roblox
Roku	Scotts Miracle Gro	SentinelOne	Signature Bank	Skillz	Snap
SoFi Tech.	SPO Networks	Stitch Fix	Sunrun	SVB Financial	Taihe
Teladoc Health	Tesla	Theralink	Toast	Trex	TuSimple
Twilio	UiPath	Unity	Upstart	Virgin Galactic	Wayfair
XPO	Zillow	Zoom	Zscaler		

*Sample: US companies which lost at least \$10 billion of market value from their 2-year highs to 12/31/2022. This table shows the 100 companies with the worst 2-year price drawdowns from among this sample.*

# SAMPLE OF 48 STOCKS WITH ERS'S WORST PRI™ RATINGS IN THE PAST 5 YEARS

Symbol	Company	Date	PRI™ Rating	Loss to Low Price
AFRM	Affirm Holdings	11/4/2021	100	-94%
BABA	Alibaba	10/27/2020	81	-80%
ALGN	Align Technology	9/8/2021	98	-76%
AMC	AMC Entertainment	6/2/2021	100	-92%
BILI	Bilibili	2/10/2021	100	-94%
BA	Boeing	3/1/2019	90	-78%
CVNA	Carvana	8/10/2021	81	-99%
CHWY	Chewy	2/12/2021	88	-80%
CS	Credit Suisse	1/26/2018	87	-83%
DOCU	DocuSign	9/3/2021	100	-87%
DASH	DoorDash	11/12/2021	100	-82%
DXC	DXC Tech	3/20/2018	57	-91%
EMBK	Embark Tech	1/3/2022	100	-98%
EPAM	EPAM Systems	11/8/2021	100	-76%
ETSY	Etsy	11/24/2021	99	-77%
GMVD	G Medical Innovations	2/2/2021	100	-99%
HAL	Halliburton	1/23/2018	86	-91%
IQ	iQIYI	6/20/2018	100	-95%
MRNA	Moderna	8/9/2021	99	-76%
MDB	MongoDB	11/16/2021	92	-77%
NFLX	Netflix	11/17/2021	96	-76%
OKTA	Okta	9/2/2021	99	-83%
PLTR	Palantir Tech	1/27/2021	100	-83%
PYPL	PayPal	7/23/2021	100	-77%

Symbol	Company	Date	PRI™ Rating	Loss to Low Price
PTON	Peloton	1/13/2021	100	-96%
PDD	Pinduoduo	2/17/2021	100	-87%
PINS	Pinterest	2/16/2021	100	-81%
PLUG	Plug Power	2/9/2021	98	-80%
RSMDF	ResMed	9/23/2021	95	-94%
RIVN	Rivian Auto	11/16/2021	100	-88%
RBLX	Roblox	11/19/2021	100	-83%
ROKU	Roku	7/26/2021	84	-90%
SE	Sea Ltd	10/19/2021	87	-89%
SHOP.TO	Shopify	11/19/2021	98	-82%
SLB	SLB	1/22/2018	93	-83%
SNAP	Snap	9/24/2021	98	-91%
SNOW	Snowflake	11/16/2021	90	-72%
SPOT	Spotify	2/19/2021	98	-81%
TSLA	Tesla	11/4/2021	99	-70%
TLRY	Tilray Brands	9/19/2018	100	-99%
TWLO	Twilio	2/18/2021	100	-90%
U	Unity Software	11/18/2021	100	-89%
UPST	Upstart Holdings	10/15/2021	100	-96%
DISCB	Warner Bros Discovery	3/31/2021	100	-82%
W	Wayfair	3/22/2021	69	-92%
WLL	Whiting Petroleum	6/22/2018	98	-99%
ZG	Zillow Group	2/16/2021	93	-87%
ZM	Zoom	10/19/2020	100	-88%
<b>Average of All 48 Stocks</b>			<b>95</b>	<b>-86%</b>

**Problem:** In the past 3 years, these 200 companies lost an average of 66%.

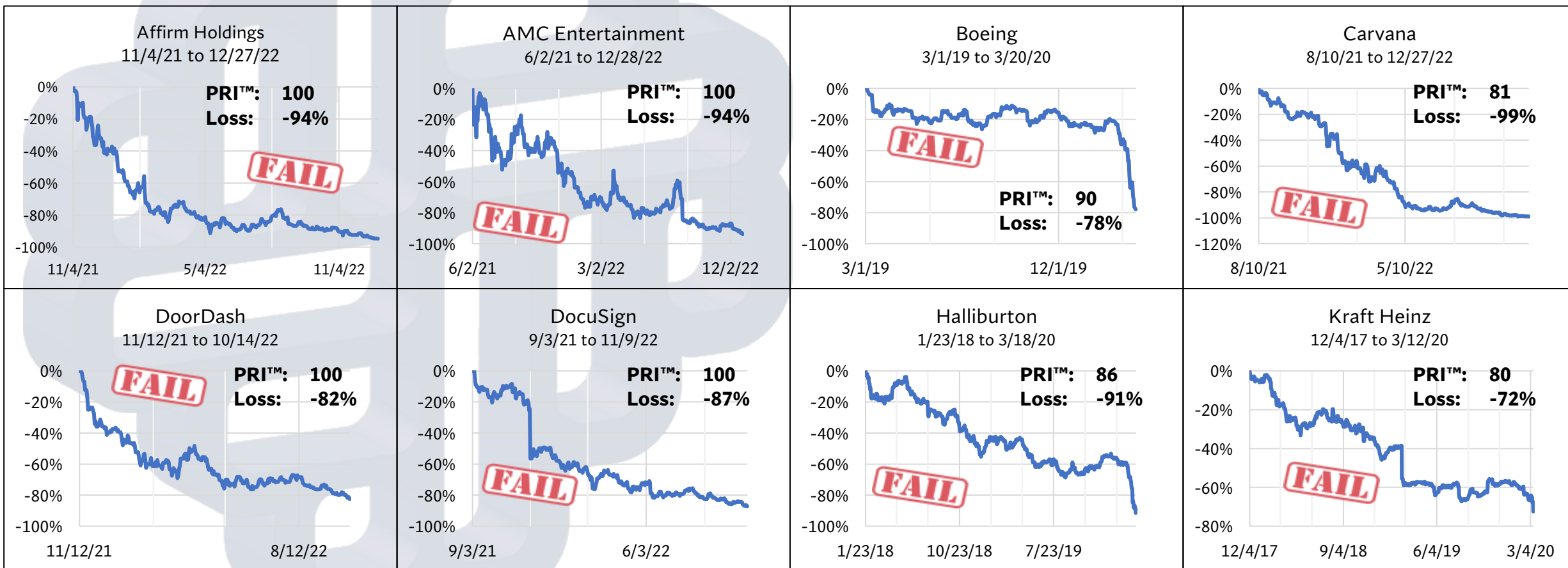
**Solution:** ERS's **Fiduciary Risk Rating™ (FRR™)**

These 200 stocks had a very risky rating of 81 (on a scale of 0 to 100) ...*before they fell.*

10x Genomics: -82%	3M: -38%	Accenture: -35%	Adobe: -51%	Advance Auto : -37%	Affirm Hldgs: -94%	Agora: -96%	Airbnb: -61%
Alcoa Corp: -52%	Algonquin Pwr.: -57%	Alibaba: -72%	Alphabet: -41%	Alteryx: -72%	Amazon: -55%	AMC Enter'tn: -93%	AMD: -47%
America Great H.: -99%	American Air.: -51%	AMTD: -99%	Applied Mats.: -41%	Arrival: -99%	Athena Bitcoin: -99%	Autodesk: -45%	Avis Budget: -54%
Babylon Holdings: -98%	Baidu: -66%	Ball: -47%	Bausch: -82%	Baxter Int'l: -44%	Beyond Meat: -94%	Black & Decker: -64%	BlackBerry: -87%
Blackstone: -48%	Block: -78%	Boeing: -45%	Boston Beer: -75%	Boston Prop.: -48%	Bright Health: -96%	Capital One: -46%	CarMax: -61%
Carnival: -84%	Carvana: -99%	Celanese: -38%	Charles River: -52%	Charter: -59%	Chewy: -69%	China Evergrande: -99%	Citigroup: -38%
Cleveland-Cliffs: -51%	Clorox: -37%	Cognizant: -38%	Coinbase: -90%	Comcast: -42%	ContextLogic: -98%	Credit Suisse: -79%	Crocs: -40%
Denali Thera.: -70%	Dentsply Sirona: -53%	DiDi Global: -81%	DISH Network: -70%	DocuSign: -82%	DoorDash: -80%	Doximity: -67%	Eargo: -99%
Eastman Chemical: -34%	Etsy: -60%	Evergrande: -89%	Exact Sciences: -68%	Expedia: -59%	Farfetch: -94%	FedEx: -44%	First Republic: -45%
Five9: -68%	Fiverr Int'l: -91%	Floor & Décor: -51%	GameStop: -79%	Gap: -67%	Garmin: -46%	Generac: -80%	General Motors: -49%
Getty Images: -84%	Ginkgo Bioworks: -89%	GitLab: -65%	Grab Holdings: -64%	GSK PLC: -38%	Guardant: -85%	Hasbro: -37%	Hertz Global: -56%
HubSpot: -66%	IDEXX Labs: -42%	Intel Corp: -58%	Int'l Paper: -43%	Intuit: -44%	IPG Photonics: -63%	iQIYI: -82%	James Hardie: -56%
JD.com: -46%	Kinross Gold: -57%	Lenovo: -46%	Levi Strauss: -47%	LifeStance: -83%	Lincoln National: -58%	Logitech: -54%	Lucid Group: -88%
Luckin Coffee: -56%	Lumen Tech: -62%	Lyft: -84%	Macy's: -43%	Magna Int'l: -44%	Marvell Tech: -59%	Match Group: -76%	Medtronic: -40%
Meta Platforms: -69%	Micron Tech: -48%	MicroStrategy: -89%	Moderna: -63%	Mohawk: -56%	Monday.Com: -73%	MongoDB: -66%	Morningstar: -37%
NetApp: -36%	Netflix: -57%	Newegg: -98%	Newell Brands: -52%	Newmont: -43%	Nomura Resch.: -47%	NVIDIA: -56%	Oak Street Hth.: -67%
Okta: -75%	OneConnect: -98%	Ontrak: -100%	Palantir Tech: -84%	Palo Alto: -33%	Paramount: -82%	PayPal: -77%	Peloton: -95%
PENN Enter'tn: -78%	Pinduoduo: -60%	Pinterest: -73%	Plug Power: -82%	Qualcomm: -41%	Repligen: -48%	Revlon: -98%	RH: -64%
Rivian Auto: -89%	RLX Tech: -92%	Robert Half: -40%	Robinhood: -88%	Roblox: -79%	Roku: -92%	Salesforce: -57%	SAP SE: -37%
Scotts Miracle Gro: -80%	Sea: -86%	Seagate Tech: -52%	SentinelOne: -81%	ServiceNow: -45%	Shopify: -79%	Signature Bank: -68%	Skillz: -99%
SmileDirectClub: -98%	Snap: -89%	Snowflake: -64%	Sony Group: -41%	Southwest Air: -47%	Splunk: -61%	Spotify Tech: -78%	Sunrun: -75%
Taiwan Semi.: -46%	Target: -41%	Teladoc Health: -92%	Tesla: -69%	Toast: -72%	Toyota: -34%	Trade Desk: -60%	Trex: -70%
Twilio: -89%	Tyson Foods: -36%	Uber: -61%	UiPath: -85%	Under Armour: -62%	Unity Software: -86%	VF Corp: -69%	Volkswagen AG: -47%
Vroom: -99%	Walt Disney: -57%	Wayfair: -90%	WB Discovery: -64%	Western Digital: -59%	Western Union: -44%	Whirlpool: -41%	Williams-Son.: -47%
Wix.com: -78%	Workday: -44%	XP: -70%	Zebra Tech: -58%	Zillow: -85%	Zoom: -88%	ZoomInfo: -61%	Zscaler: -70%

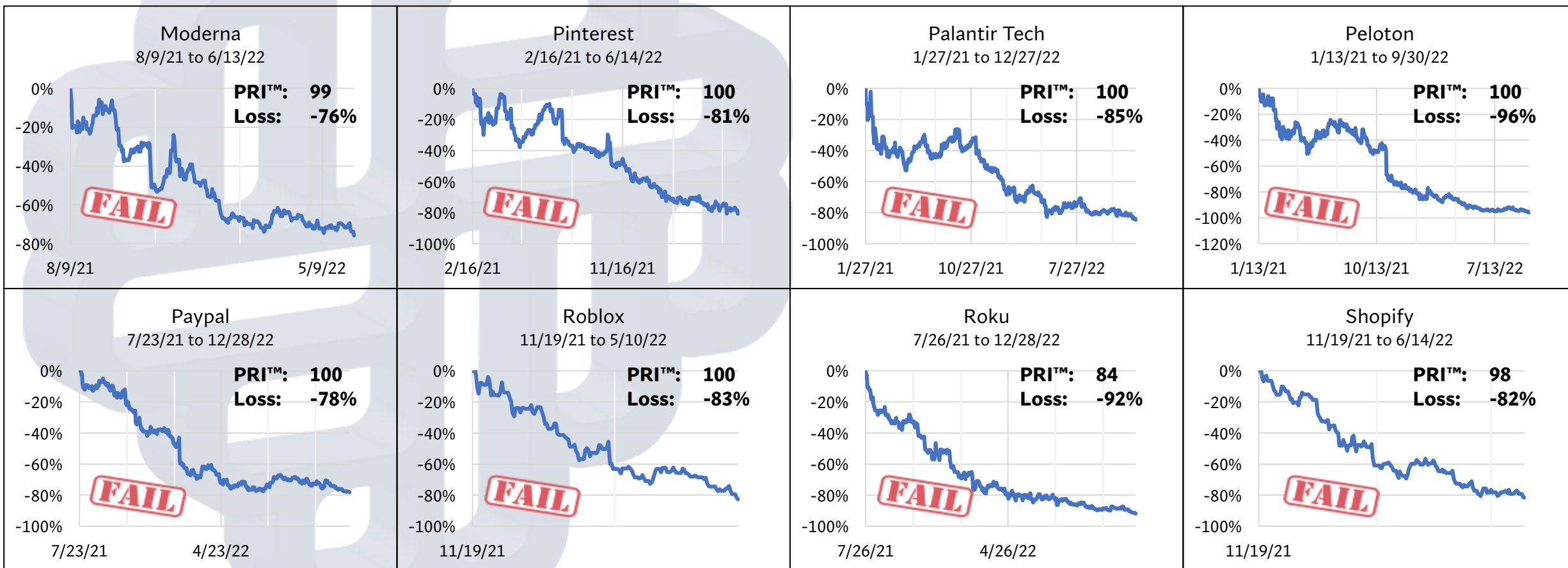
# 24 STOCKS THAT CRASHED (PAGE 1 OF 3)

At their 5-year high prices, these 24 stocks had an average **PRI™** rating of **96**.  
From those dates and those prices, they lost an average of **87%**.



# 24 STOCKS THAT CRASHED (PAGE 2 OF 3)

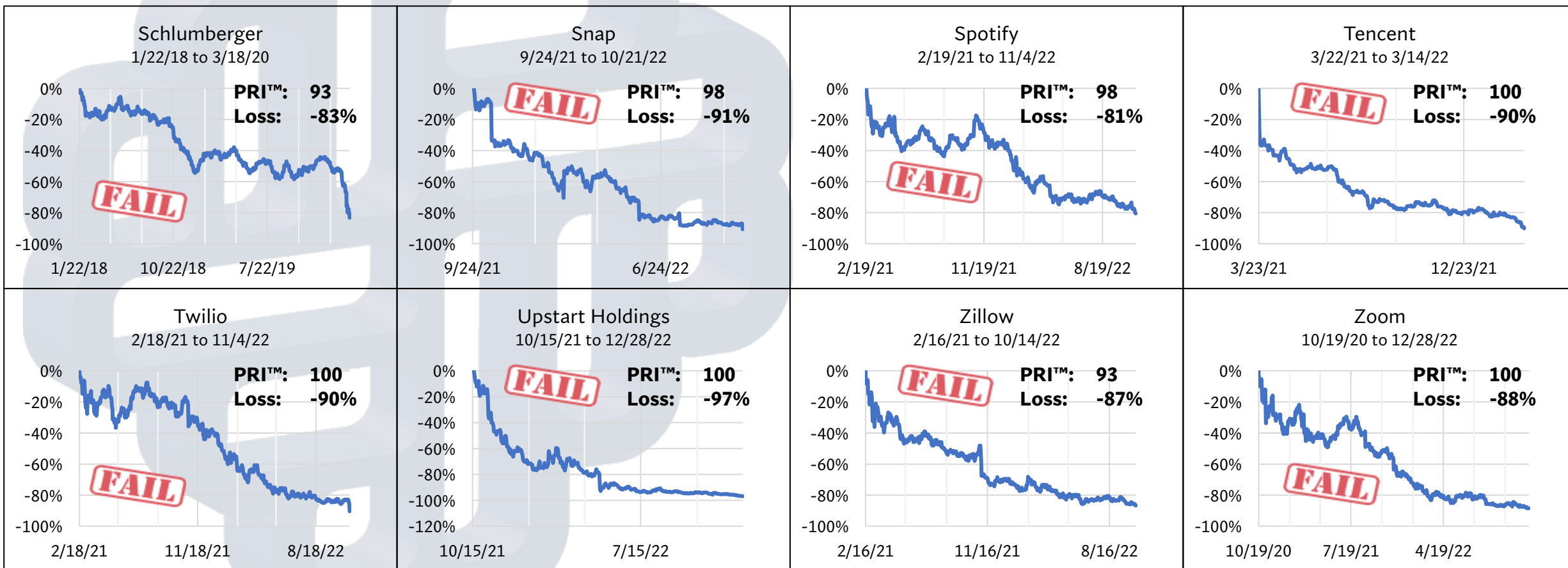
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# 24 STOCKS THAT CRASHED (PAGE 3 OF 3)

At their 5-year high prices, these 24 stocks had an average **PRI™** rating of **96**.  
From those dates and those prices, they lost an average of **87%**.



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