



CREDIT RATING

PRINCIPAL COMPONENT ANALYSIS, K-MEANS CLUSTERING, LINEAR INTERPOLATION, LOWEST-COEFFICIENTS FITTING

WHERE WERE WE LAST TIME?

The Model Was Not Sophisticate Enough



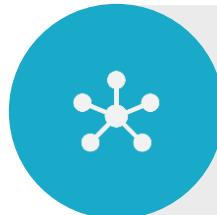
K-Means Clustering Algorithm alone cannot answer which groups are good or bad

Lack of implication of Credit Scoring



We was even not sure at which price a stock should be valued given its credit score

Issues in Variable Selection



We have to choose the variables ourselves, which might be incomplete and biased. Selected variables might exhibit strong pair-wise correlation, resulting in double effects

COUNTER THE PROBLEMS

1

Inter-quartile
Range Method

2

Principal
Component
Analysis

3

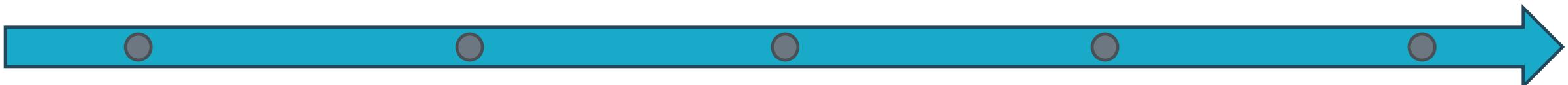
K-Means
Clustering
Algorithm

4

Linear
Interpolation

5

Lowest-
Coefficients
Regression



Data
Standardization

Variable
Selection

Grouping

Scoring

Pricing

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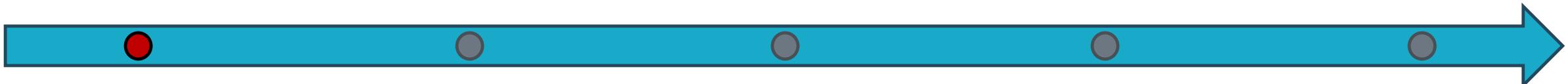
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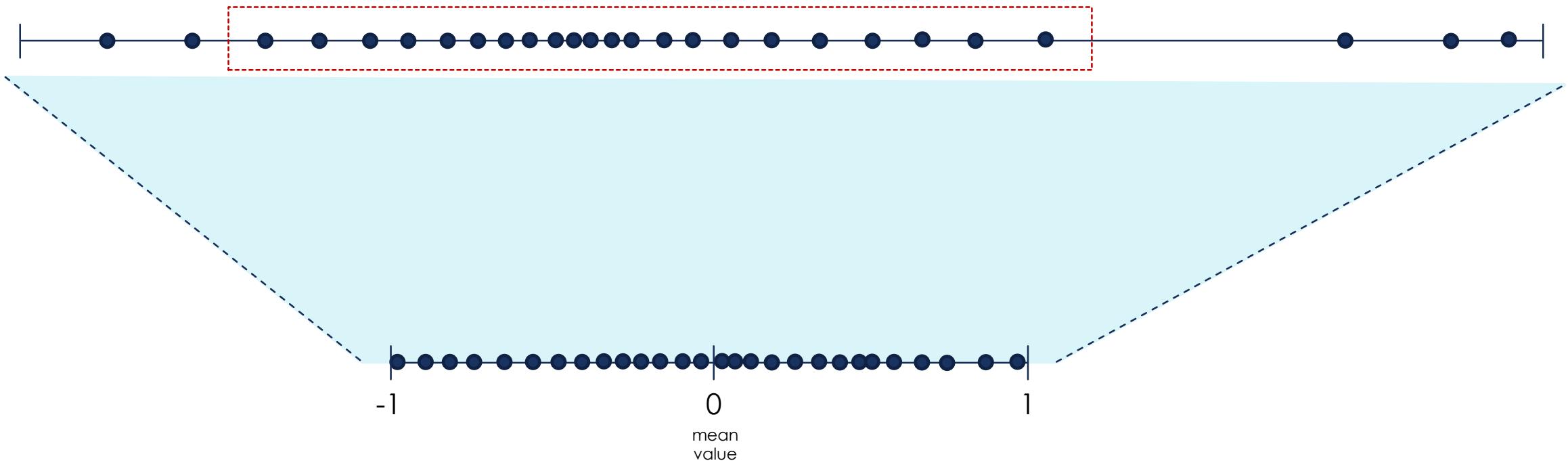
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DATA STANDARDIZATION

Inter-quartile Range Method (IQR)



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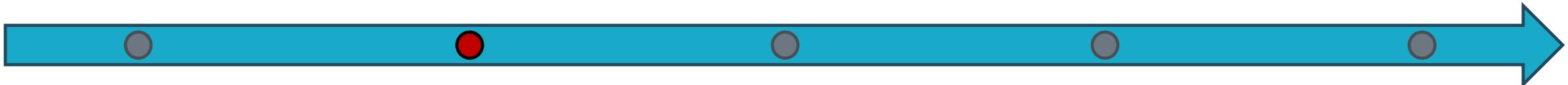
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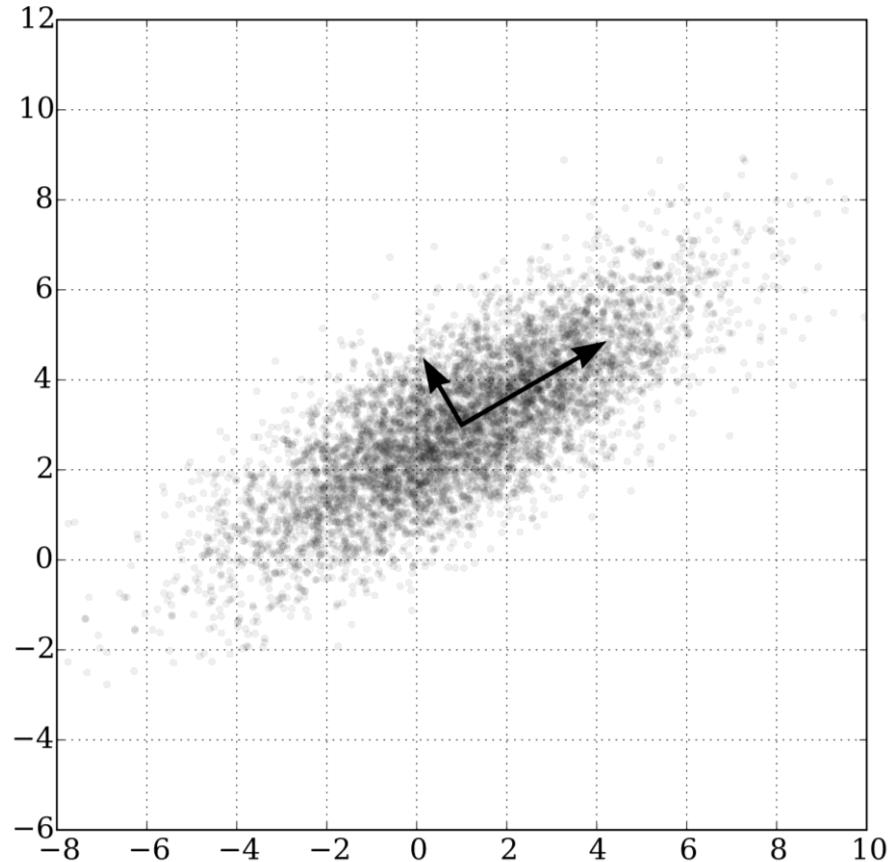
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VARIABLE SELECTION

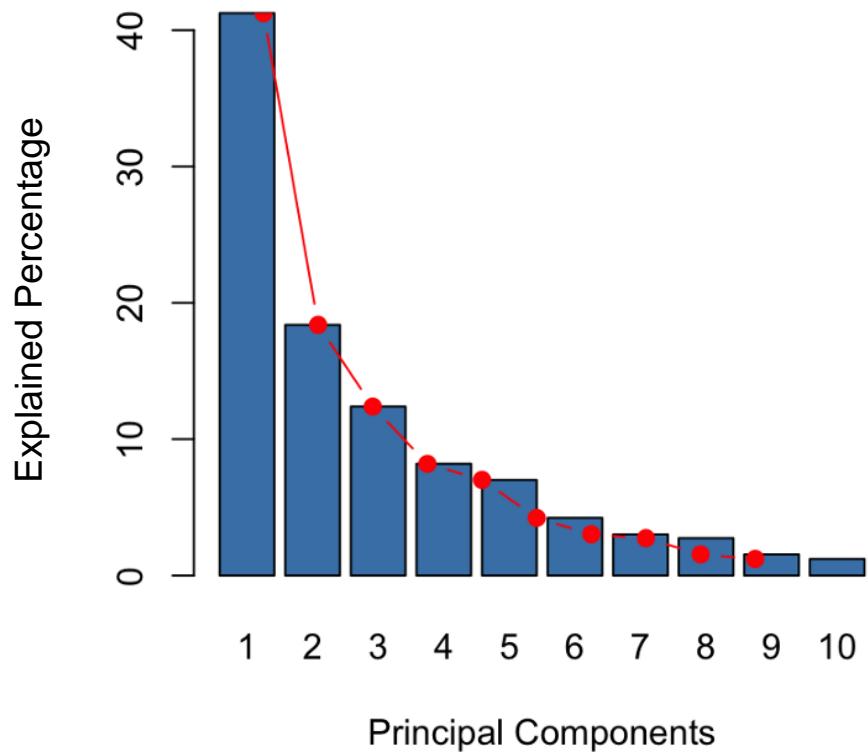
Principal Component Analysis (PCA)



- Remove correlation between variables, avoid double effect
- Change of basis is a linear transformation, which preserves distance between data points

VARIABLE SELECTION

Principal Component Analysis (PCA)



- We can throw a bunch of variables into the model. The model can produce a set of much fewer variables, called principal components (which are **completely uncorrelated**) that describes most of the input variables
- PCA extracts the most important information from that pool of variables
- We do not have to choose the variables ourselves
- The more variables thrown into the model, the more confidence we have that we capture “all” financial aspect of a companies

VARIABLE SELECTION – GENERAL INDUSTRY

Principal Component Analysis (PCA)

Altman Z-score: (5 variables)

- Working Capital / Total Assets
- Retained Earnings / Total Assets
- EBIT/ Total Assets
- Equity / Total Liabilities
- Sales / Total Assets

Beneish M-score: (8 variables)

- Days Sales in Receivables Index
- Gross Margin Index
- Asset Quality Index
- Sales Growth Index
- Depreciation Index
- SG&A Expenses Index
- Leverage Index
- Total Accruals to Total Assets

Fulmer H-score: (9 variables)

- Retained Earnings / Total Assets
- Revenue / Total Assets
- EBIT / Equity
- OCF / Debt
- Debt / Equity
- Current Liabilities / Total Assets
- log(Tangible Assets)
- Working Cap / Debt
- EBIT / Interest Expense

Fiin Group Key Indicators (17 variables)

- Return on Capital Employed (ROCE)
- Account Receivables Turnover
- Inventories Turnover
- Payable Turnover
- Asset Turnover
- Equity Turnover
- Cash Ratio
- Quick Ratio
- Current Ratio
- Long-term Debt / Equity
- Long-term Debt / Total Assets
- Debt / Equity
- Debt / Total Assets
- Short-term Debt / Equity
- Short-term Debt / Total Assets
- Liabilities / Equity
- Liabilities / Total Assets

Many more from online research papers...



I don't care,
take 'em all

VARIABLE SELECTION

Principal Component Analysis (PCA)

General Industries:

44 variables

Banking:

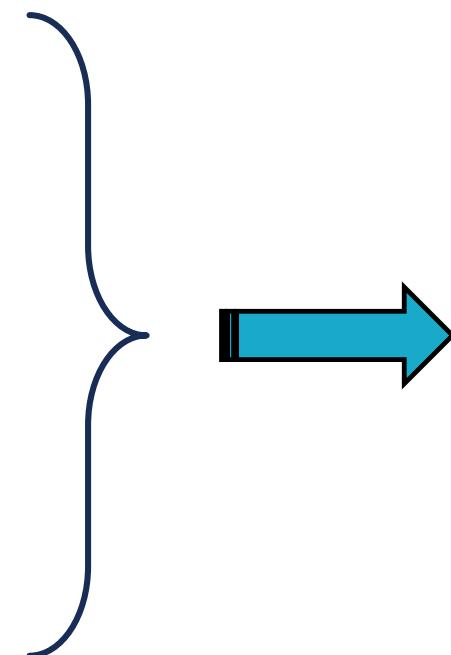
37 variables

Insurance:

29 variables

Brokerage:

25 variables



Reduced to
a half number of PCs

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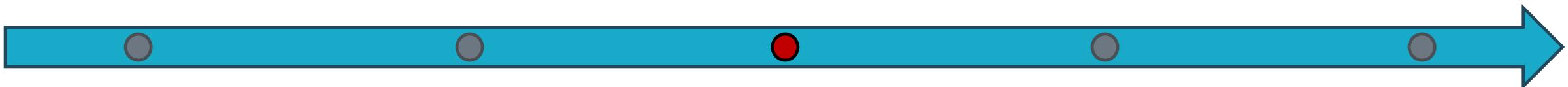
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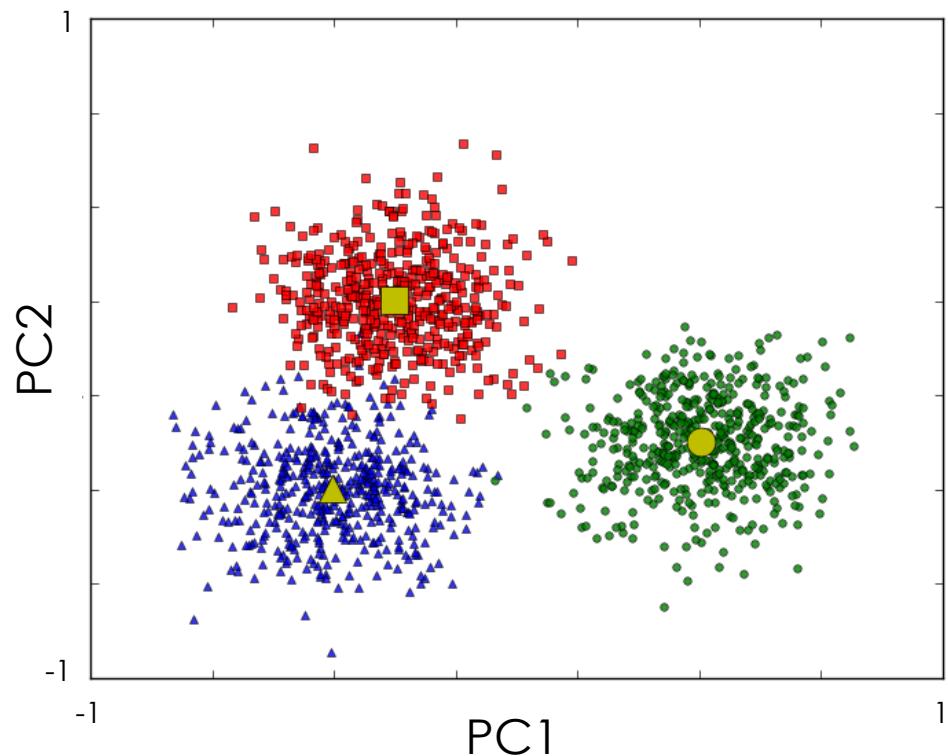
Scoring

Pricing

GROUPING

K-Means Clustering Algorithm

Example in 2D space



- K-Means facilitates grouping (or classifying) data points in multi-dimensional space
- Each group is represented by a centroid (center of that group)
- Each data point represents a company

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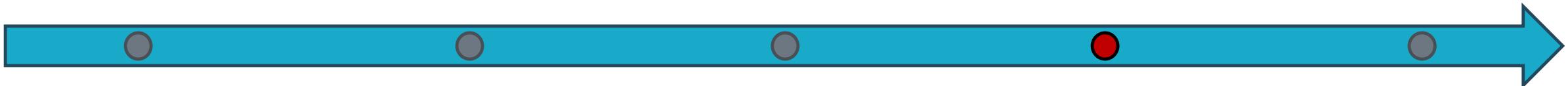
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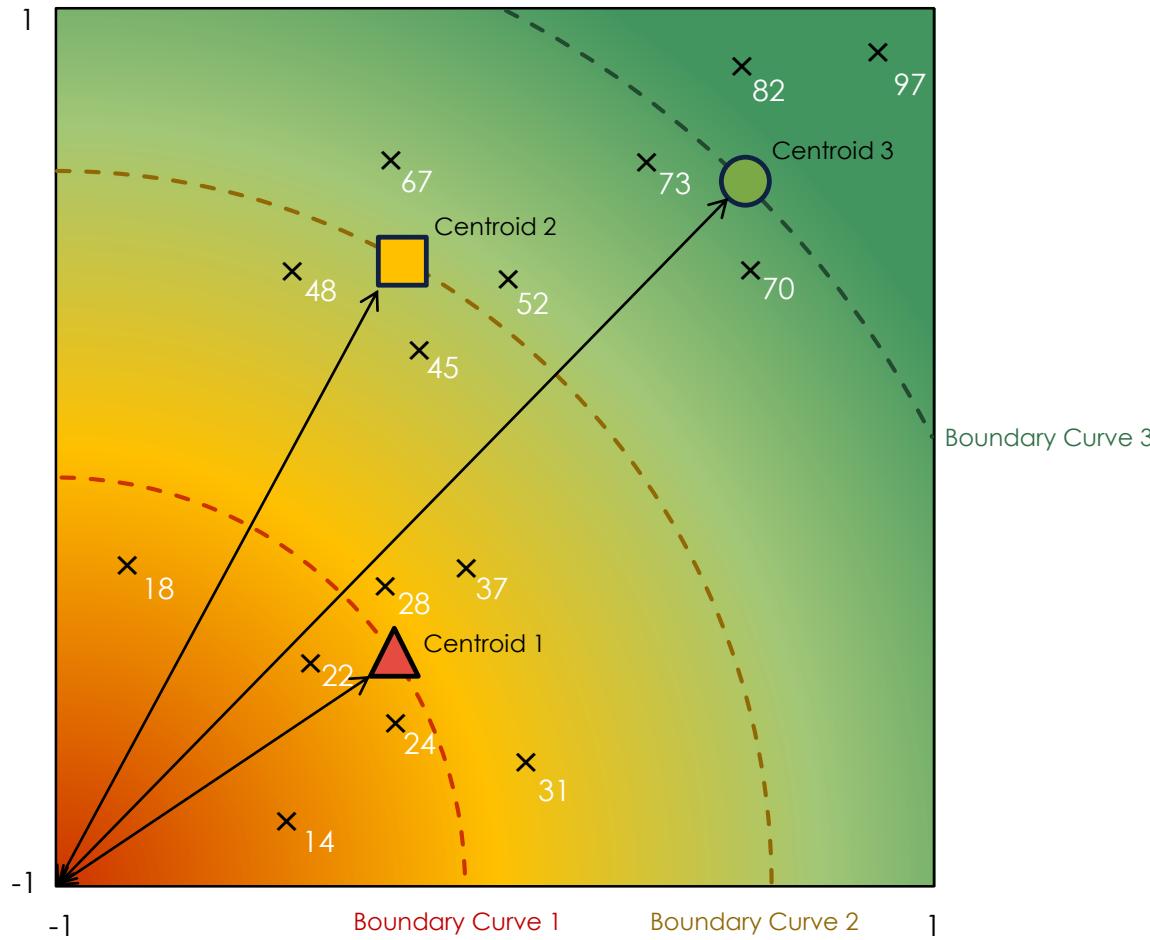
Grouping

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Pricing

SCORING

Linear Interpolation



We assign credit scores to every points on the boundary curves:

- Boundary curve 1: **25**
- Boundary curve 2: **50**
- Boundary curve 3: **75**

Linear Interpolation is used to compute the credit score of any company lies between 2 boundary curves

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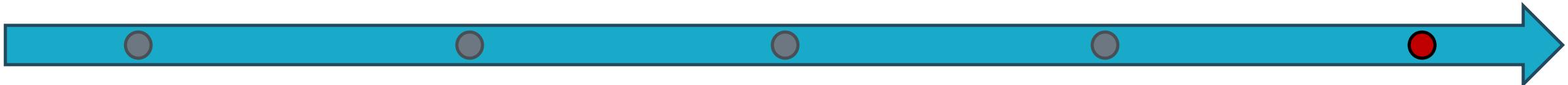
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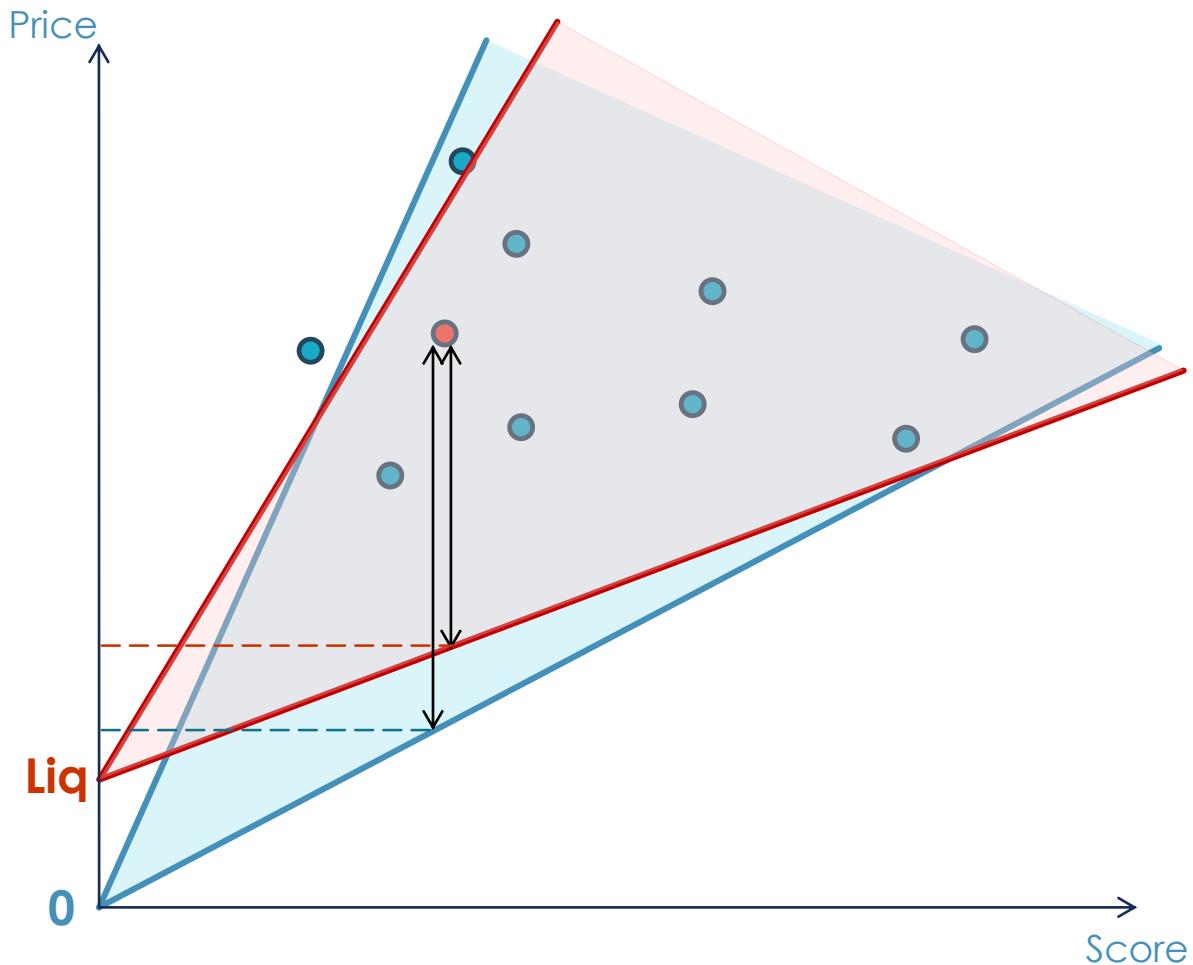
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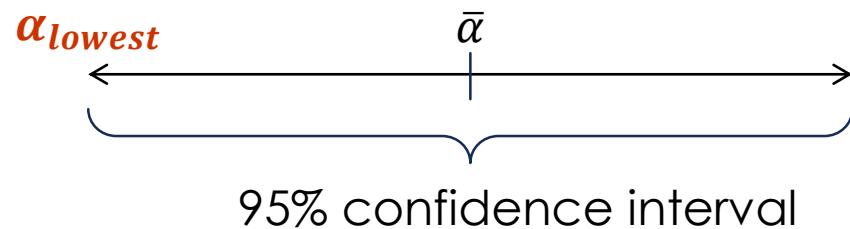
Pricing

PRICING

Lowest Possible Coefficients Regression



- By conservatively assuming liquidation value = 0, we implies that every stock whose credit score = 0 is worthless, hence its price must be 0
- Then we estimate the model:
$$\text{Fair Price}_{t+1} = \alpha \cdot \text{Score}_t$$
- We want the most conservative price, hence we do not estimate the expected value of α but the lowest possible value of it.



MODEL'S RESULT



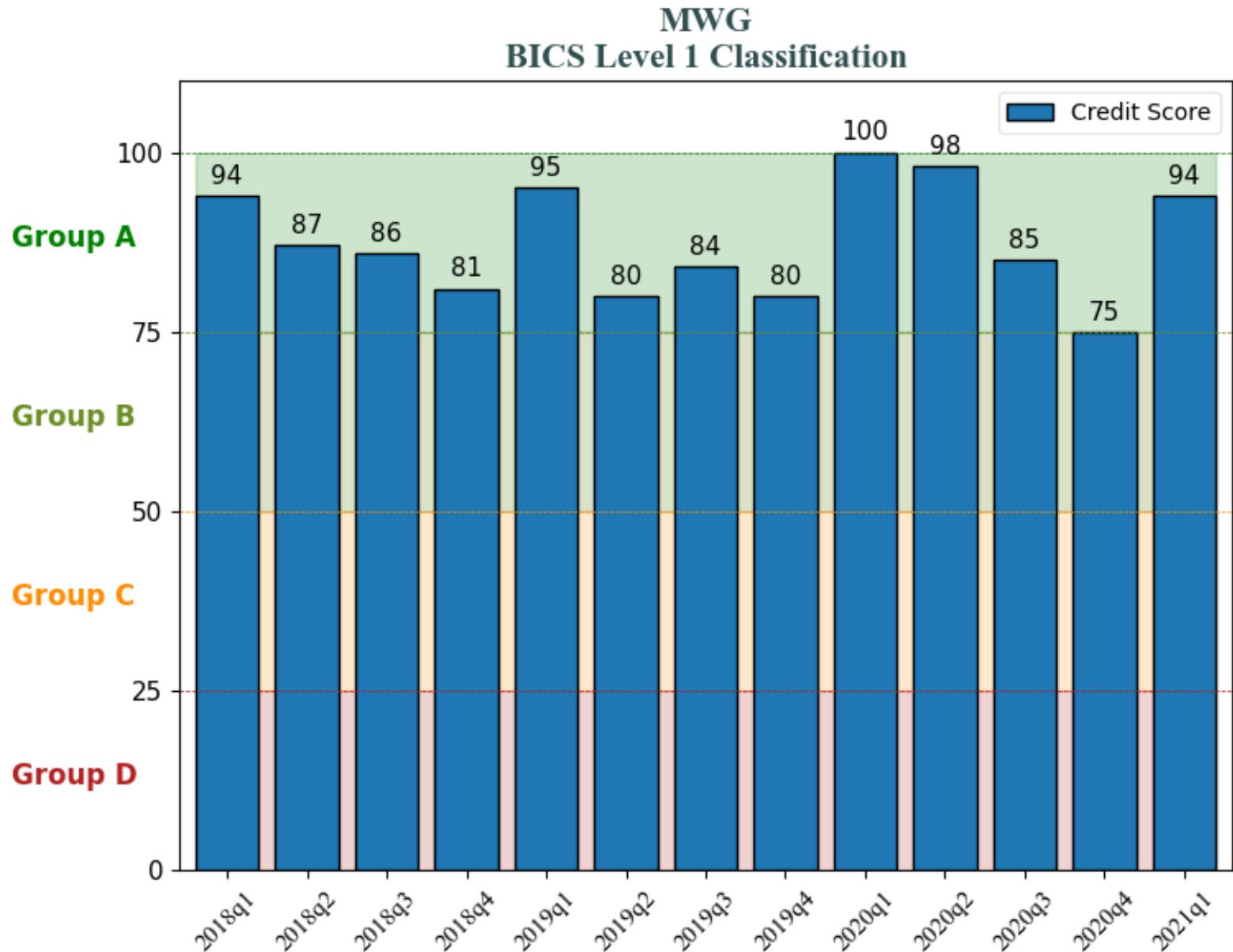


HOSE: MWG

MOBILE WORLD INVESTMENT CORPORATION

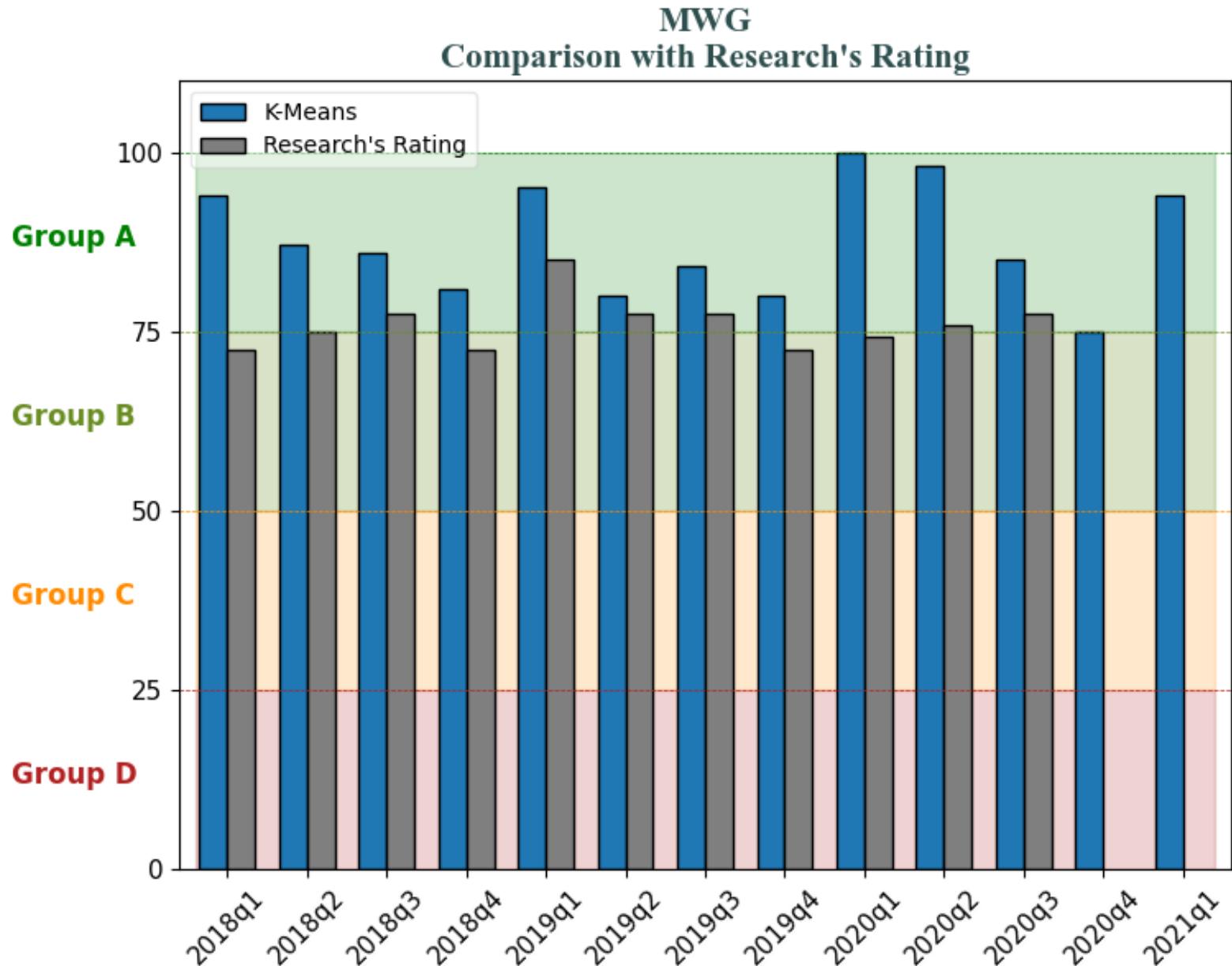
GENERAL INDUSTRIES

HOSE: MWG -
MOBILE WORLD
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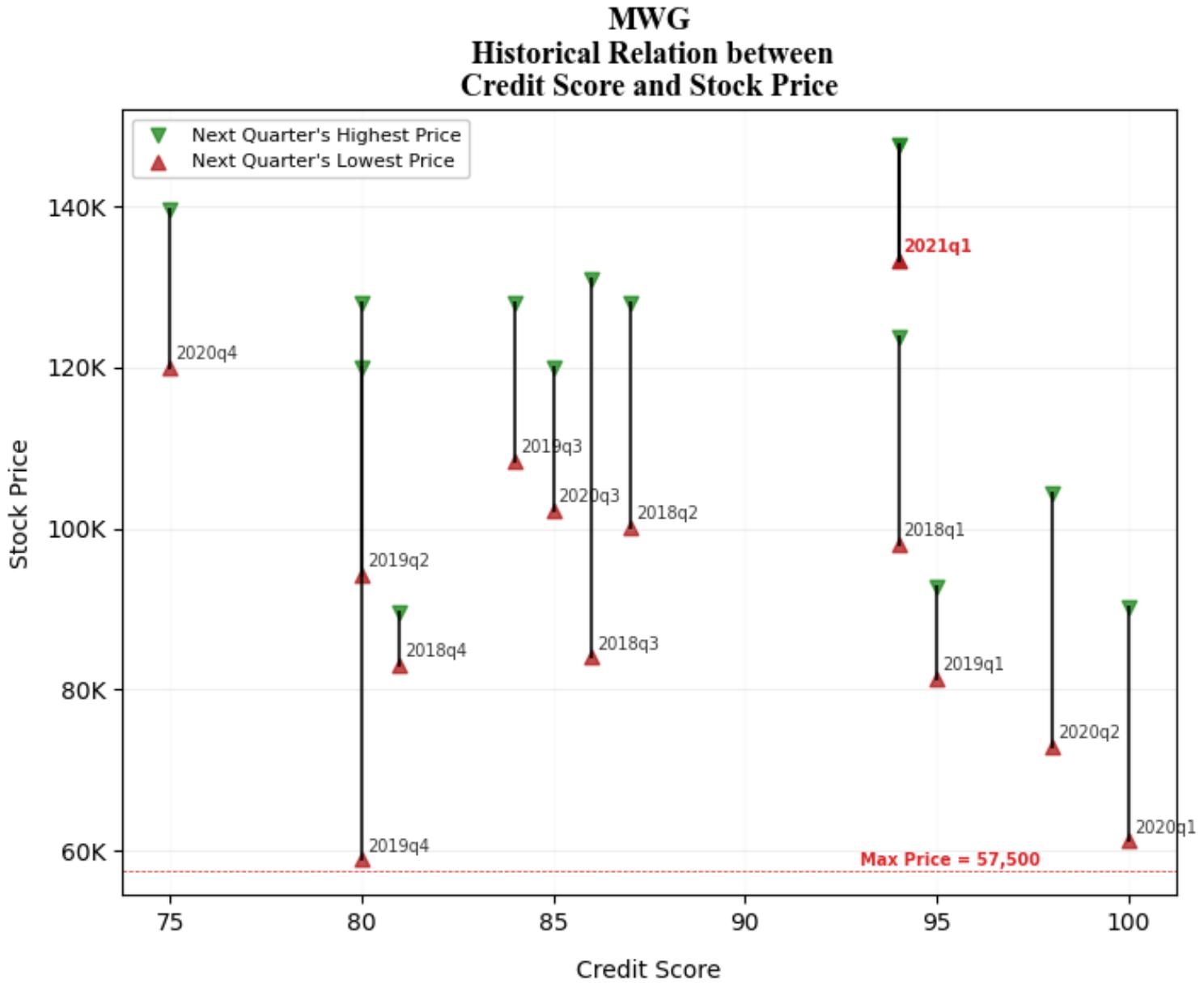


GENERAL INDUSTRIES HOSE: MWG - MOBILE WORLD INVESTMENT CORPORATION



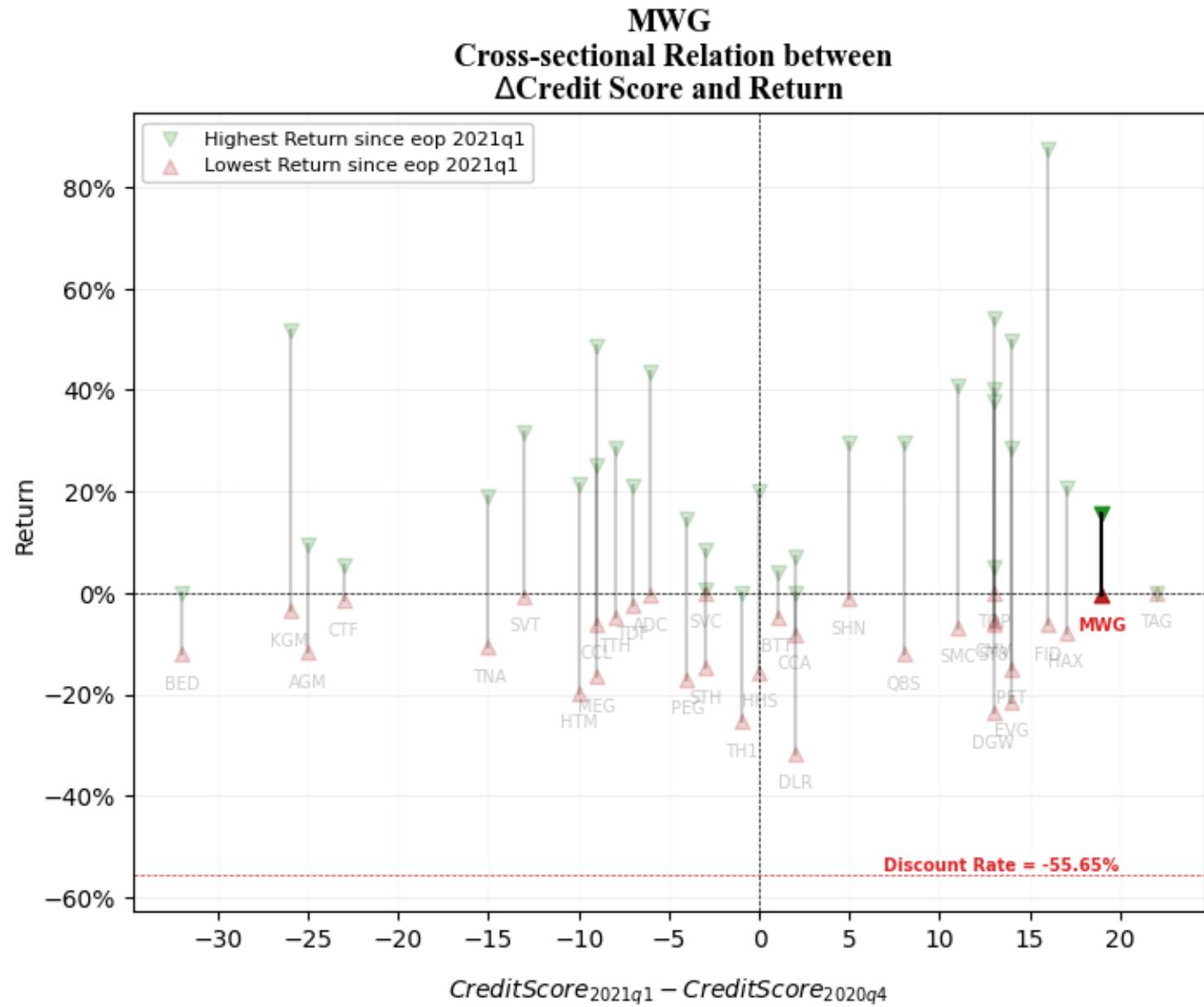
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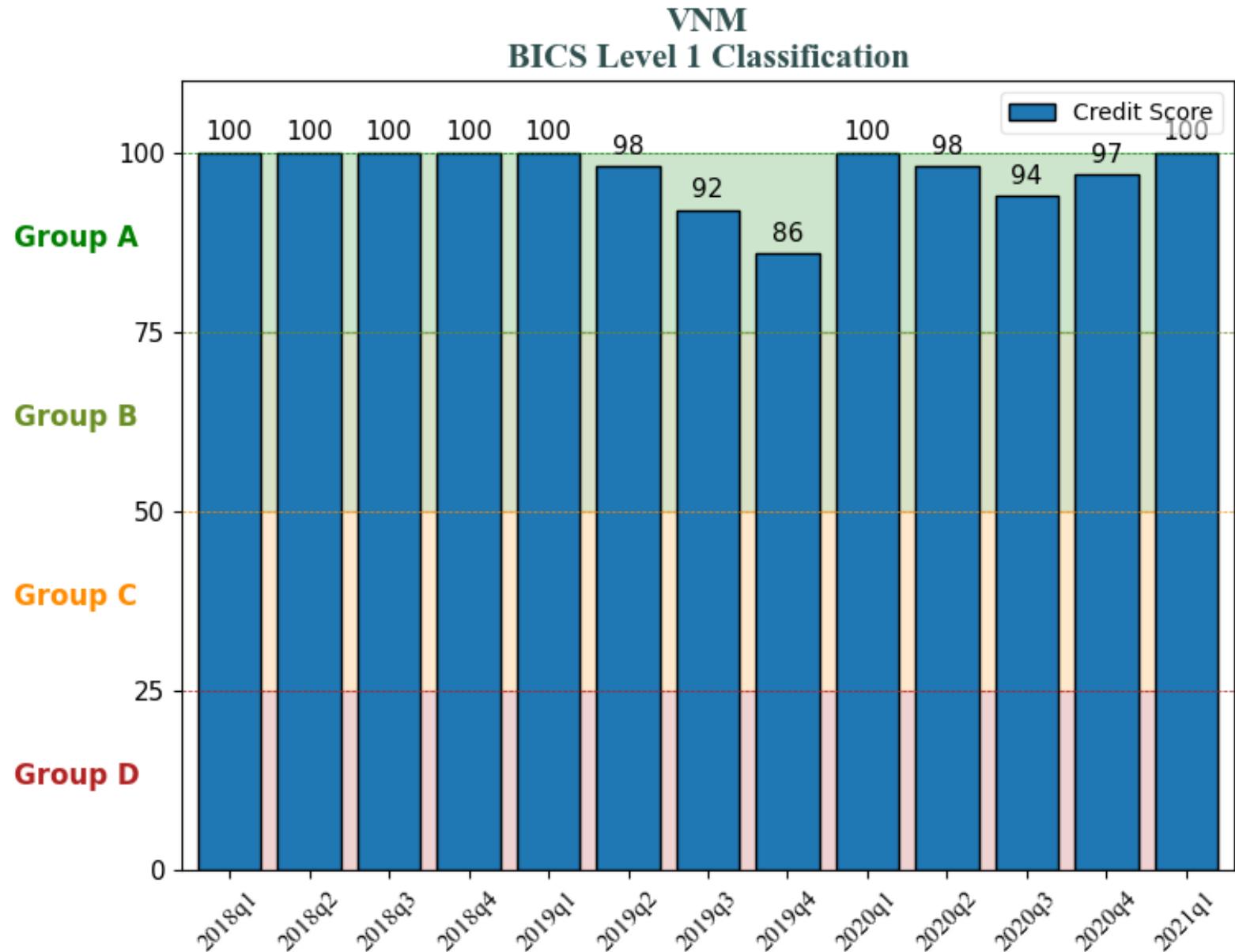
HOSE: VNM

VIET NAM DAIRY PRODUCTS JOINT STOCK COMPANY



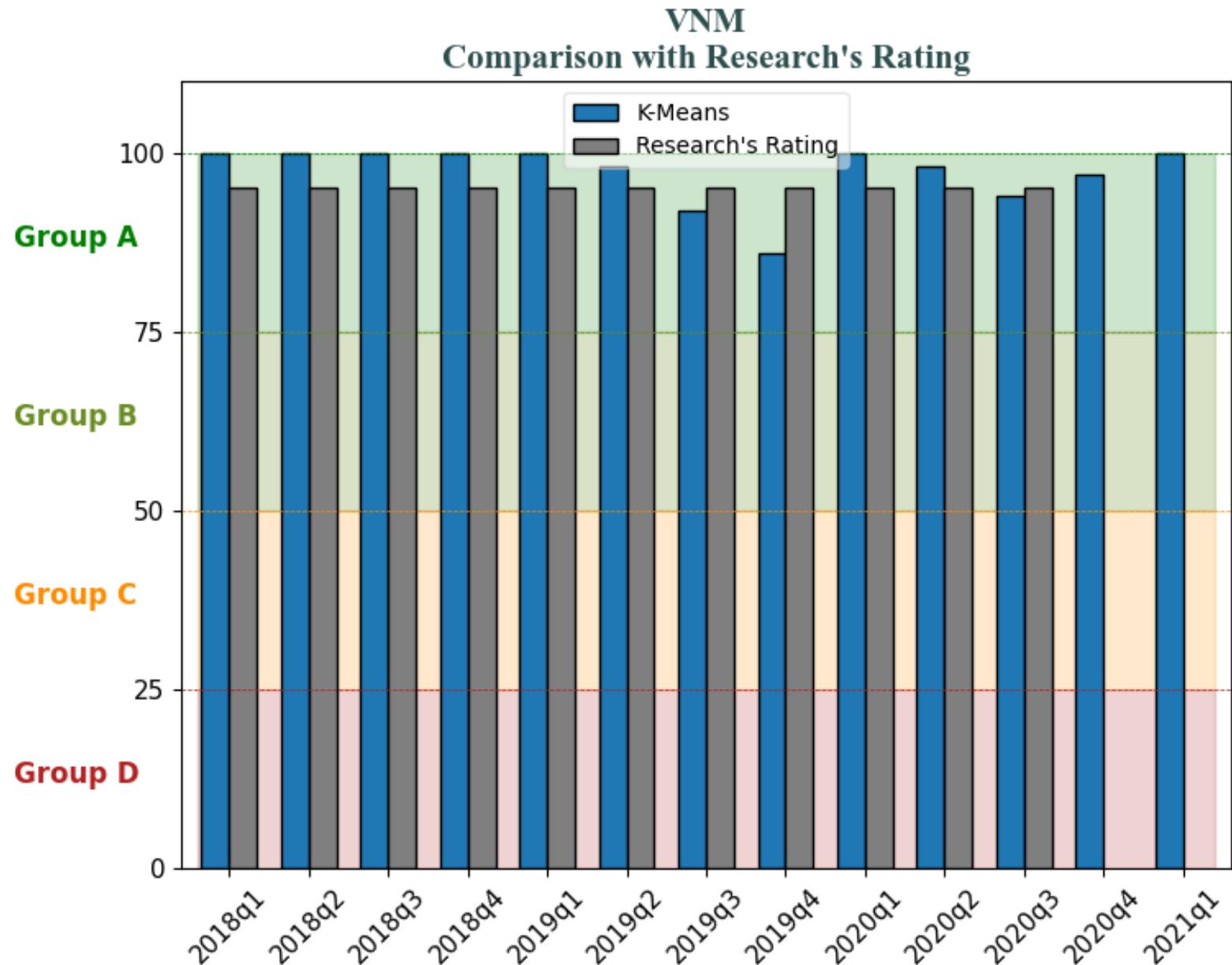
GENERAL INDUSTRIES

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STOCK COMPANY



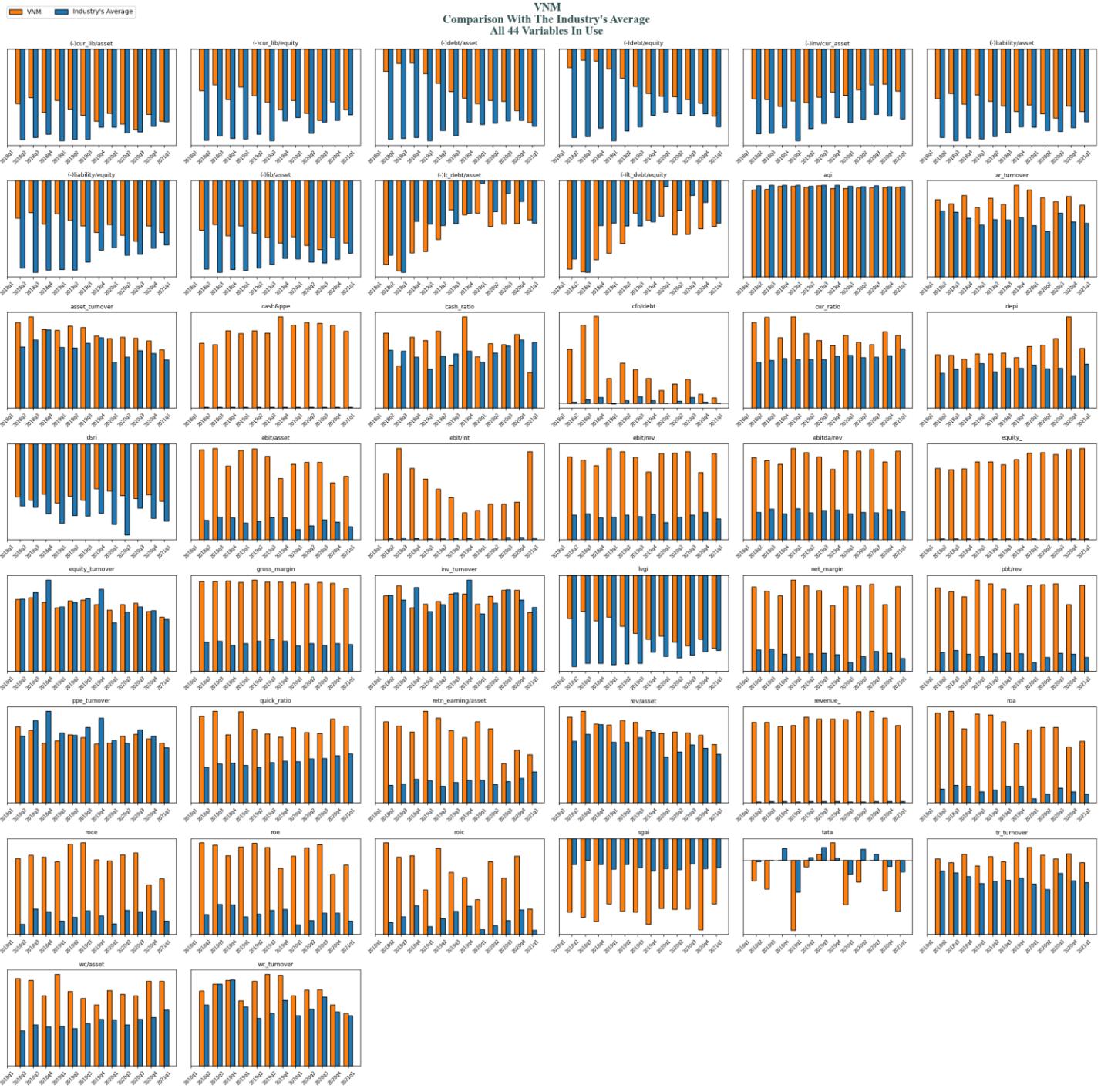
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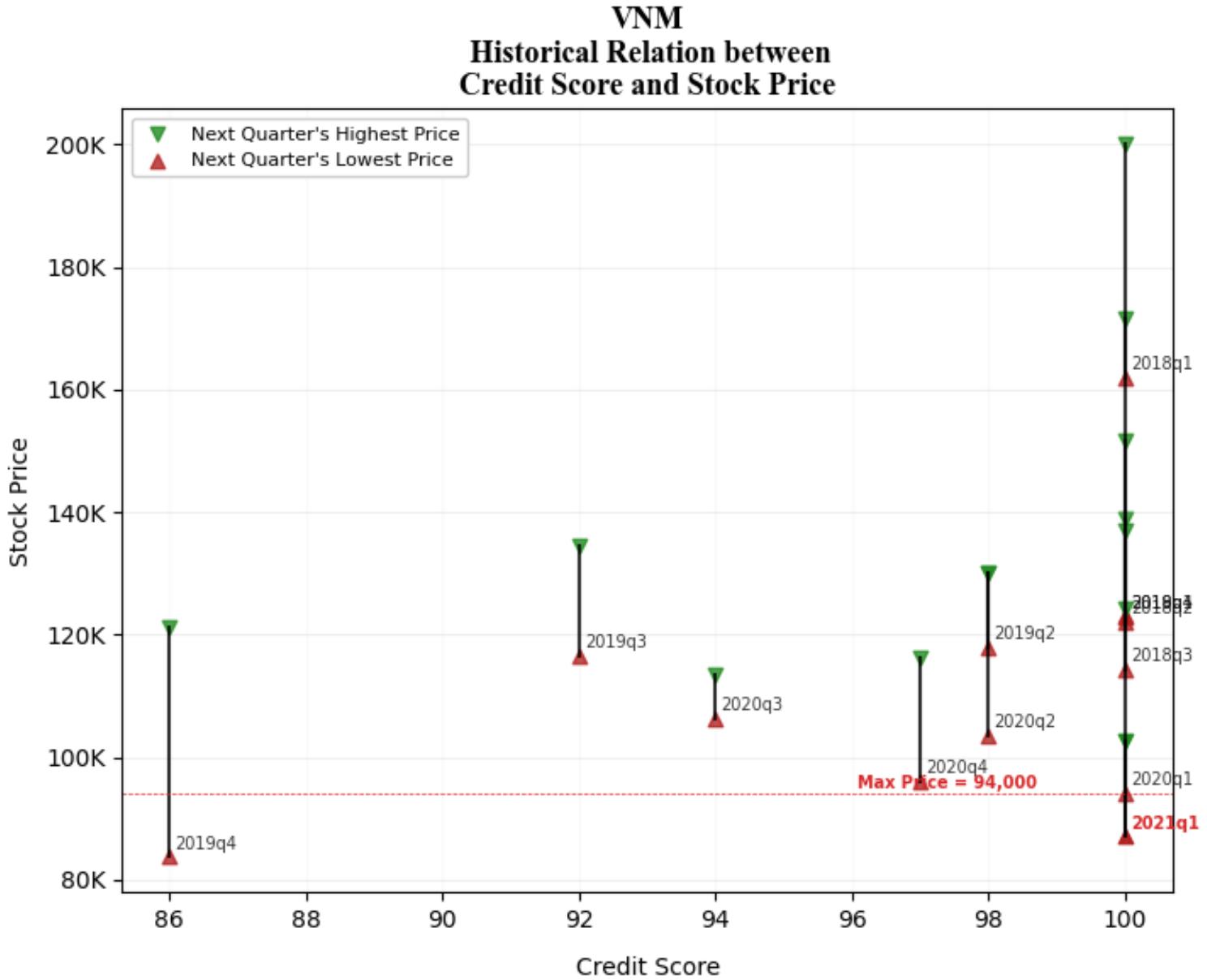
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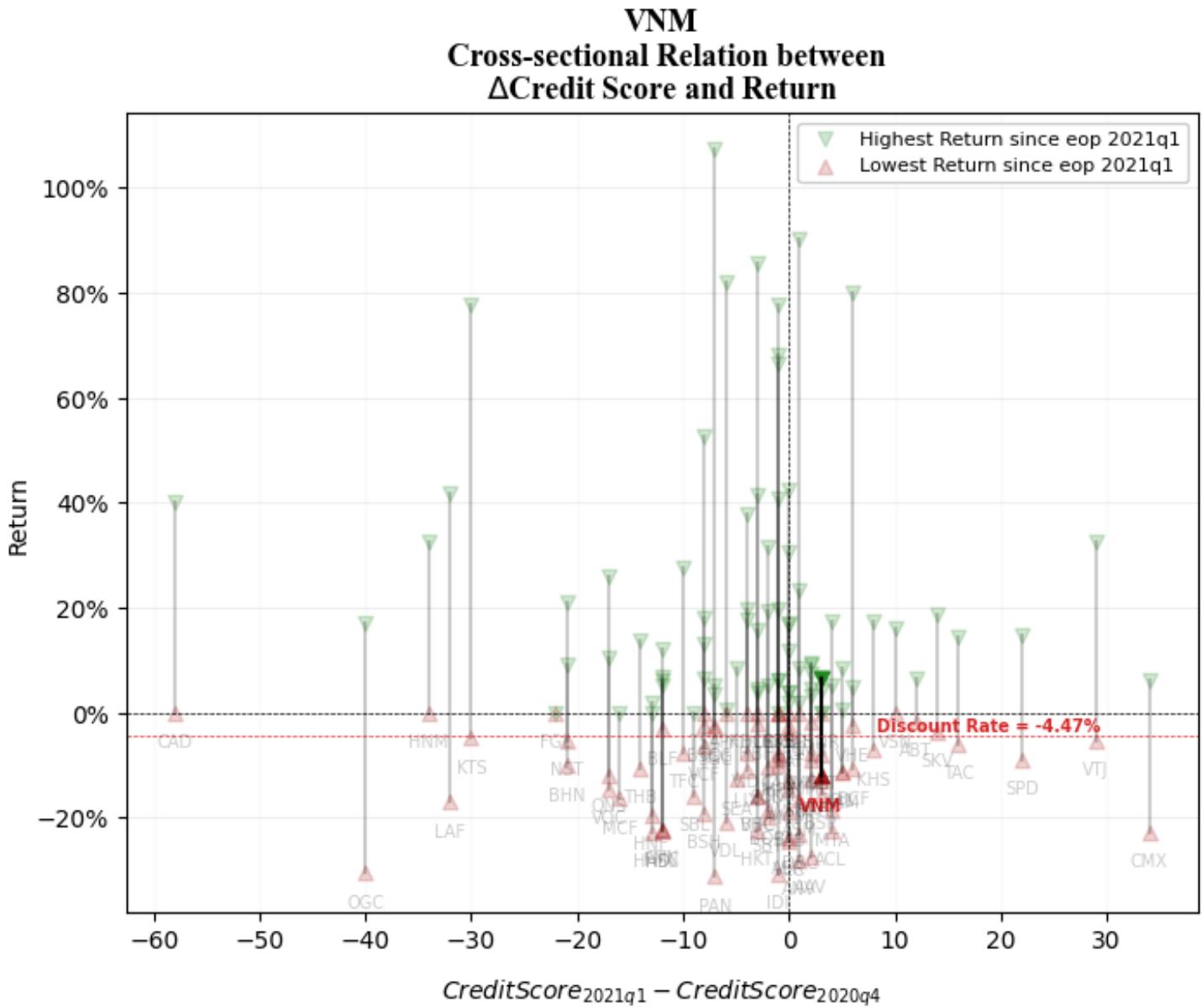
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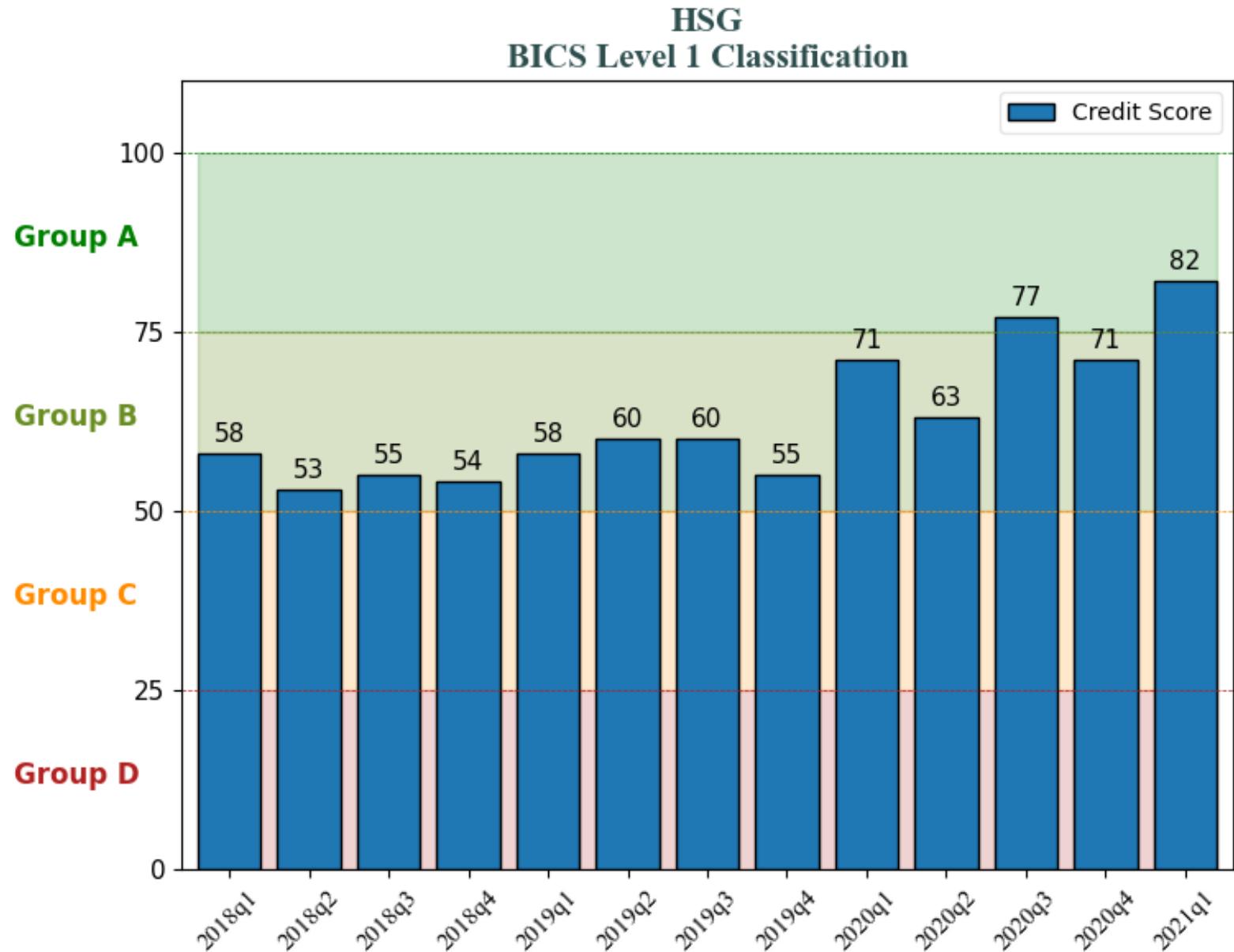


HOSE: HSG

HOA SEN GROUP

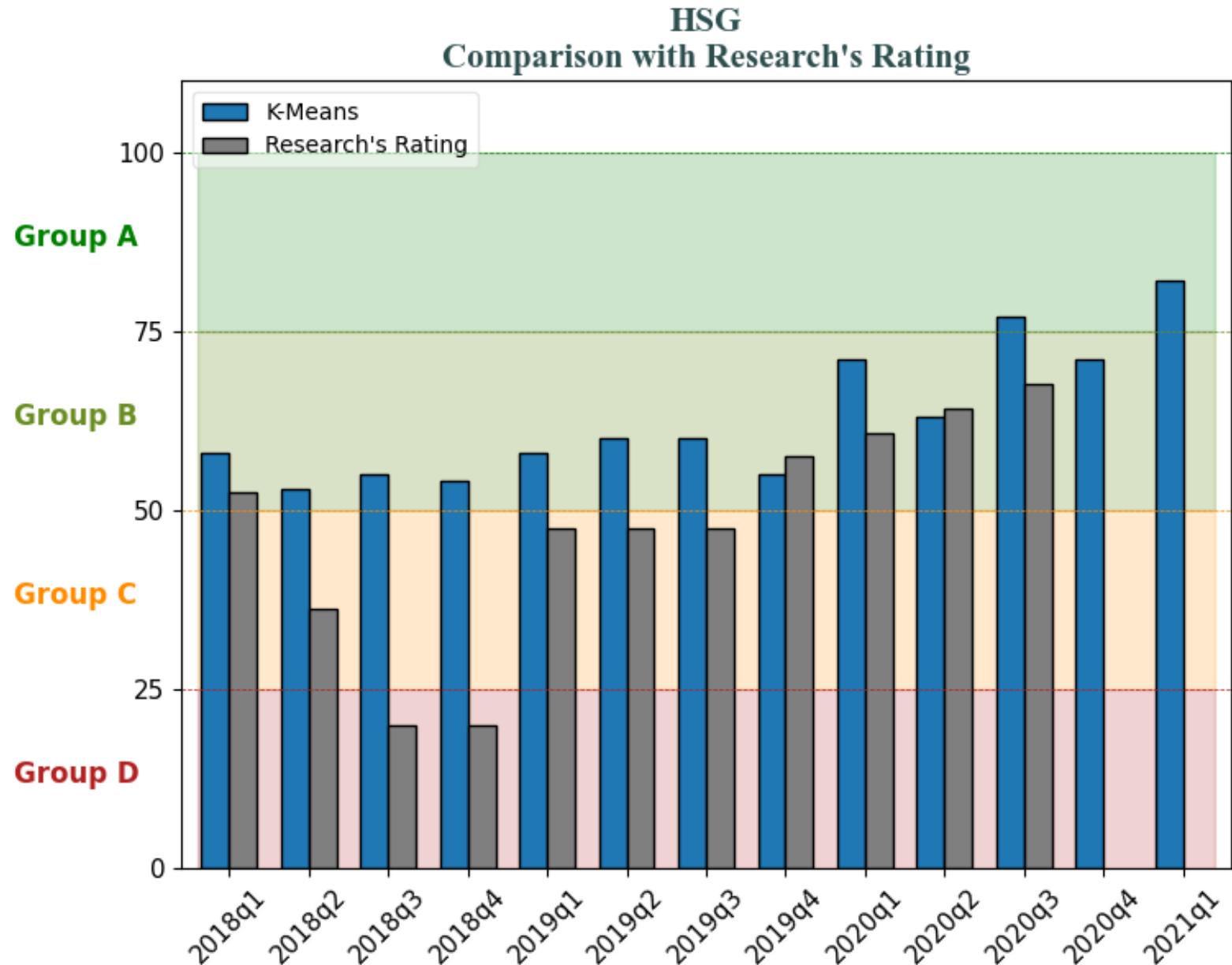
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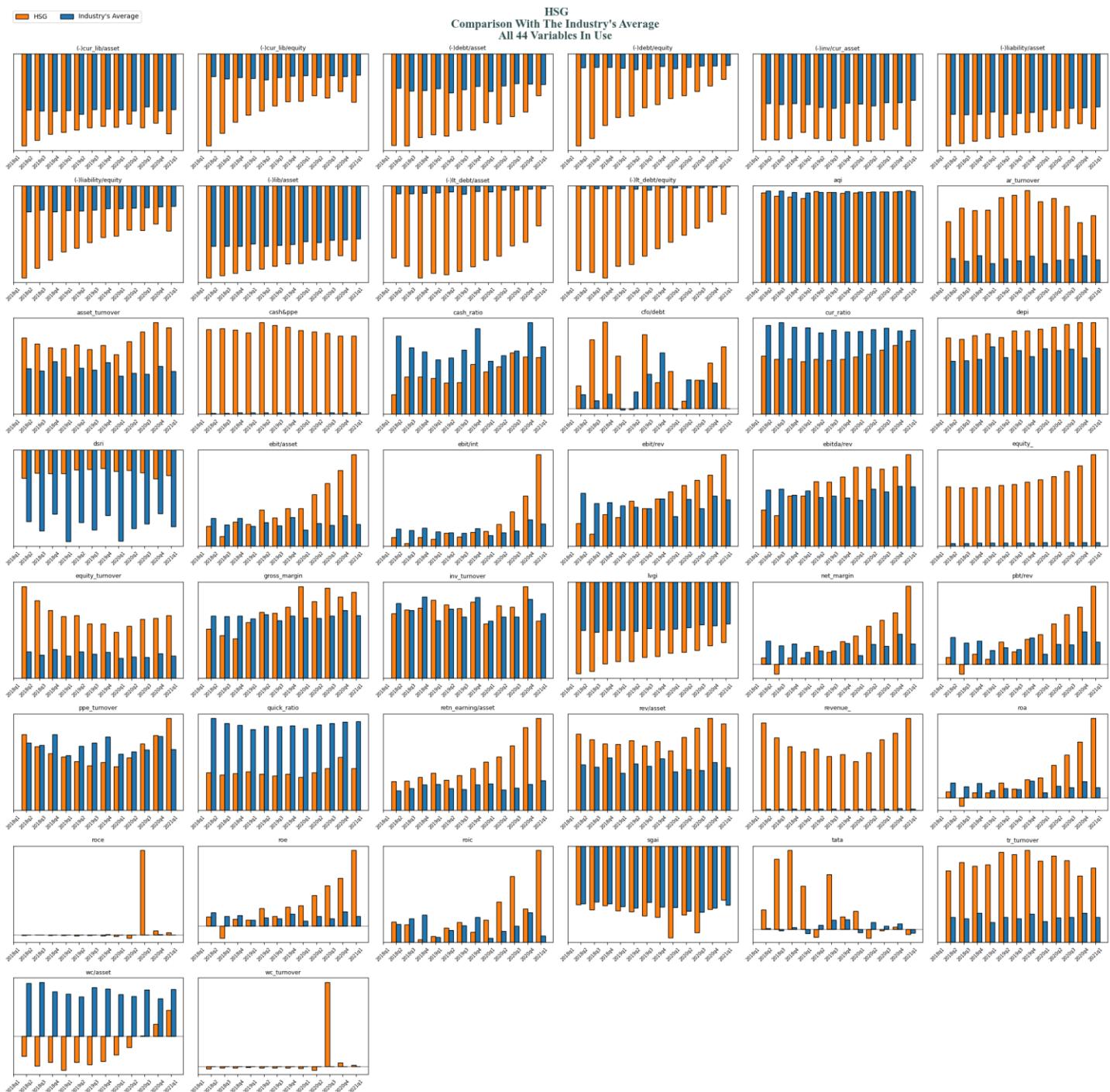
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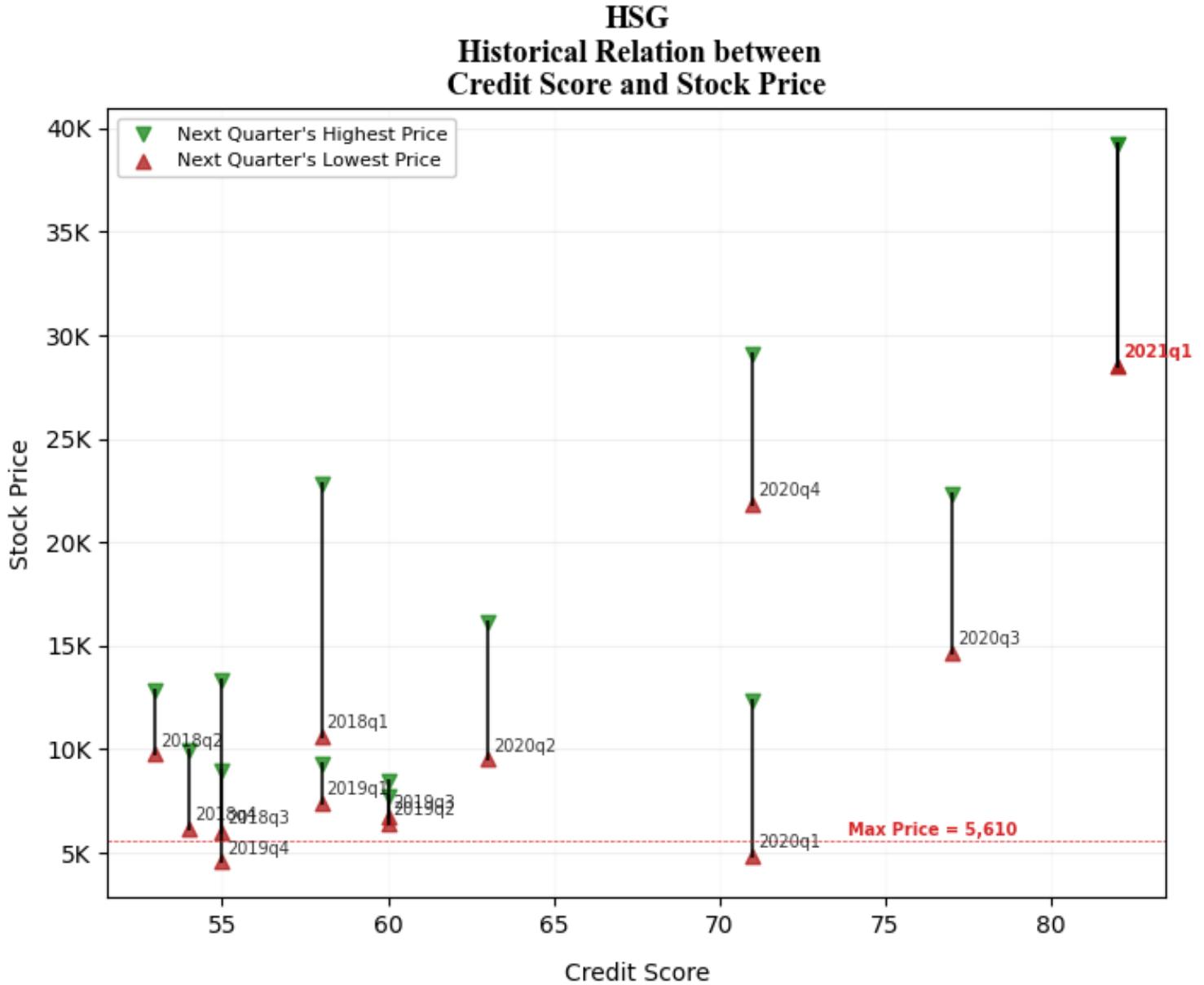
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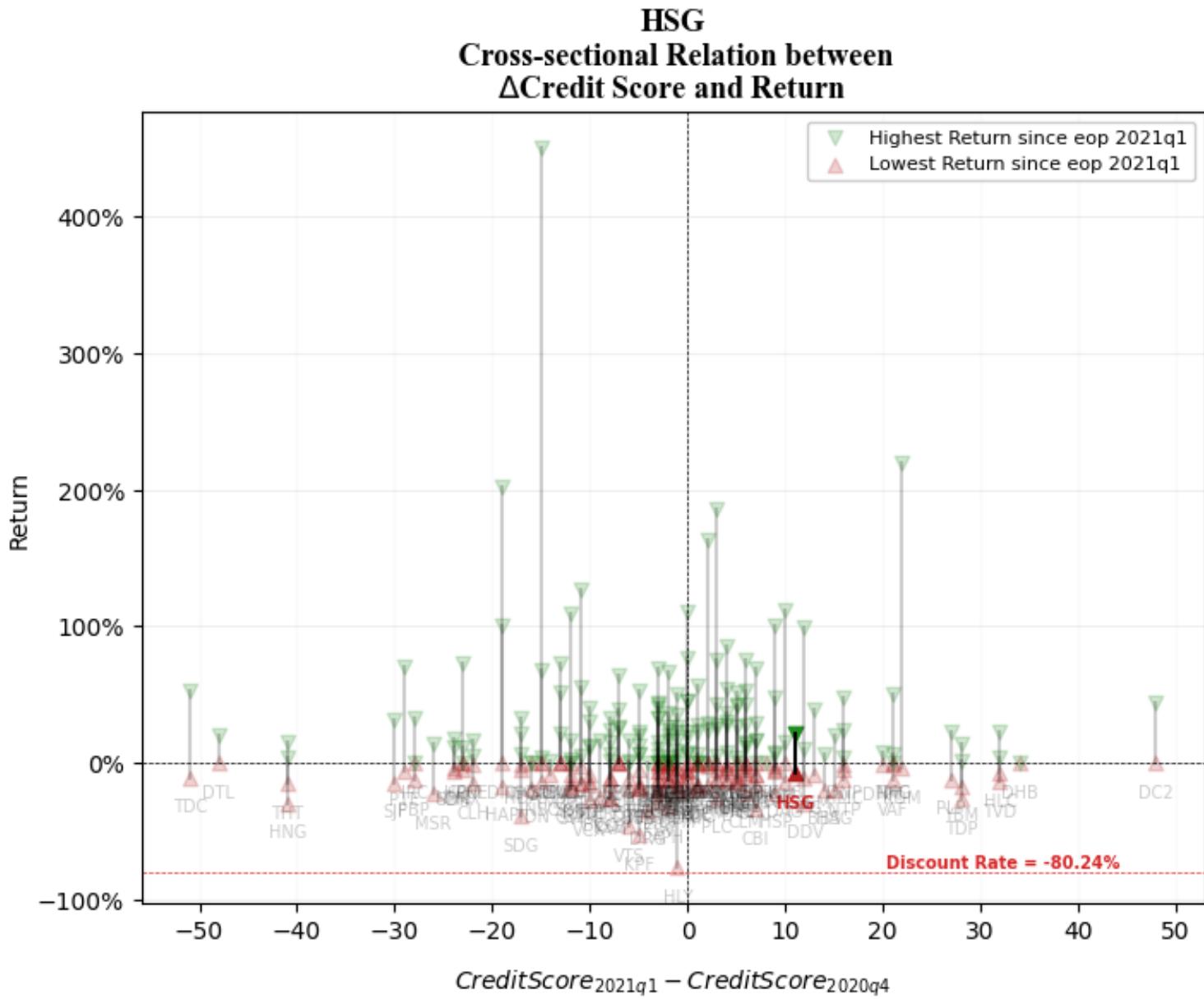
GENERAL INDUSTRIES

HOSE: HSG -
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GENERAL INDUSTRIES

HOSE: HSG -
HOA SEN GROUP





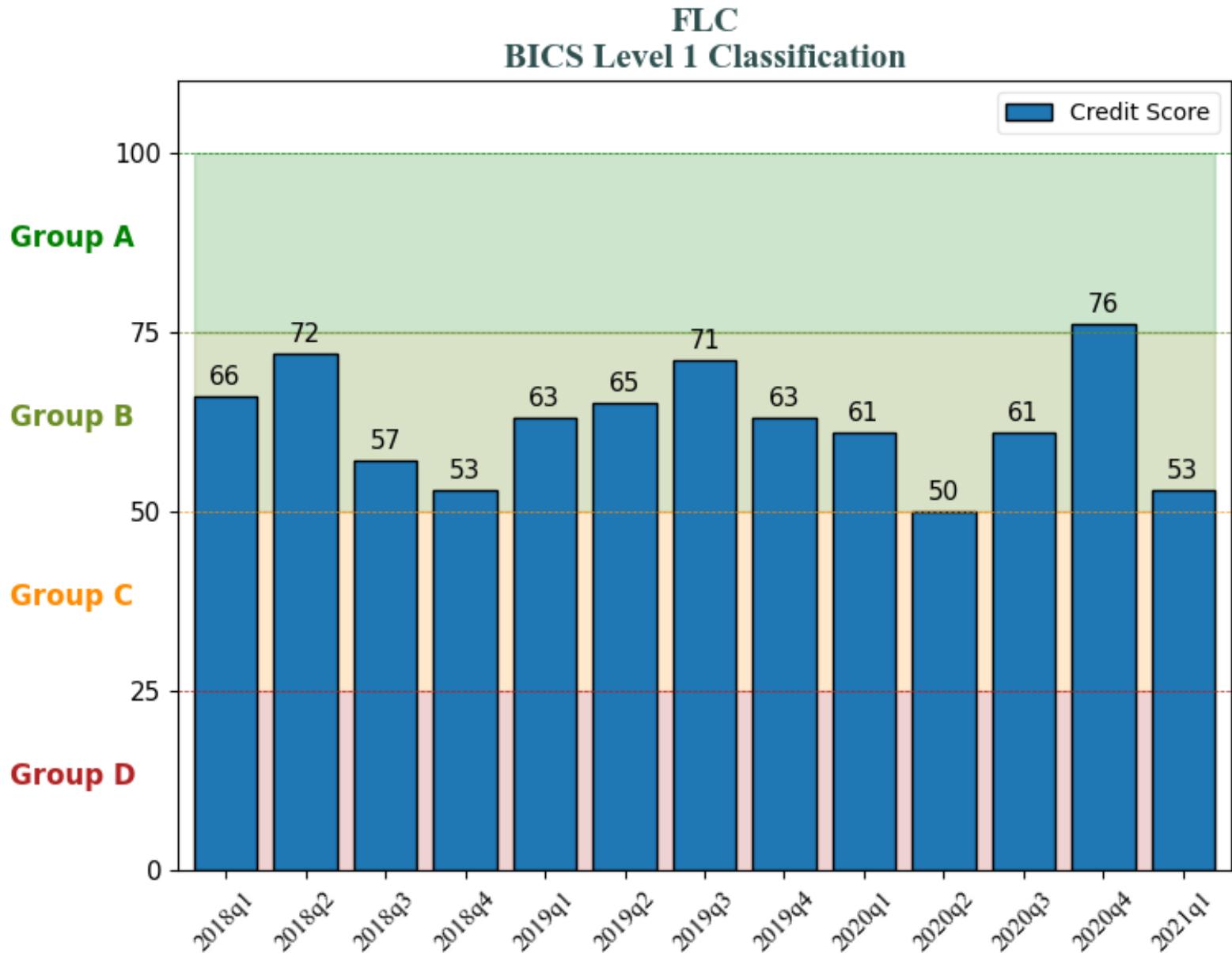
HOSE: FLC

FLC GROUP JSC



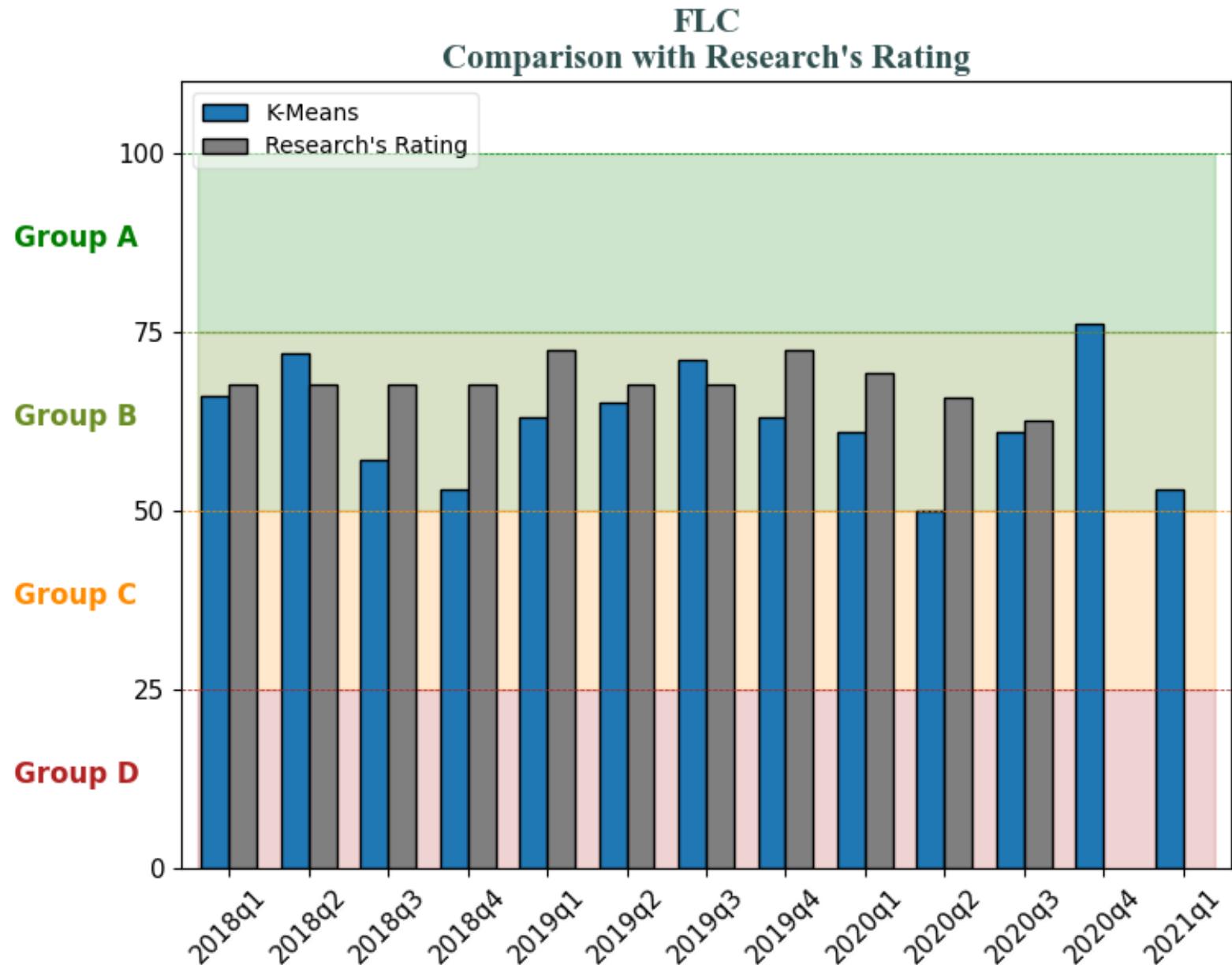
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FLC GROUP JSC



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HOSE: FLC -
FLC GROUP JSC



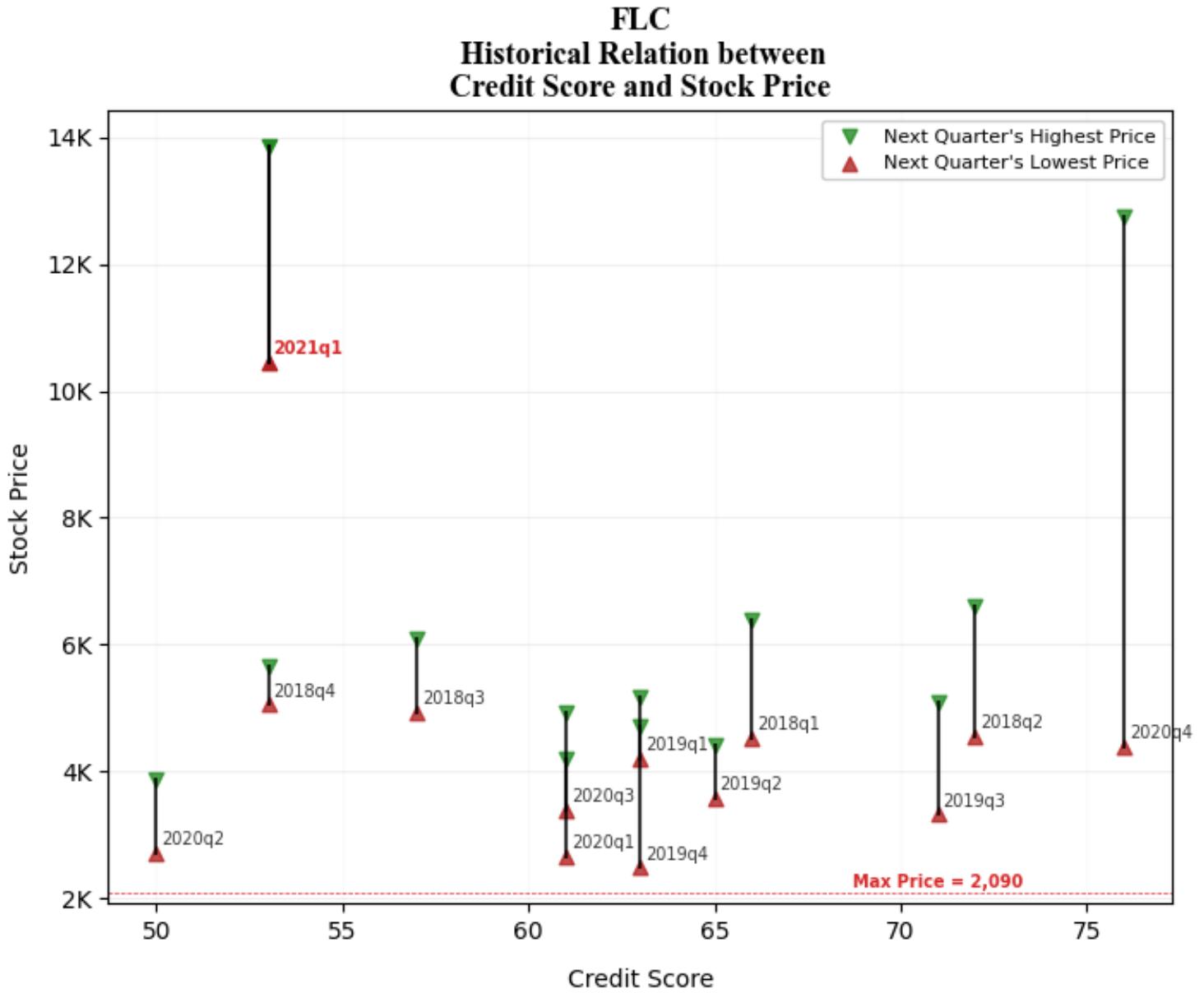
GENERAL INDUSTRIES

HOSE: FLC - FLC GROUP JSC



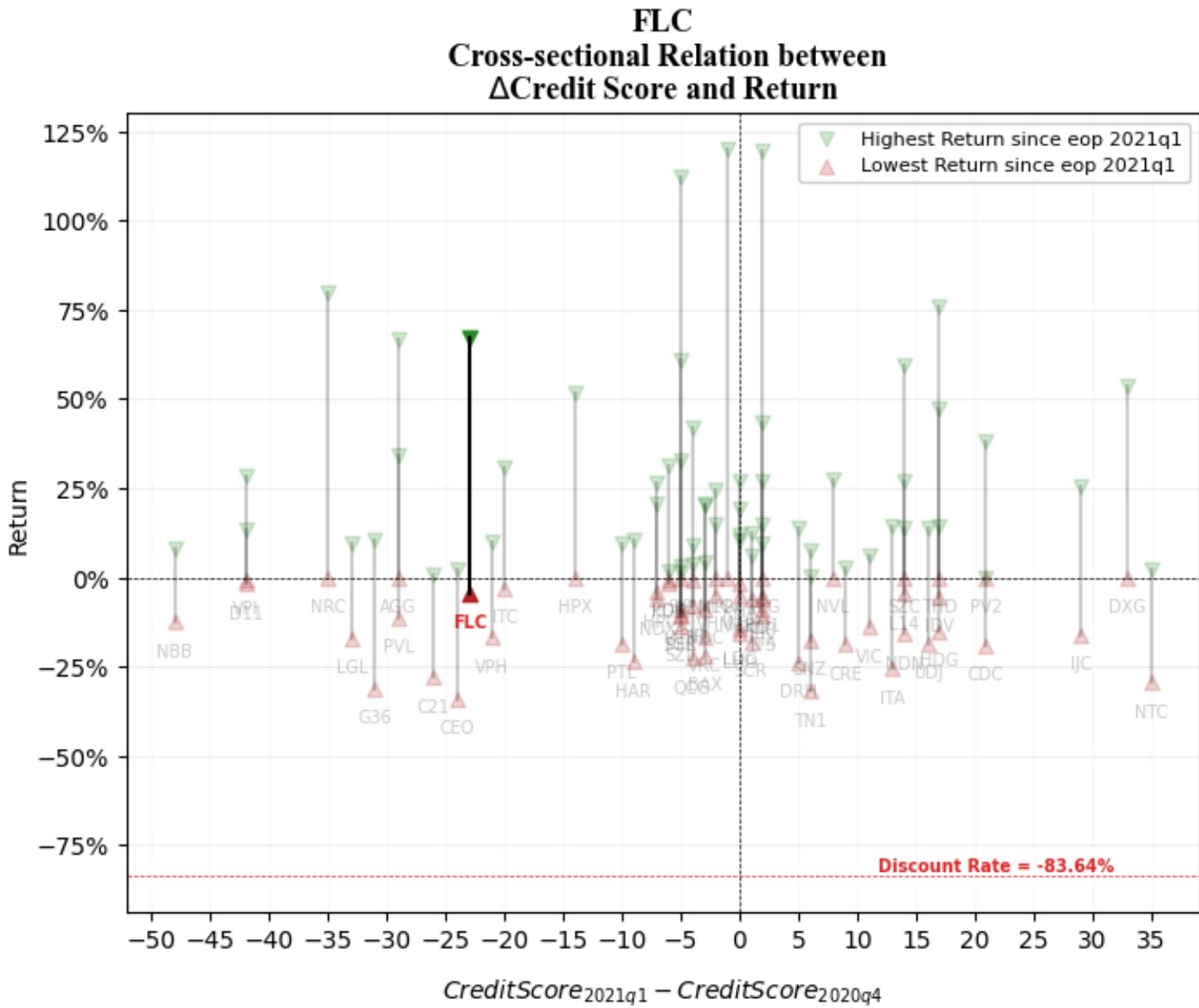
GENERAL INDUSTRIES

HOSE: FLC -
FLC GROUP JSC



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HOSE: FLC -
FLC GROUP JSC





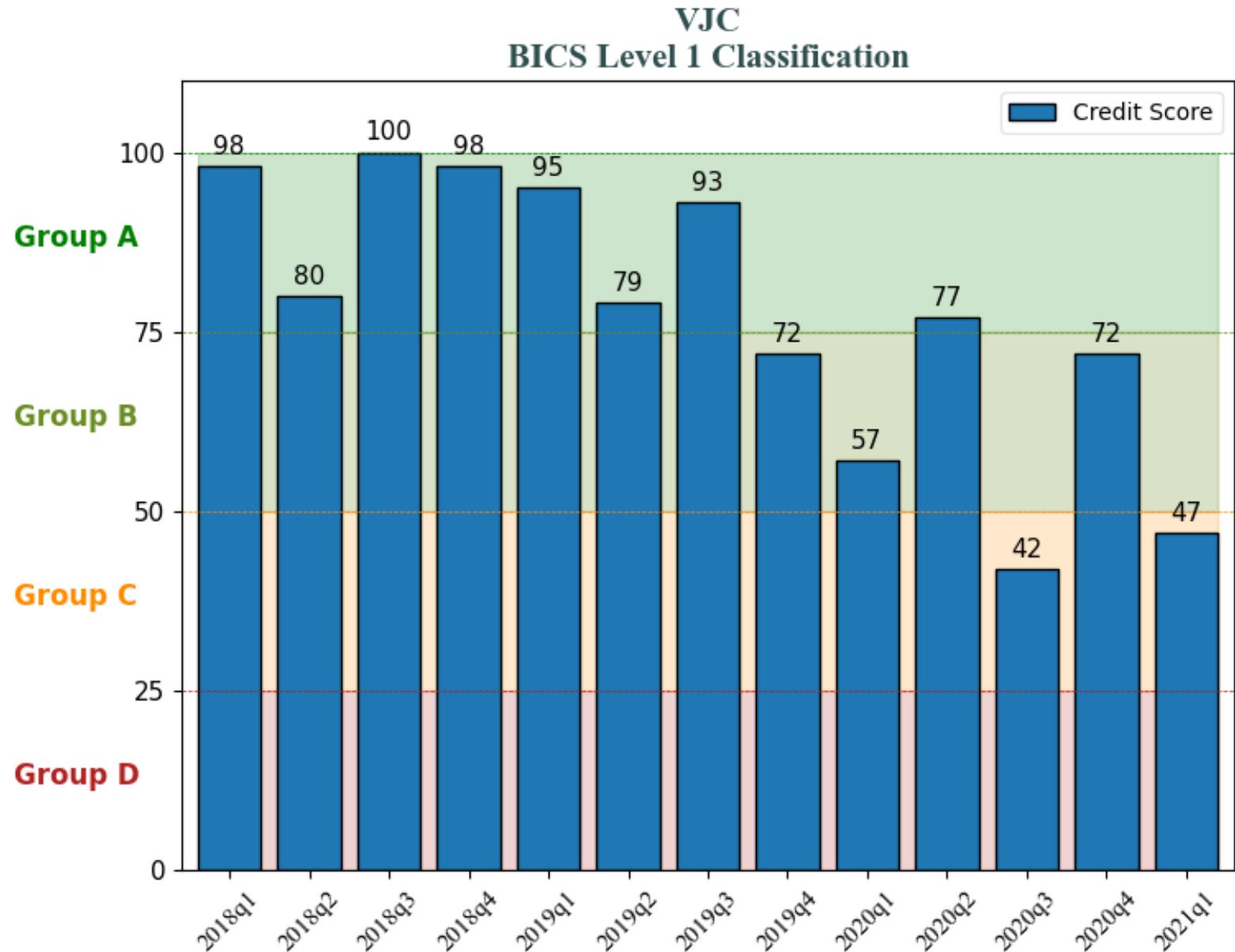
HOSE: VJC

VIETJET AVIATION JOINT STOCK COMPANY



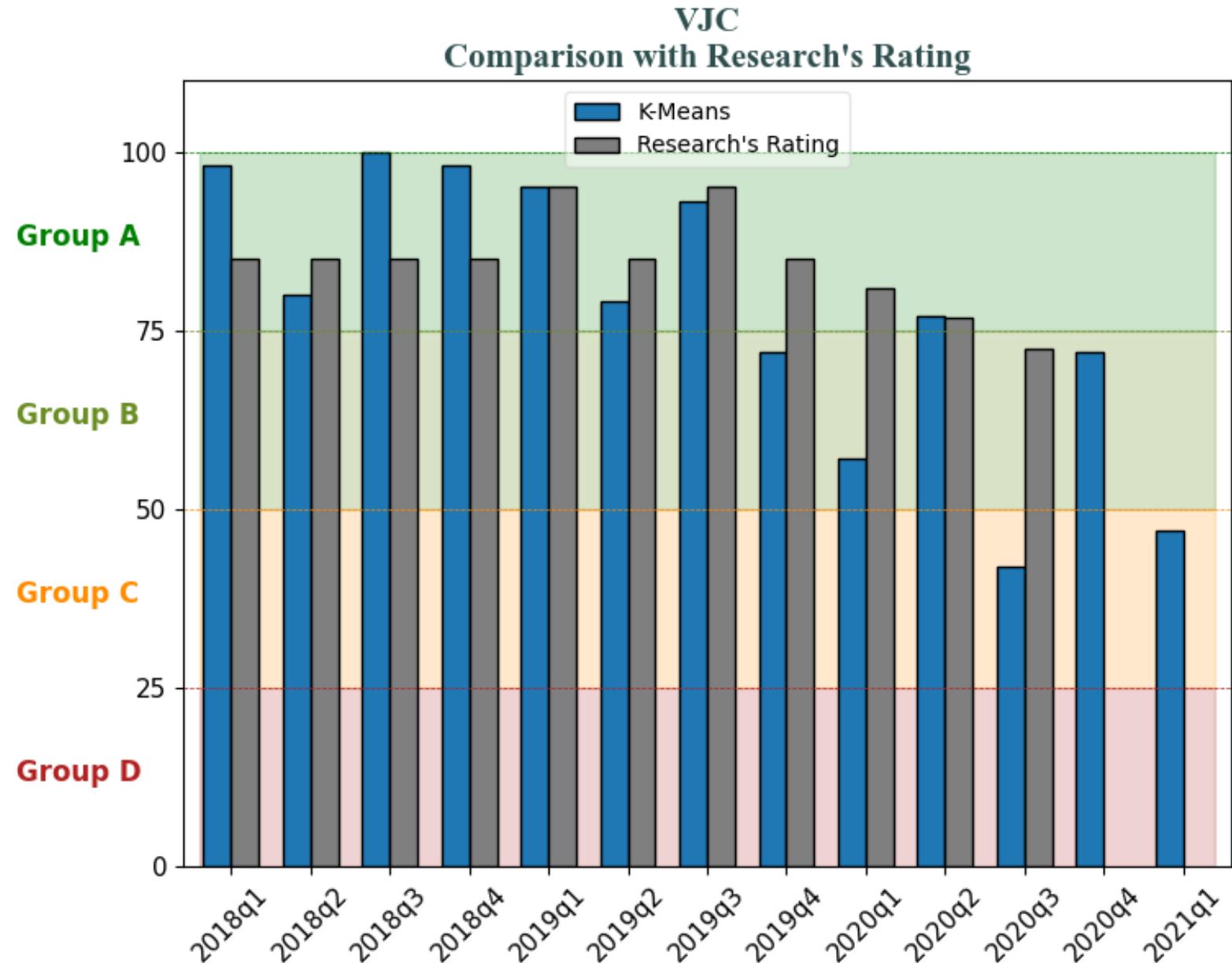
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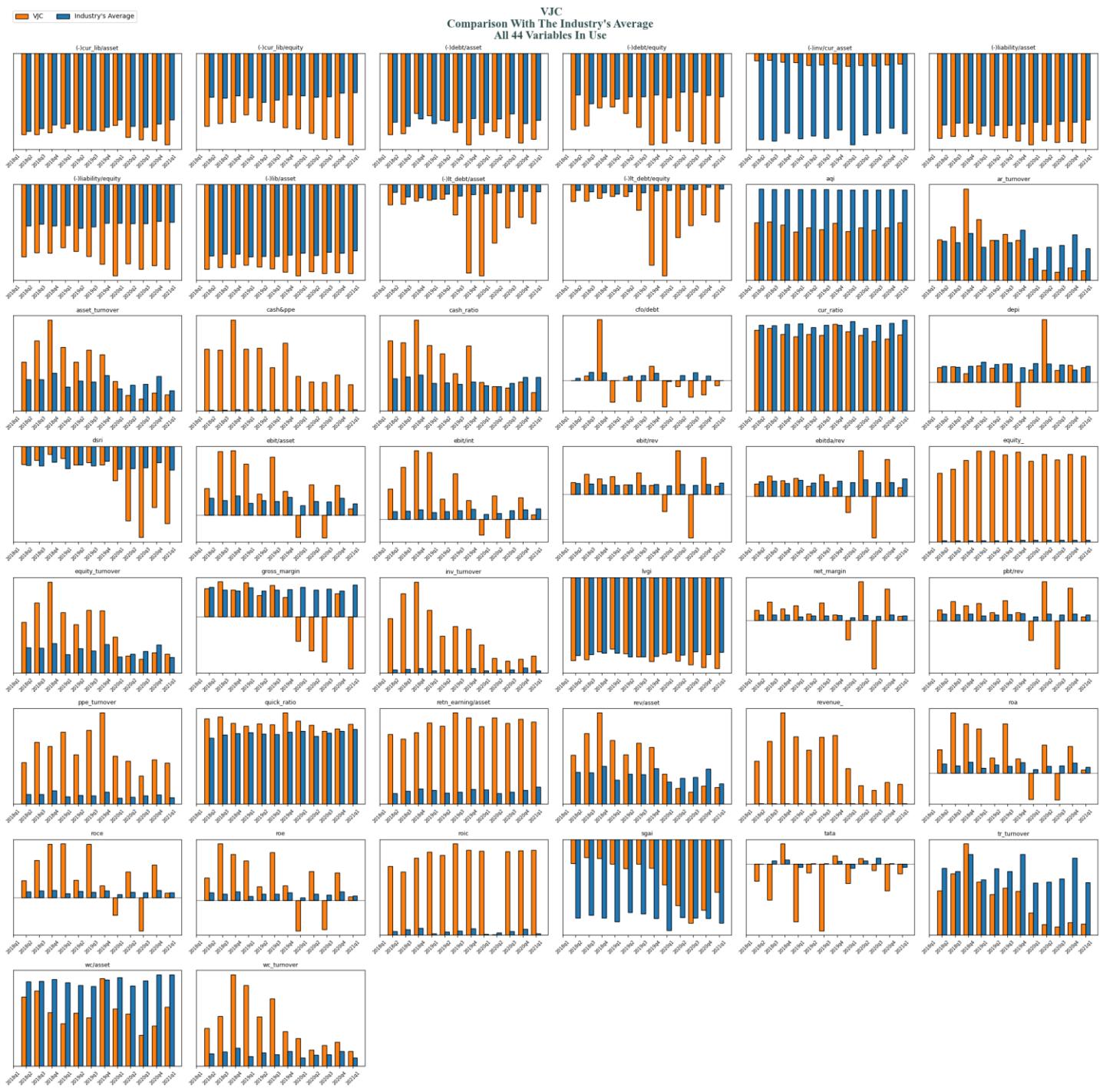
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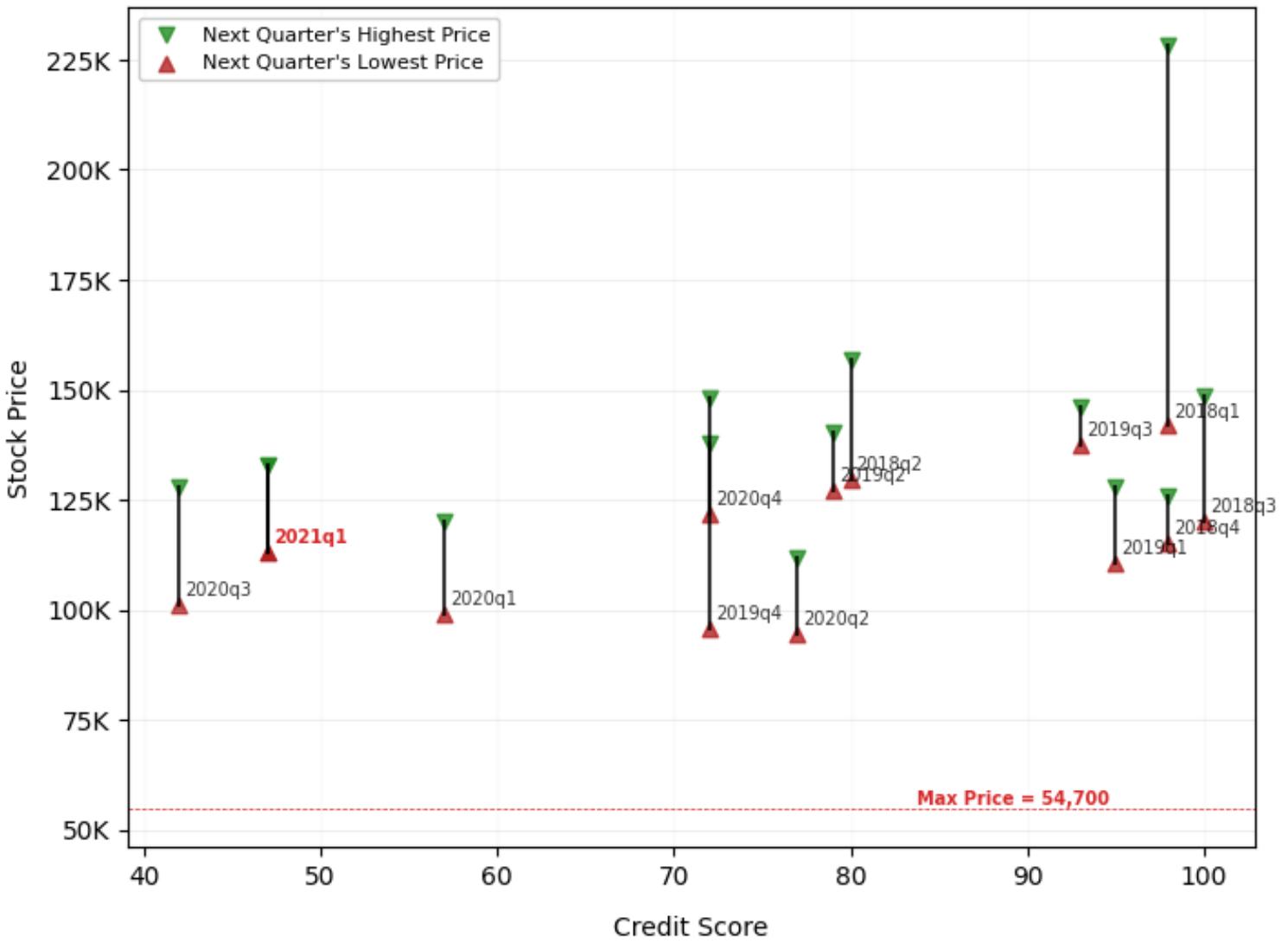


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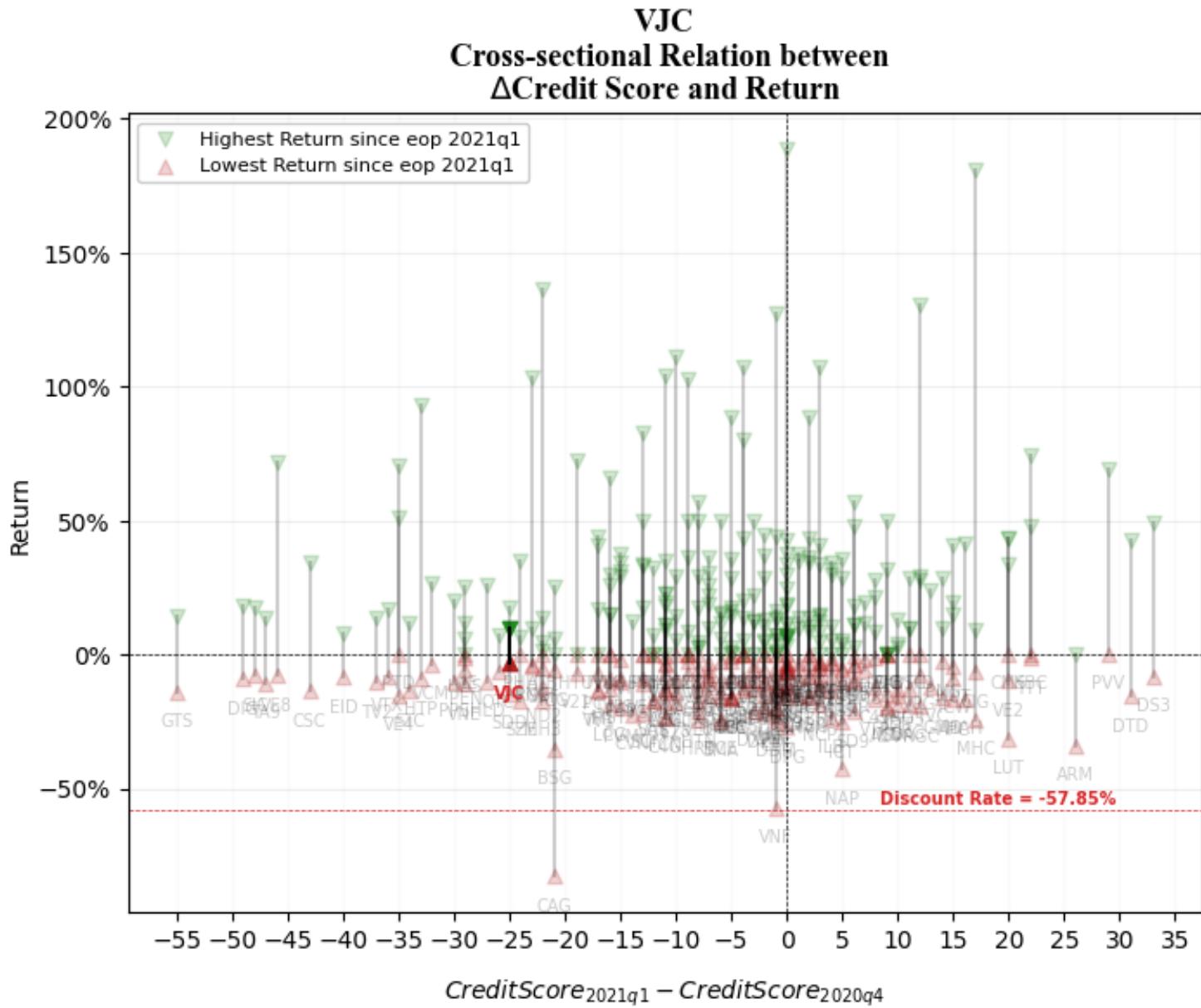
VJC

Historical Relation between Credit Score and Stock Price



GENERAL INDUSTRIES

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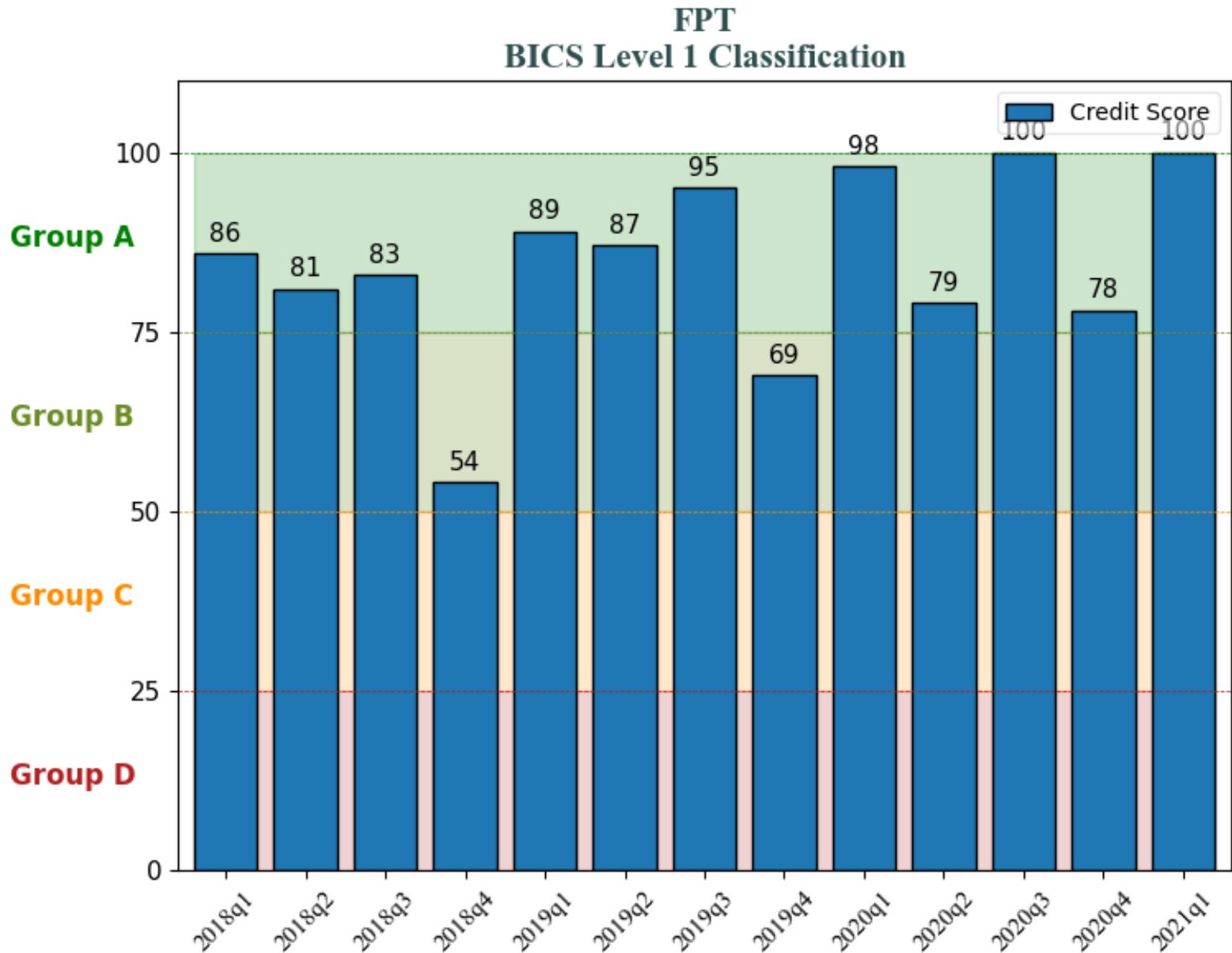
HOSE: FPT

FPT CORPORATION



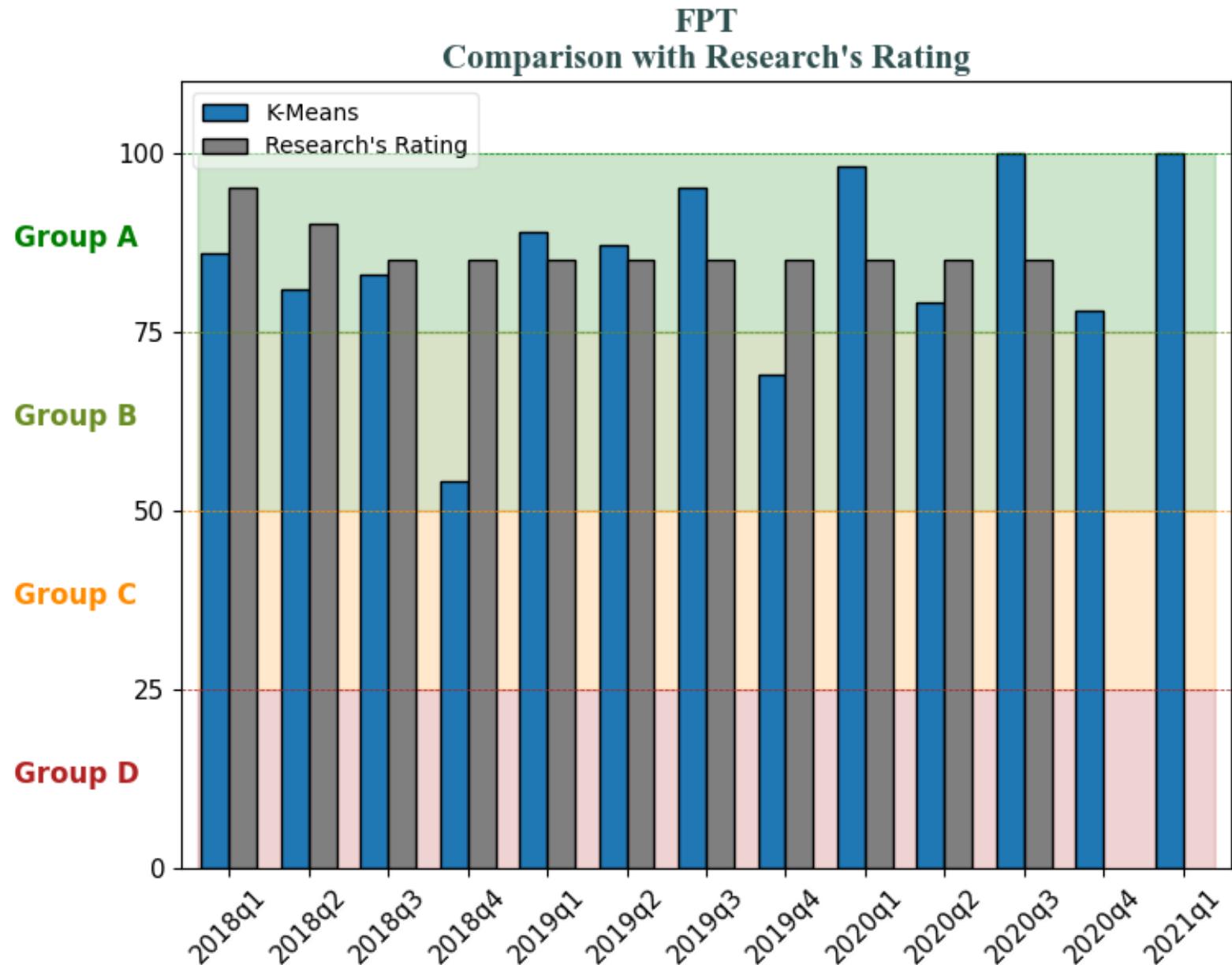
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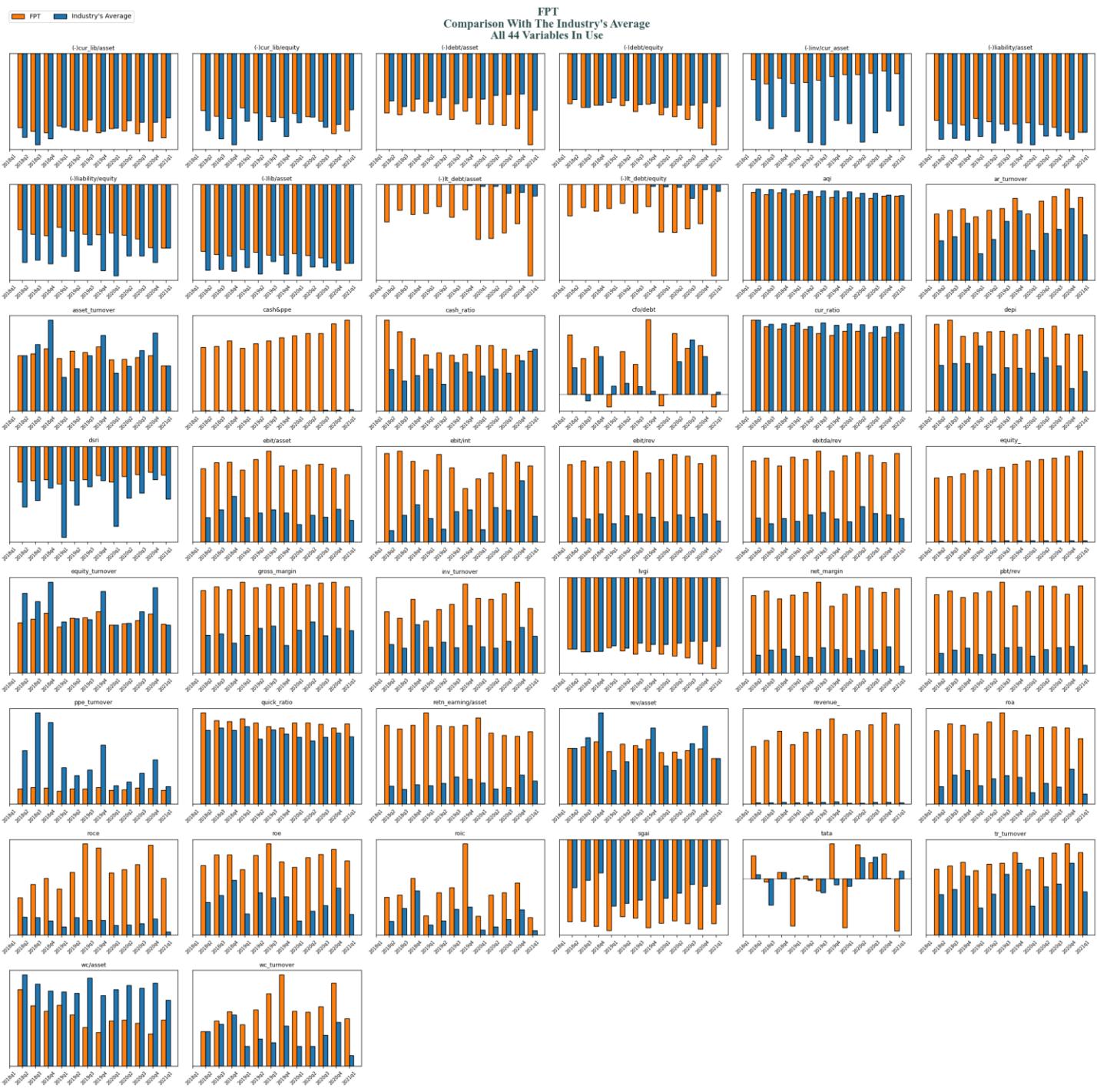
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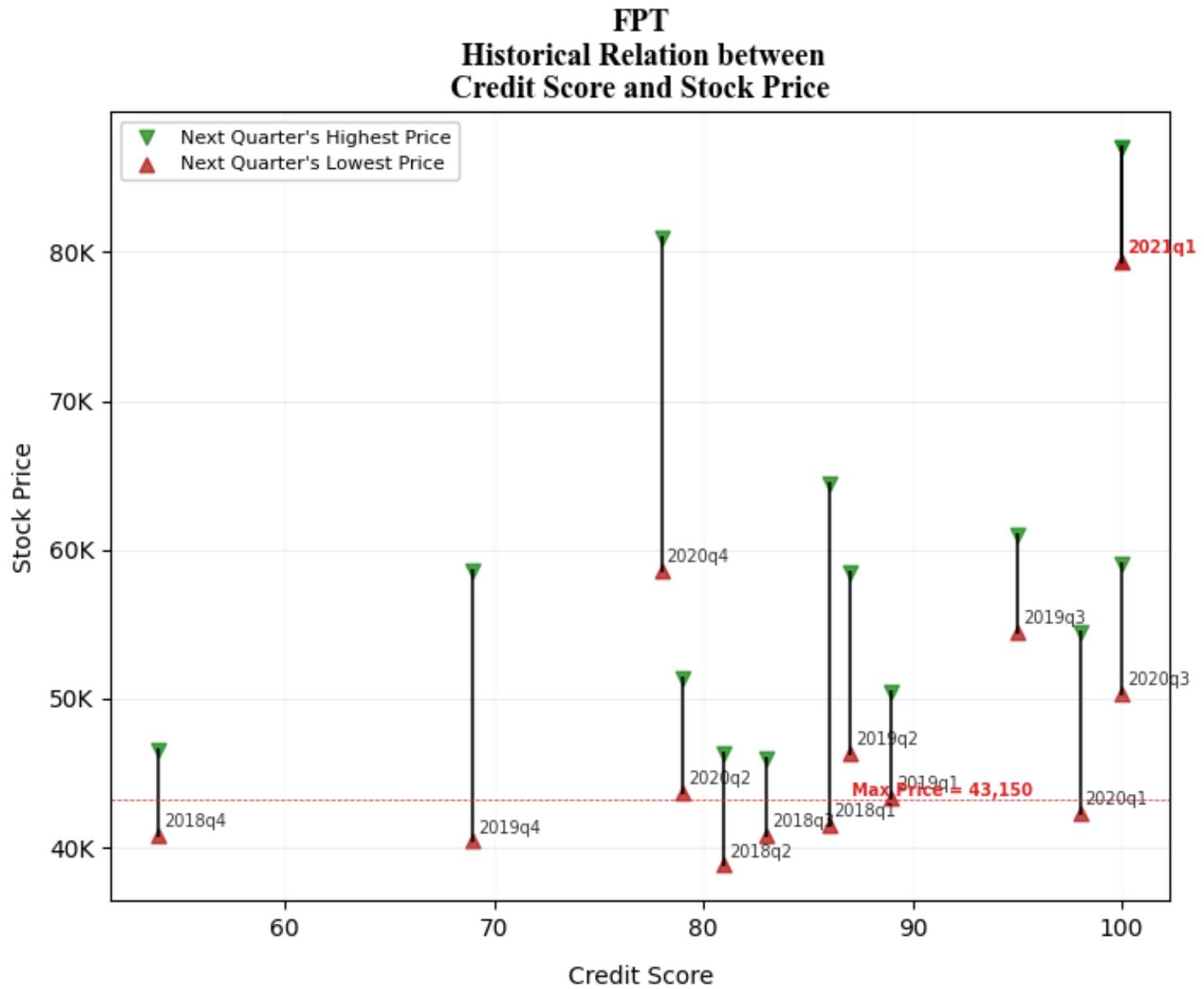
GENERAL INDUSTRIES

HOSE: FPT - FPT CORPORATION



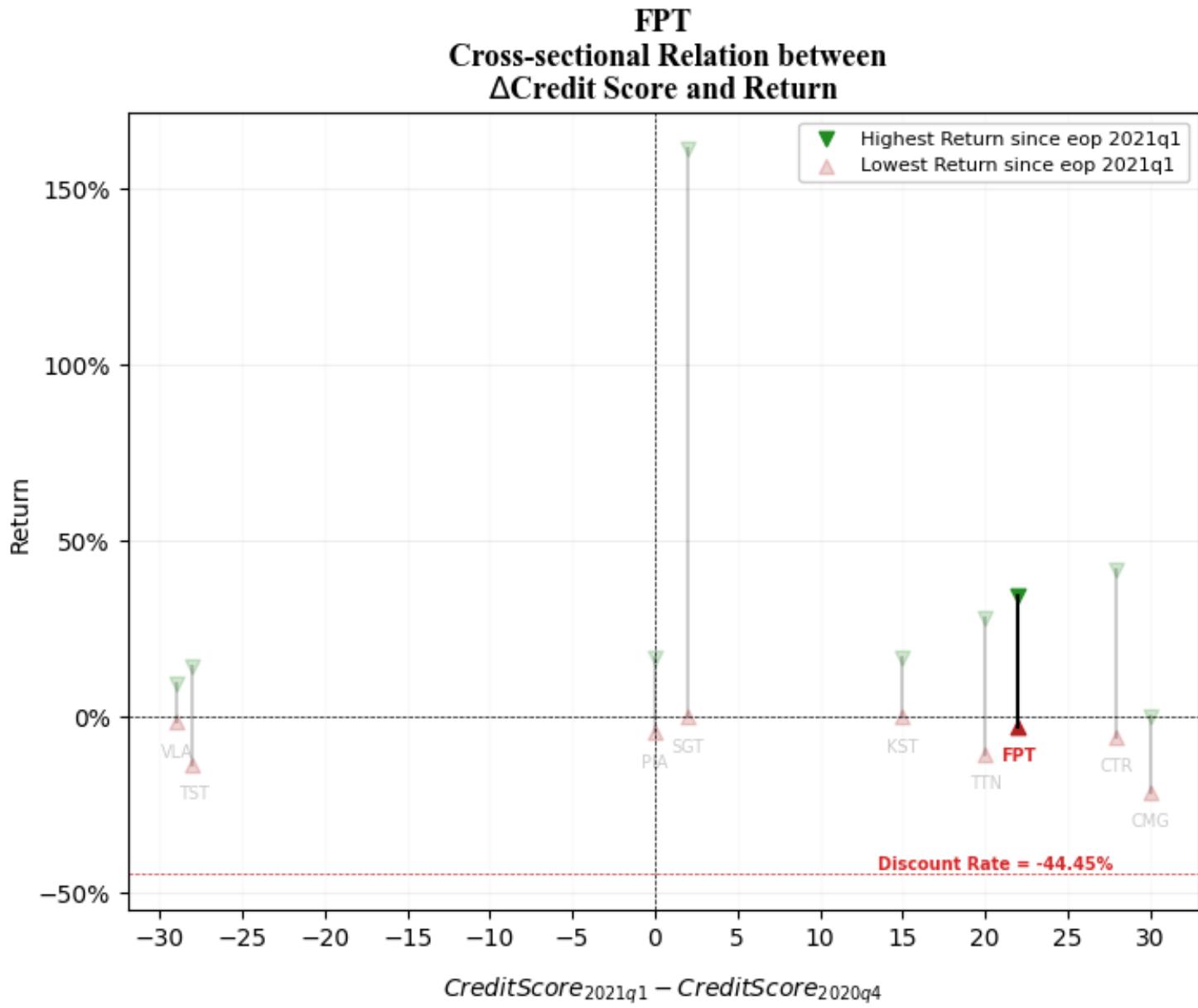
GENERAL INDUSTRIES

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GENERAL INDUSTRIES

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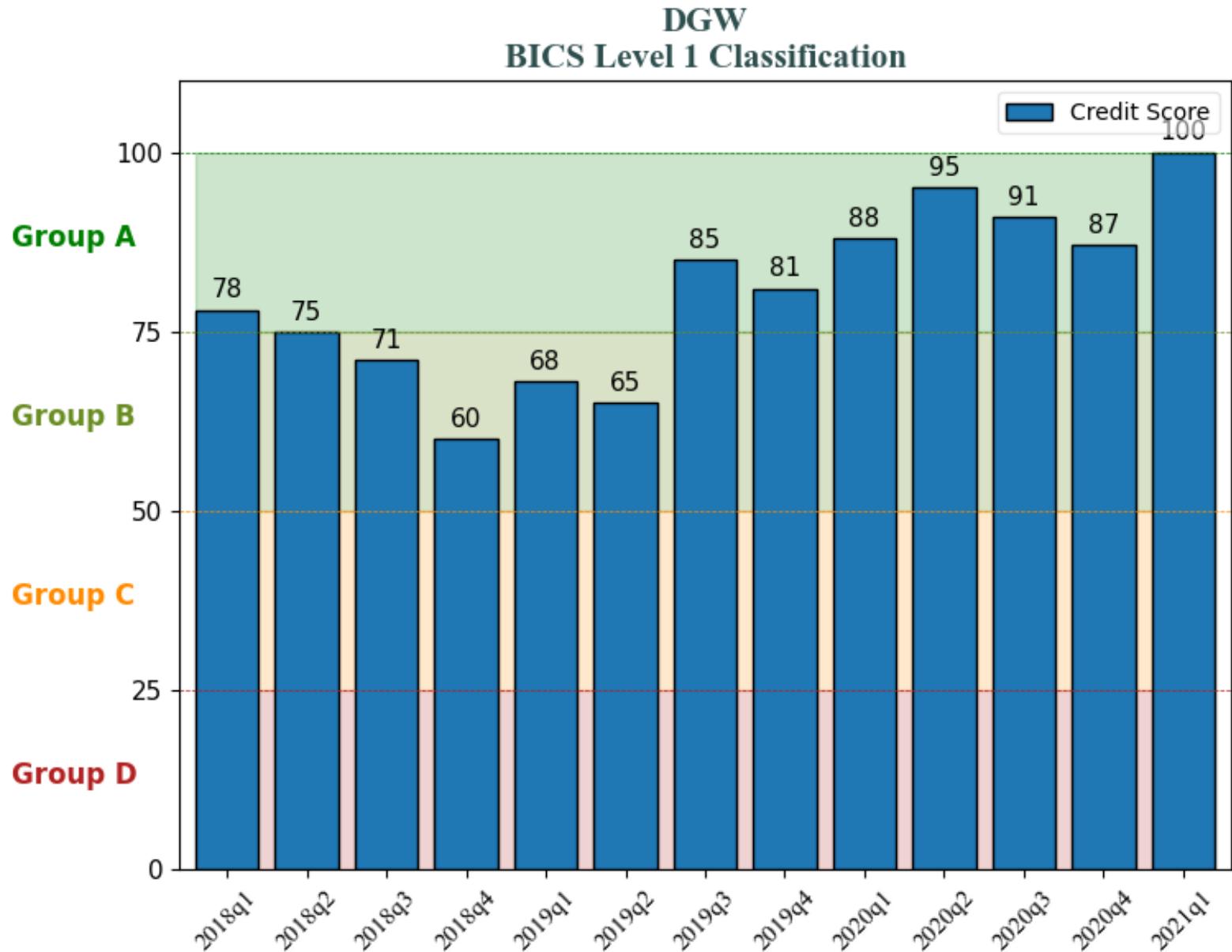


HOSE: DGW

DIGIWORLD CORPORATION

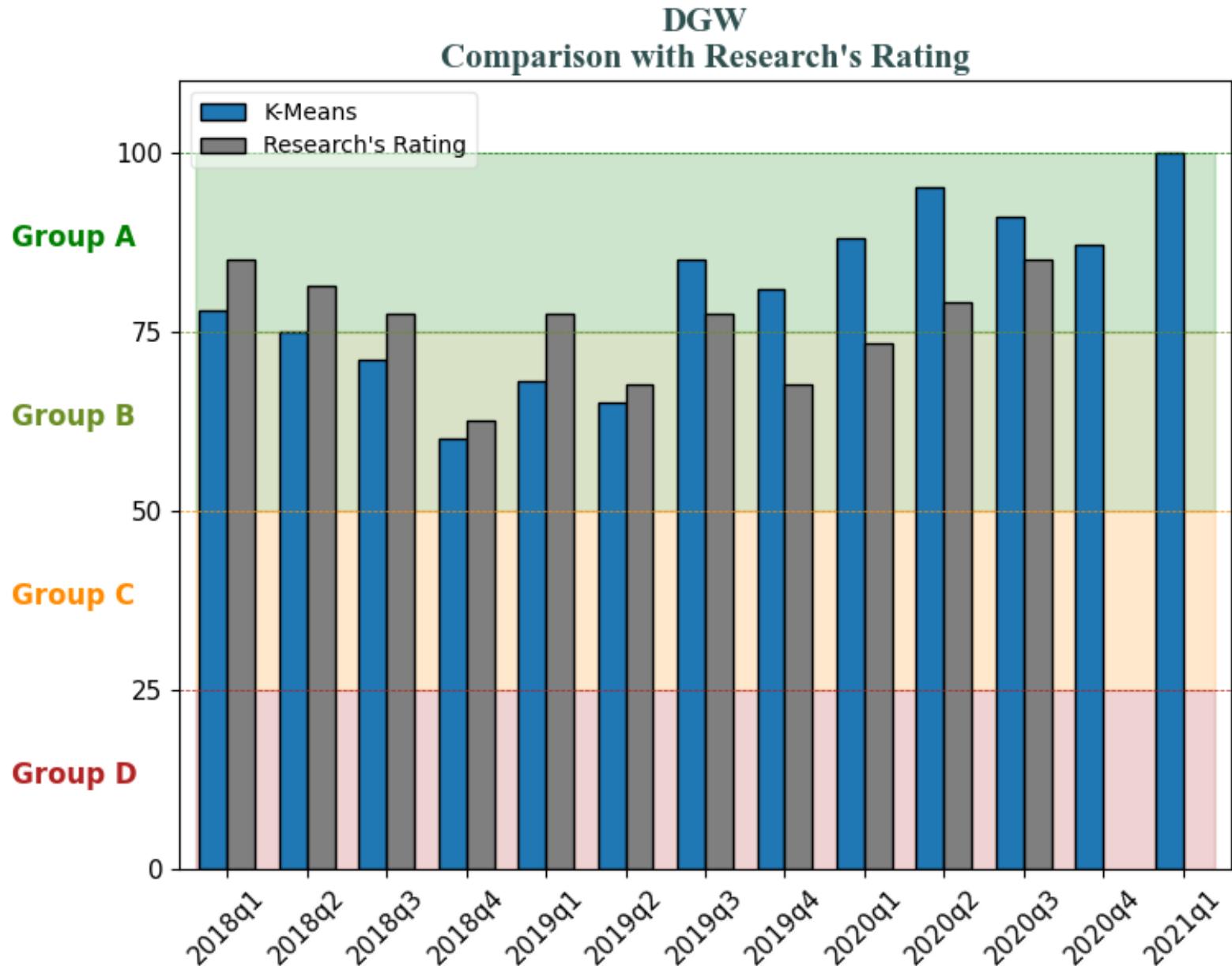
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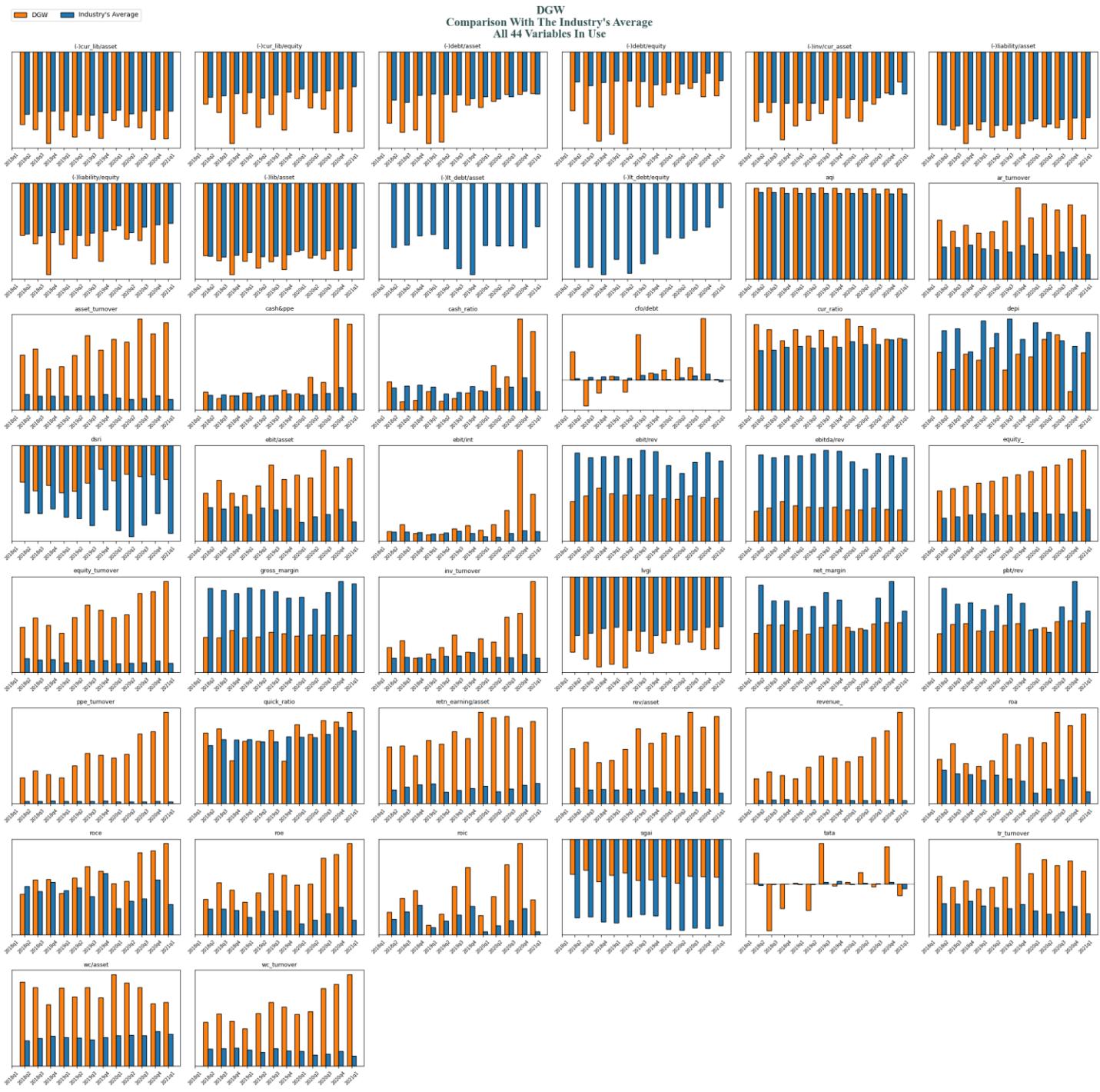
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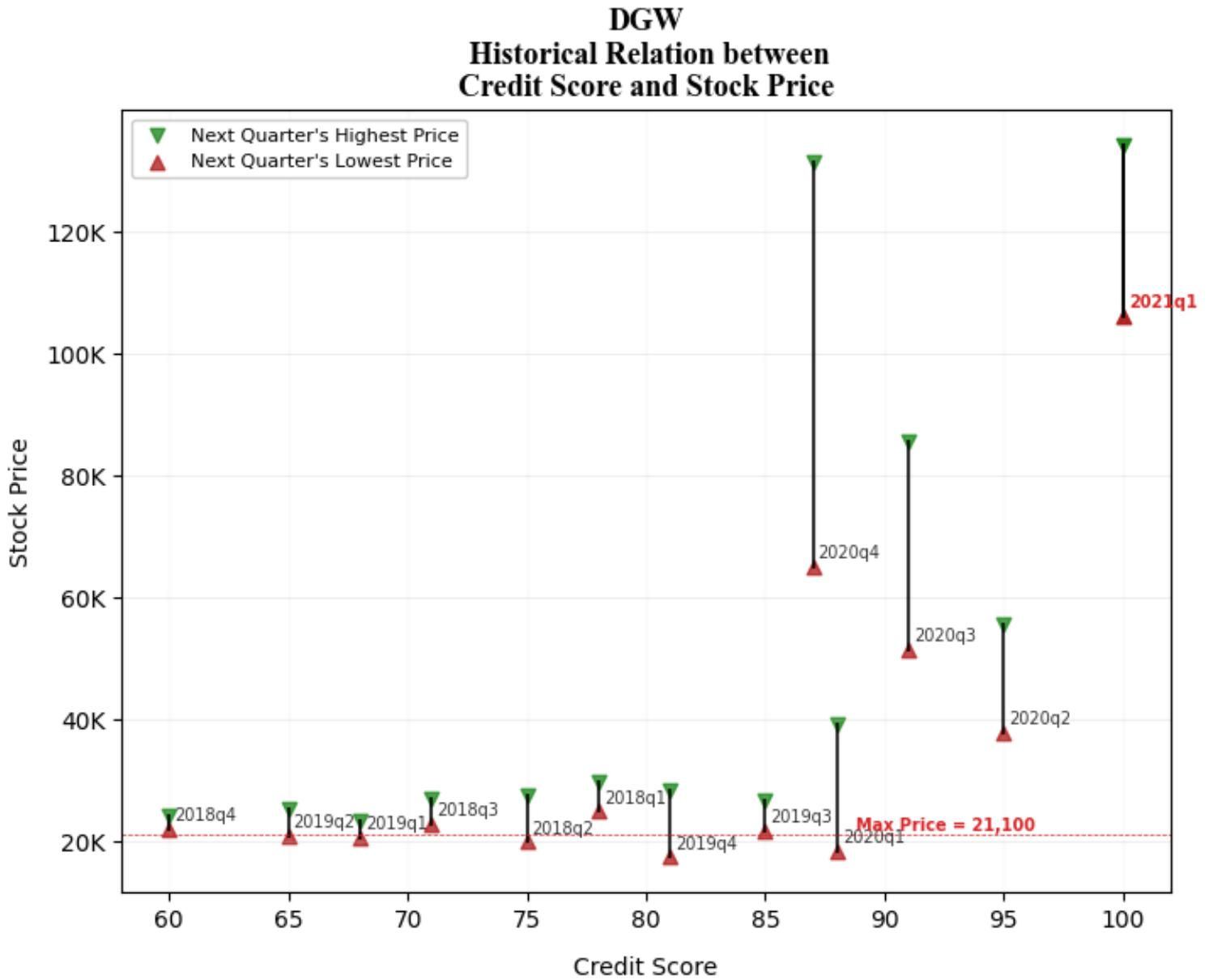
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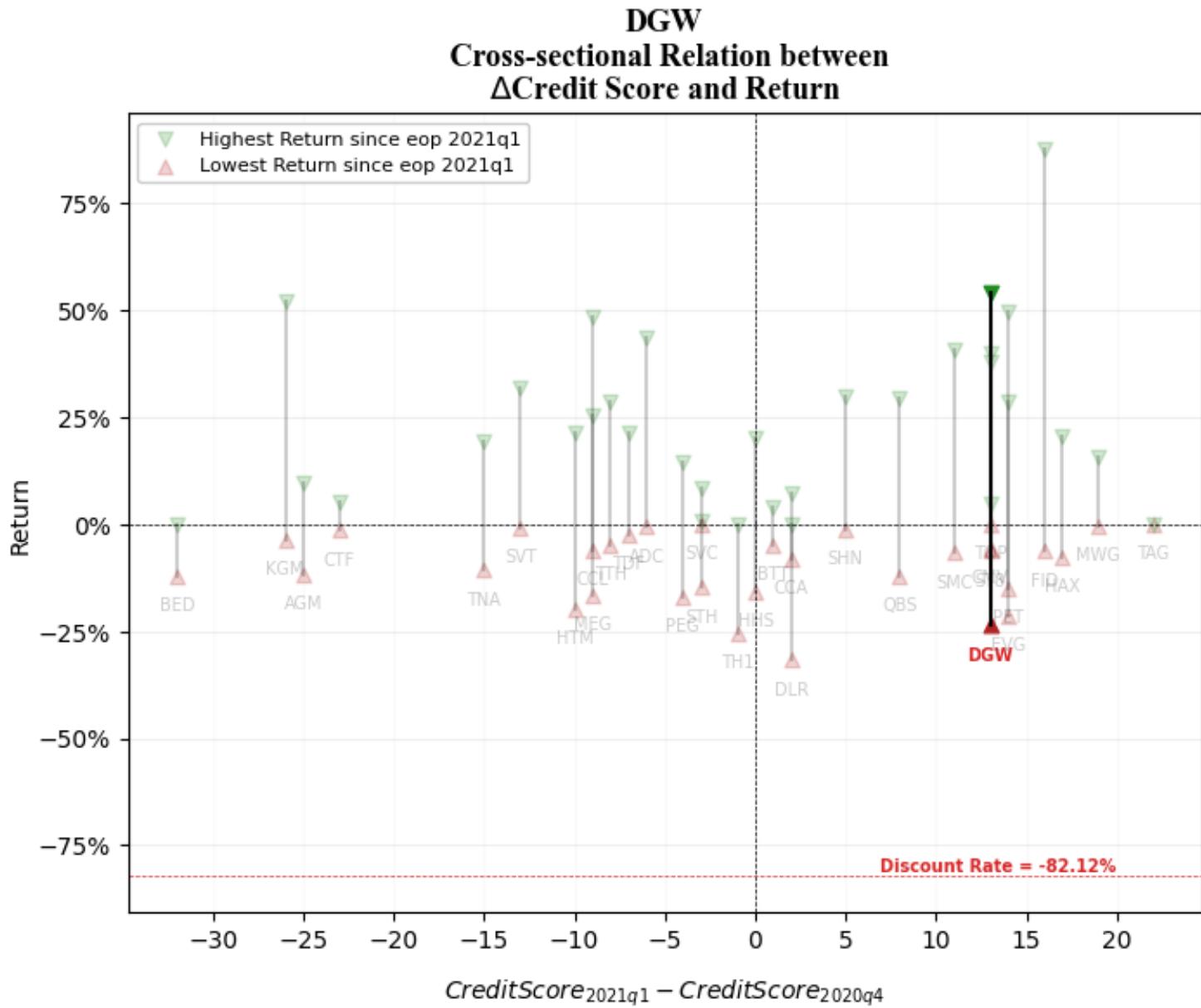
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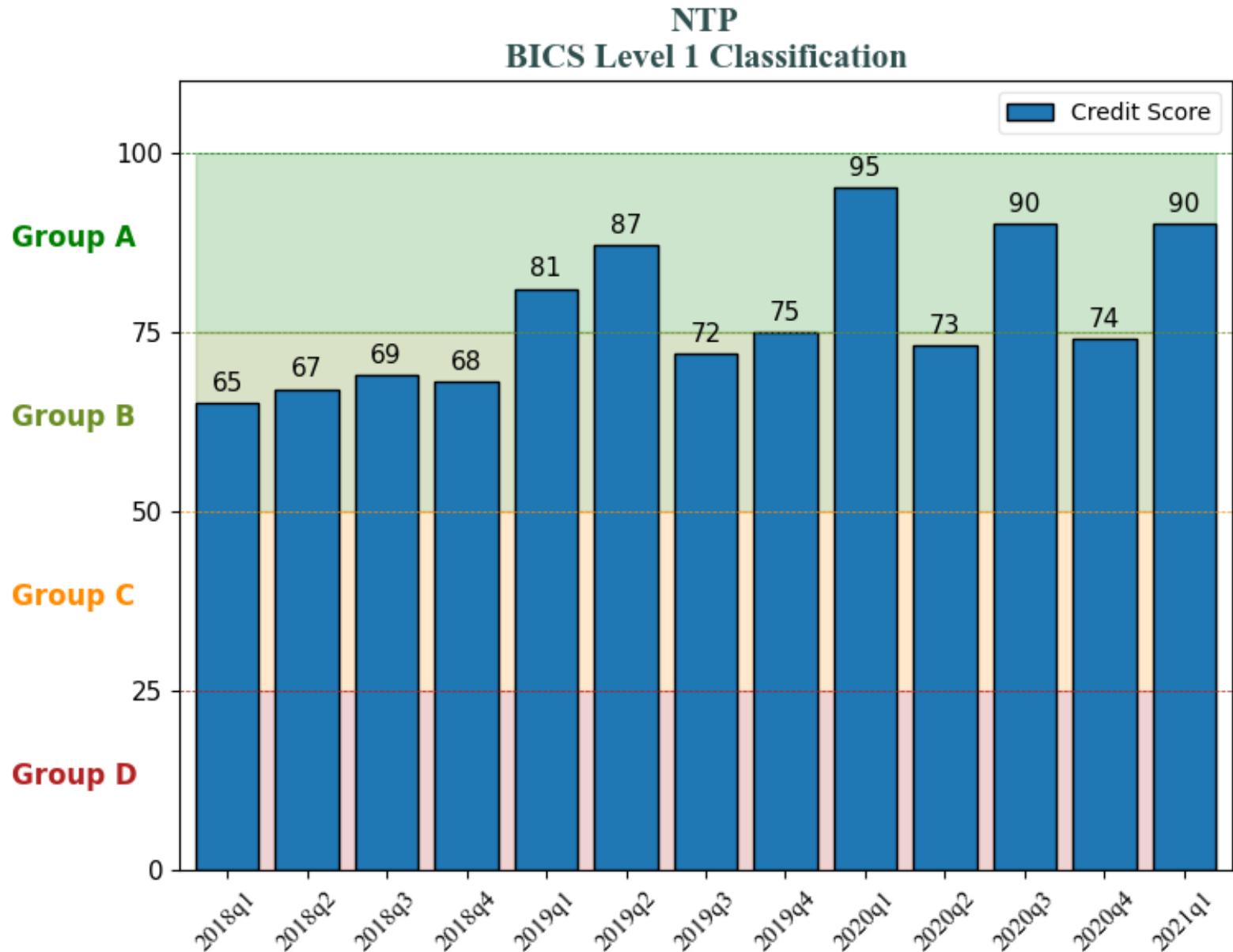
HNX: NTP

TIEN PHONG PLASTIC JOINT STOCK COMPANY



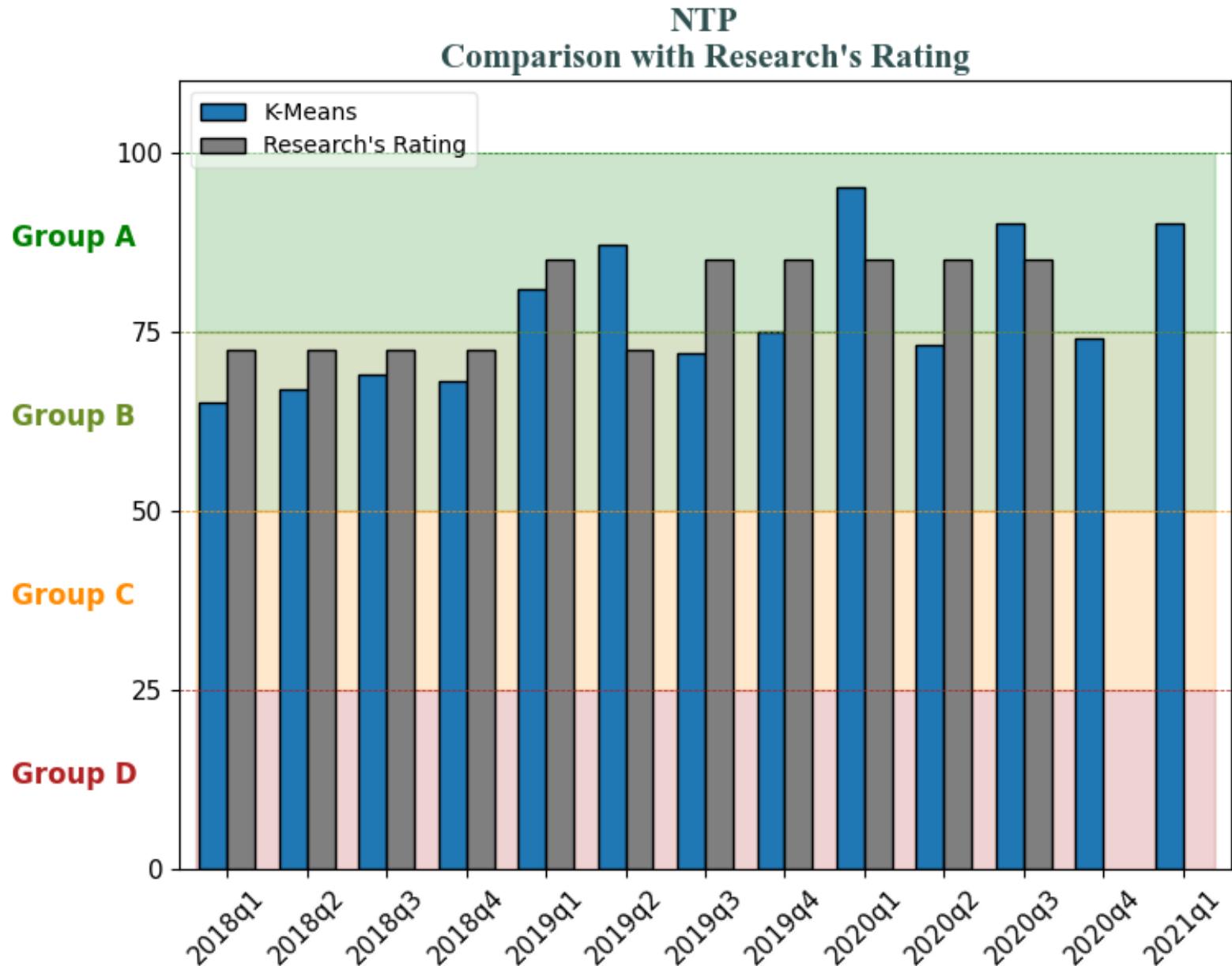
GENERAL INDUSTRIES

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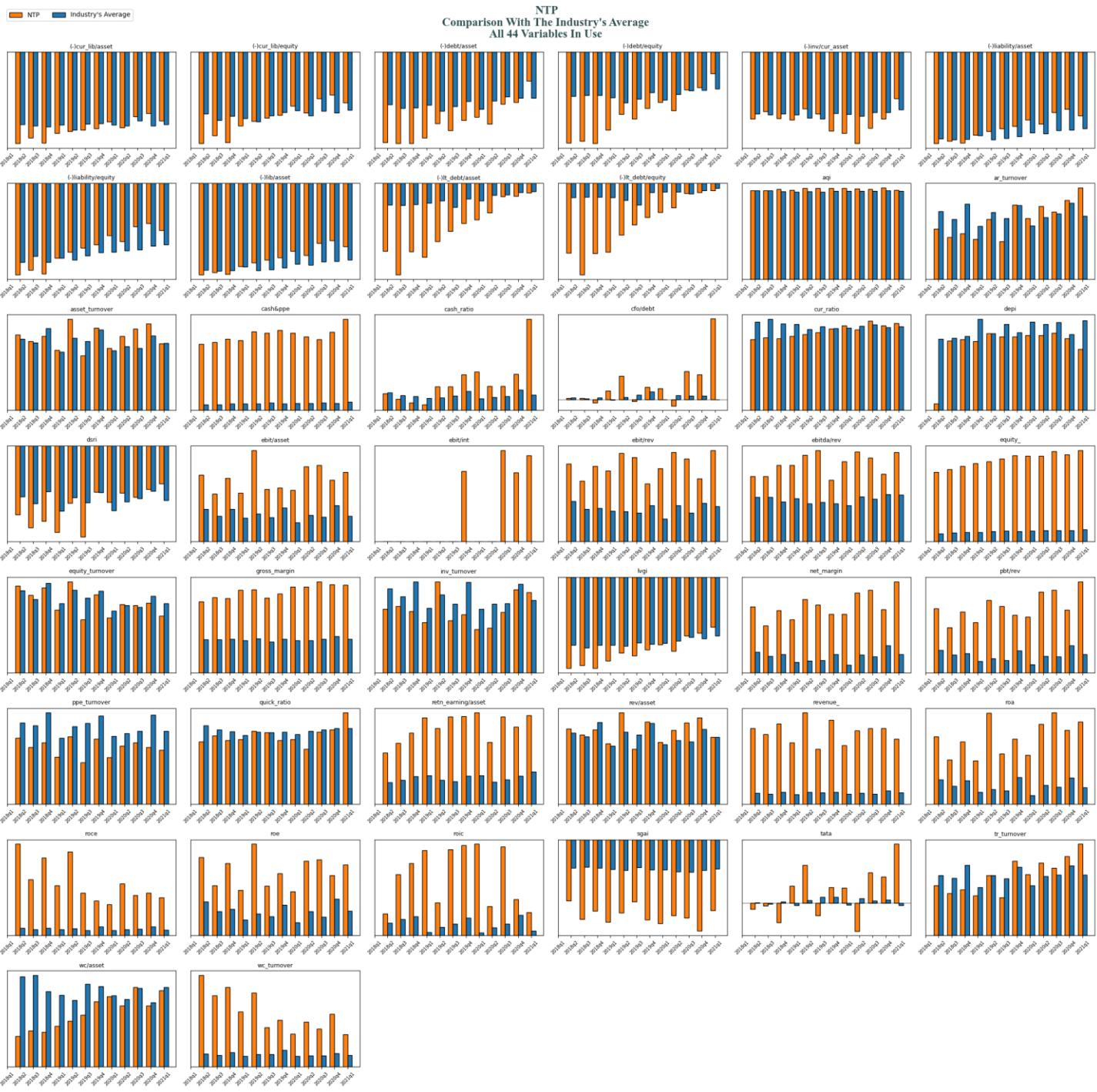


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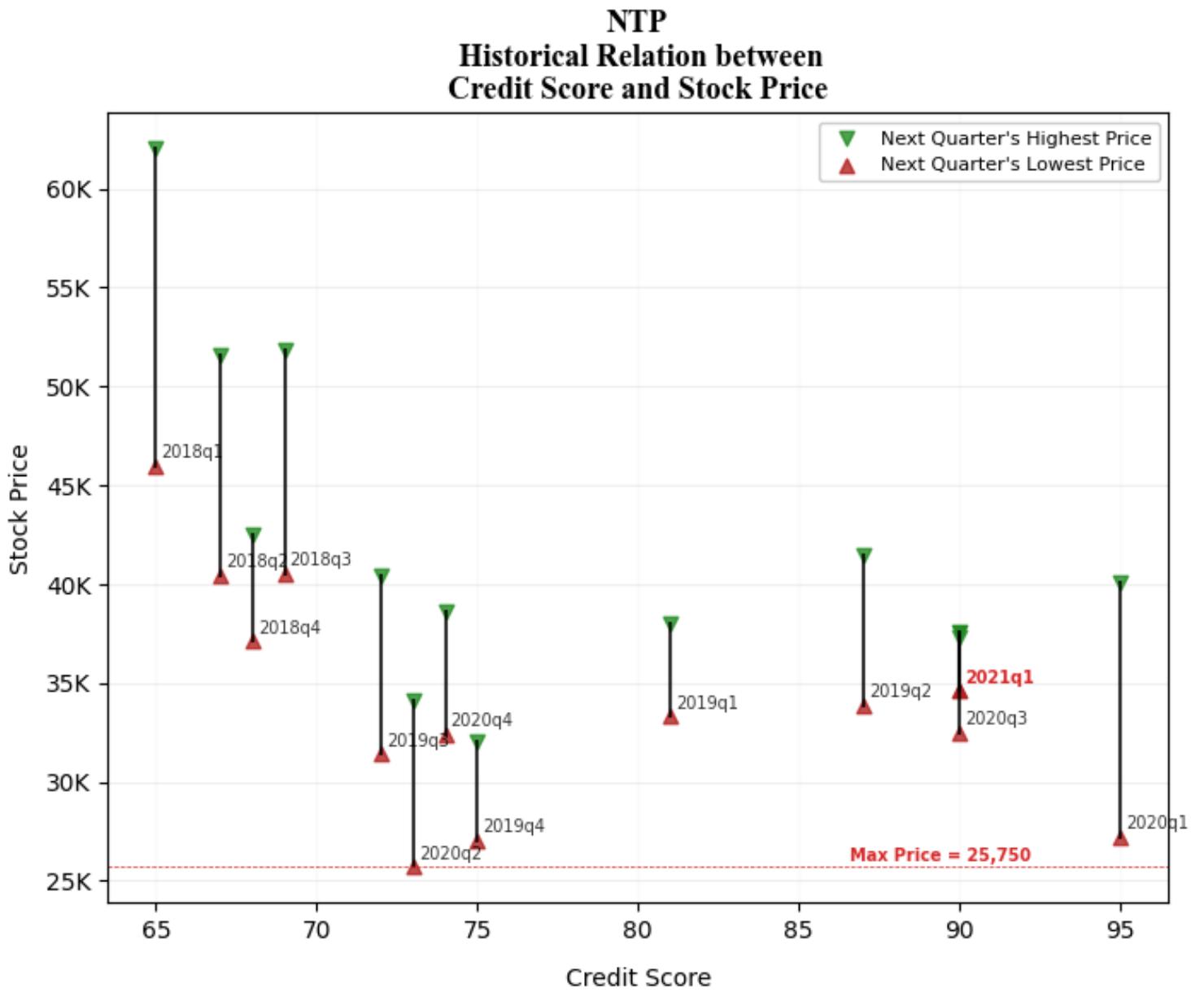
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GENERAL INDUSTRIES HOSE: NTP - TIEN PHONG PLASTIC JOINT STOCK COMPANY

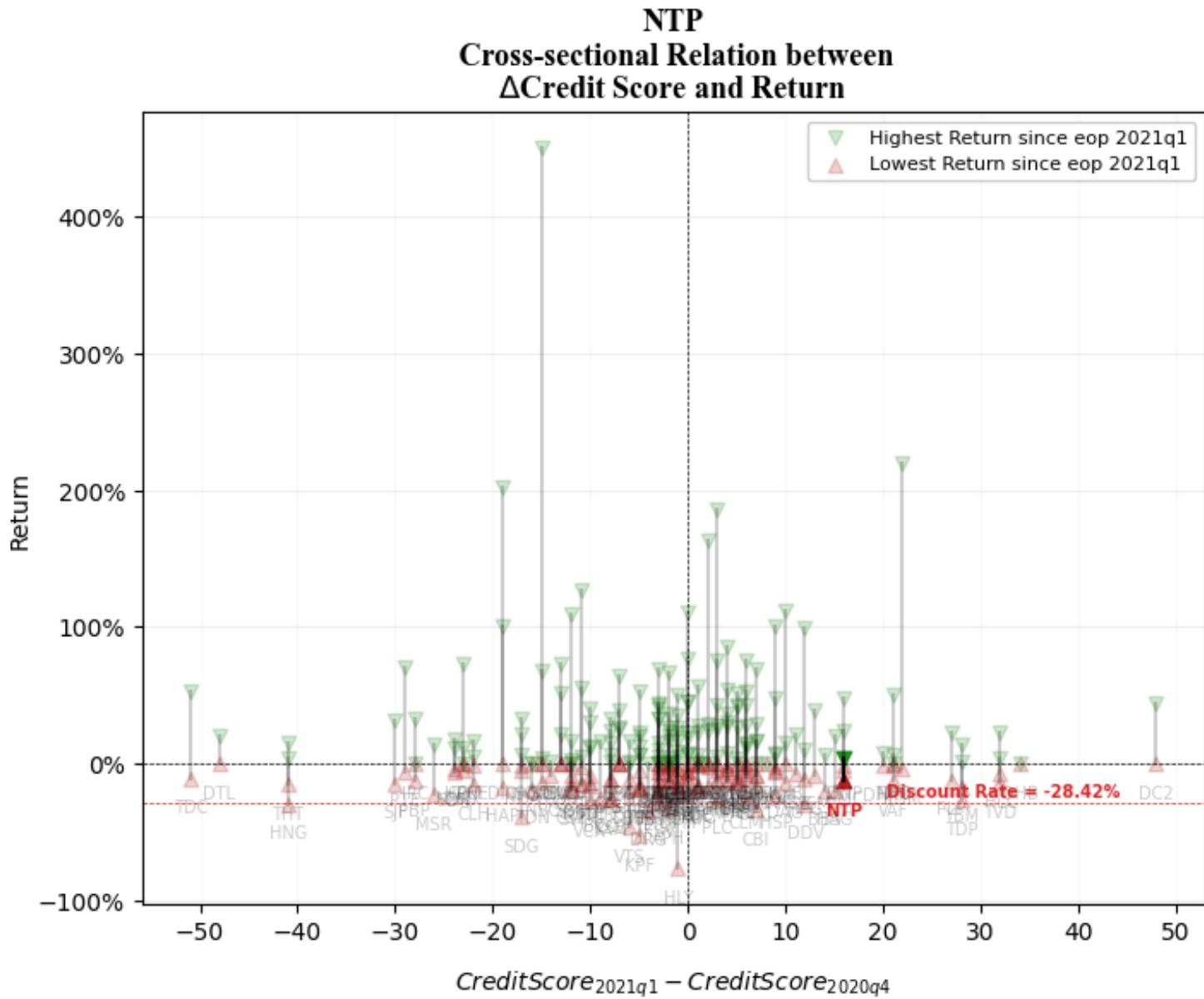


GENERAL
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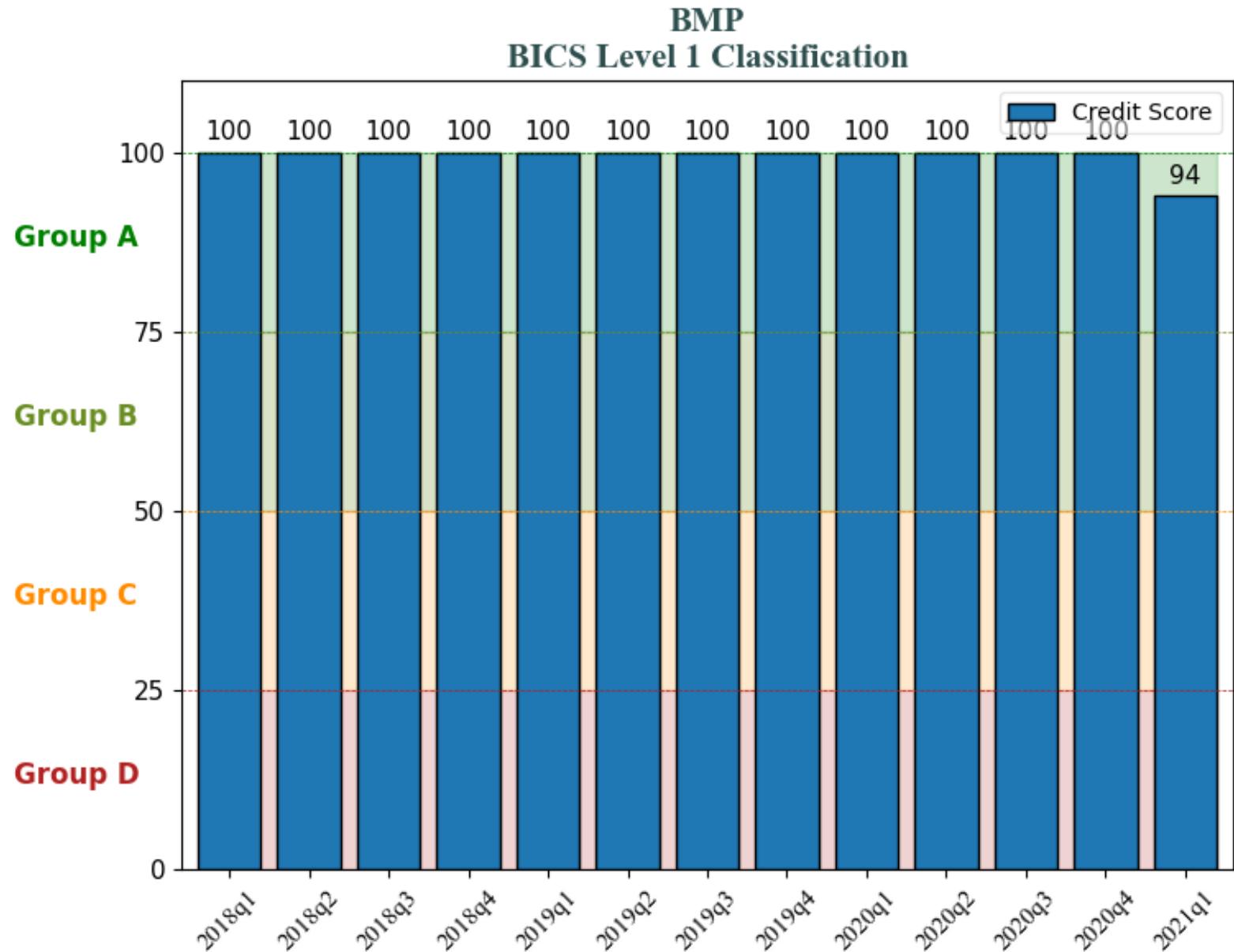


HOSE: BMP

BINH MINH PLASTICS JOINT STOCK COMPANY

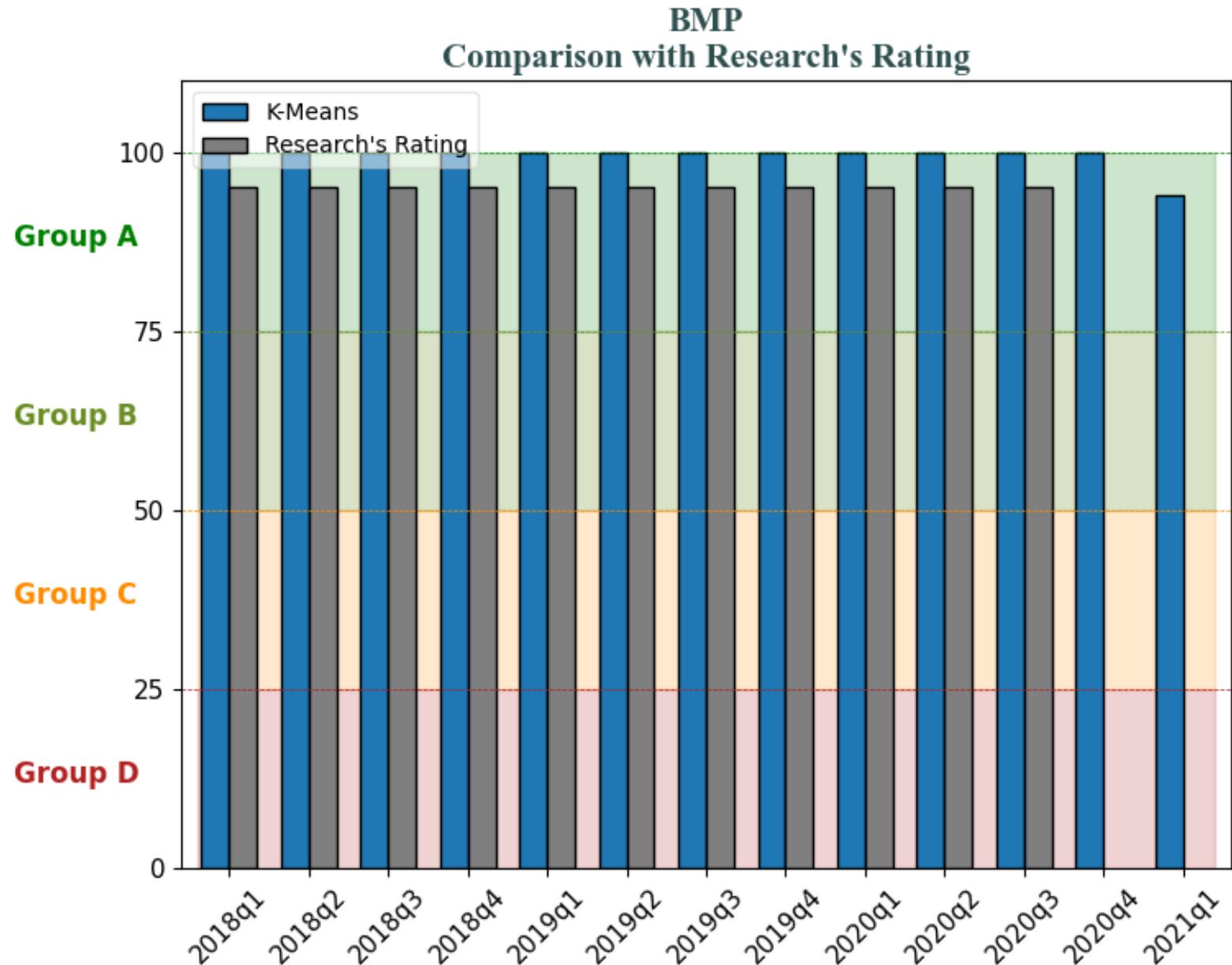
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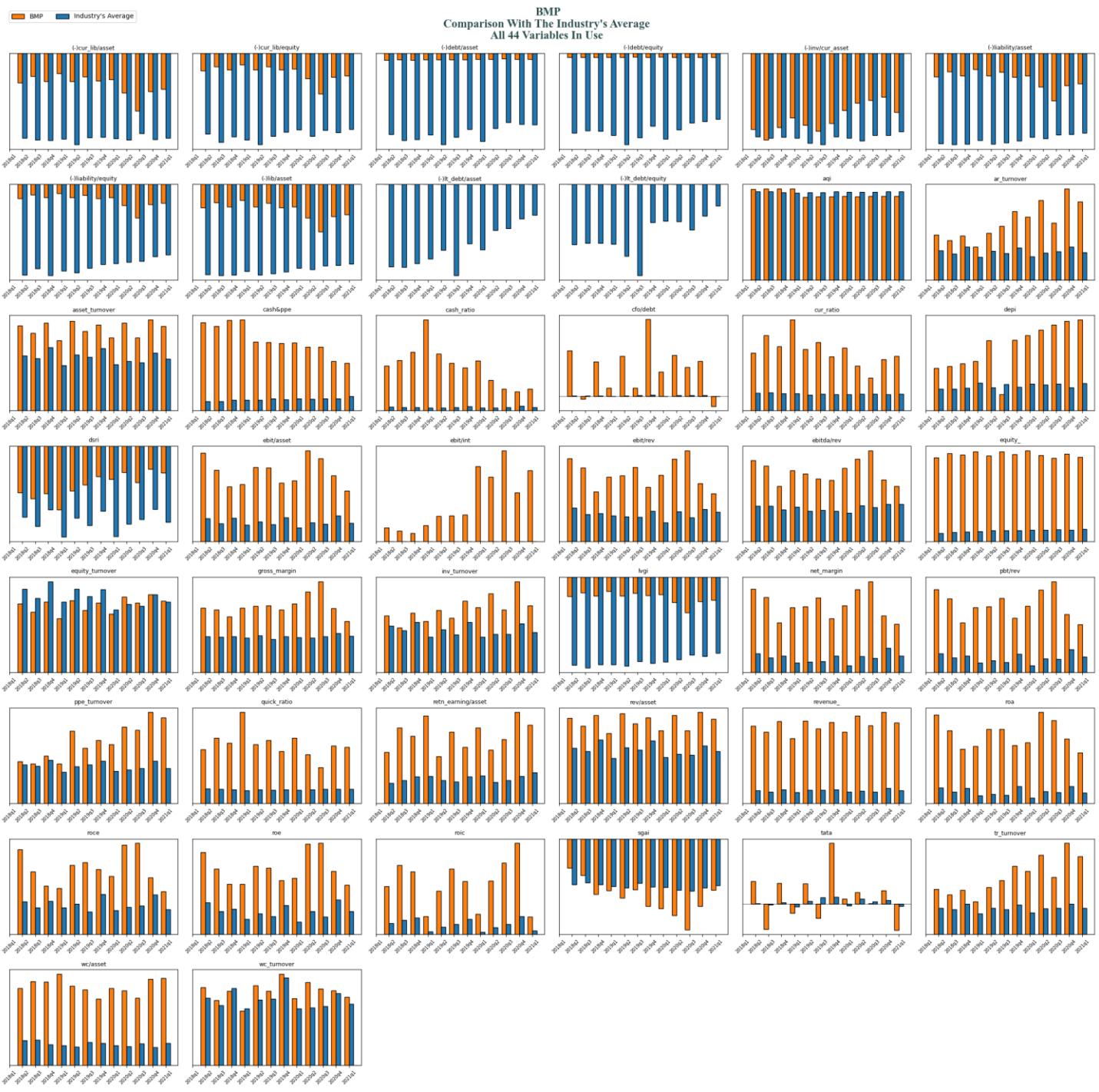


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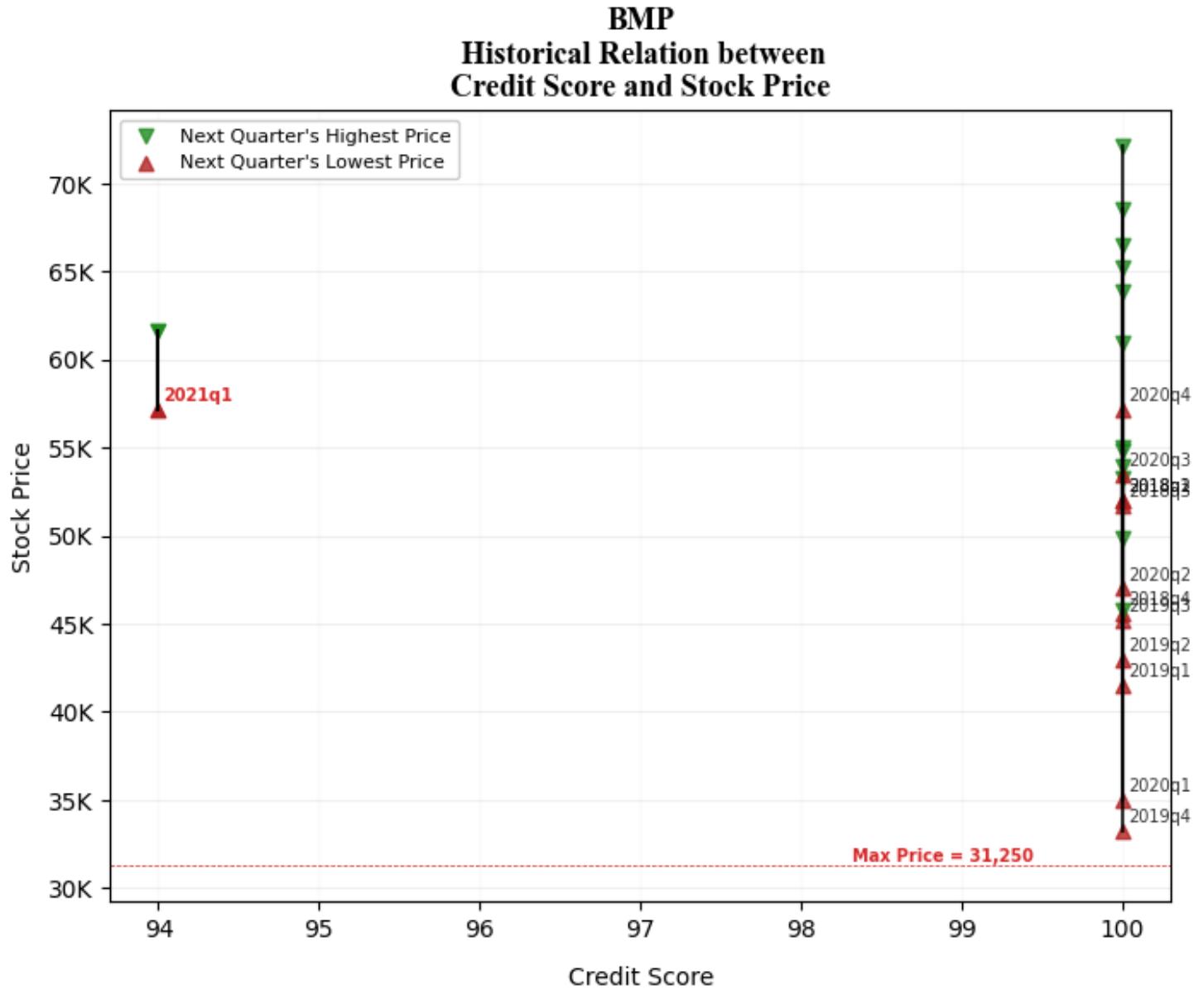


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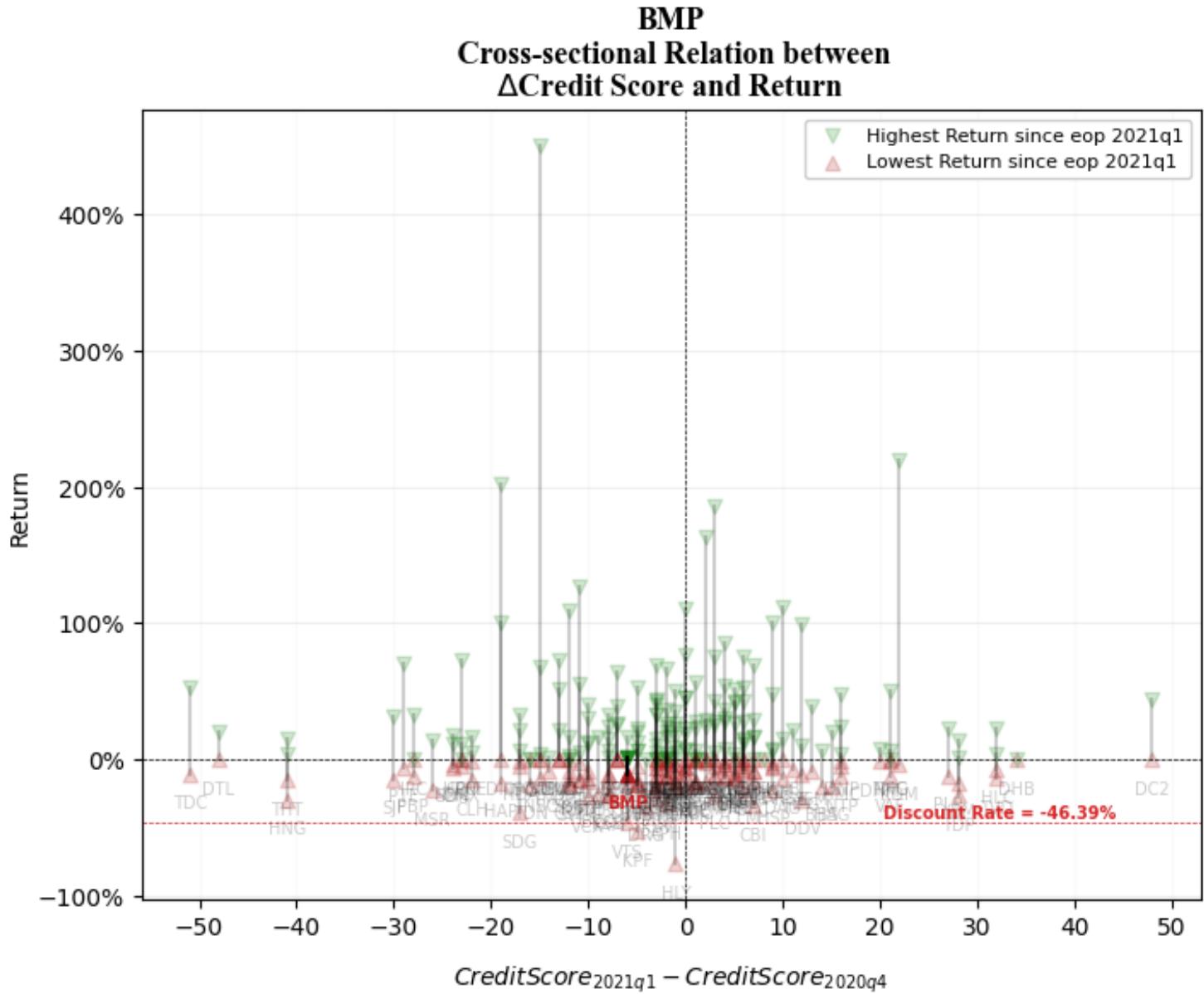
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JOINT STOCK
COMPANY





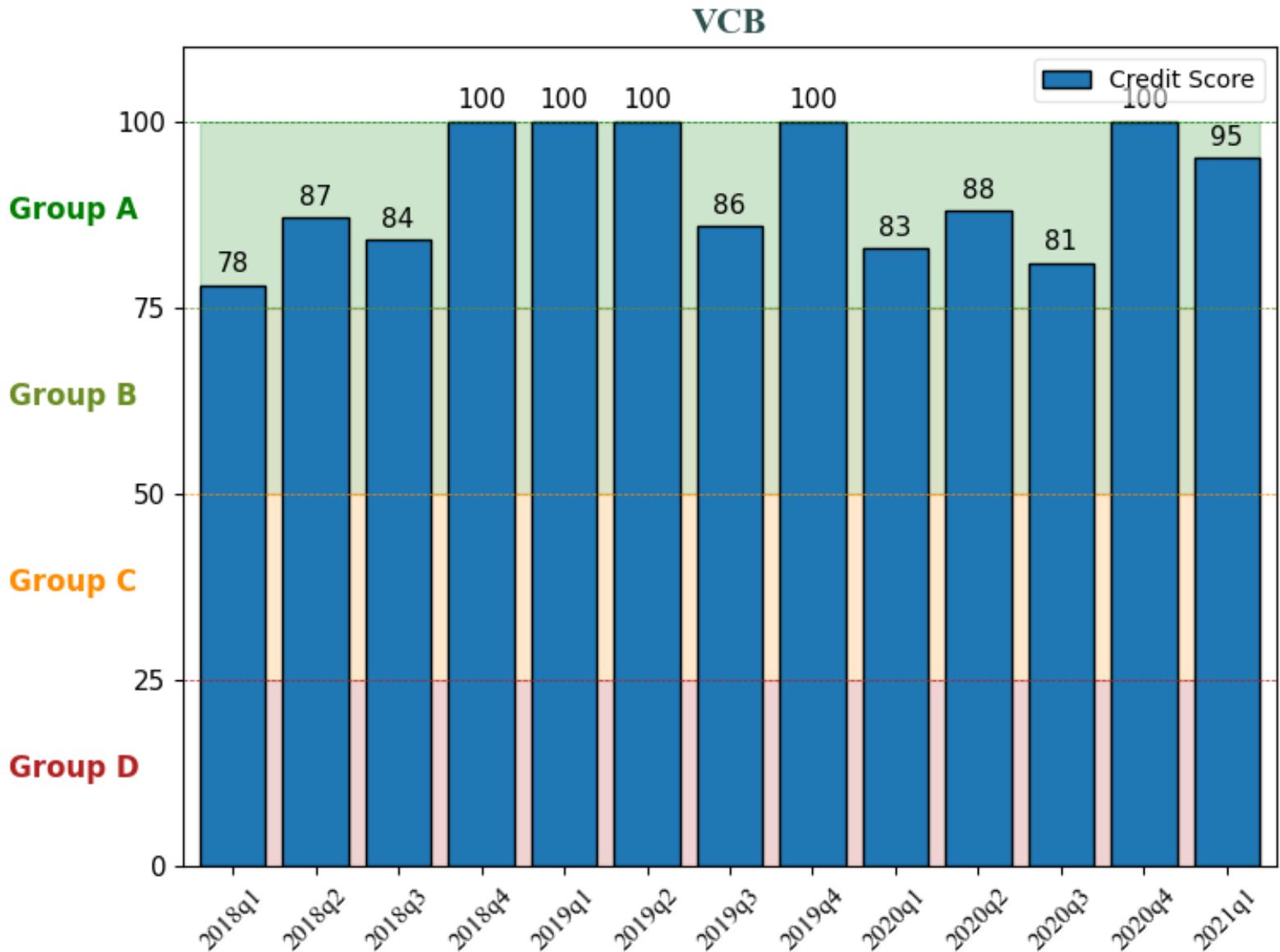
HOSE: VCB

BANK FOR FOREIGN TRADE OF VIETNAM



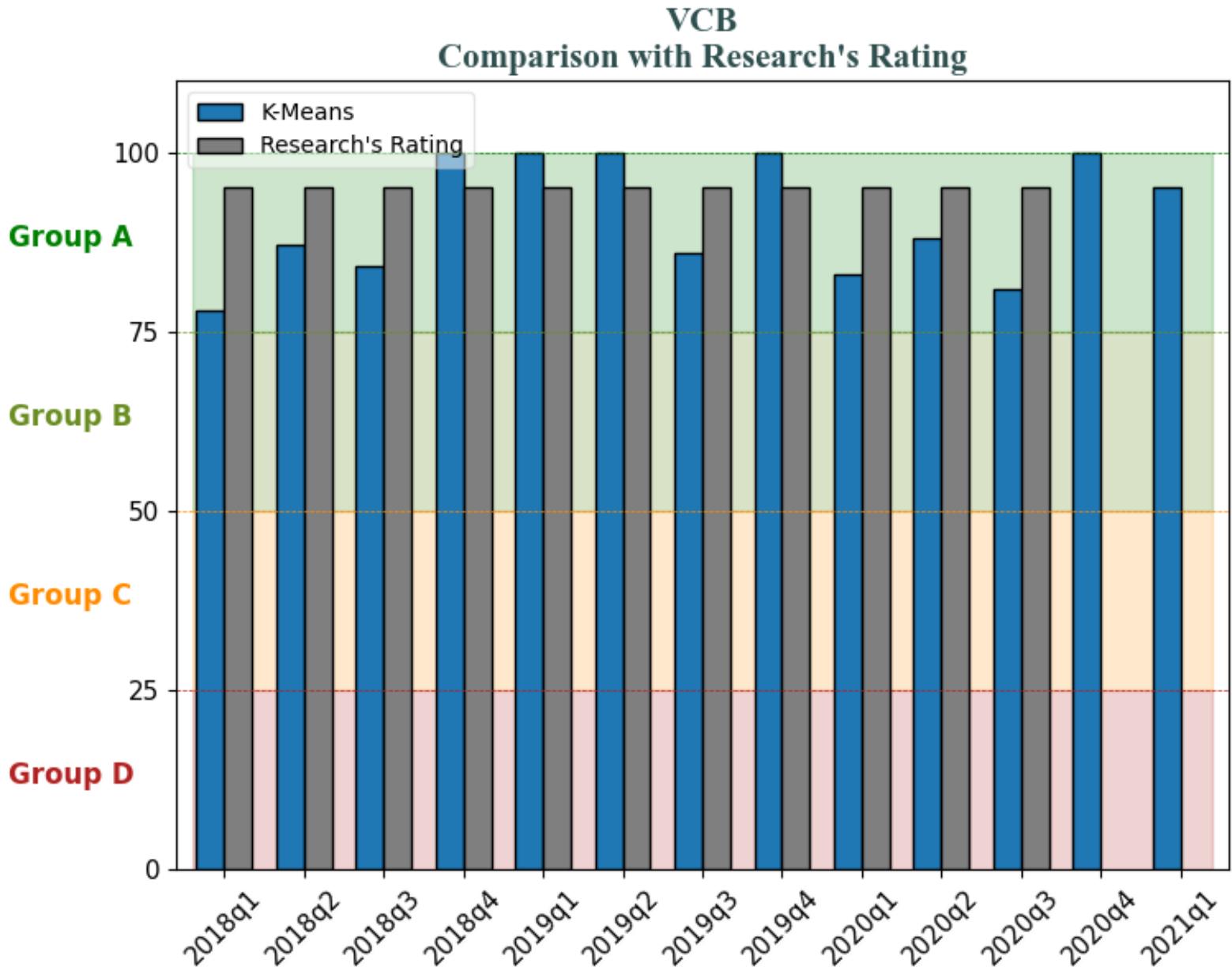
BANKING INDUSTRY

HOSE: VCB -
BANK FOR FOREIGN
TRADE OF VIETNAM



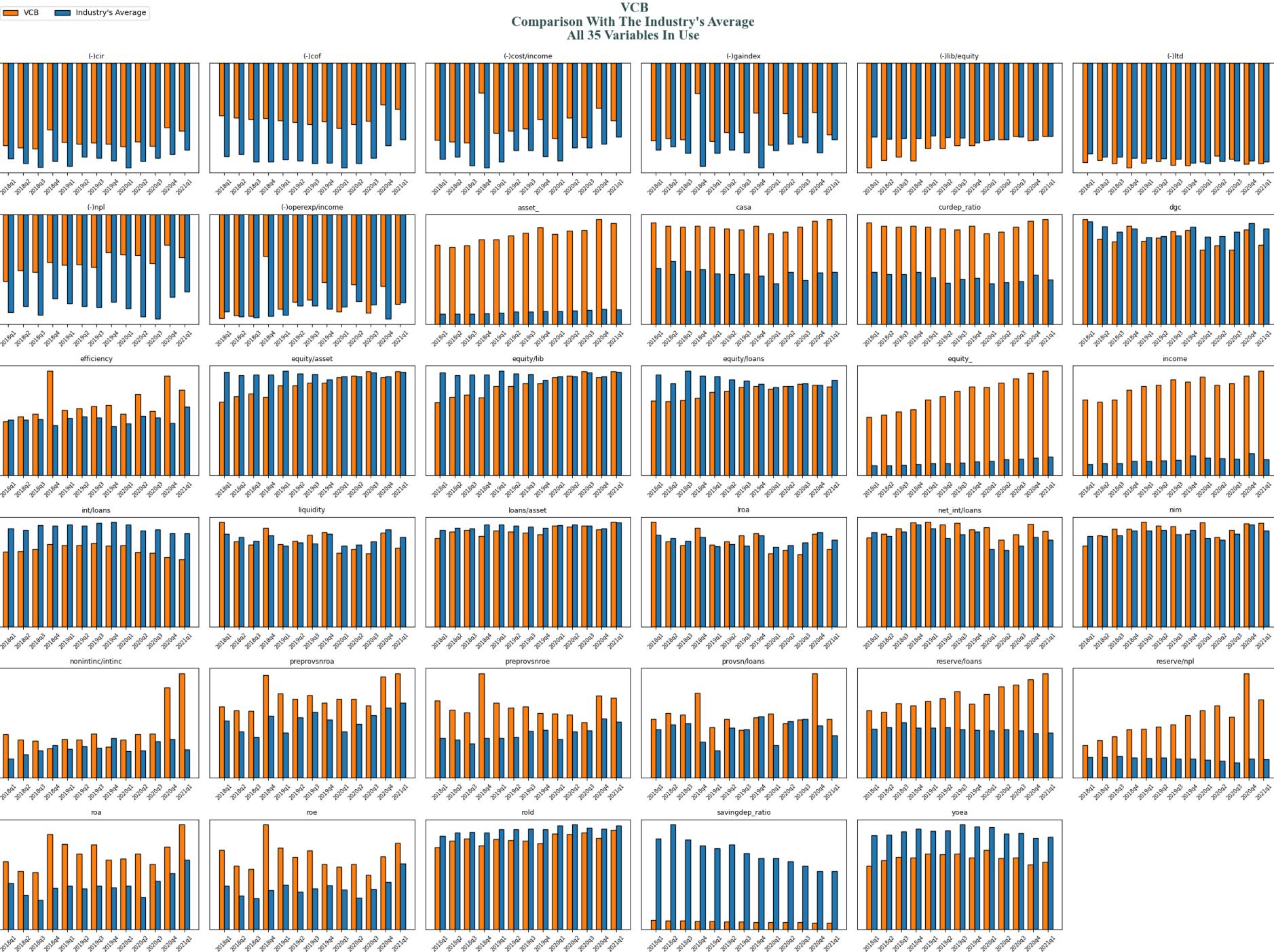
BANKING INDUSTRY

HOSE: VCB -
BANK FOR FOREIGN
TRADE OF VIETNAM



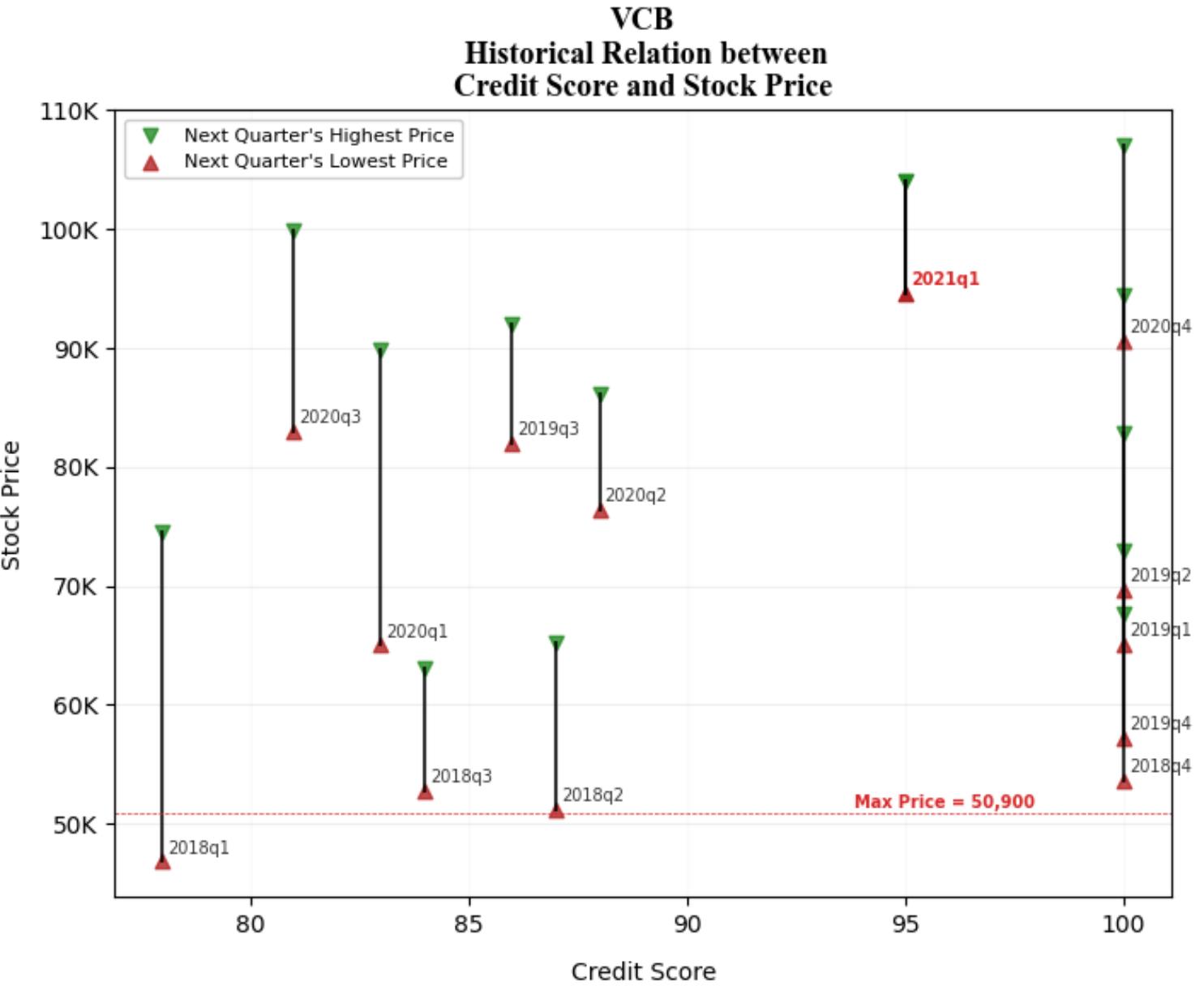
BANKING INDUSTRY

HOSE: VCB - BANK FOR FOREIGN TRADE OF VIETNAM



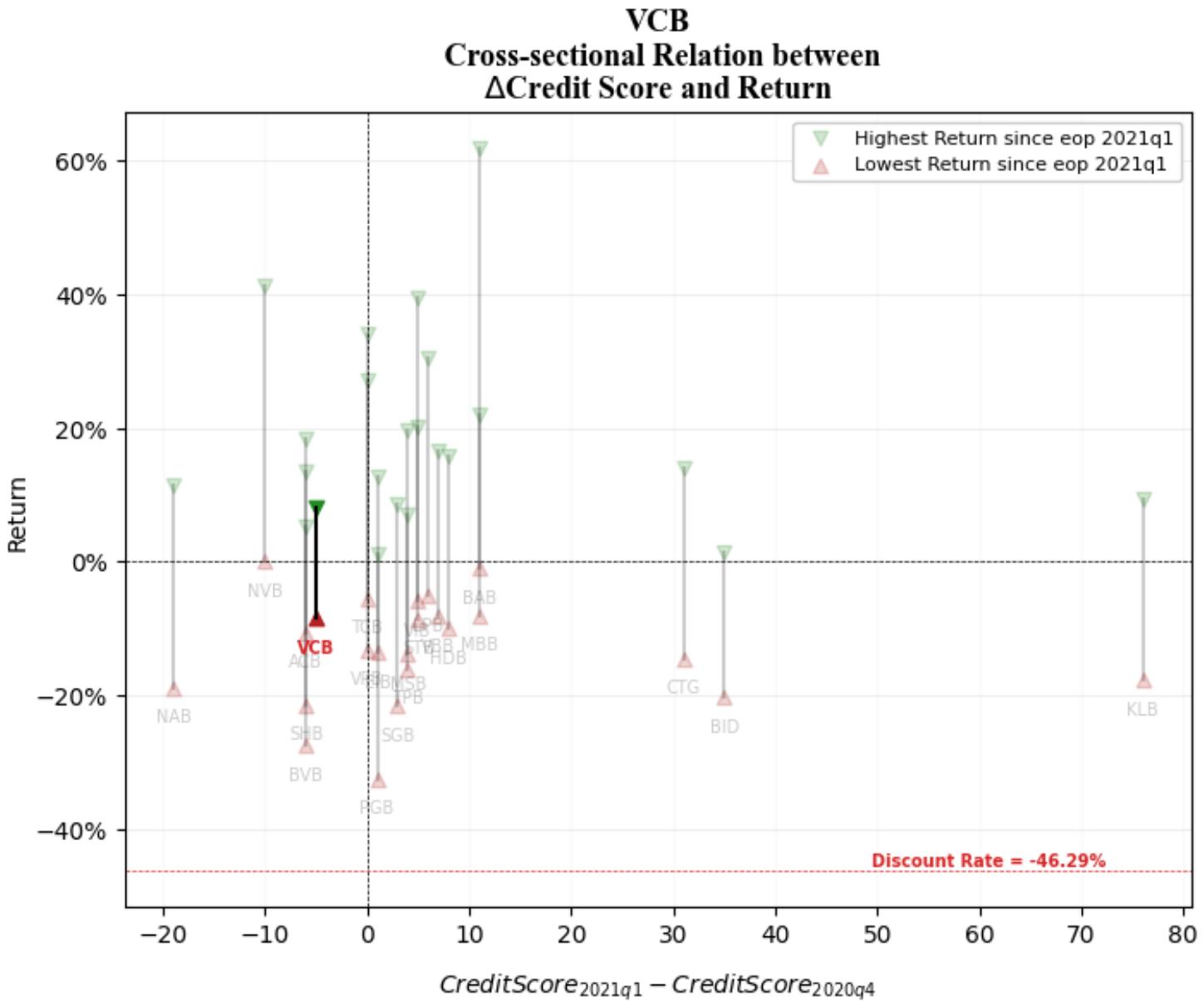
BANKING INDUSTRY

HOSE: VCB -
BANK FOR FOREIGN
TRADE OF VIETNAM



BANKING INDUSTRY

HOSE: VCB -
BANK FOR FOREIGN
TRADE OF VIETNAM



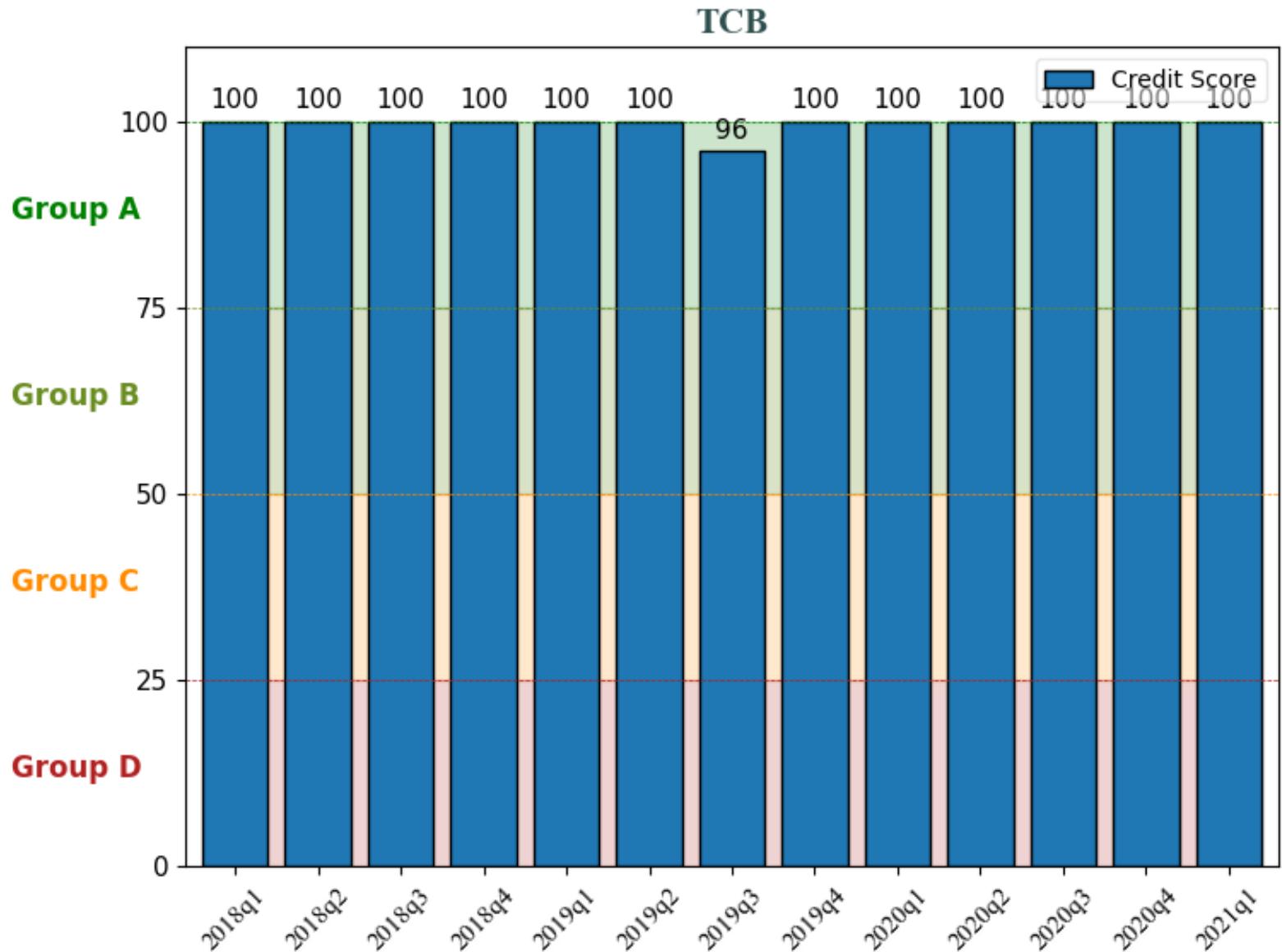
HOSE: TCB

VIETNAM TECHNOLOGICAL AND COMMERCIAL
JOINT STOCK BANK



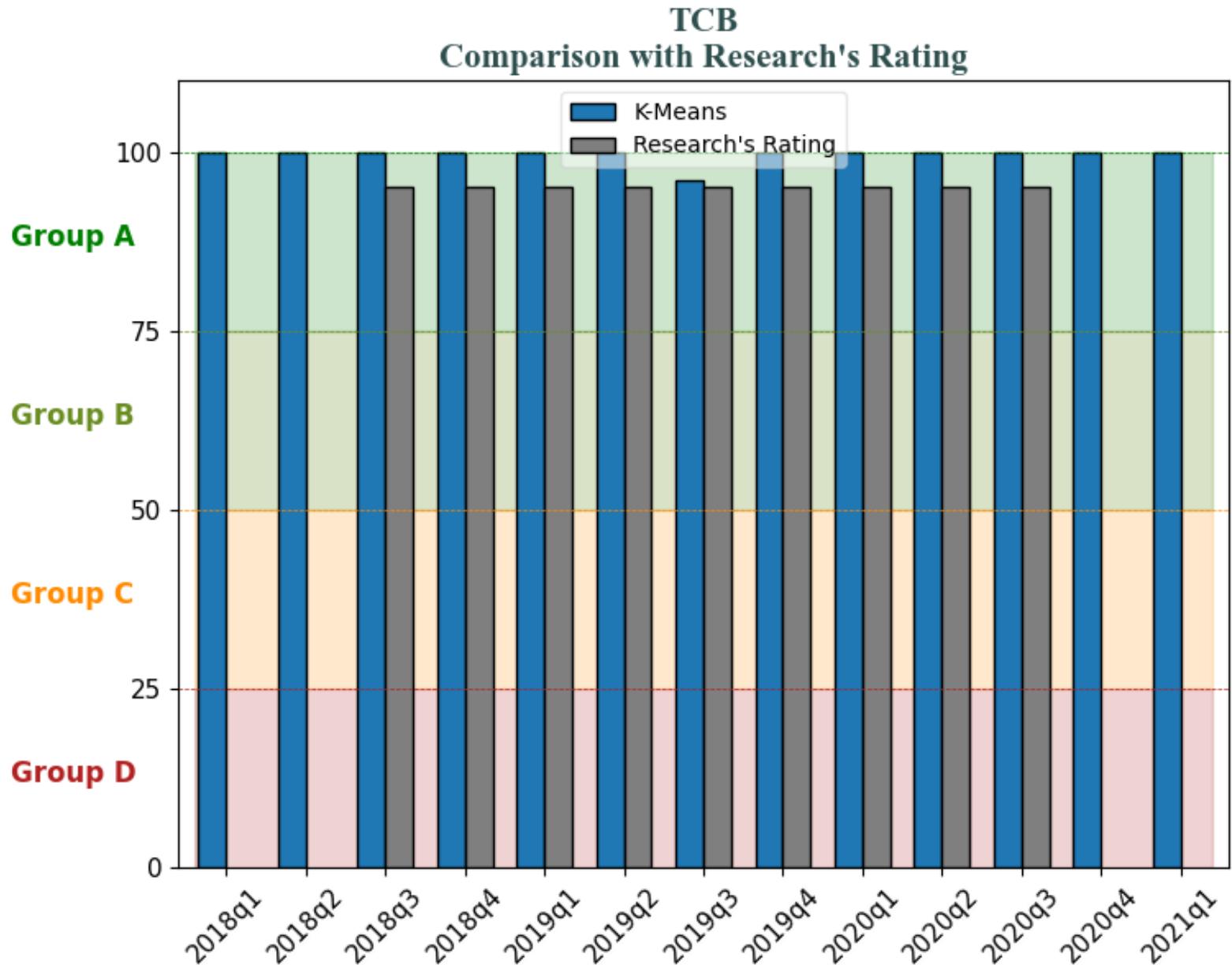
BANKING INDUSTRY

HOSE: TCB -
VIETNAM
TECHNOLOGICAL AND
COMMERCIAL
JOINT STOCK BANK

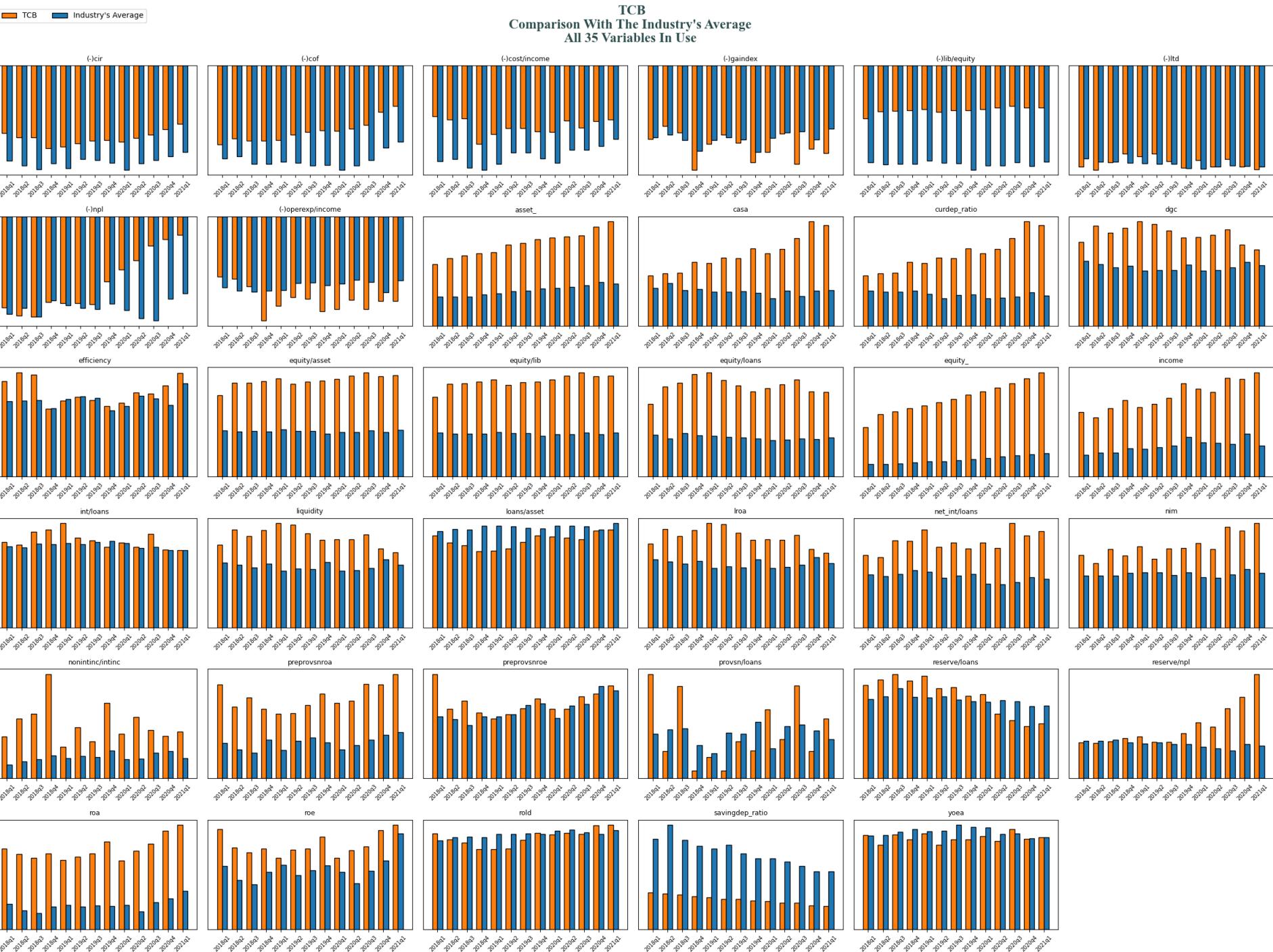


BANKING INDUSTRY

HOSE: TCB -
VIETNAM
TECHNOLOGICAL AND
COMMERCIAL
JOINT STOCK BANK



BANKING INDUSTRY HOSE: TCB - VIETNAM TECHNOLOGICAL AND COMMERCIAL JOINT STOCK BANK



BANKING INDUSTRY

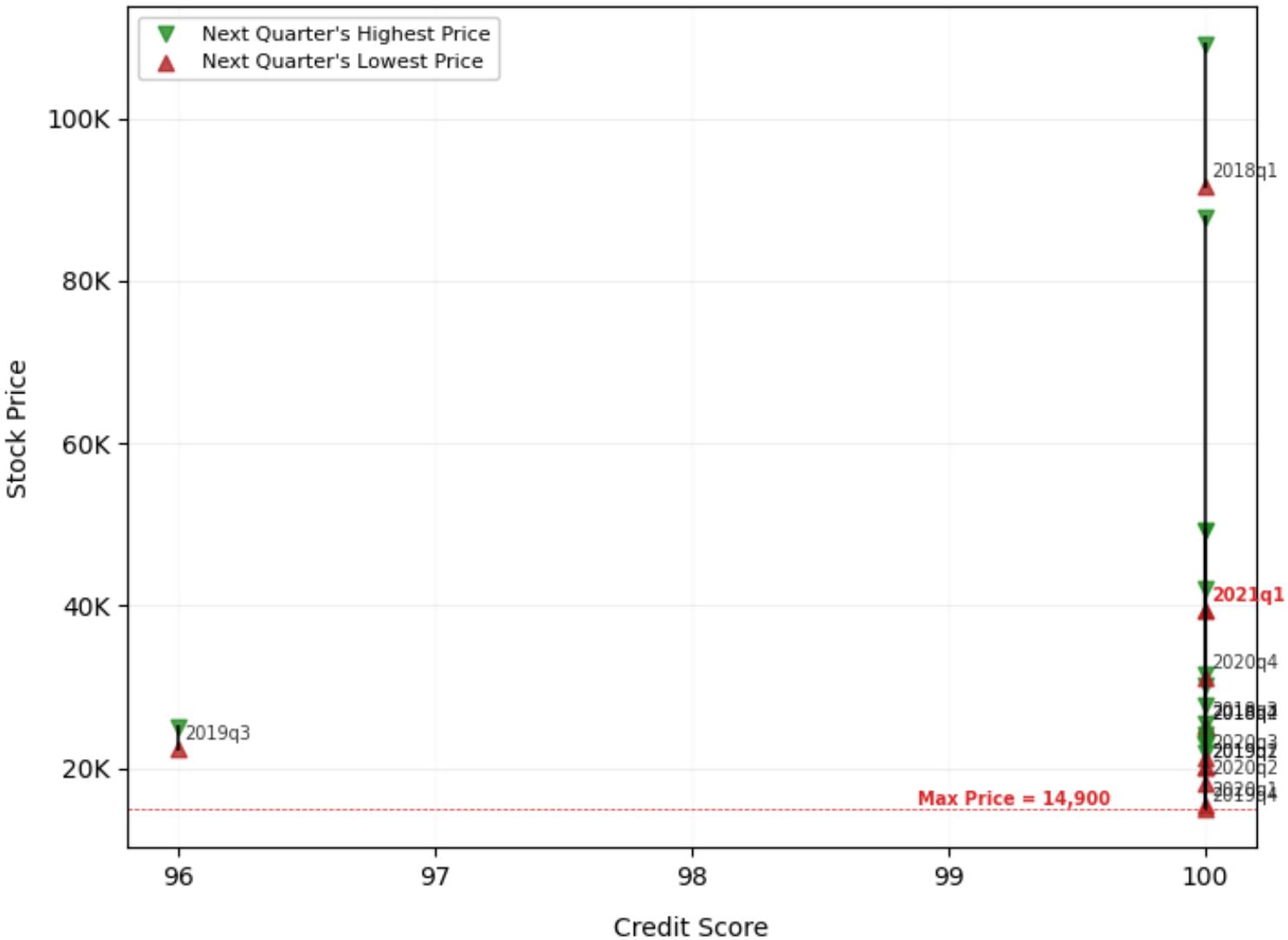
HOSE: TCB -

VIETNAM

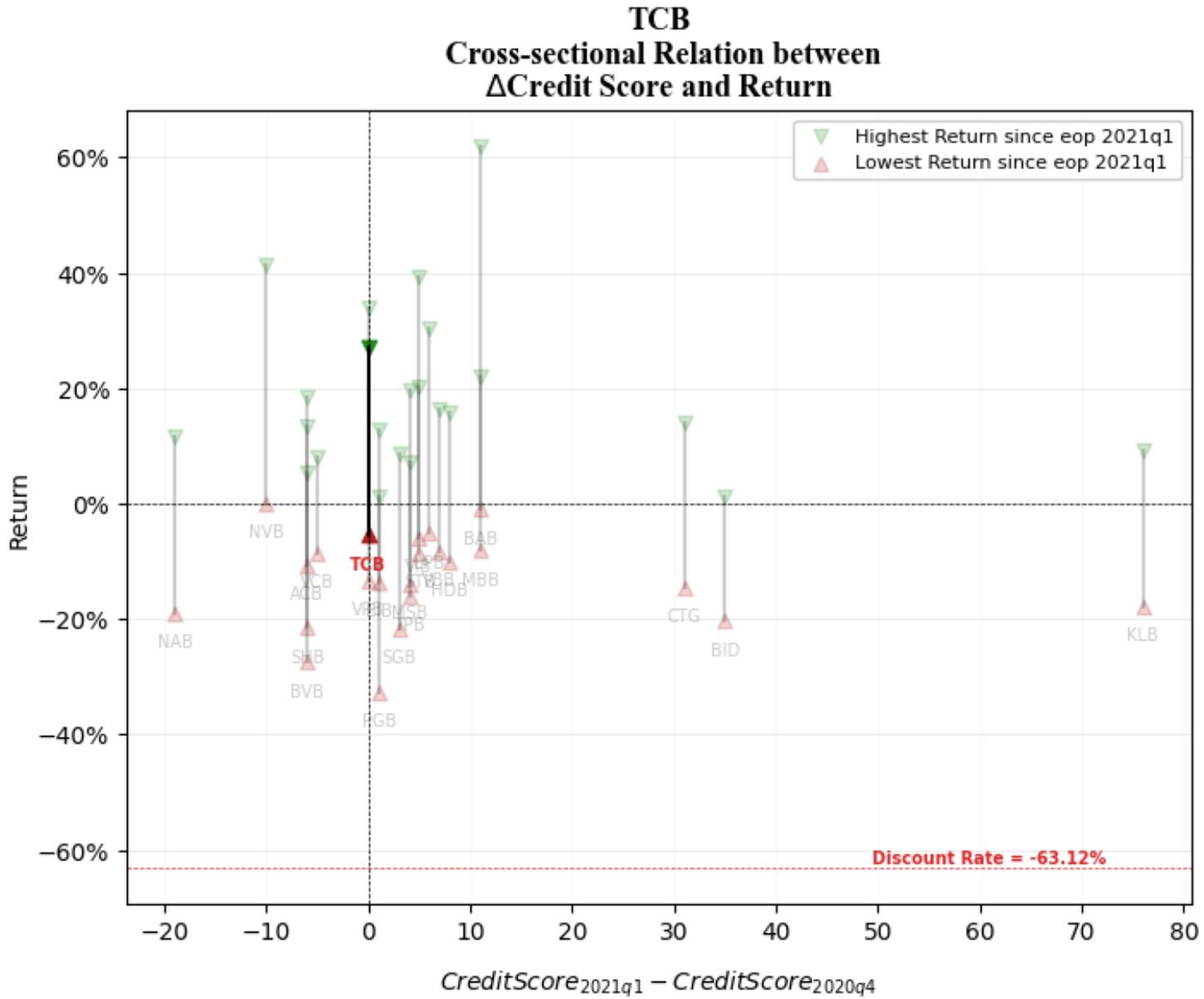
TECHNOLOGICAL AND
COMMERCIAL
JOINT STOCK BANK

TCB

Historical Relation between Credit Score and Stock Price



**BANKING
INDUSTRY**
HOSE: TCB -
VIETNAM
TECHNOLOGICAL AND
COMMERCIAL
JOINT STOCK BANK



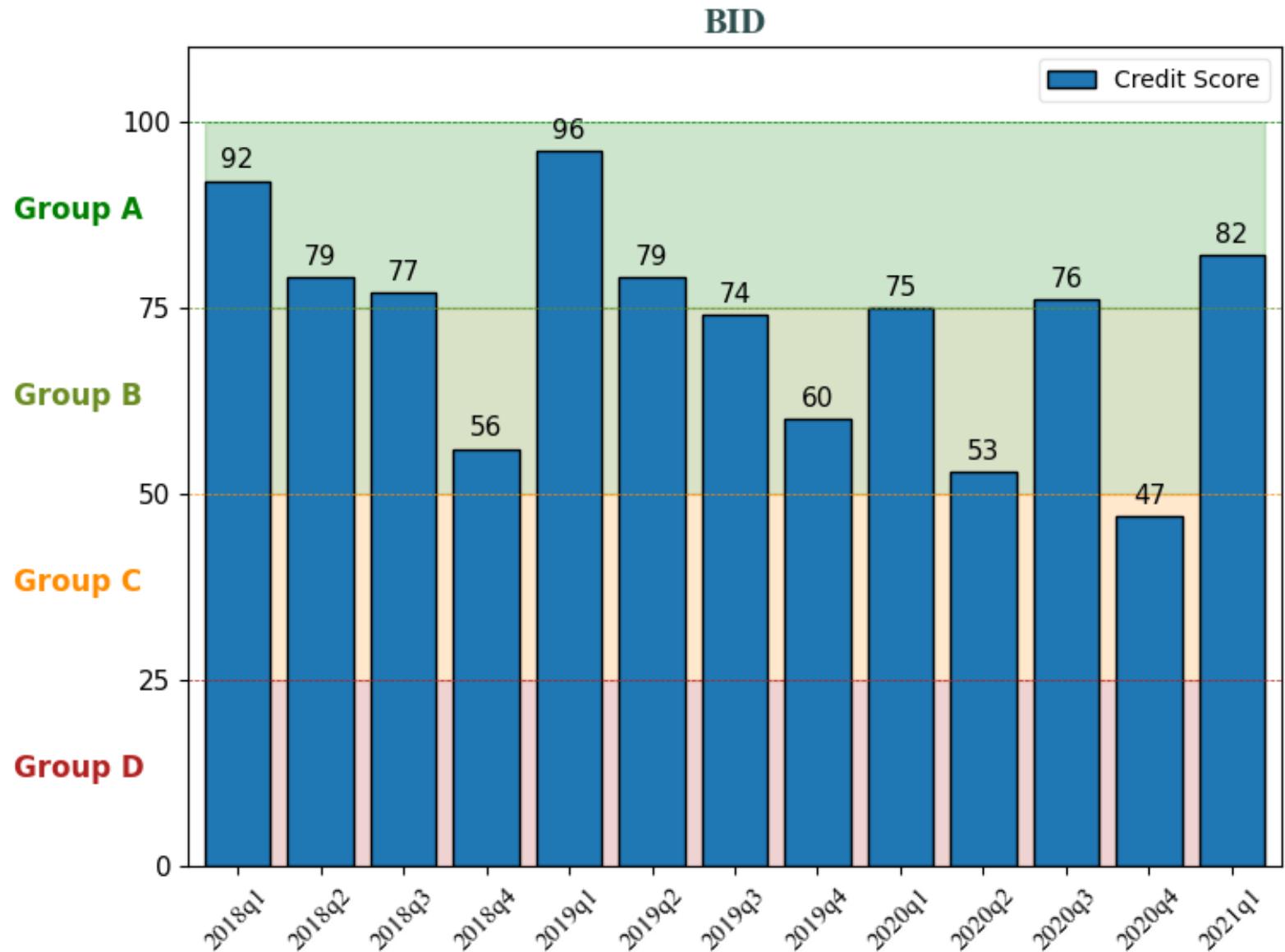
HOSE: BID

JSC BANK FOR INVESTMENT AND DEVELOPMENT OF
VIETNAM



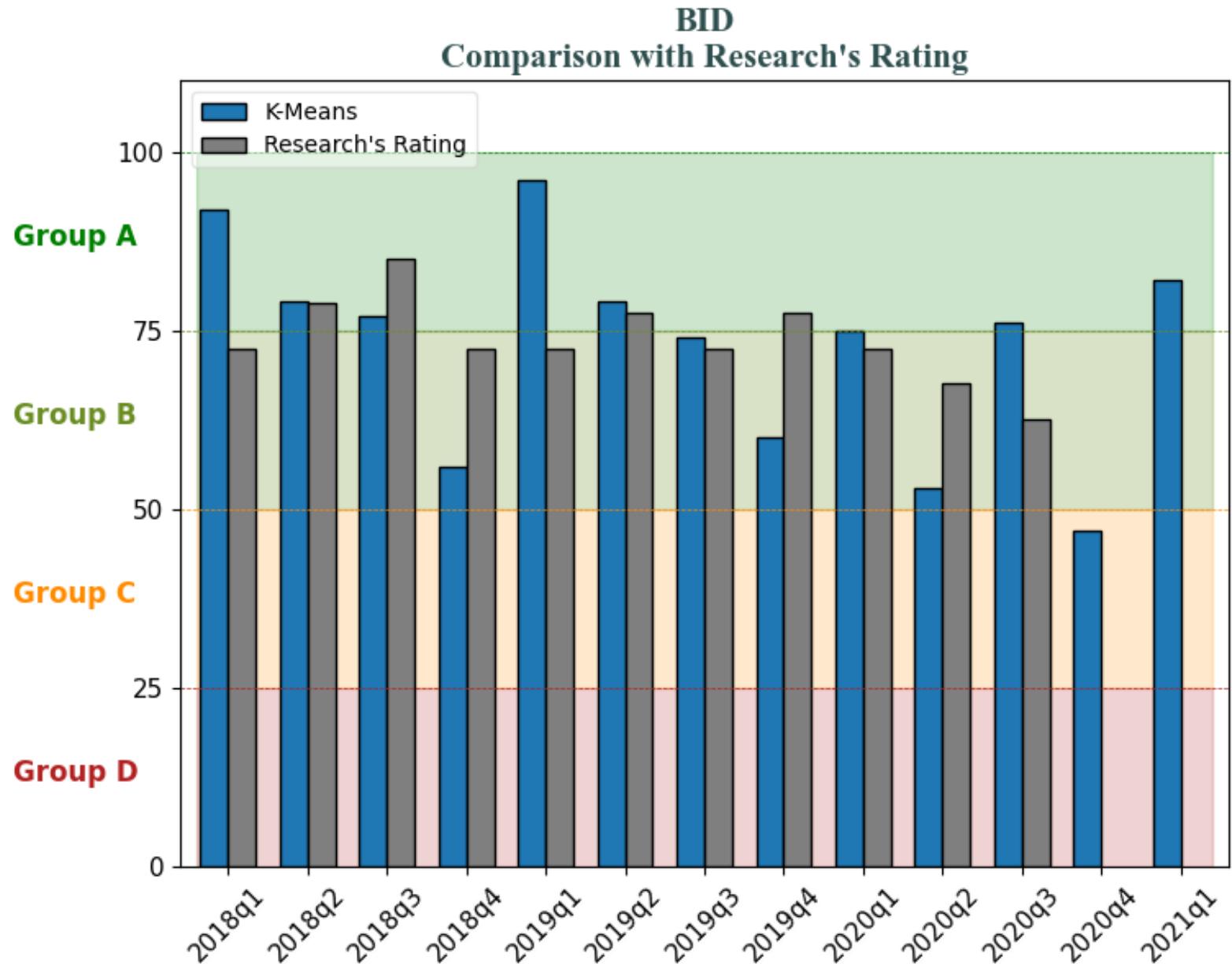
BANKING INDUSTRY

HOSE: BID -
JSC BANK FOR
INVESTMENT AND
DEVELOPMENT OF
VIETNAM



BANKING INDUSTRY

HOSE: BID -
JSC BANK FOR
INVESTMENT AND
DEVELOPMENT OF
VIETNAM



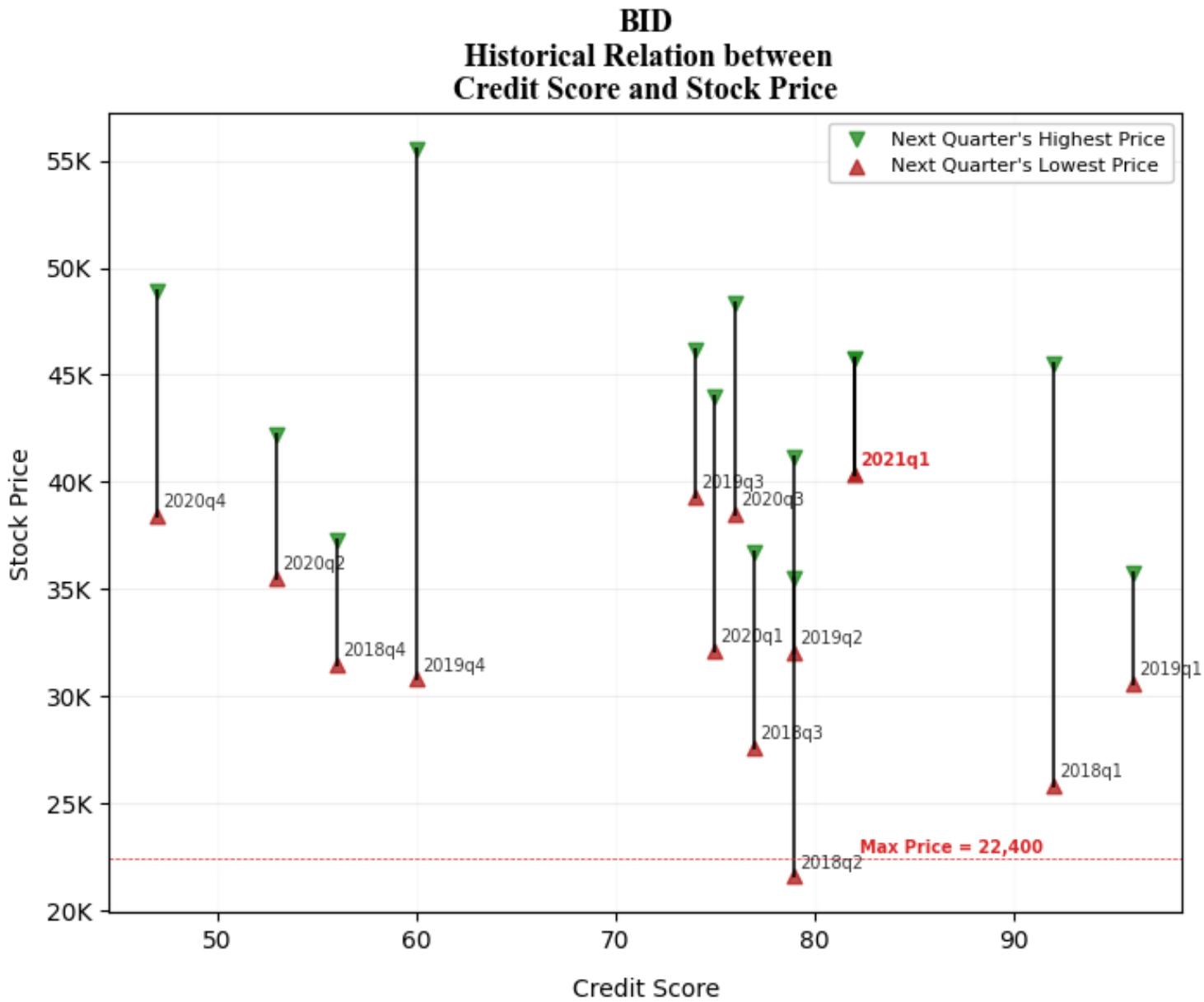
BANKING INDUSTRY

HOSE: BID - JSC BANK FOR INVESTMENT AND DEVELOPMENT OF VIETNAM



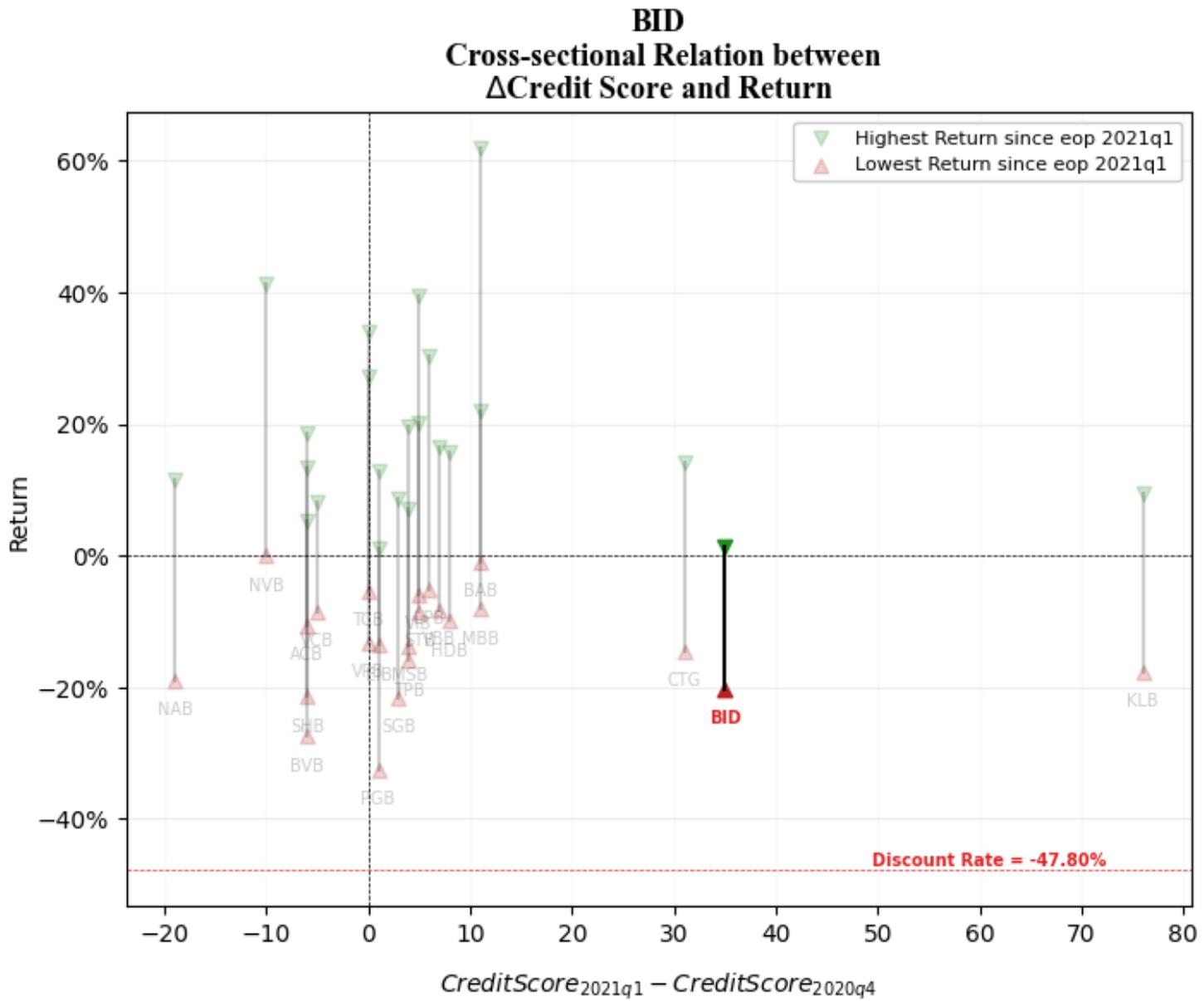
BANKING INDUSTRY

HOSE: BID -
JSC BANK FOR
INVESTMENT AND
DEVELOPMENT OF
VIETNAM



BANKING INDUSTRY

HOSE: BID -
JSC BANK FOR
INVESTMENT AND
DEVELOPMENT OF
VIETNAM



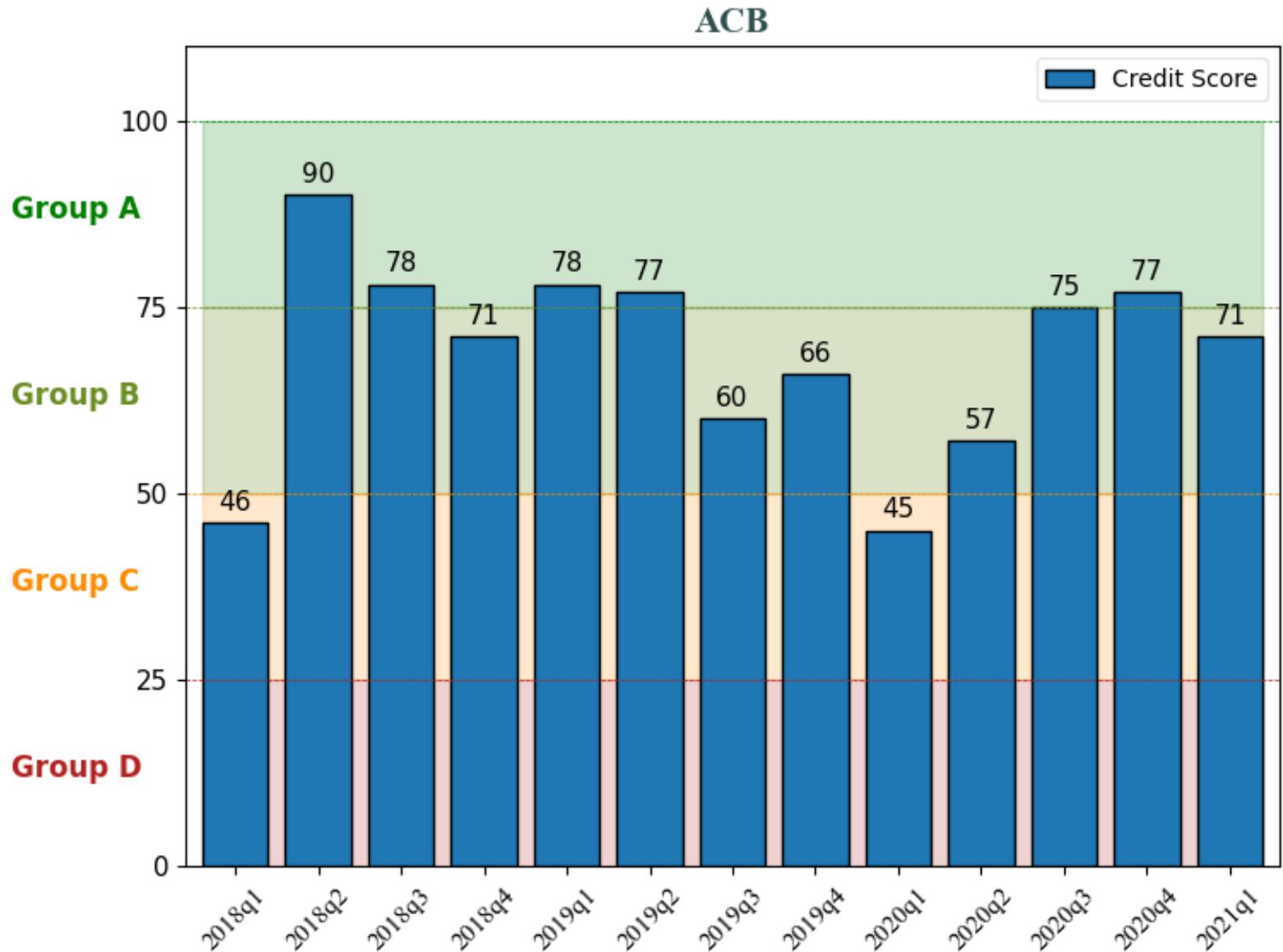


HOSE: ACB

ASIA COMMERCIAL BANK

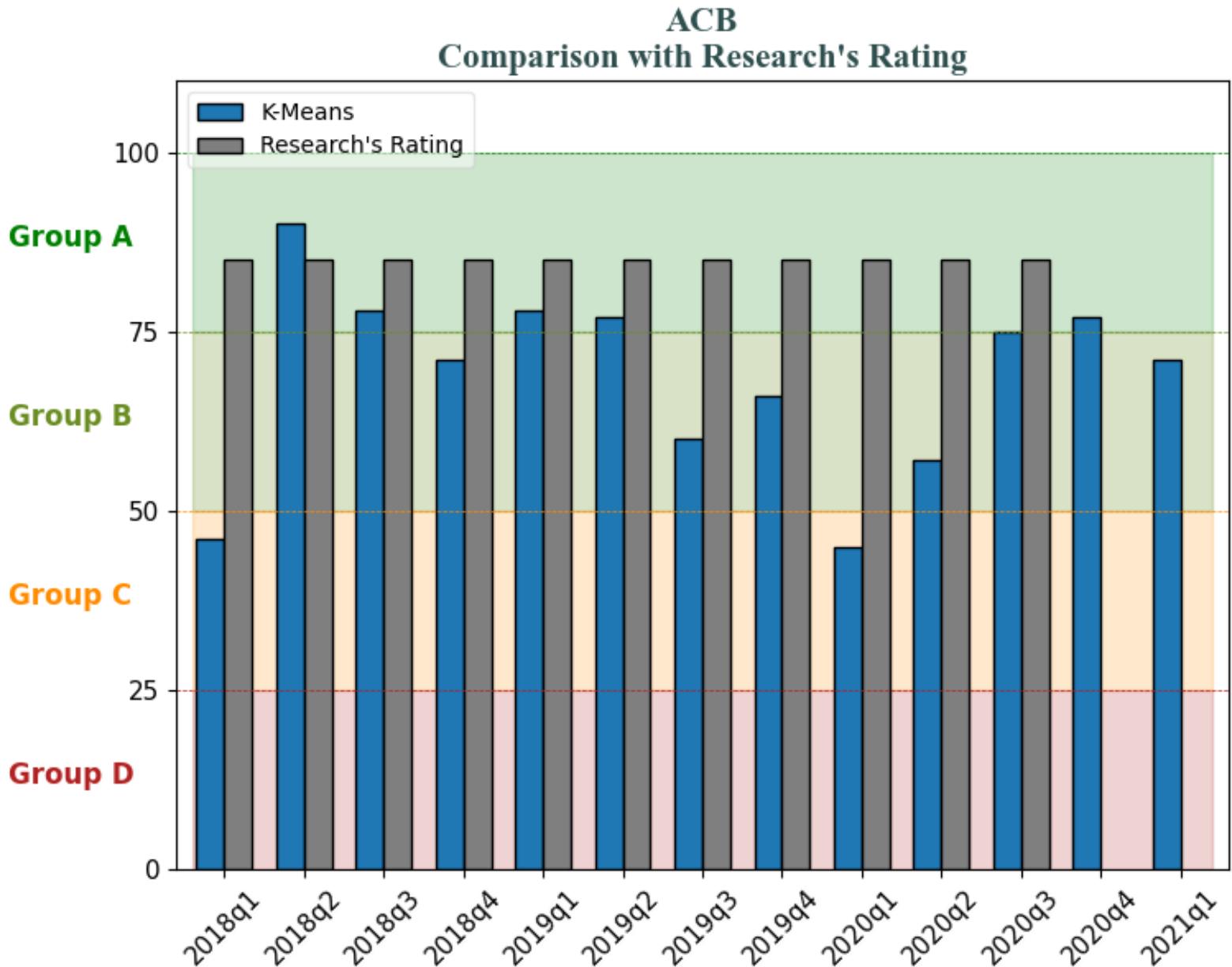
BANKING INDUSTRY

HOSE: ACB -
ASIA COMMERCIAL
BANK



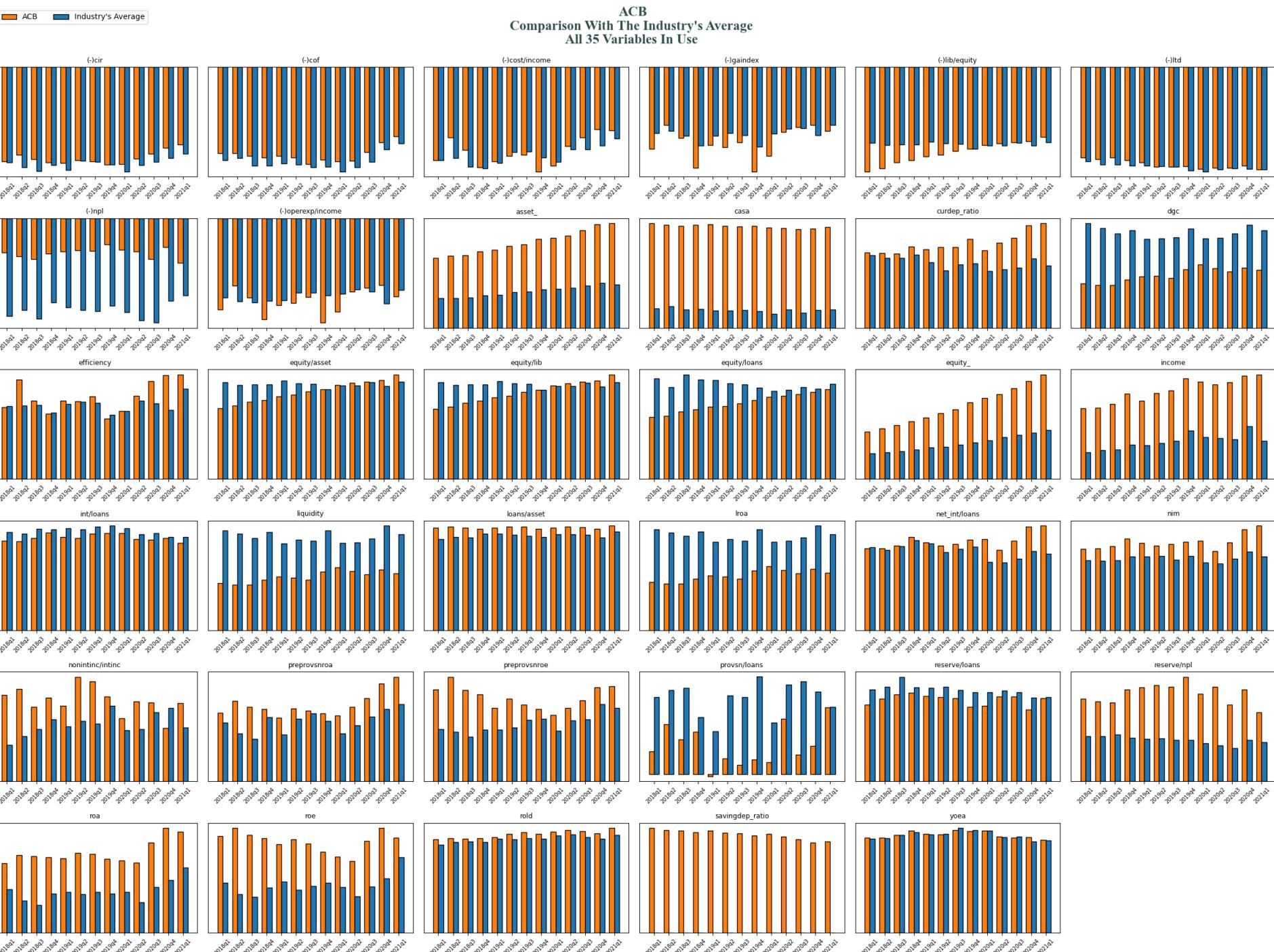
BANKING INDUSTRY

HOSE: ACB -
ASIA COMMERCIAL
BANK



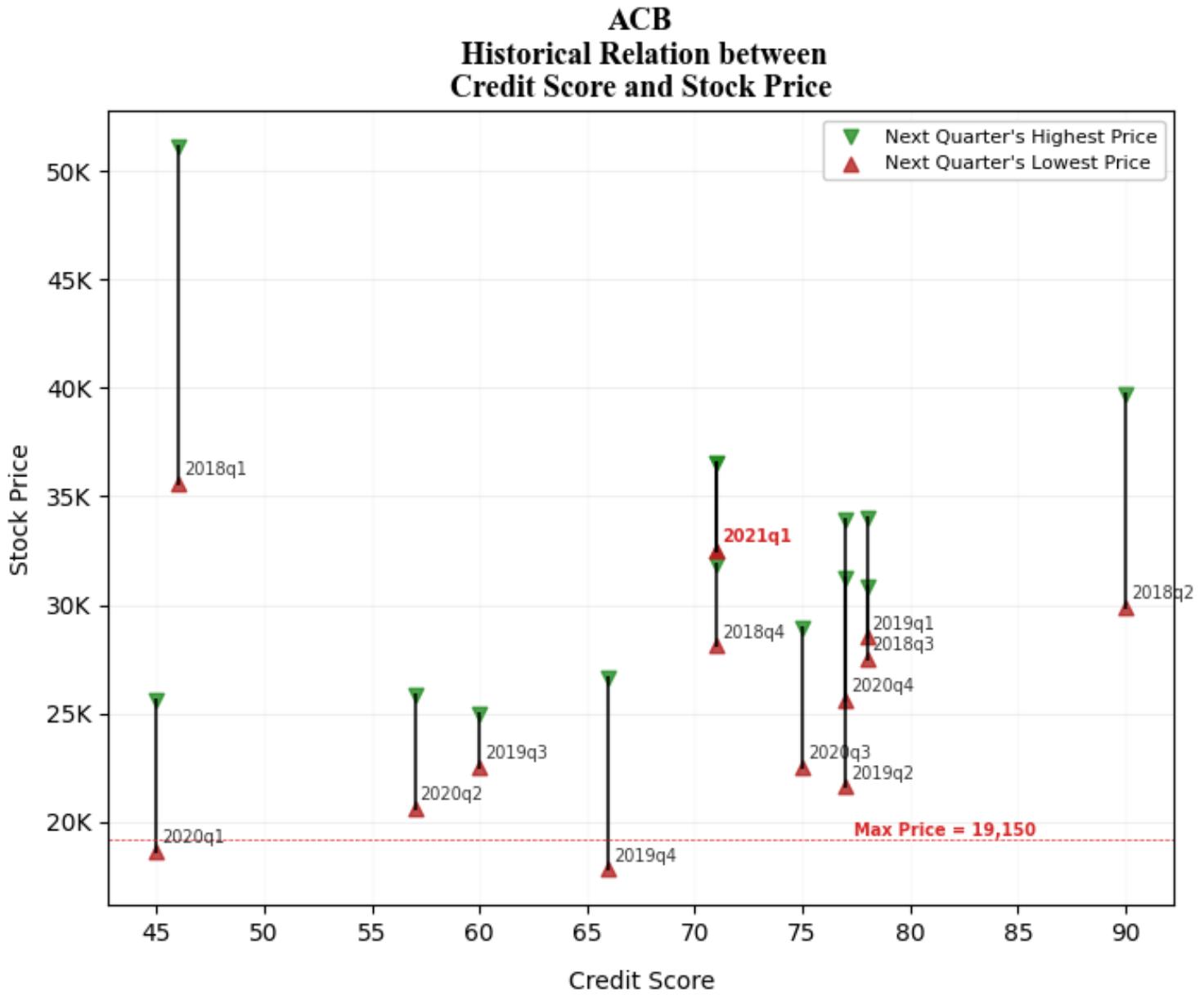
BANKING INDUSTRY

HOSE: ACB - ASIA COMMERCIAL BANK



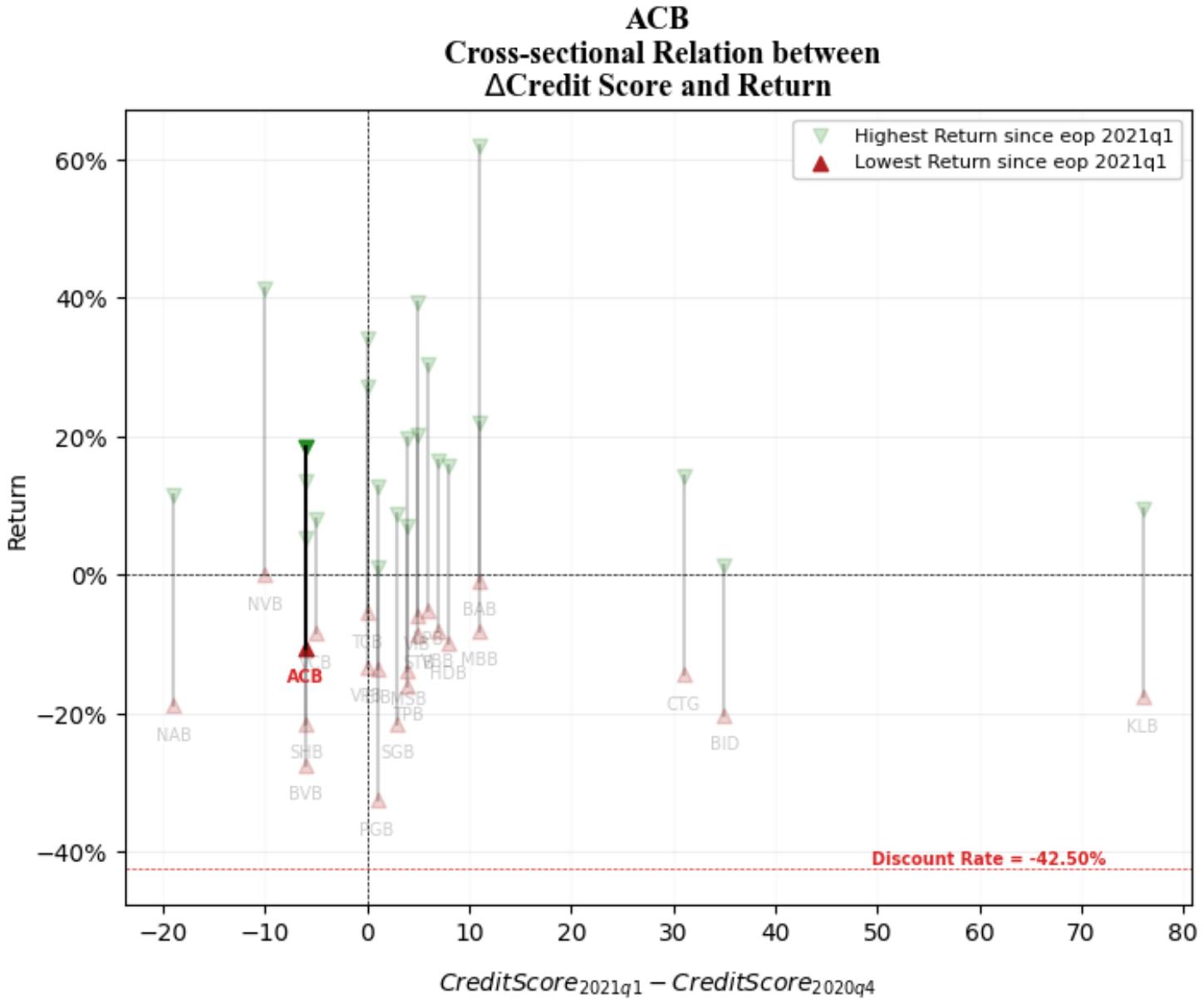
BANKING INDUSTRY

HOSE: ACB -
ASIA COMMERCIAL
BANK



BANKING INDUSTRY

HOSE: ACB -
ASIA COMMERCIAL
BANK



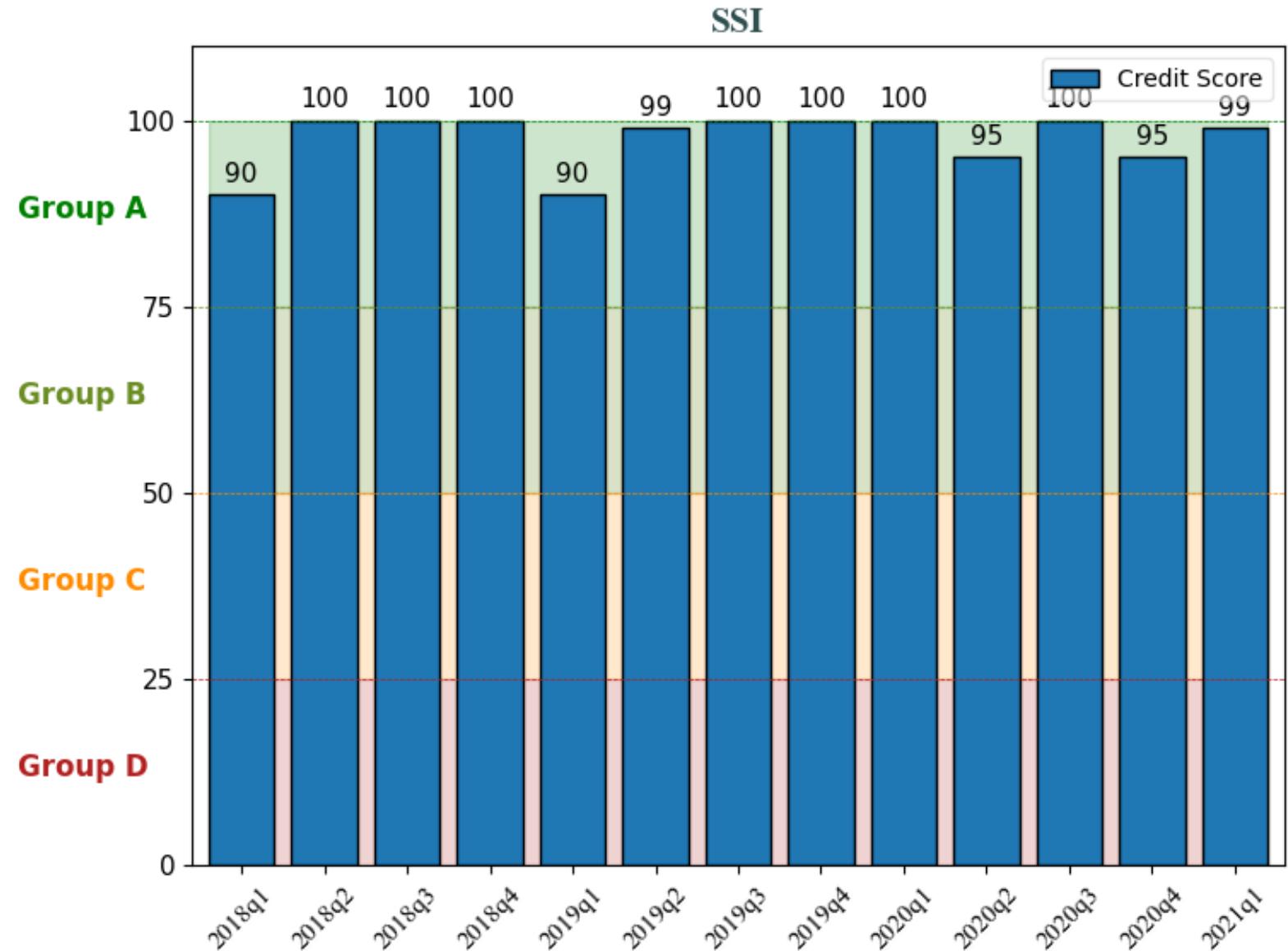
HOSE: SSI

SSI SECURITIES CORPORATION



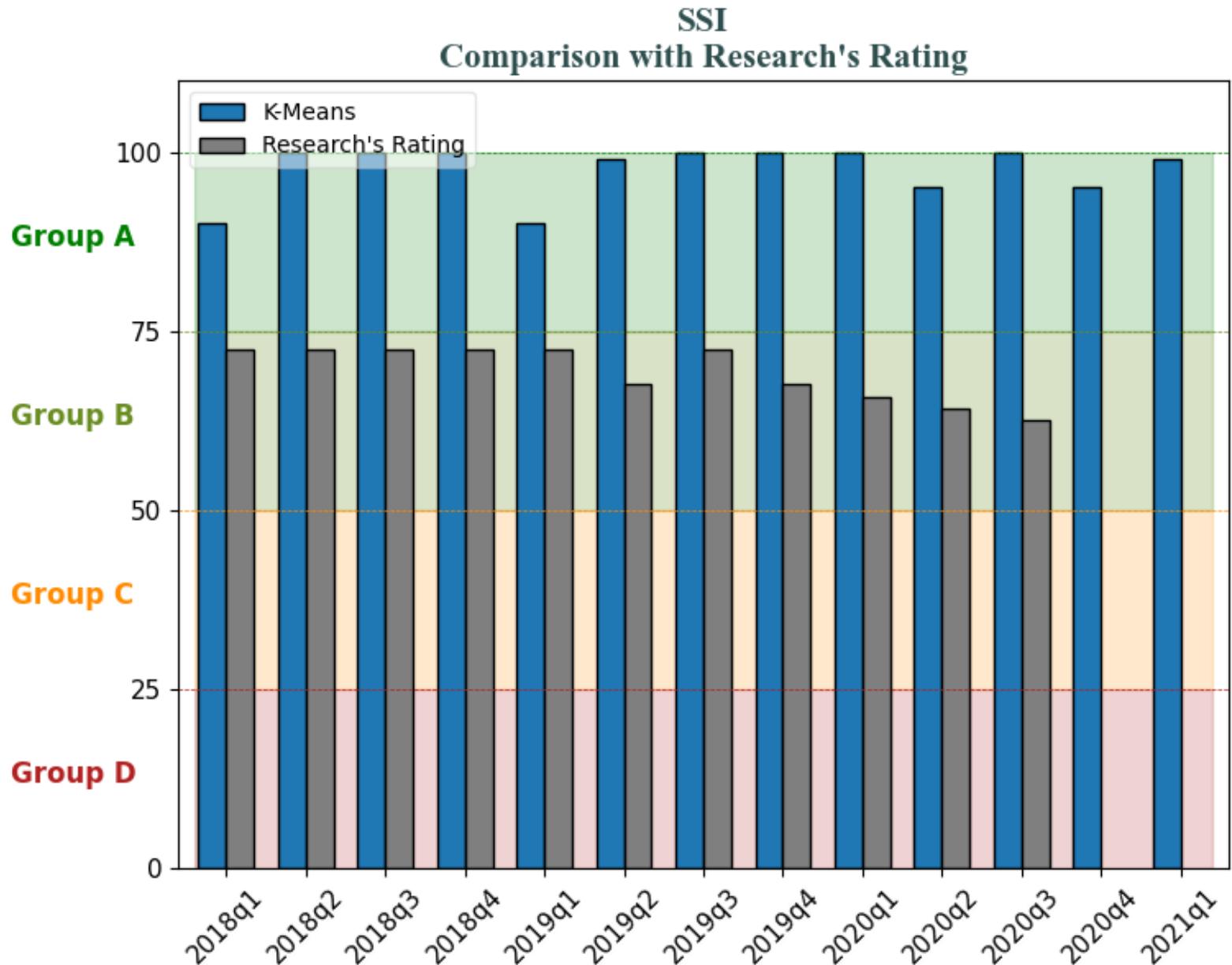
BROKERAGE INDUSTRY

HOSE: SSI -
SSI SECURITIES
CORPORATION



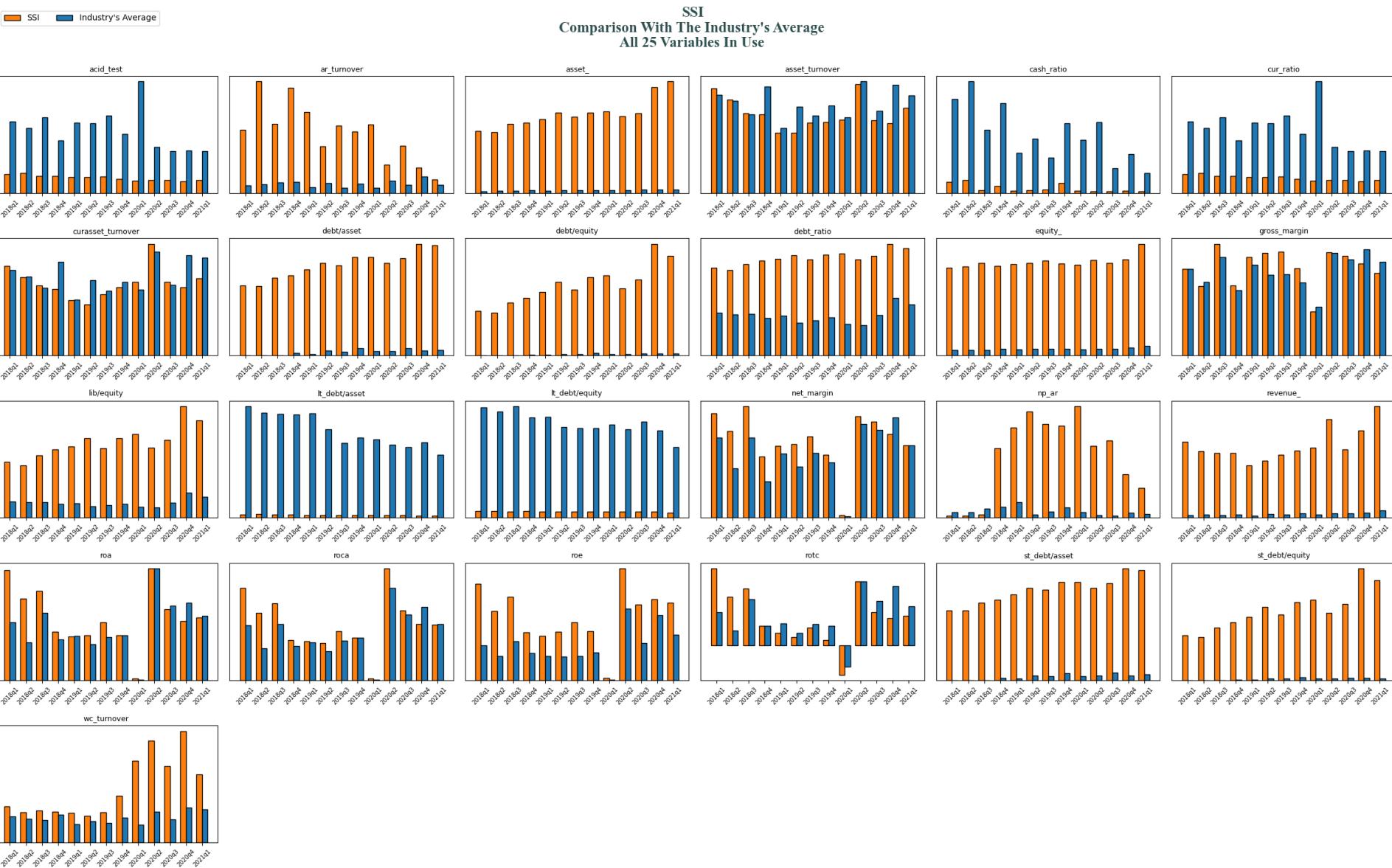
BROKERAGE INDUSTRY

HOSE: SSI -
SSI SECURITIES
CORPORATION



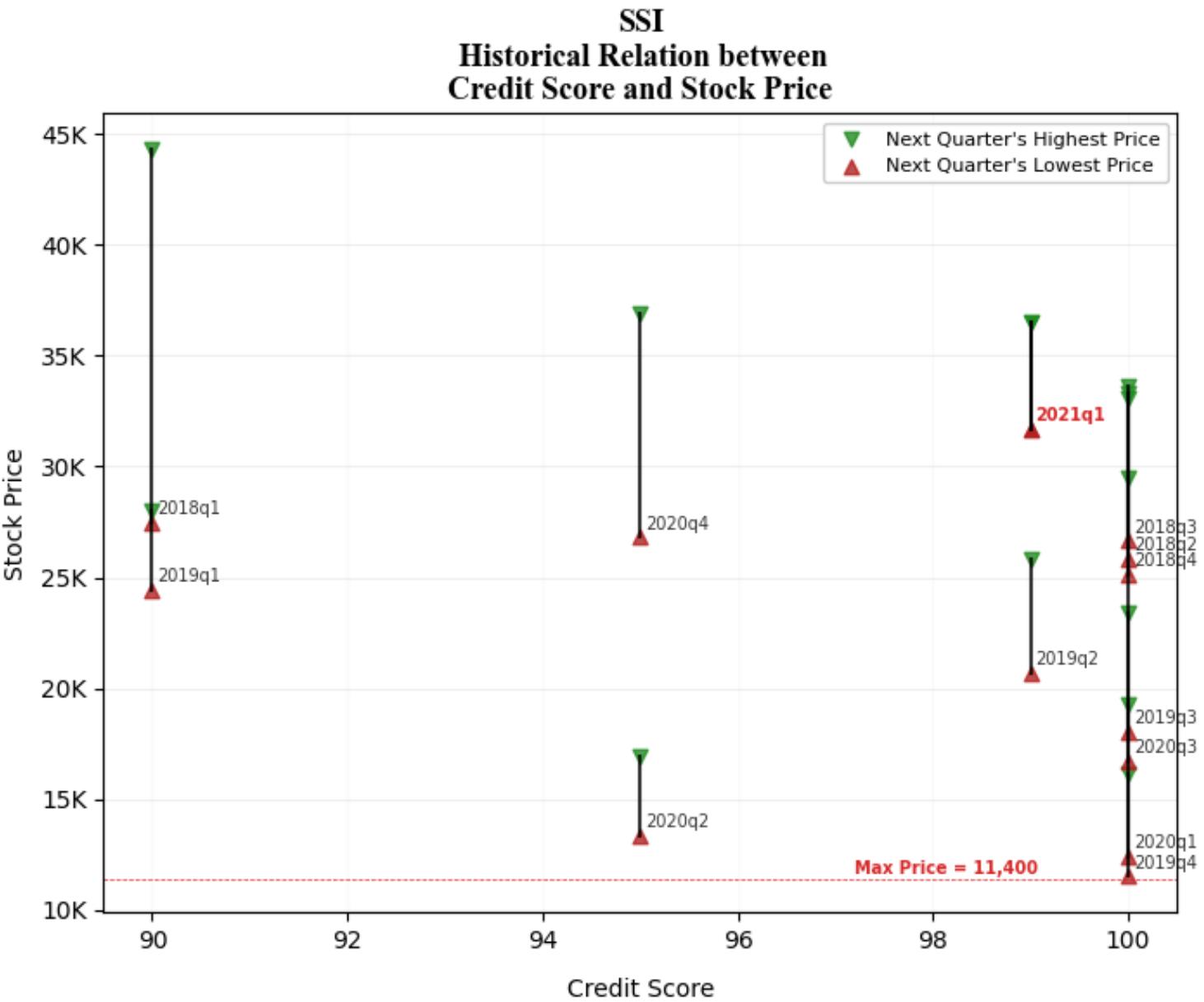
BROKERAGE INDUSTRY

HOSE: SSI - SSI SECURITIES CORPORATION



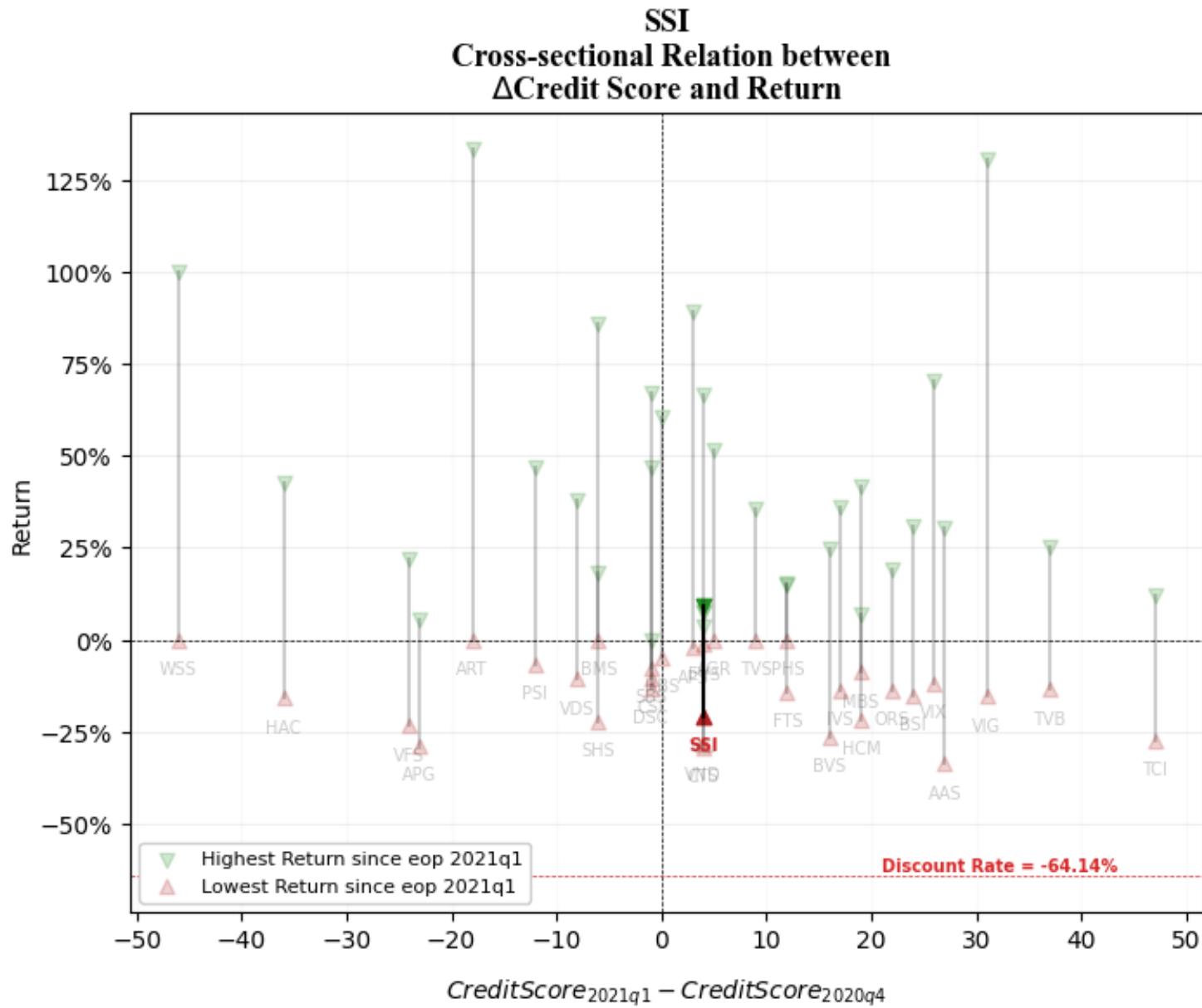
BROKERAGE INDUSTRY

HOSE: SSI -
SSI SECURITIES
CORPORATION



BROKERAGE INDUSTRY

HOSE: SSI -
SSI SECURITIES
CORPORATION



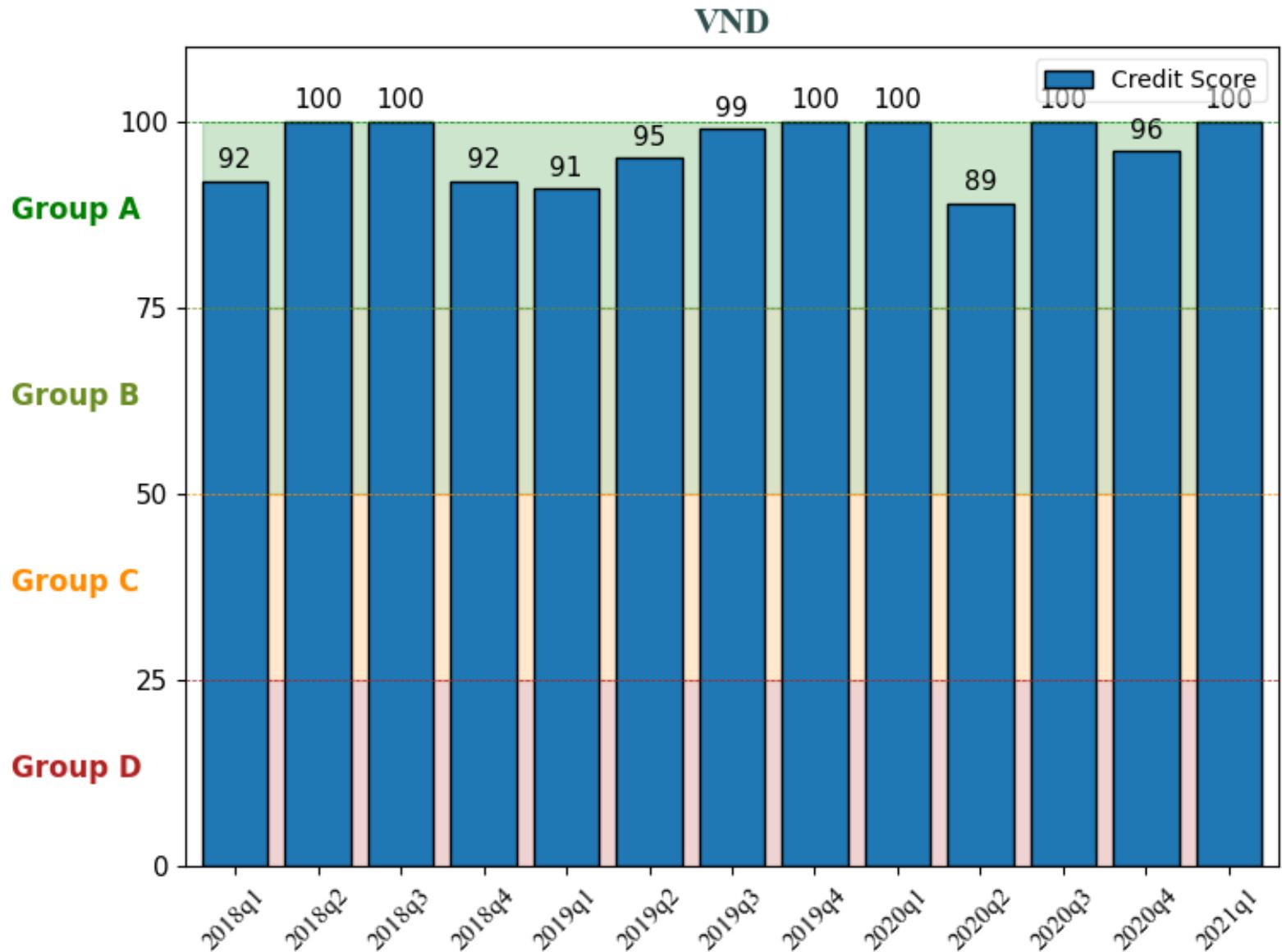
HOSE: VND

VNDIRECT SECURITIES CORPORATION



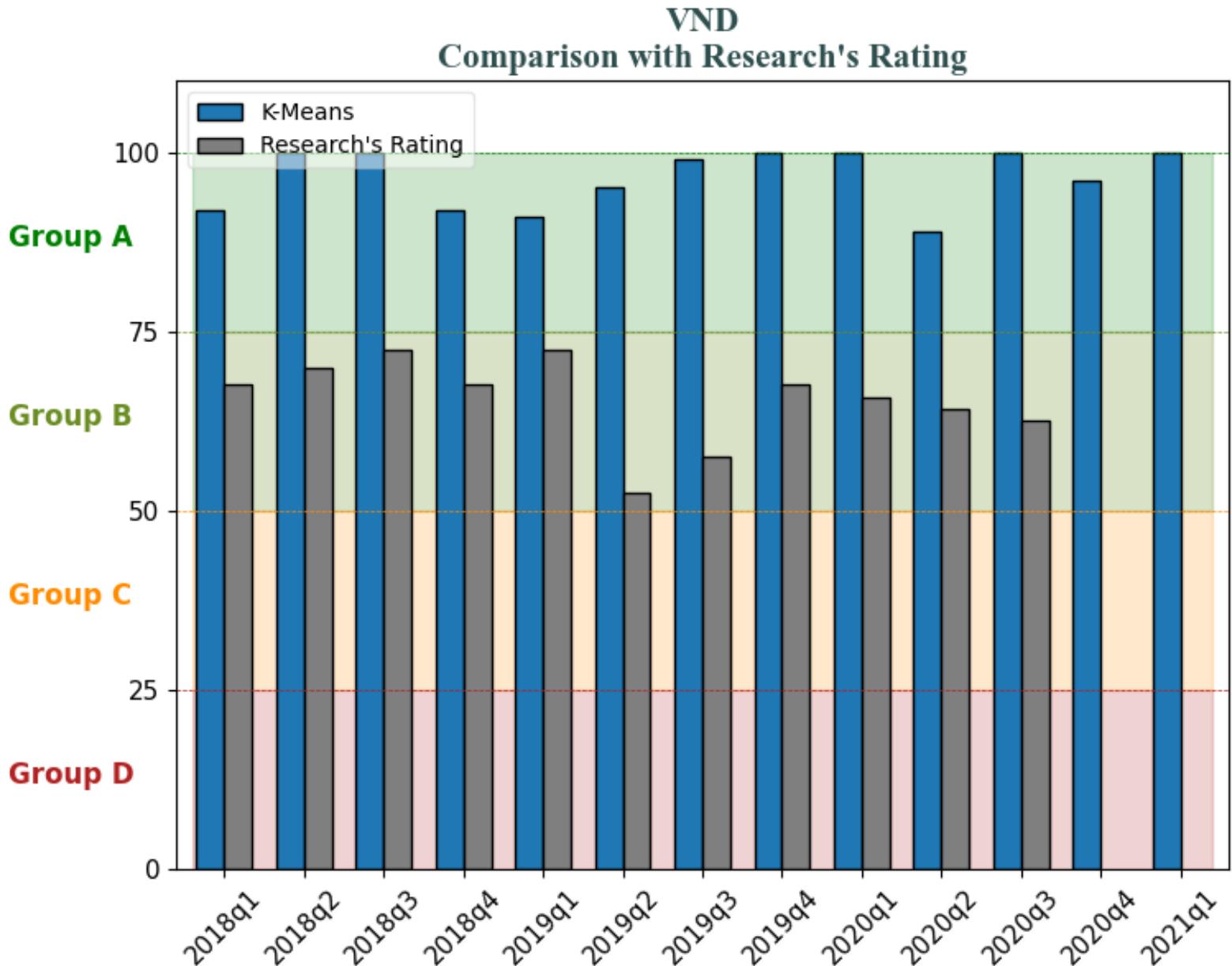
BROKERAGE INDUSTRY

HOSE: VND -
SSI SECURITIES
CORPORATION



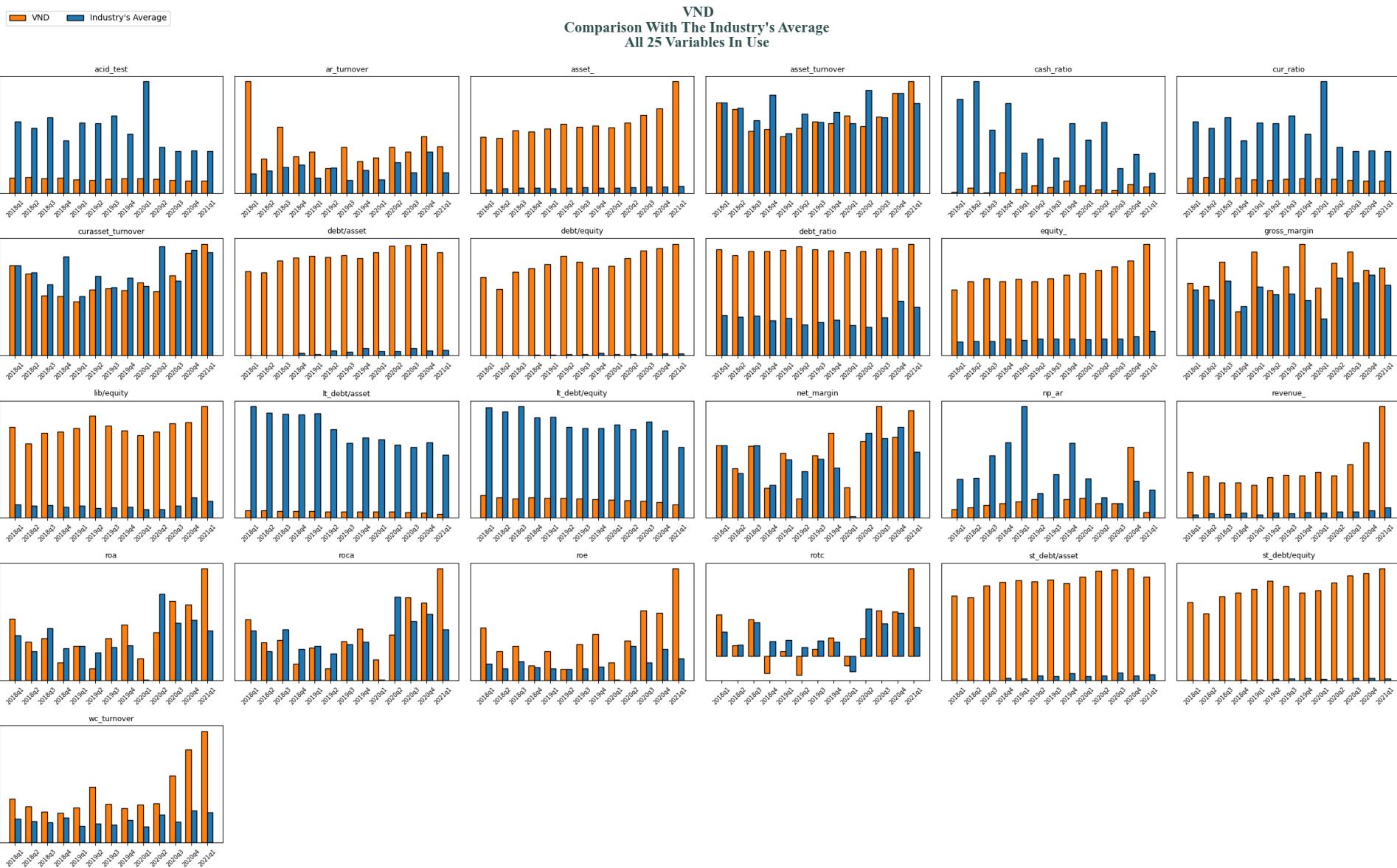
BROKERAGE INDUSTRY

HOSE: VND -
SSI SECURITIES
CORPORATION



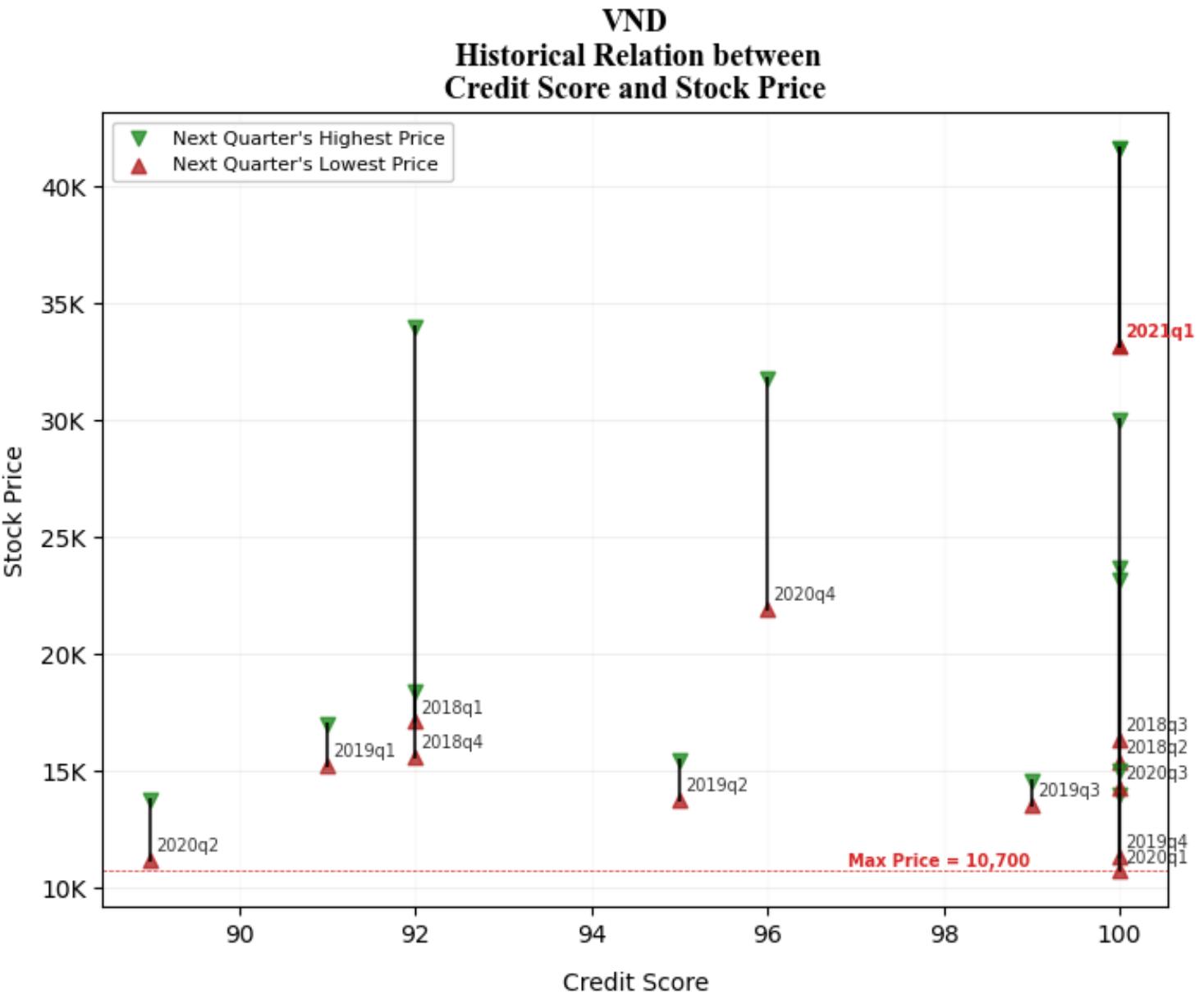
BROKERAGE INDUSTRY

HOSE: VND - SSI SECURITIES CORPORATION



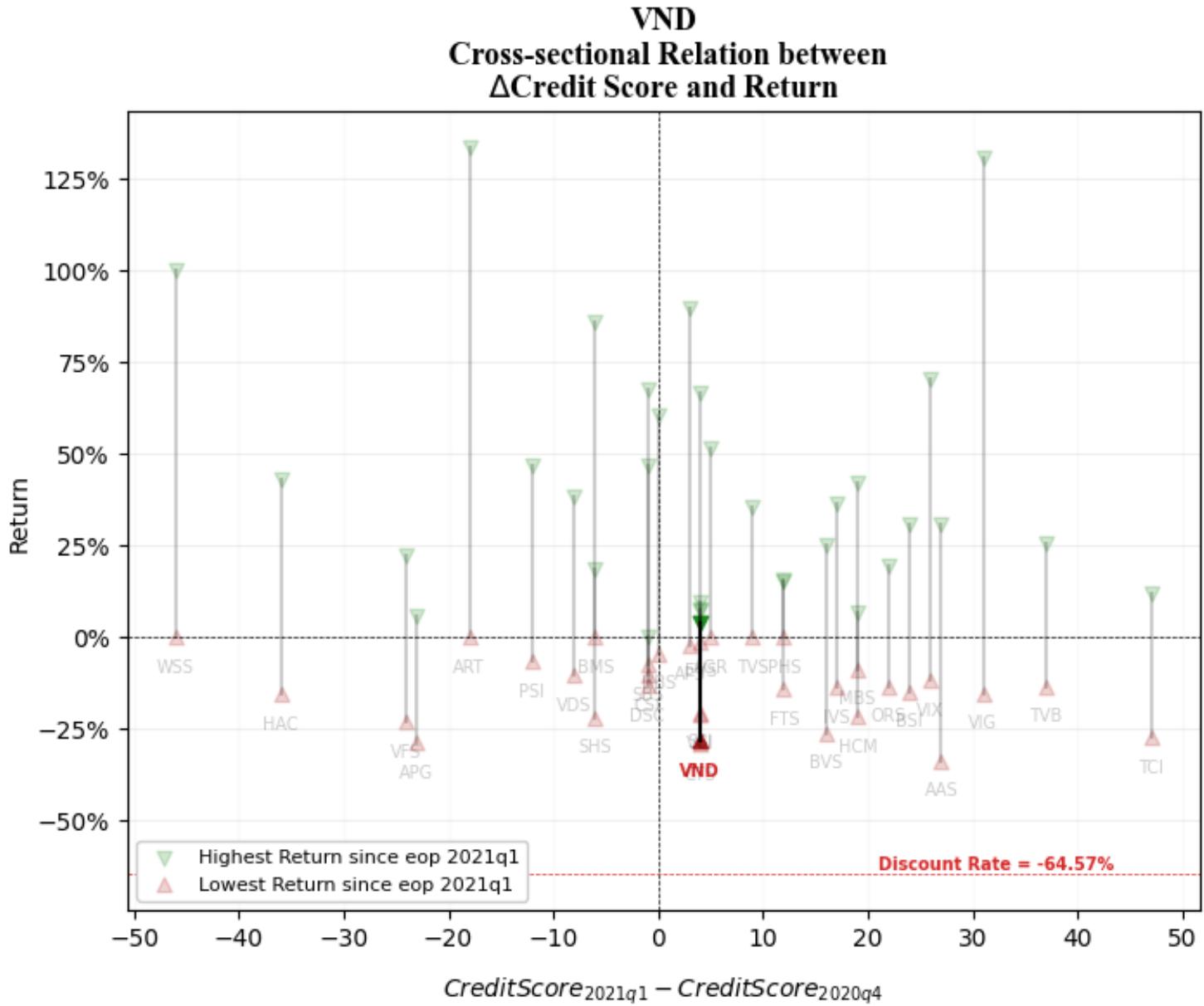
BROKERAGE INDUSTRY

HOSE: VND -
SSI SECURITIES
CORPORATION



BROKERAGE INDUSTRY

HOSE: VND -
SSI SECURITIES
CORPORATION



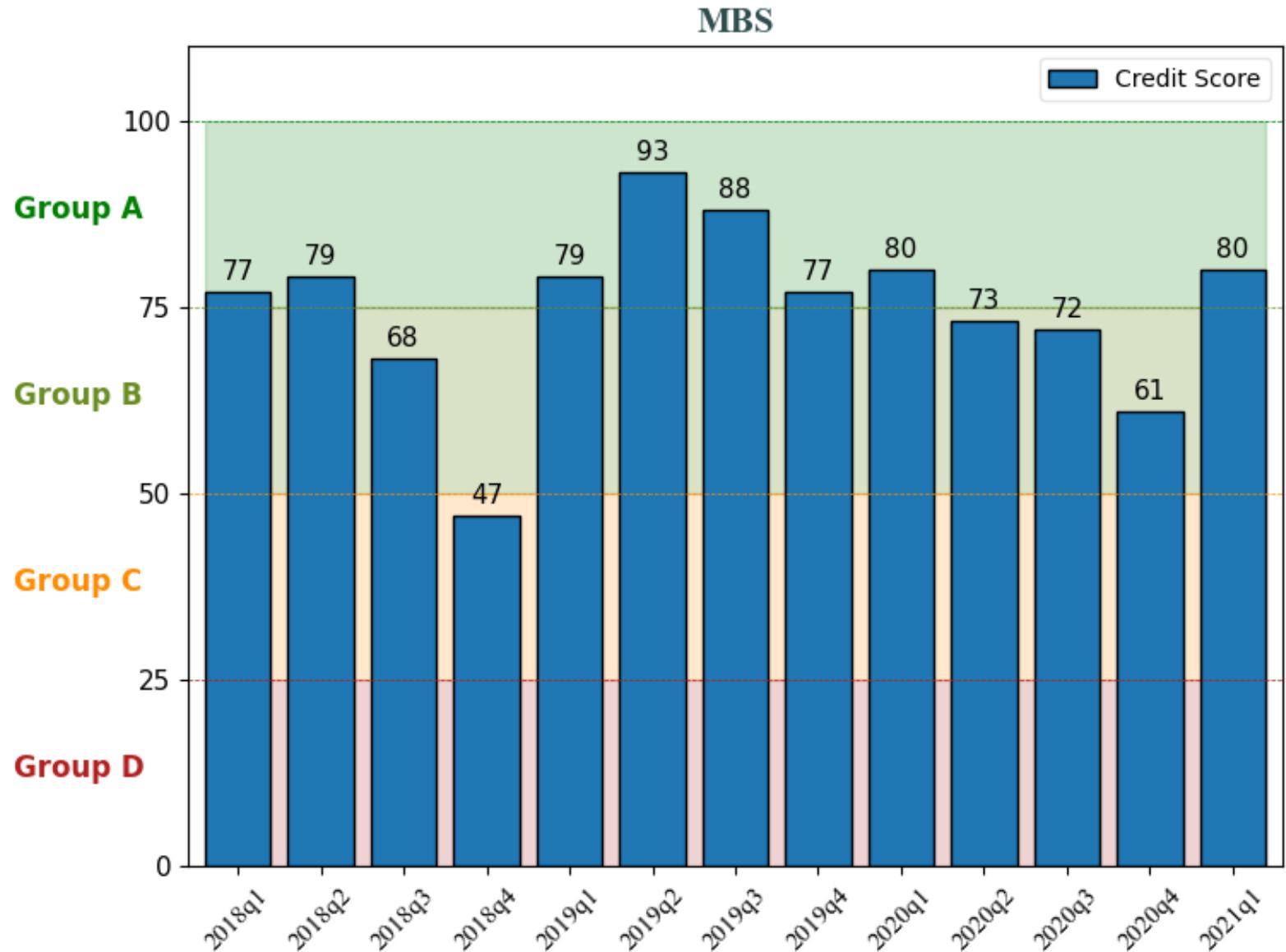


HOSE: MBS

MB SECURITIES JOINT STOCK COMPANY

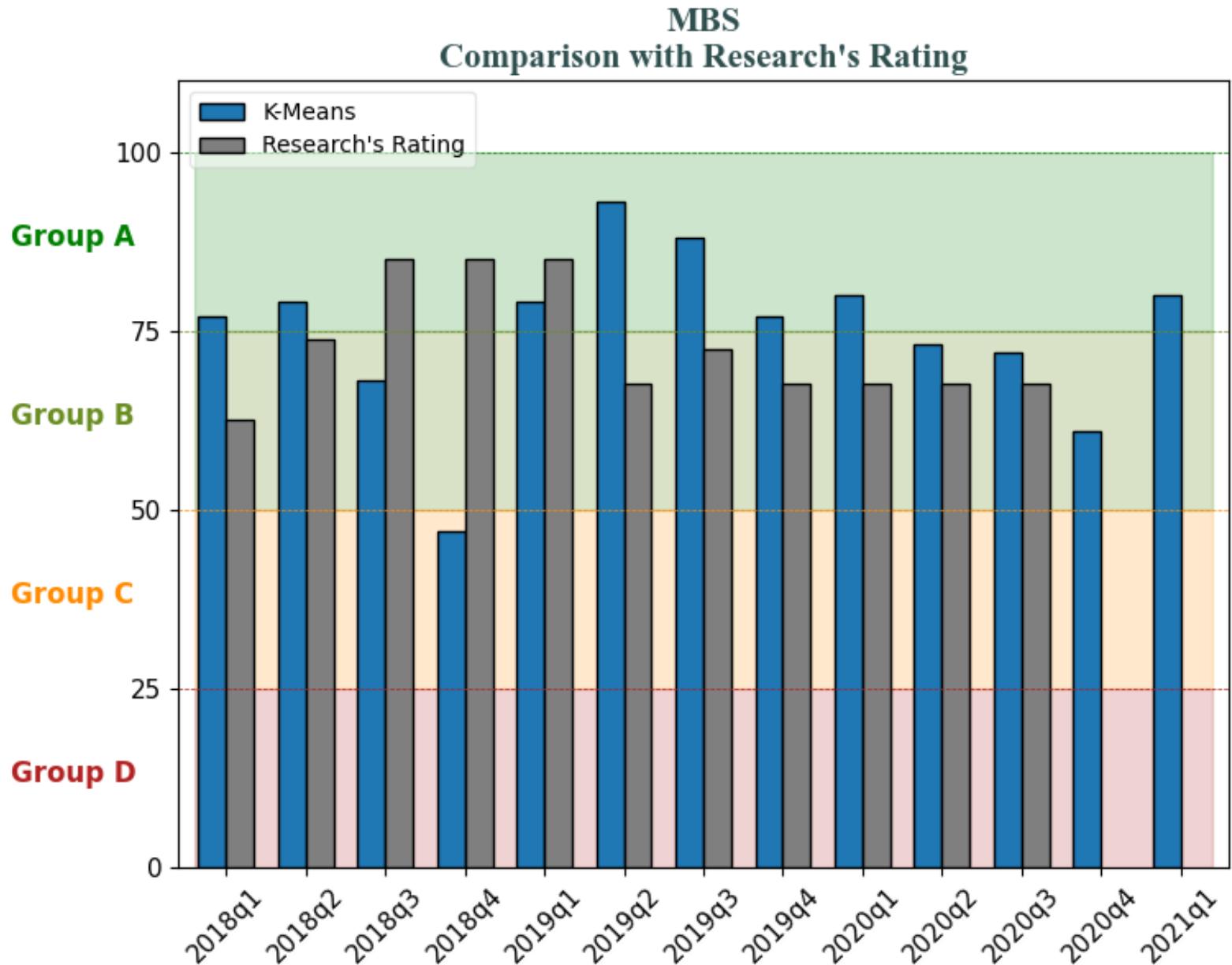
BROKERAGE INDUSTRY

HOSE: MBS -
MB SECURITIES JOINT
STOCK COMPANY



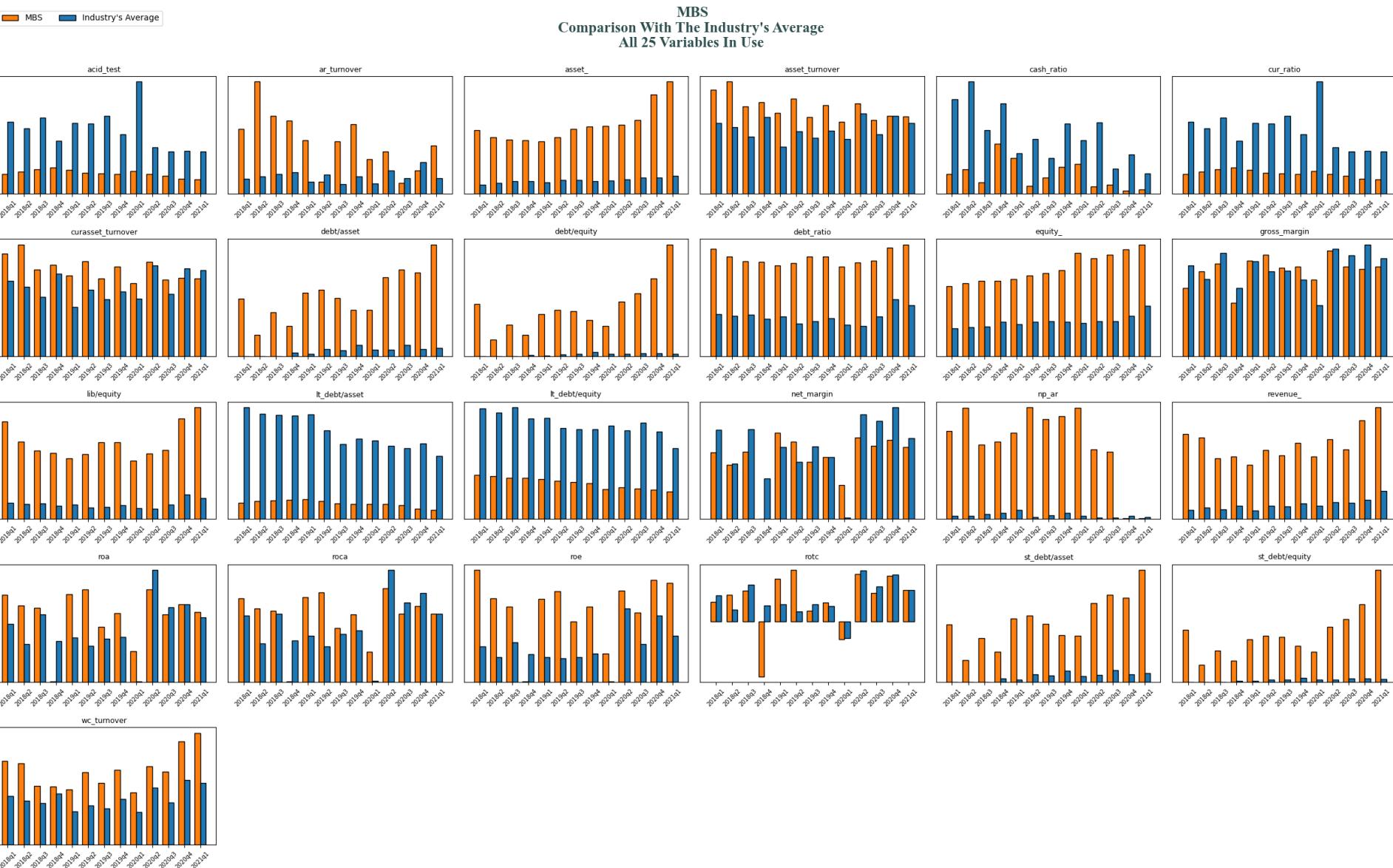
BROKERAGE INDUSTRY

HOSE: MBS -
MB SECURITIES JOINT
STOCK COMPANY



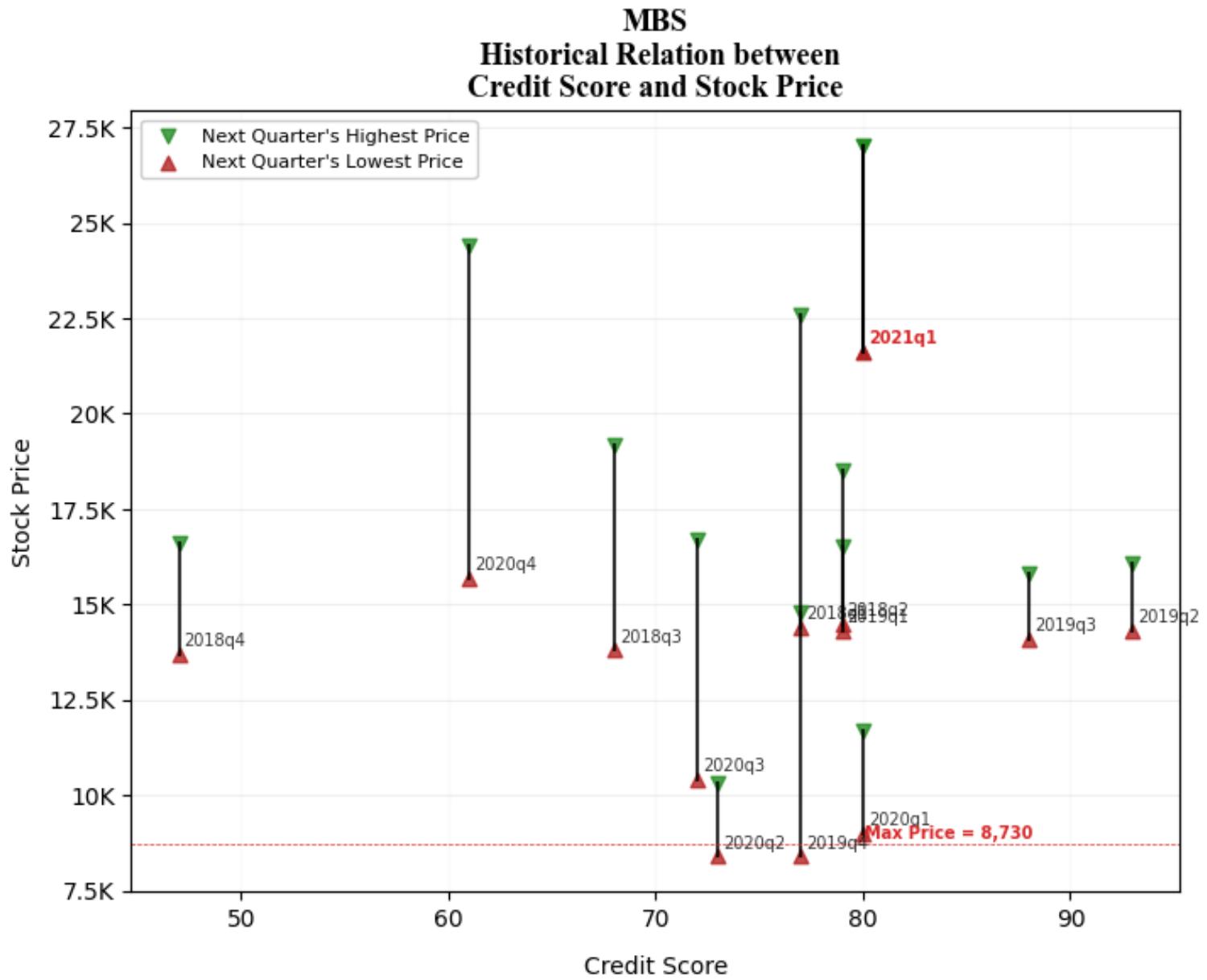
BROKERAGE INDUSTRY

HOSE: MBS - MB SECURITIES JOINT STOCK COMPANY



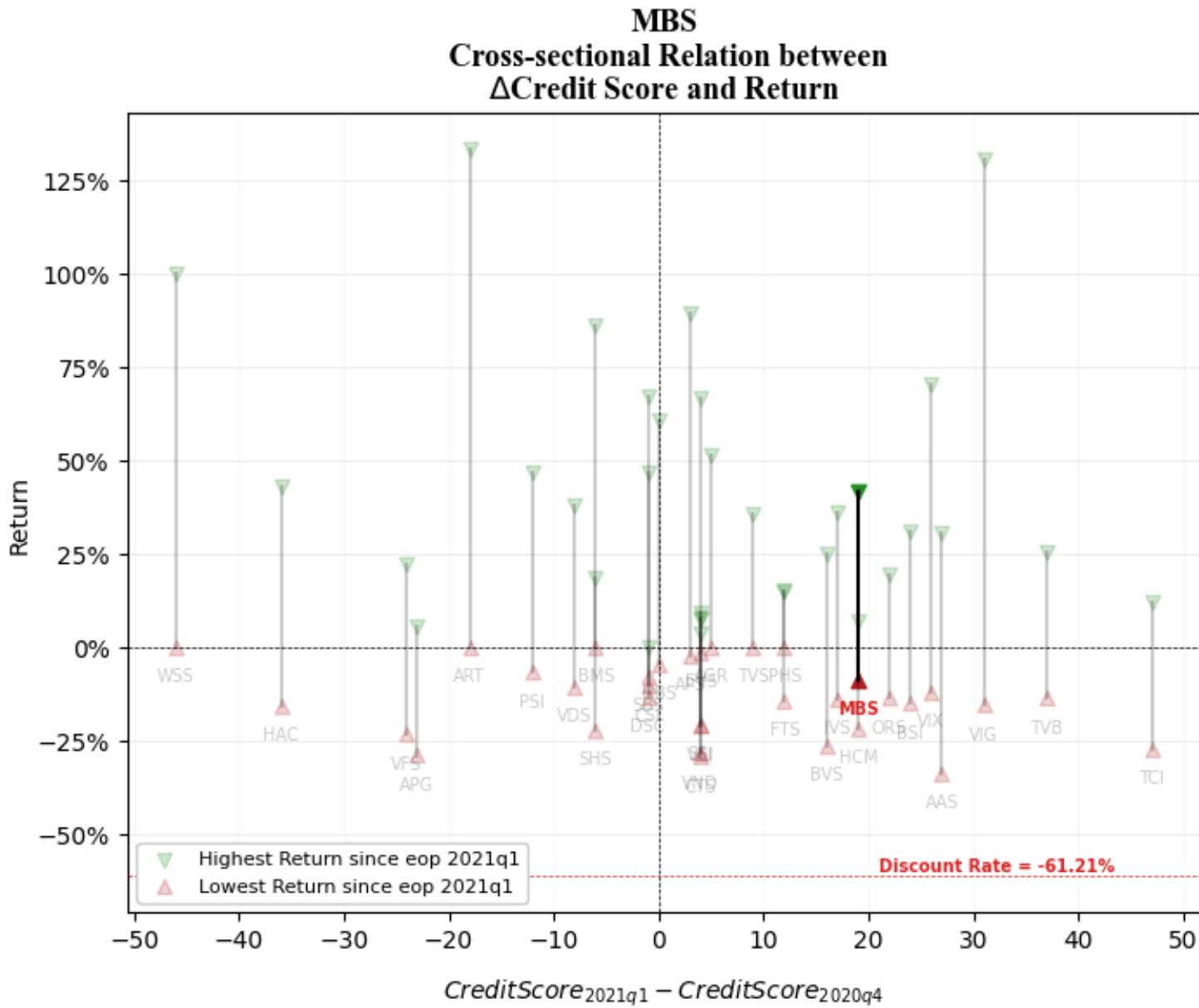
BROKERAGE INDUSTRY

HOSE: MBS -
MB SECURITIES JOINT
STOCK COMPANY



BROKERAGE INDUSTRY

HOSE: MBS -
MB SECURITIES JOINT
STOCK COMPANY



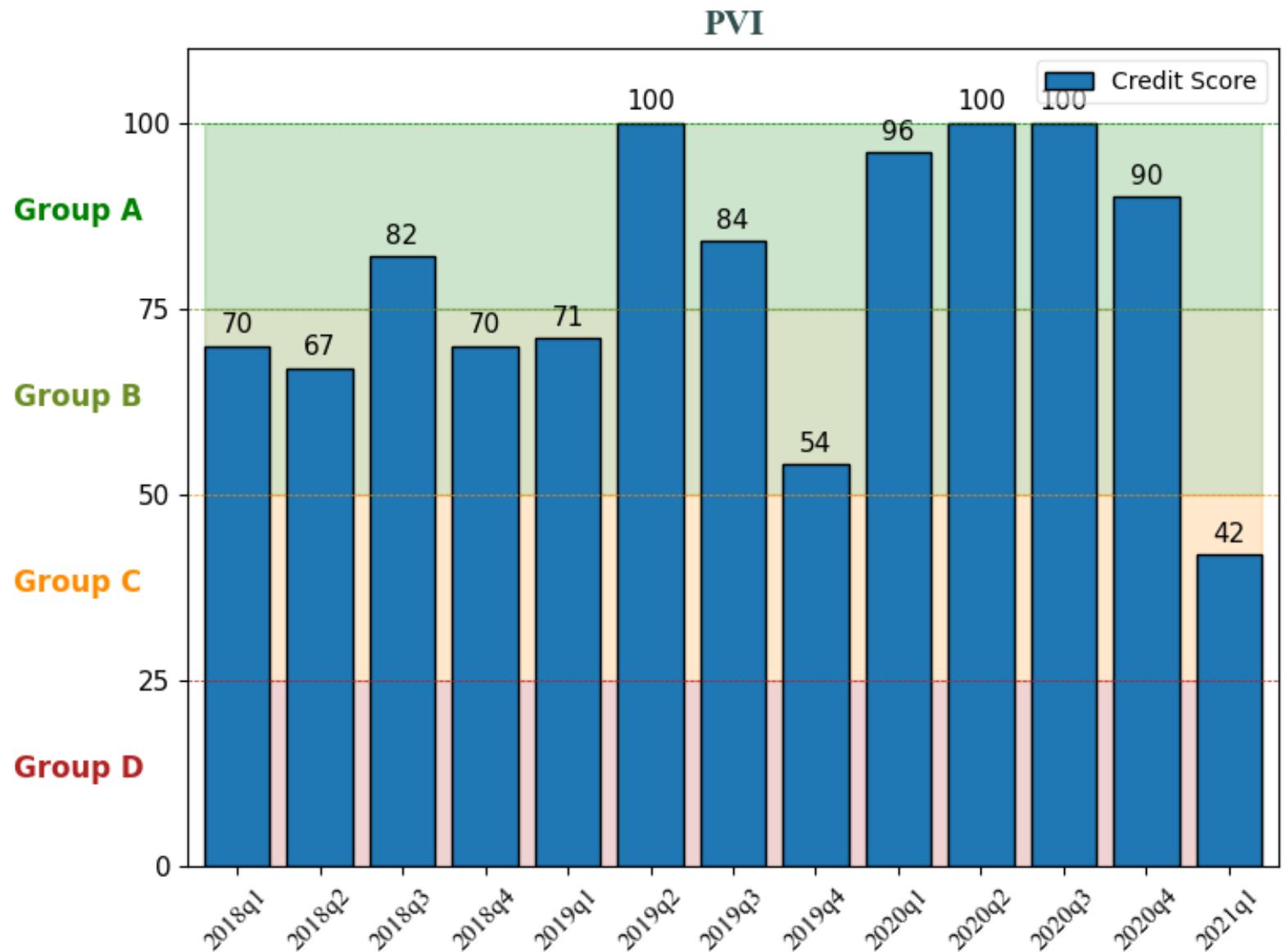
HNX: PVI

PVI HOLDINGS



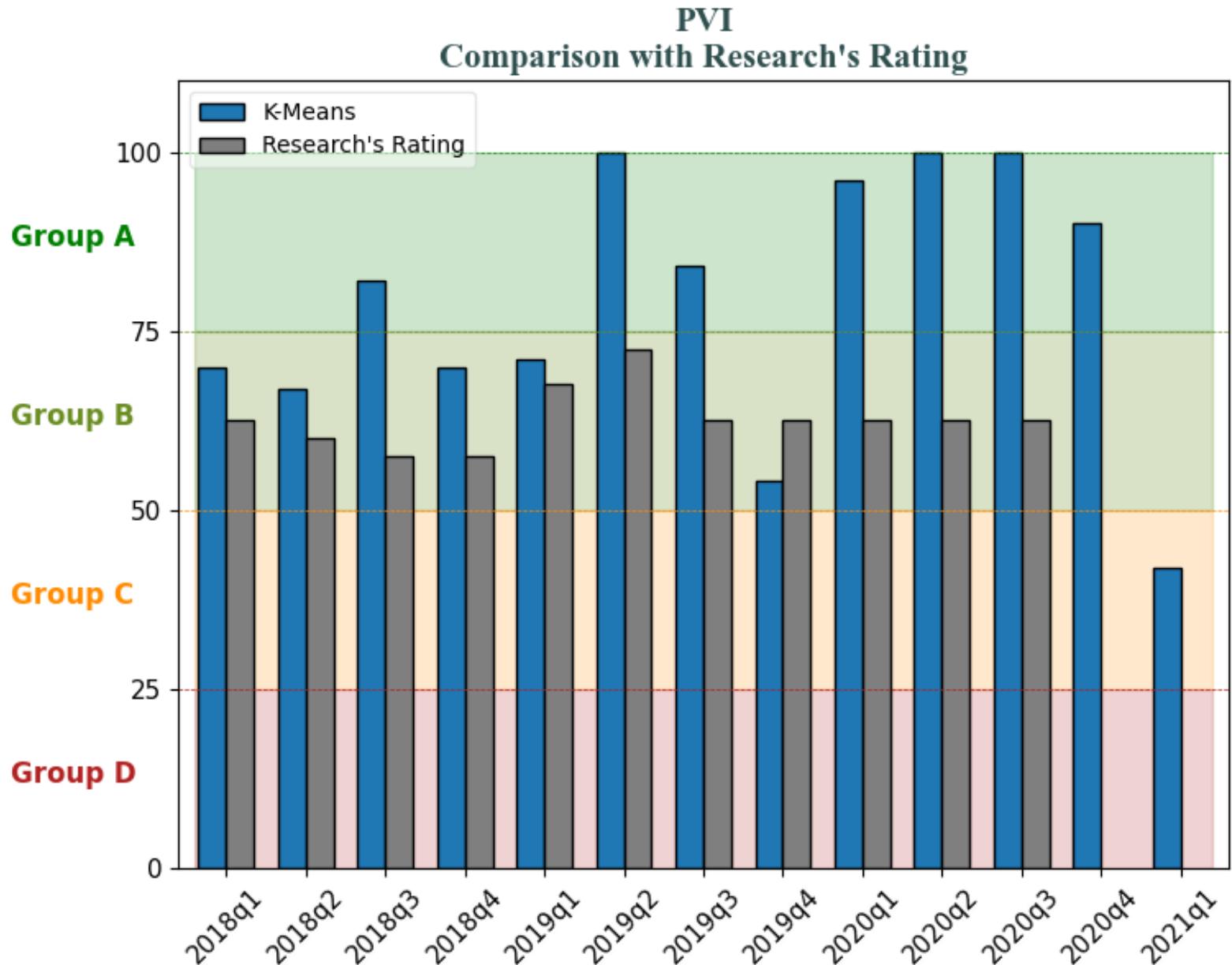
BROKERAGE INDUSTRY

HNX: PVI - PVI HOLDINGS



BROKERAGE INDUSTRY

HNX: PVI - PVI HOLDINGS

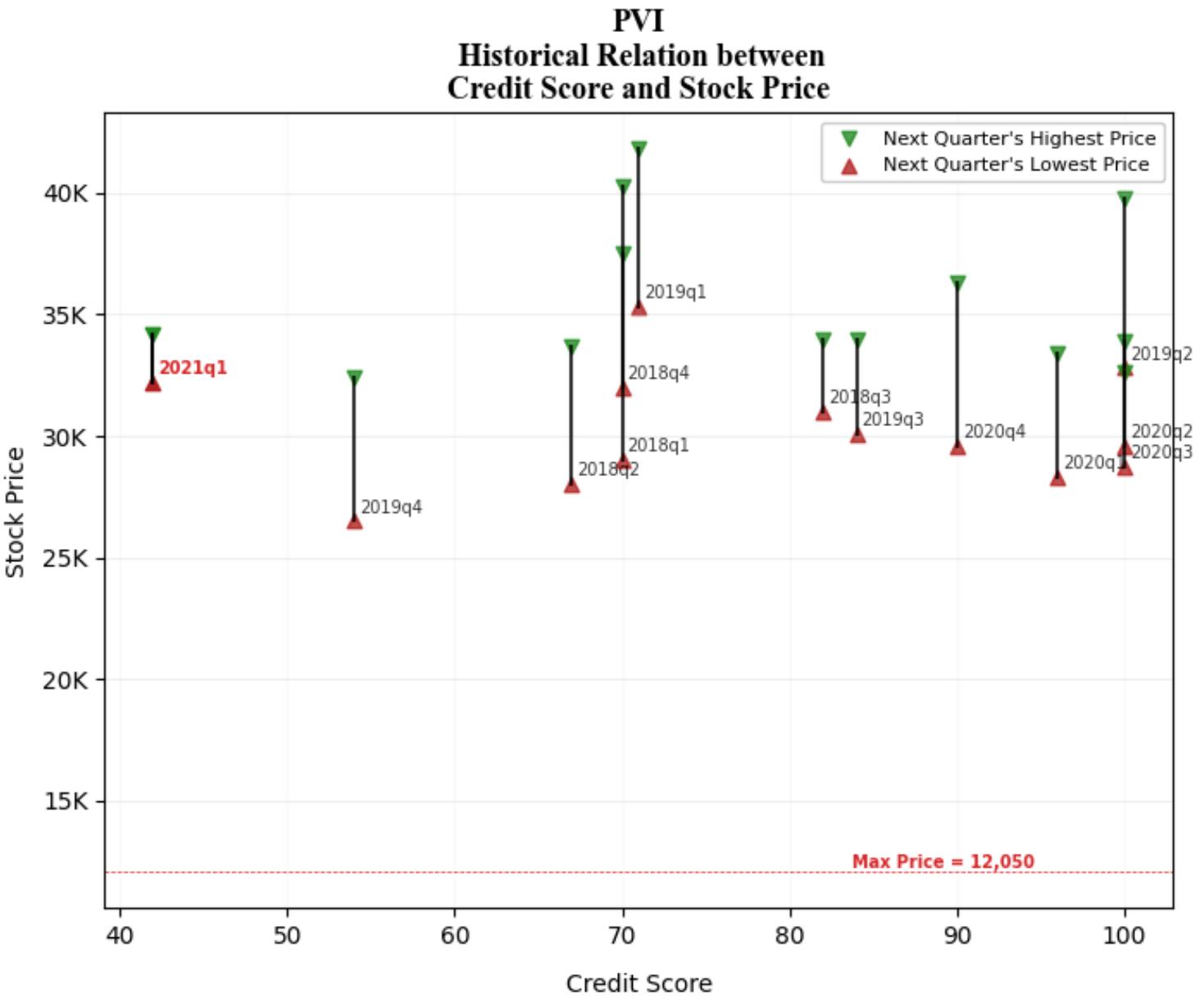


BROKERAGE INDUSTRY HNX: PVI - PVI HOLDINGS



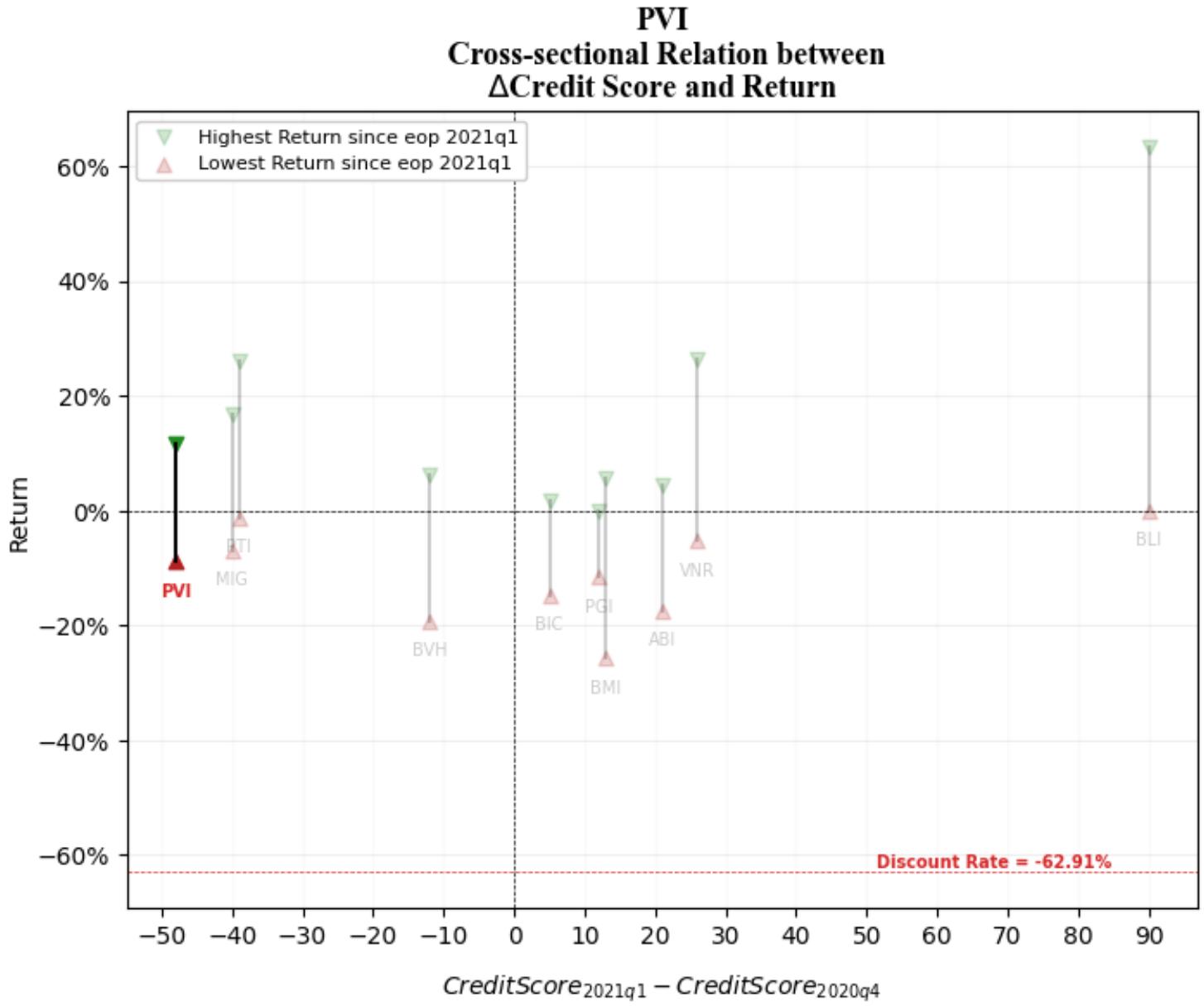
BROKERAGE INDUSTRY

HNX: PVI -
PVI HOLDINGS



BROKERAGE INDUSTRY

HNX: PVI -
PVI HOLDINGS



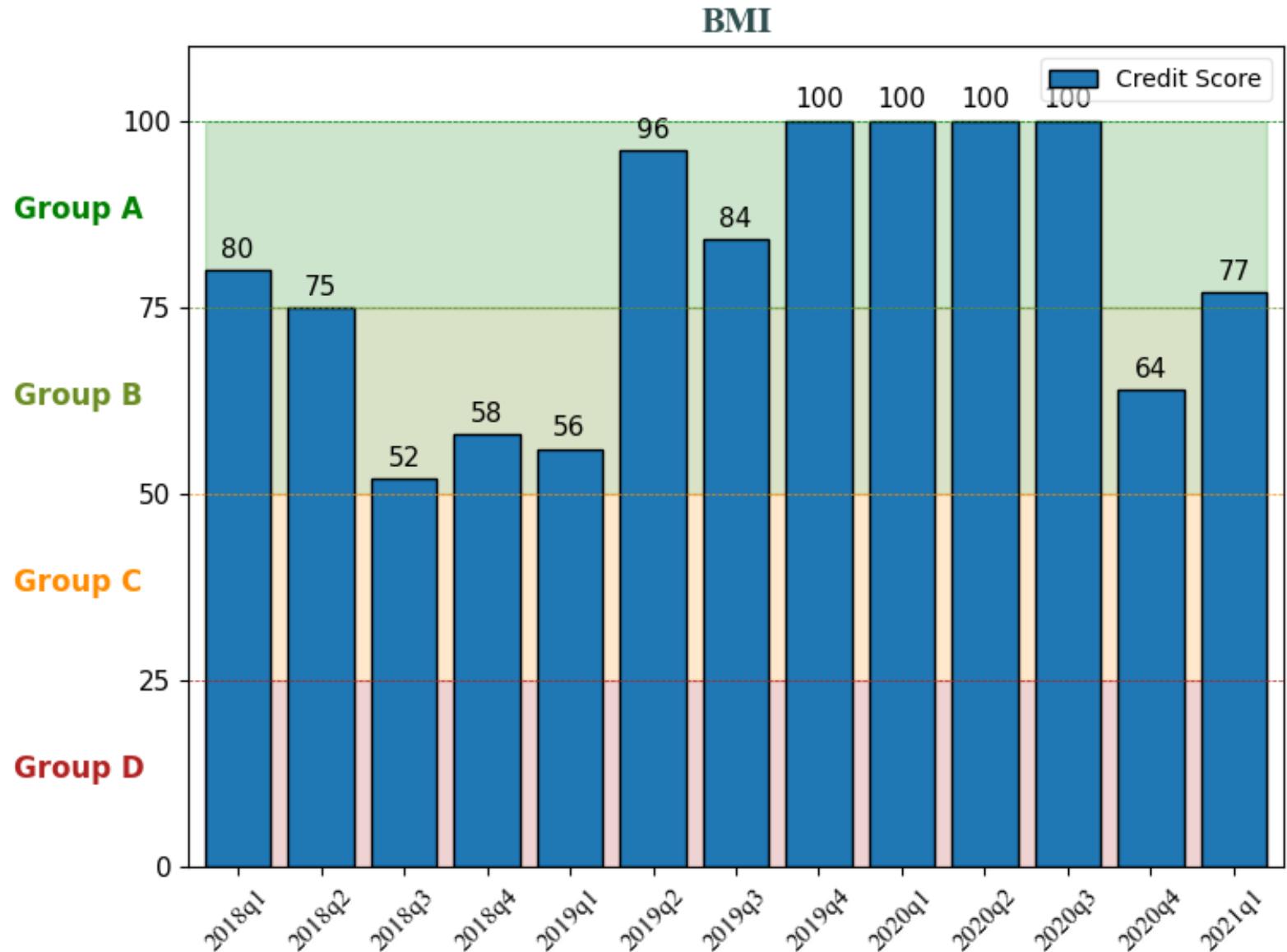


HOSE: BMI

BAO MINH INSURANCE CORPORATION

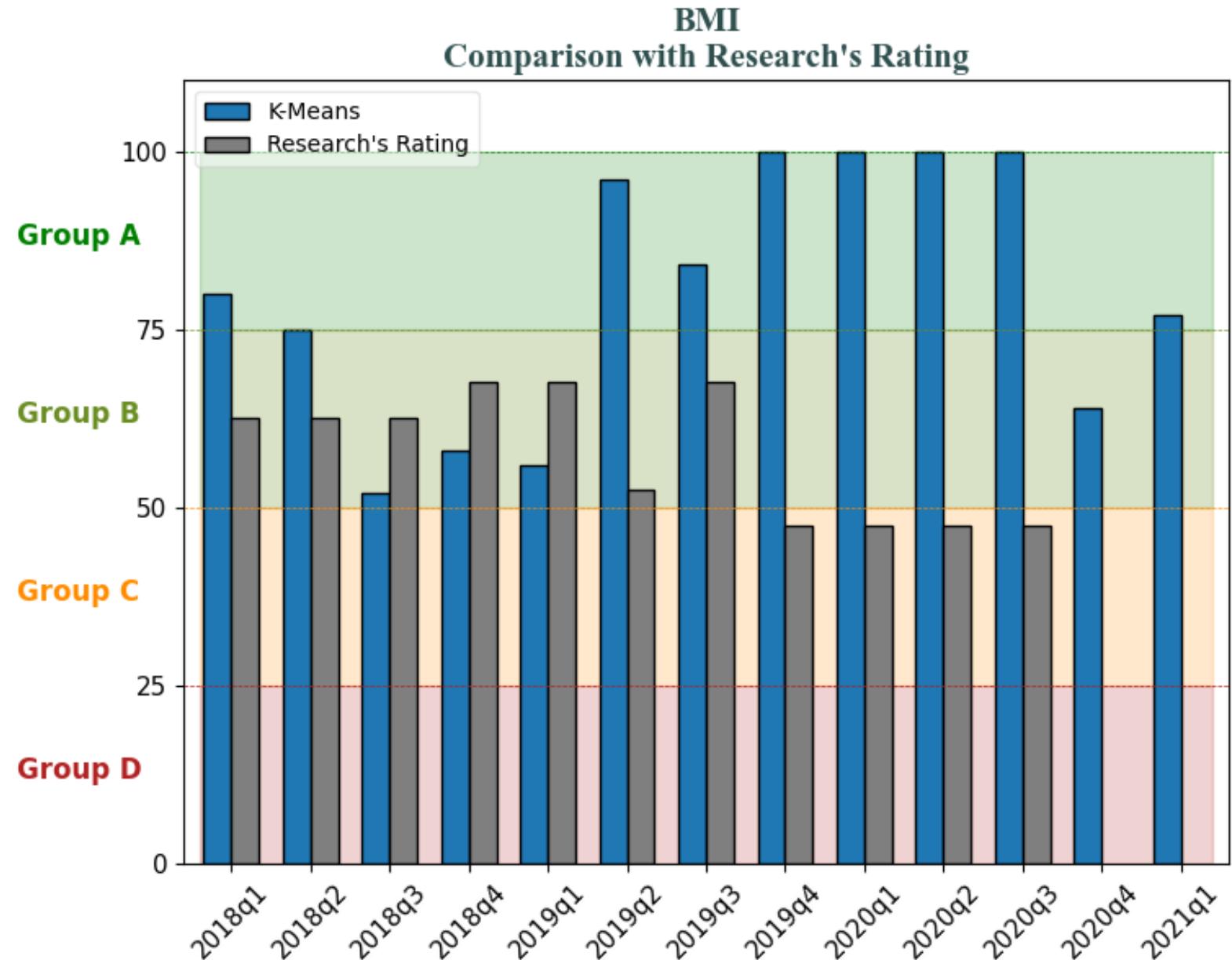
BROKERAGE INDUSTRY

HOSE: BMI -
BAO MINH INSURANCE
CORPORATION



BROKERAGE INDUSTRY

HOSE: BMI -
BAO MINH INSURANCE
CORPORATION



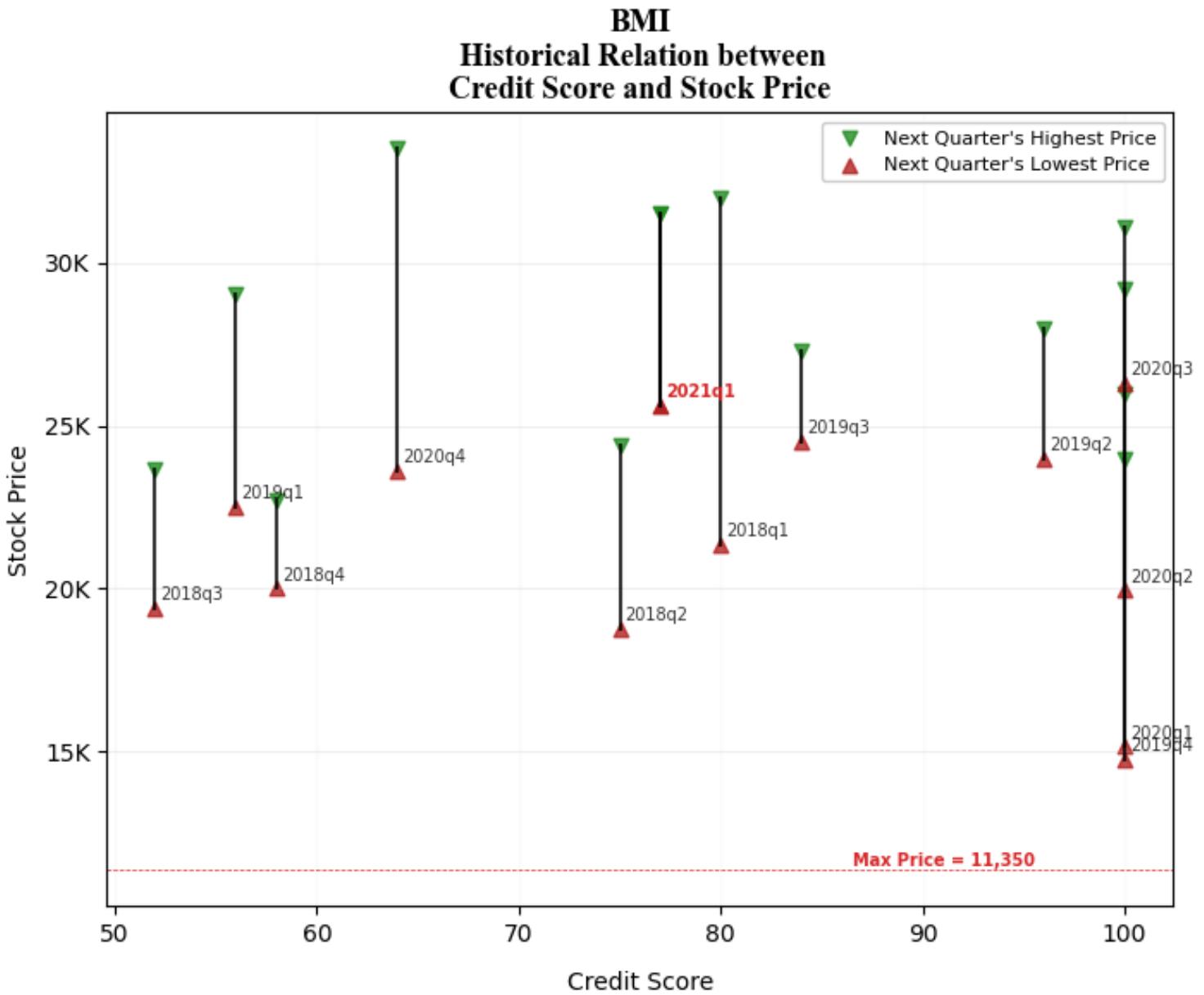
BROKERAGE INDUSTRY

HOSE: BMI - BAO MINH INSURANCE CORPORATION



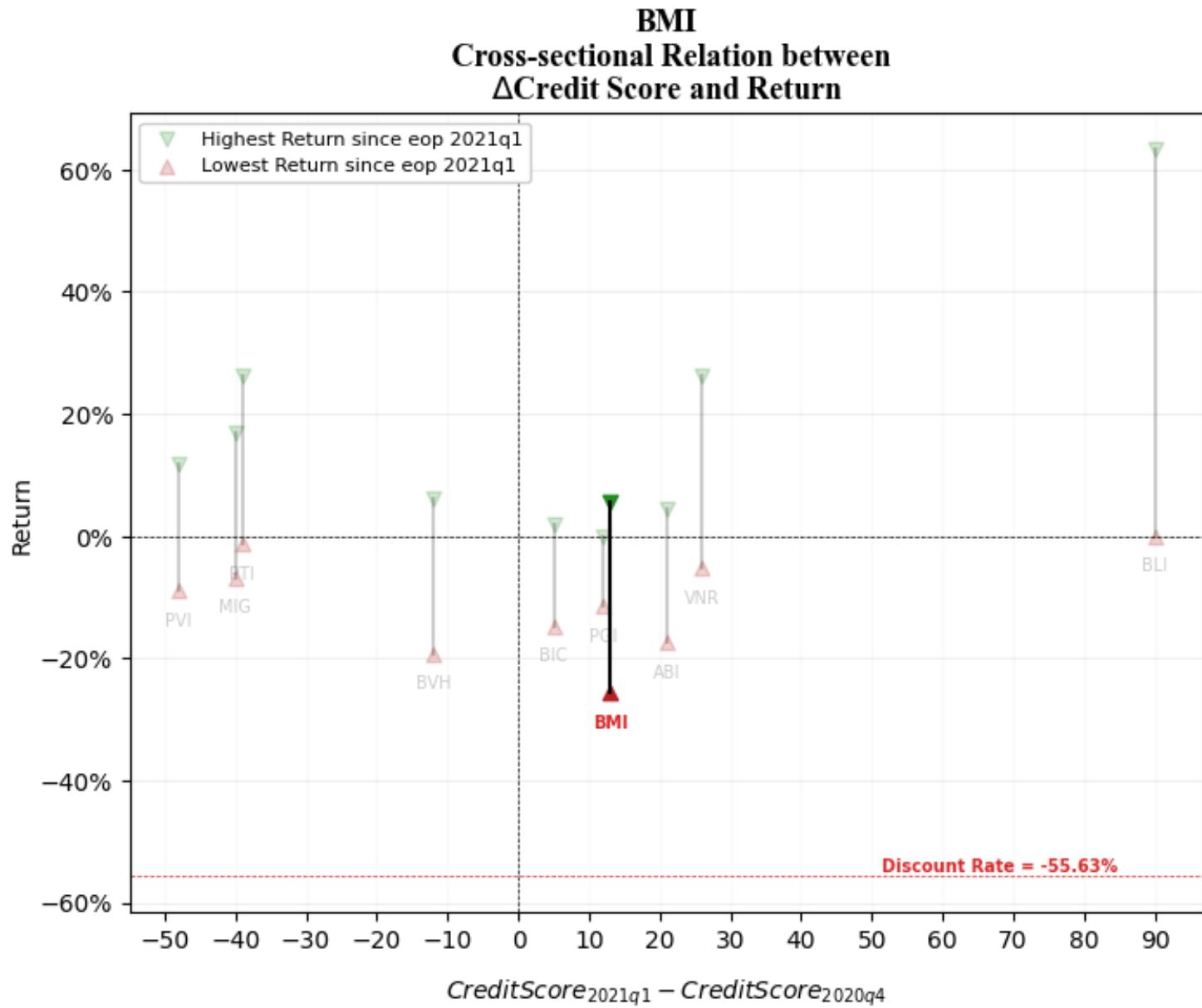
BROKERAGE INDUSTRY

HOSE: BMI -
BAO MINH INSURANCE
CORPORATION



BROKERAGE INDUSTRY

HOSE: BMI -
BAO MINH INSURANCE
CORPORATION





STOCK CRASH INDICATOR

HOW WELL THIS MODEL ALERTED DYING COMPANIES?



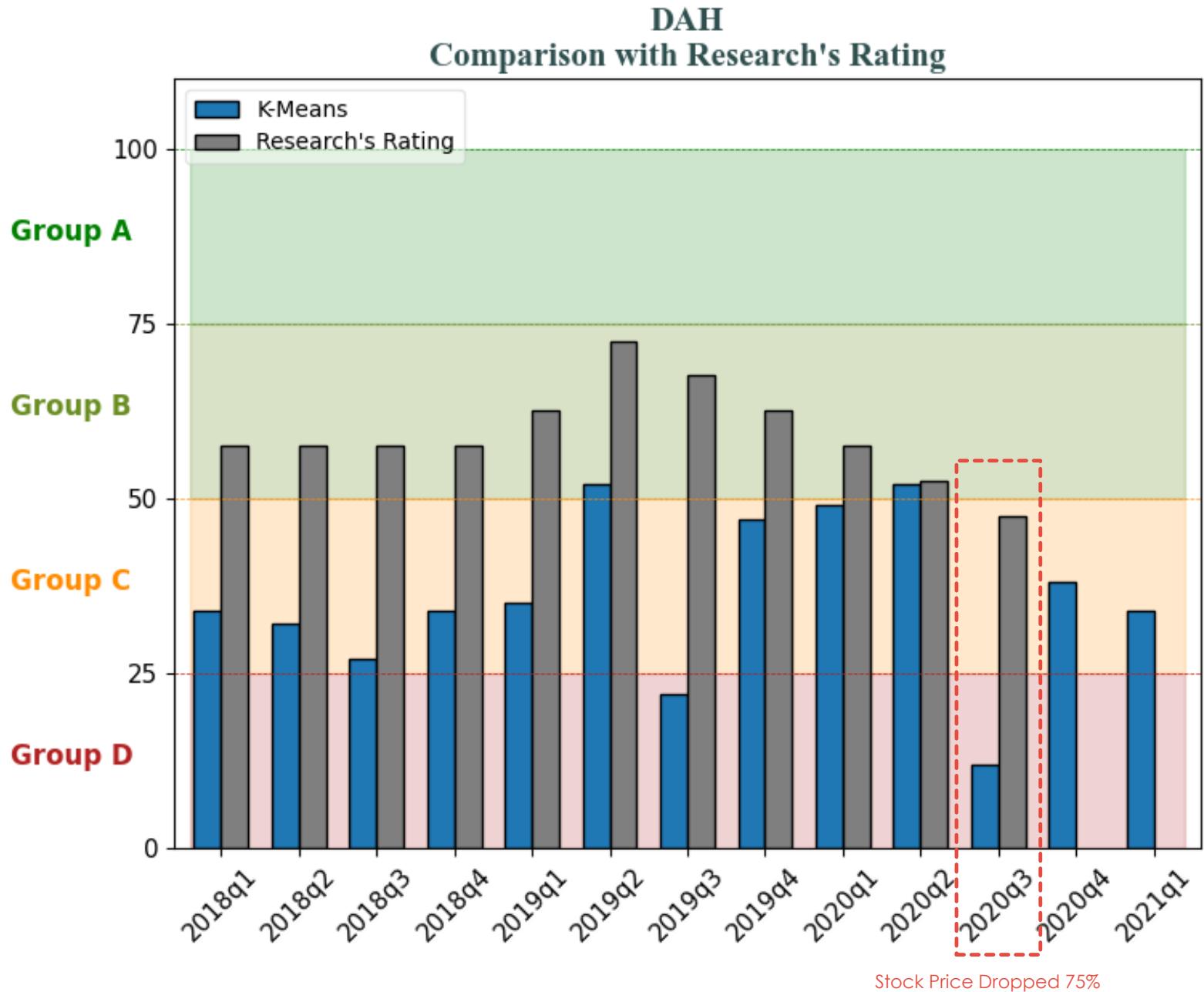
HOSE: DAH

DONG A HOTEL GROUP



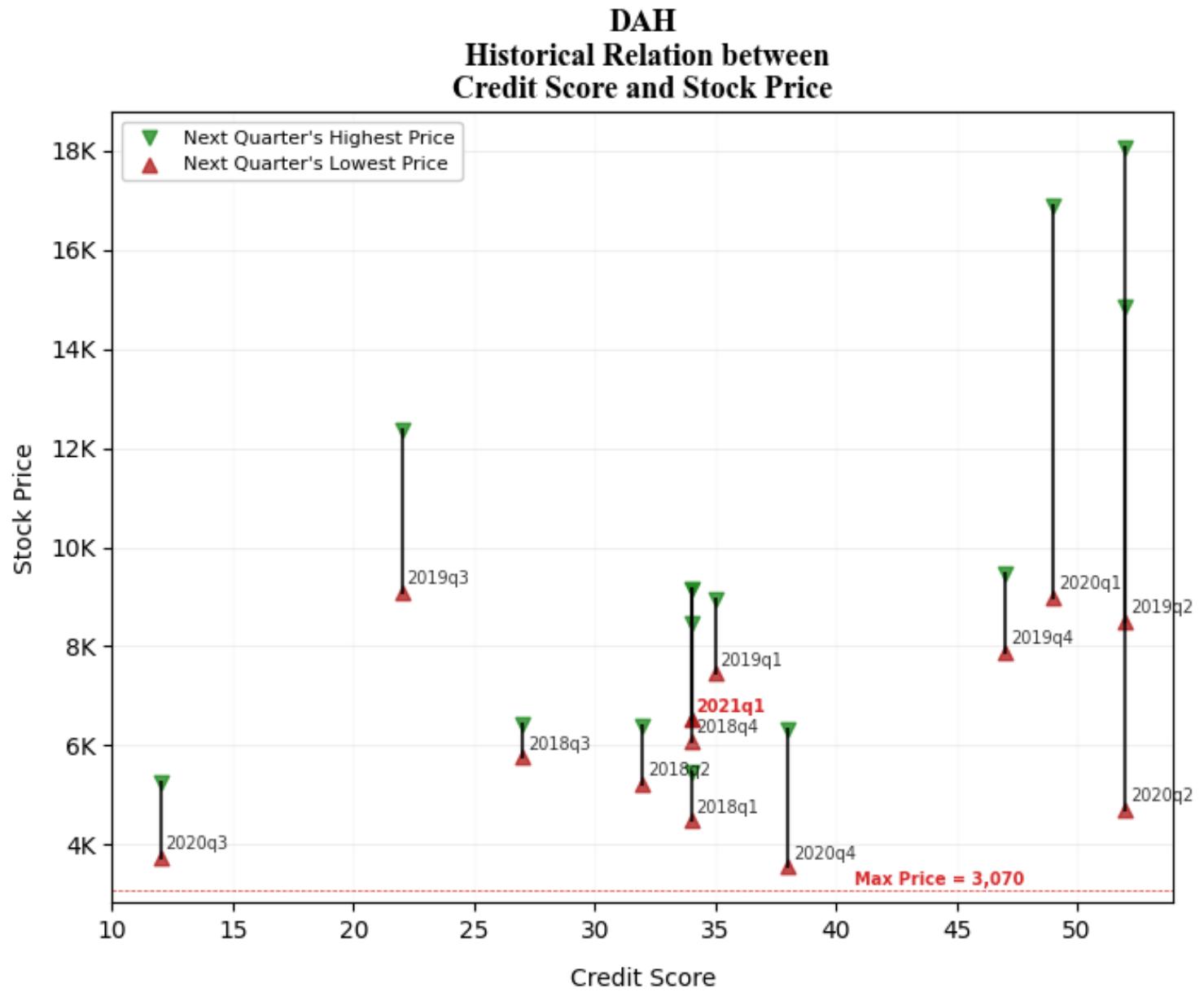
HNX: DAH -
DONG A HOTEL
GROUP

STOCK PRICE
DROPPED 75% IN
2020Q3



HNX: DAH - DONG A HOTEL GROUP

STOCK PRICE
DROPPED DOWN TO
4,500 VND
IN 2020Q3



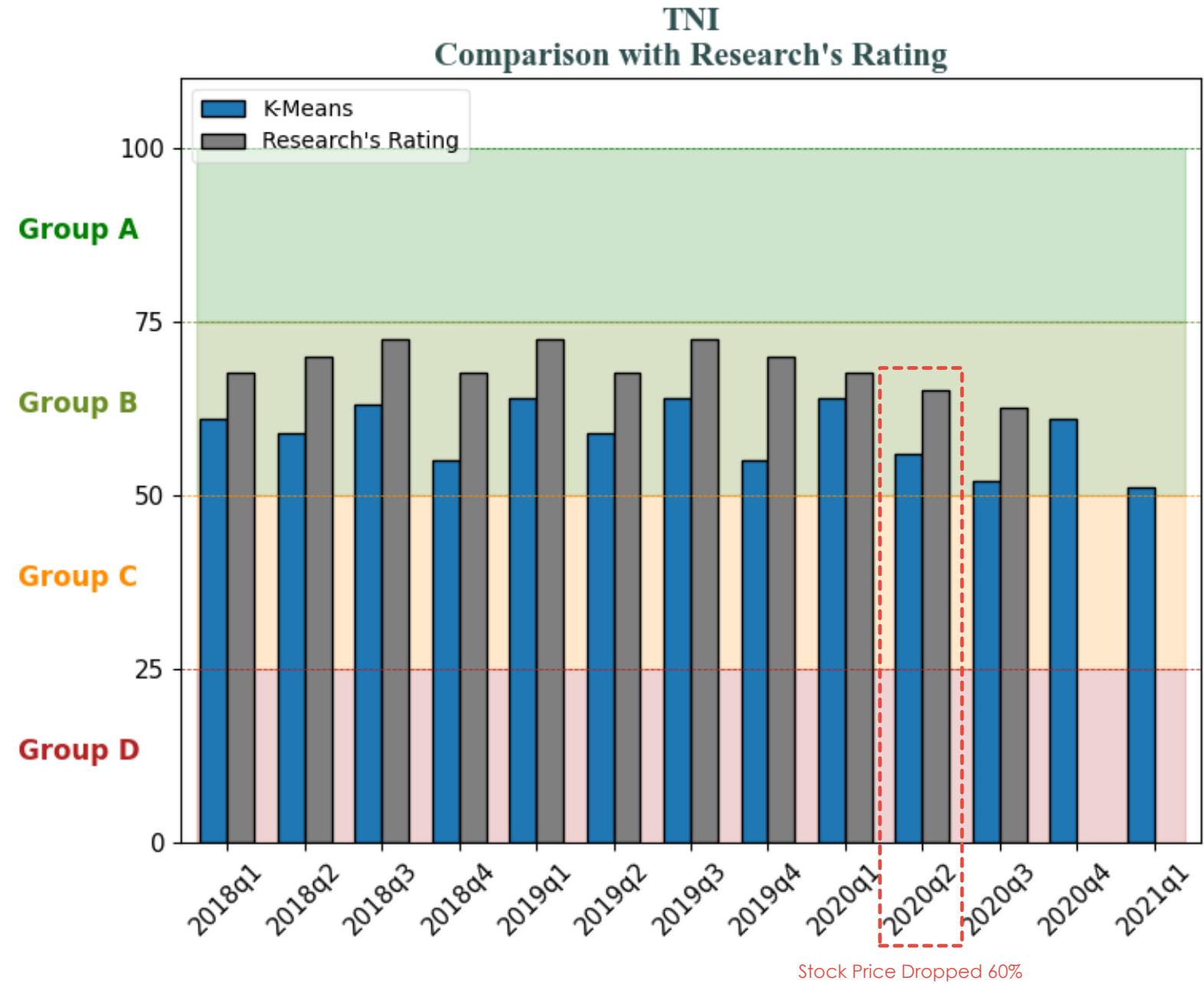


HOSE: TNI

THANH NAM GROUP JOINT STOCK COMPANY

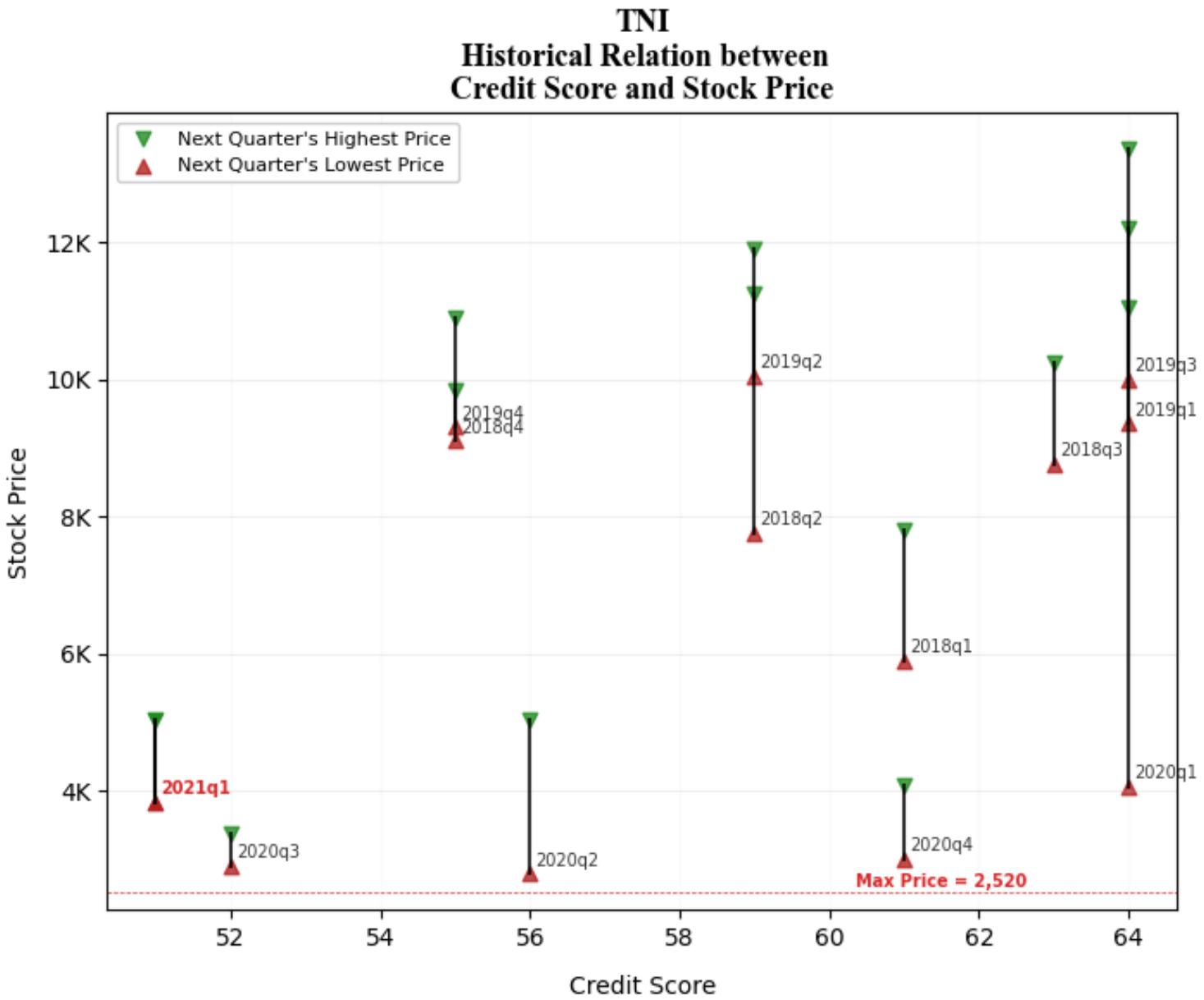


**HOSE: TNI -
THANH NAM GROUP
JOINT STOCK
COMPANY**
**STOCK PRICE
DROPPED 60% IN
2020Q2**



**HOSE: TNI -
THANH NAM GROUP
JOINT STOCK
COMPANY**

**STOCK PRICE
DROPPED DOWN TO
4,100 VND
IN 2020Q2**

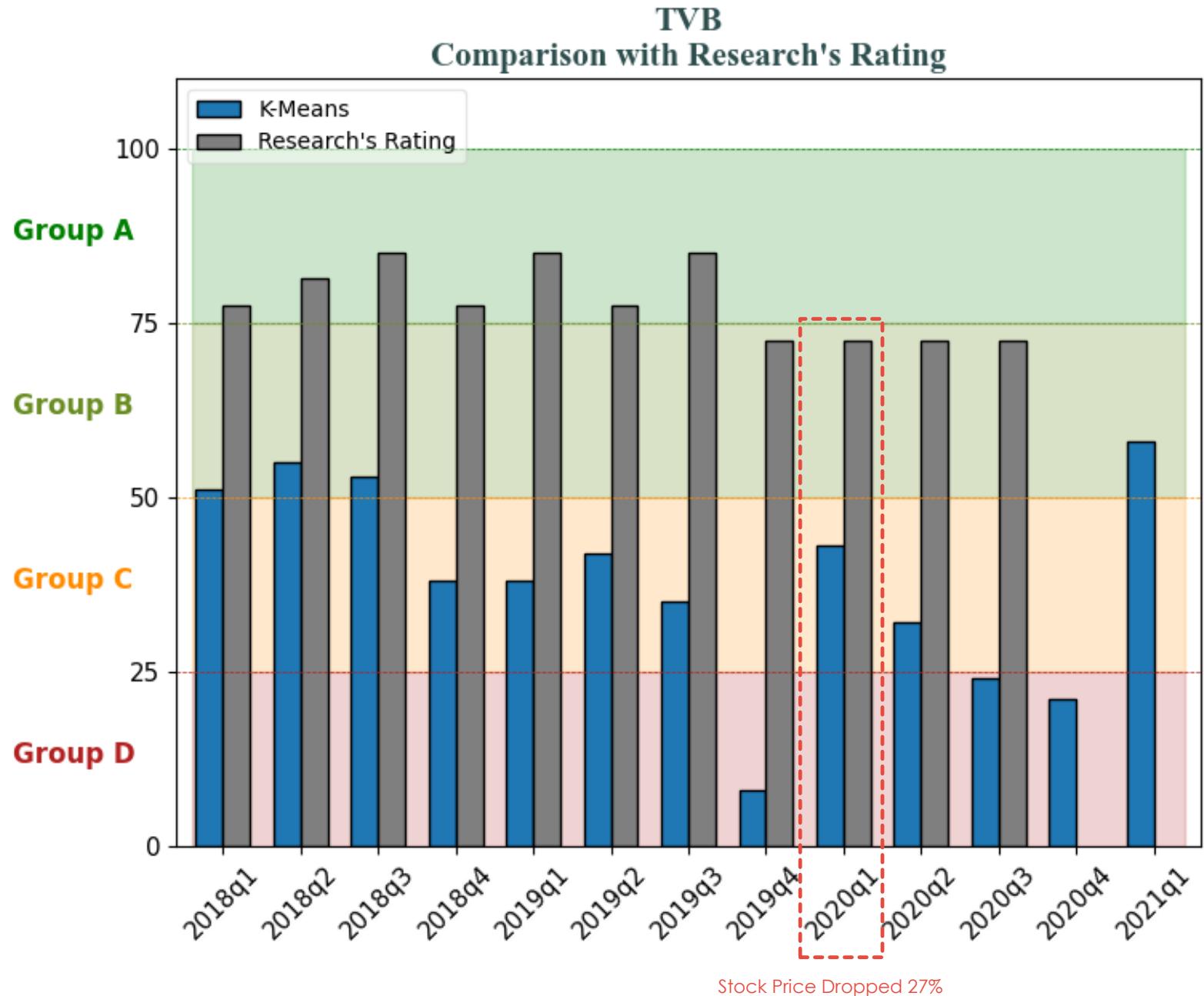




HOSE: TVB

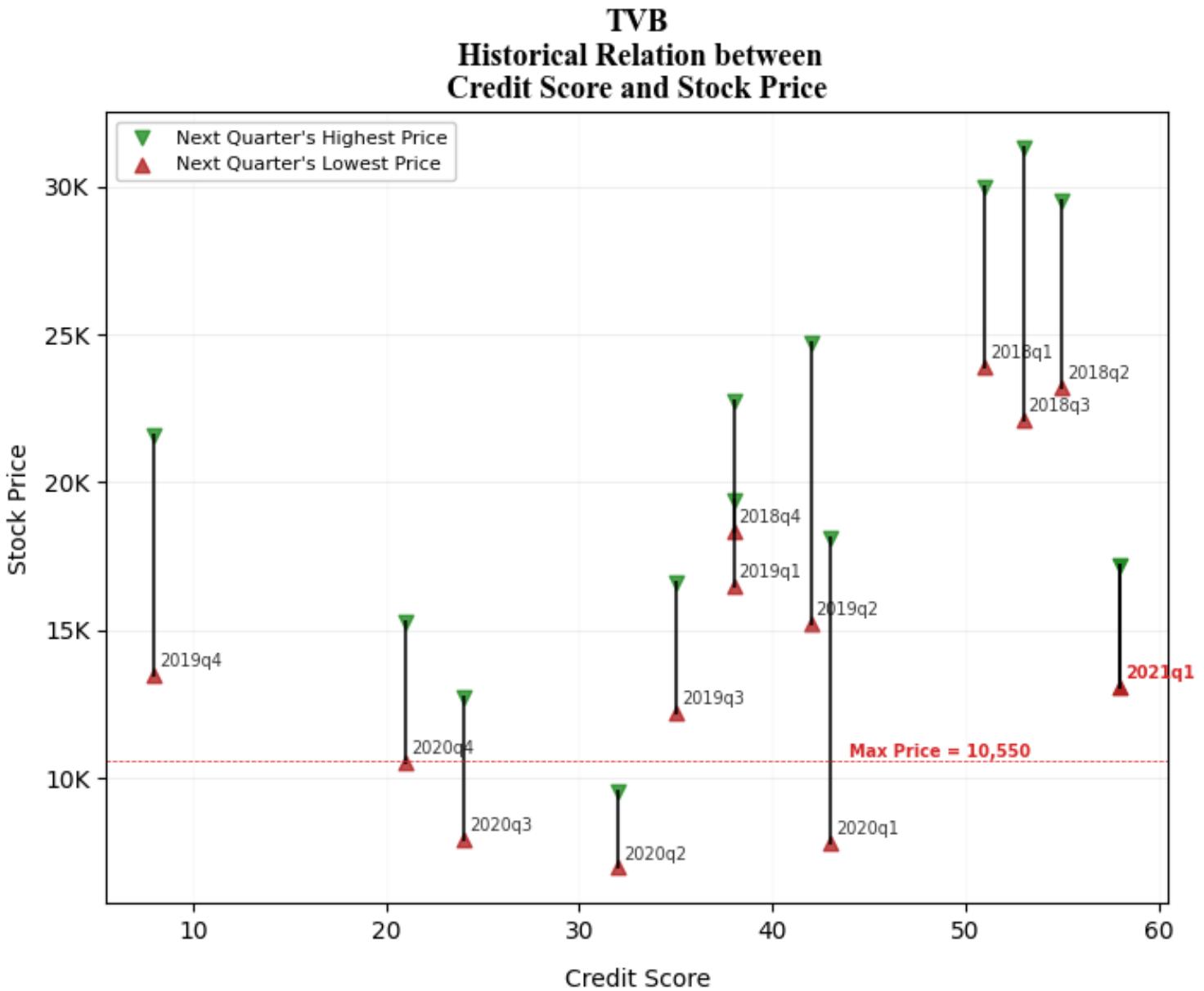
TRI VIET SECURITIES JOINT STOCK CORPORATION

**HOSE: TVB -
TRI VIET SECURITIES
JOINT STOCK
CORPORATION**
**STOCK PRICE
DROPPED 27% IN
2020Q1**



**HOSE: TVB -
TRI VIET SECURITIES
JOINT STOCK
CORPORATION**

STOCK PRICE
DROPPED DOWN TO
12,700 VND
IN 2020Q1



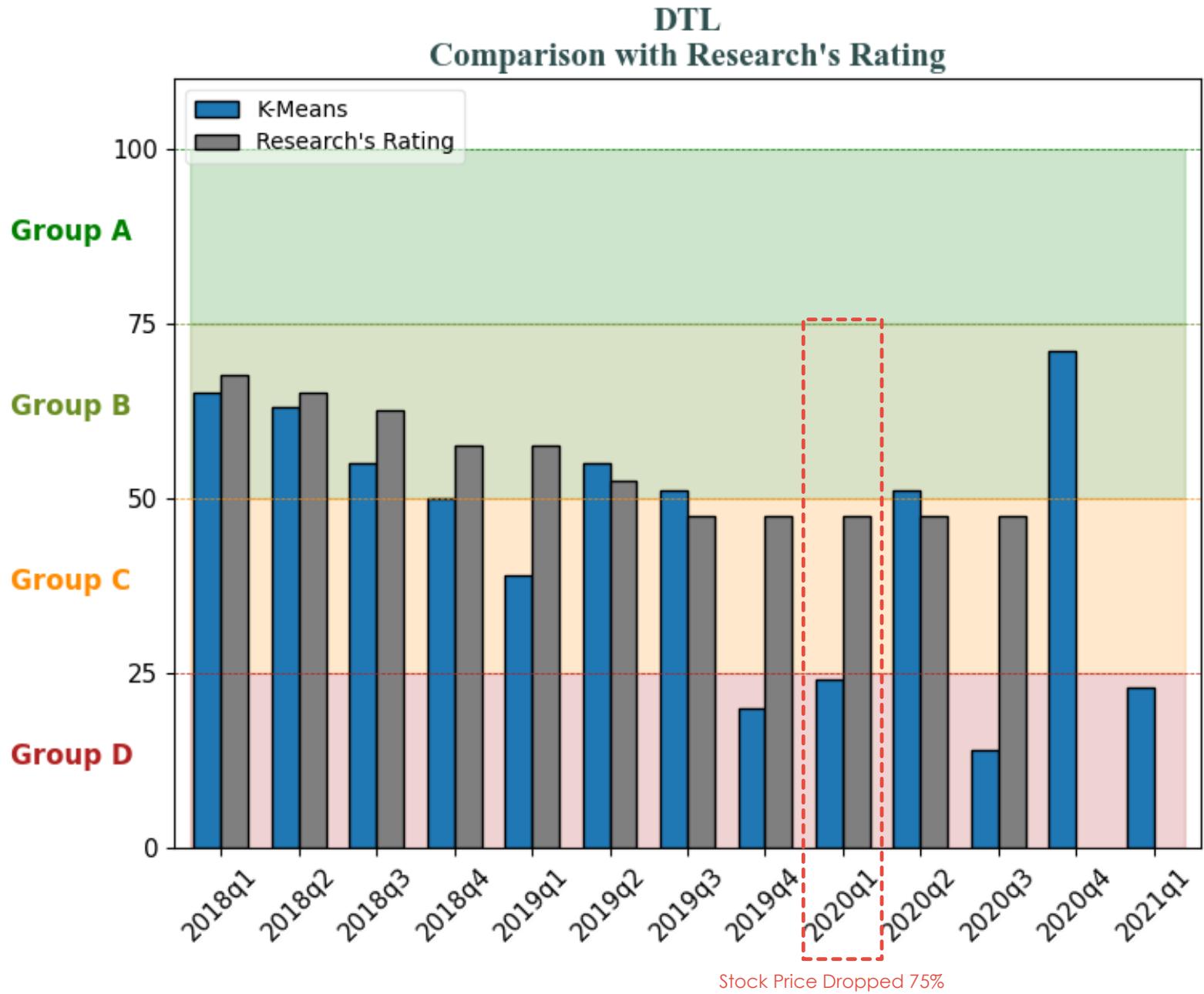
HOSE: DTL

DAI THIEN LOC CORPORATION



HOSE: DTL -
DAI THIEN LOC
CORPORATION

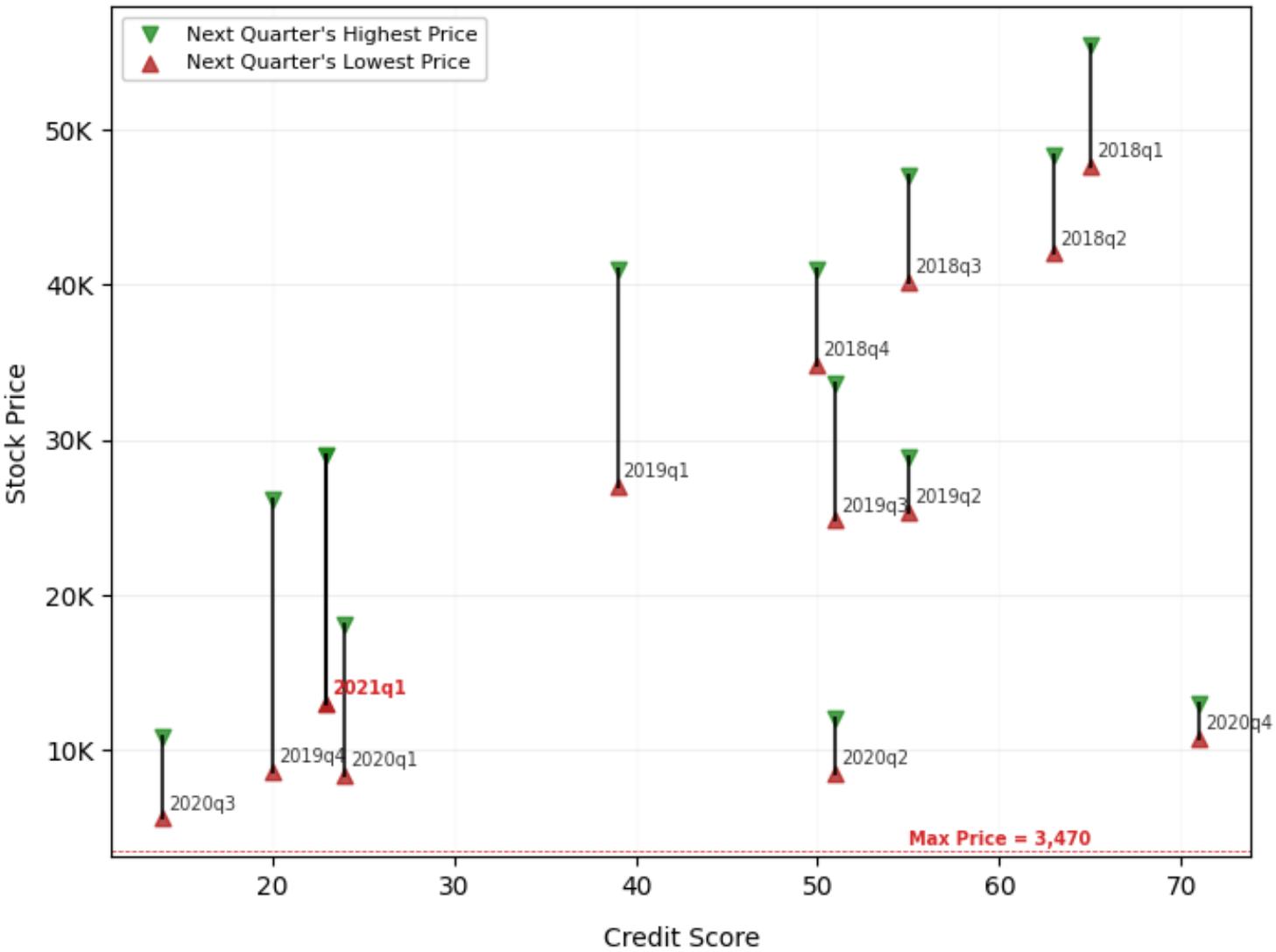
STOCK PRICE
DROPPED 75% IN
2020Q1



HOSE: DTL - DAI THIEN LOC CORPORATION

STOCK PRICE
DROPPED DOWN TO
8,000 VND
IN 2020Q1

DTL Historical Relation between Credit Score and Stock Price



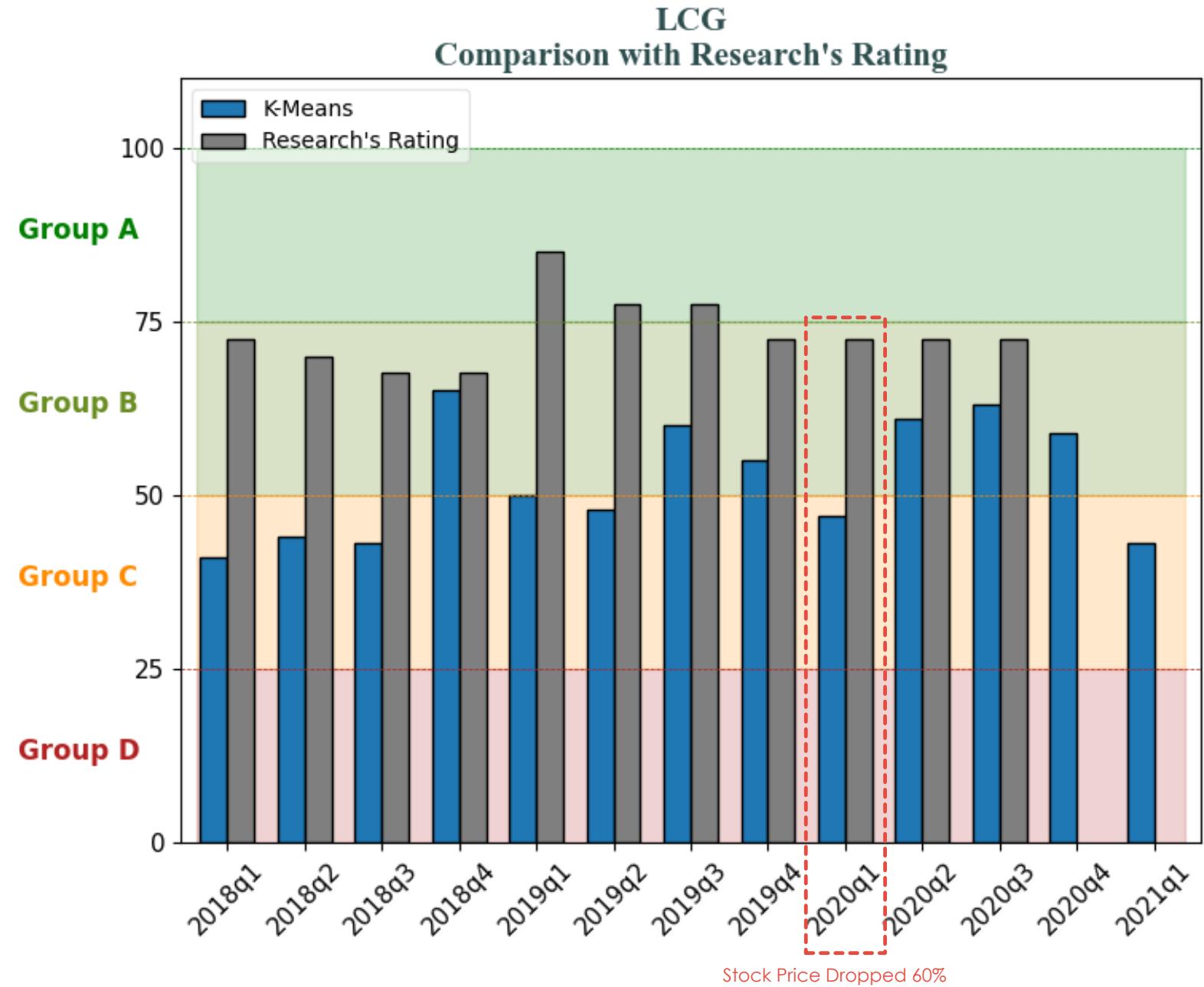
HOSE: LCG

LICOGI 16 JOINT STOCK COMPANY



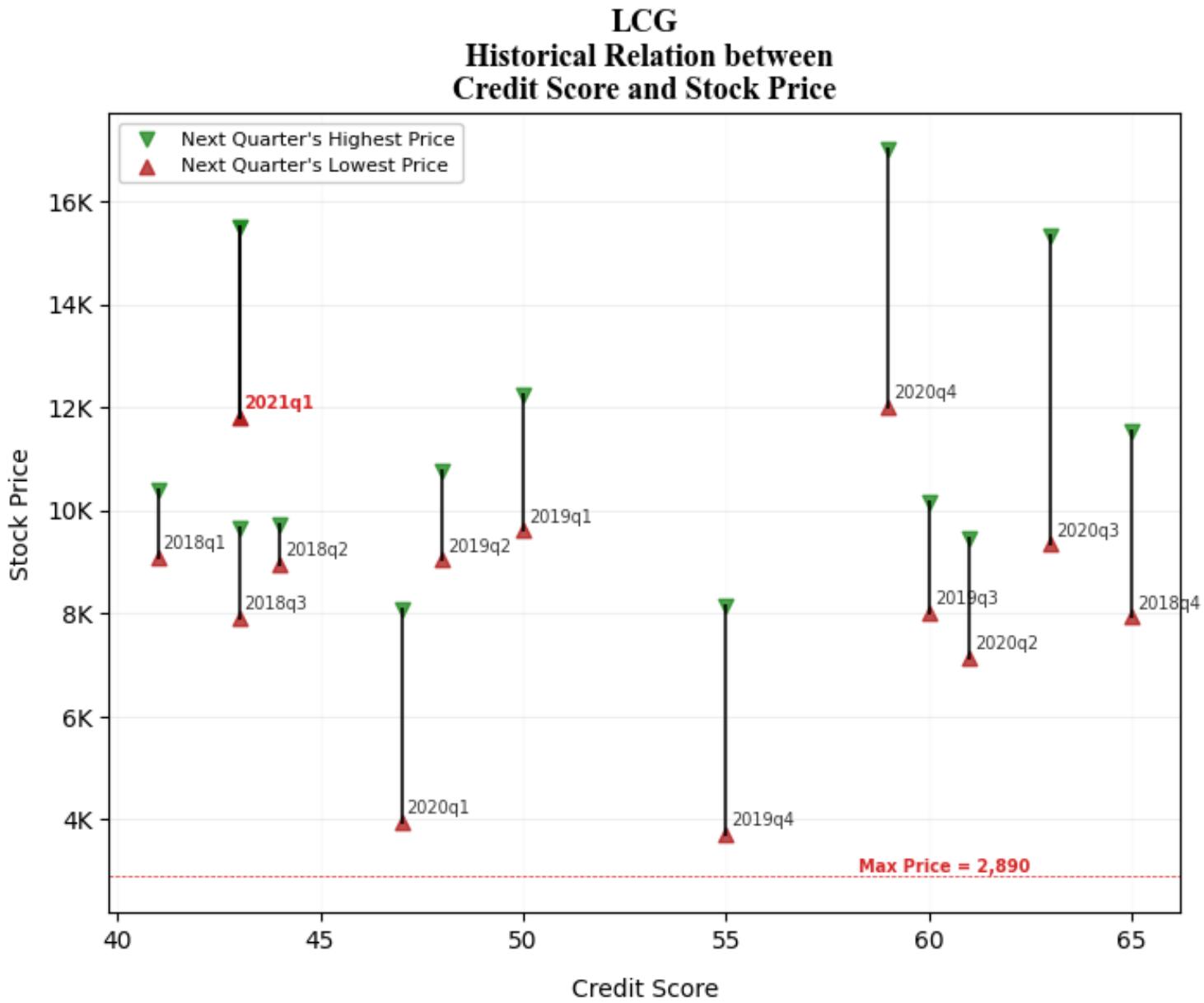
HOSE: LCG -
LICOGI 16 JOINT
STOCK COMPANY

STOCK PRICE
DROPPED 60% IN
2020Q1



**HOSE: LCG -
LICOGI 16 JOINT
STOCK COMPANY**

**STOCK PRICE
DROPPED DOWN TO
3,800 VND
IN 2020Q1**



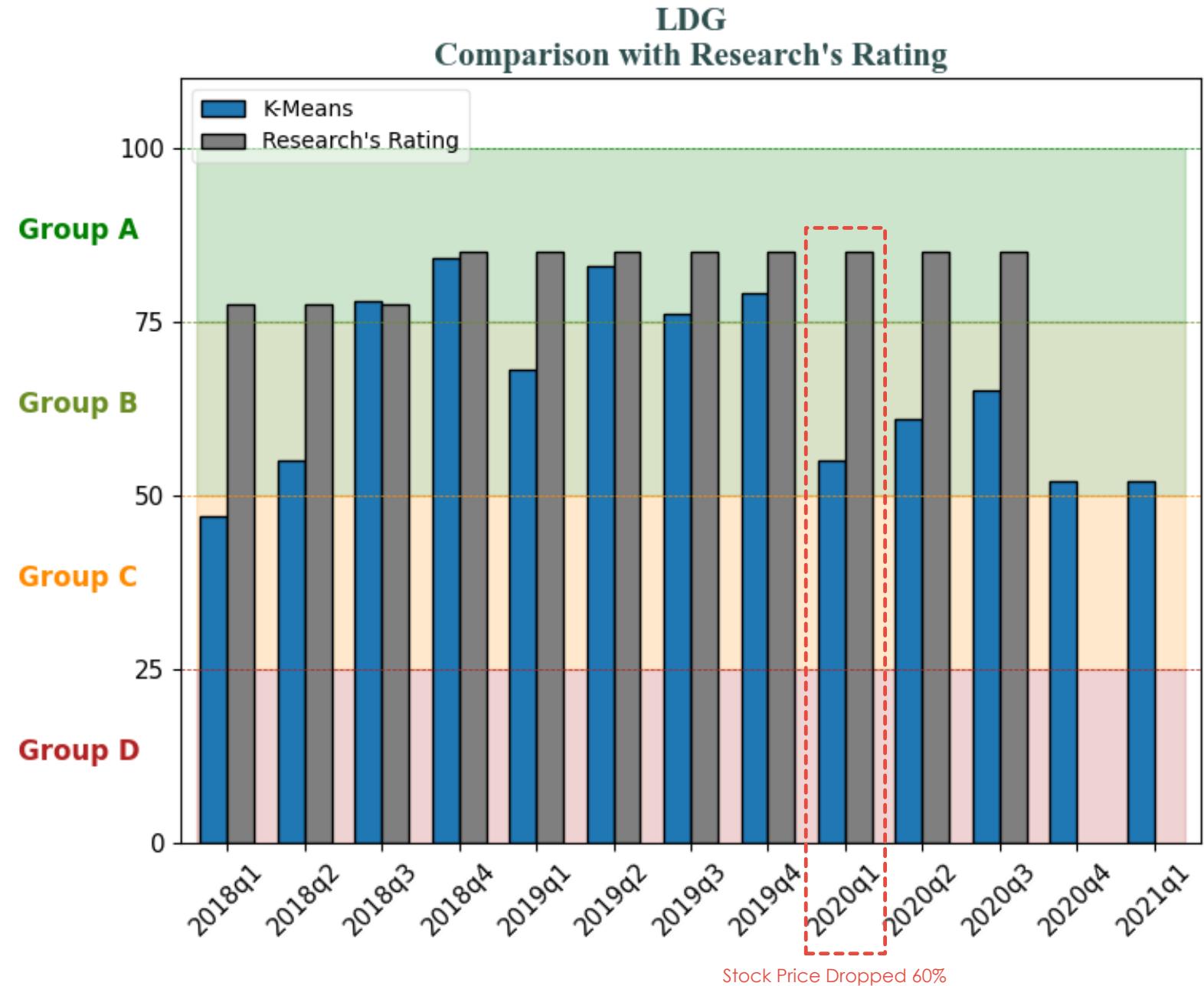


HOSE: LDG

LDG INVESTMENT JOINT STOCK COMPANY

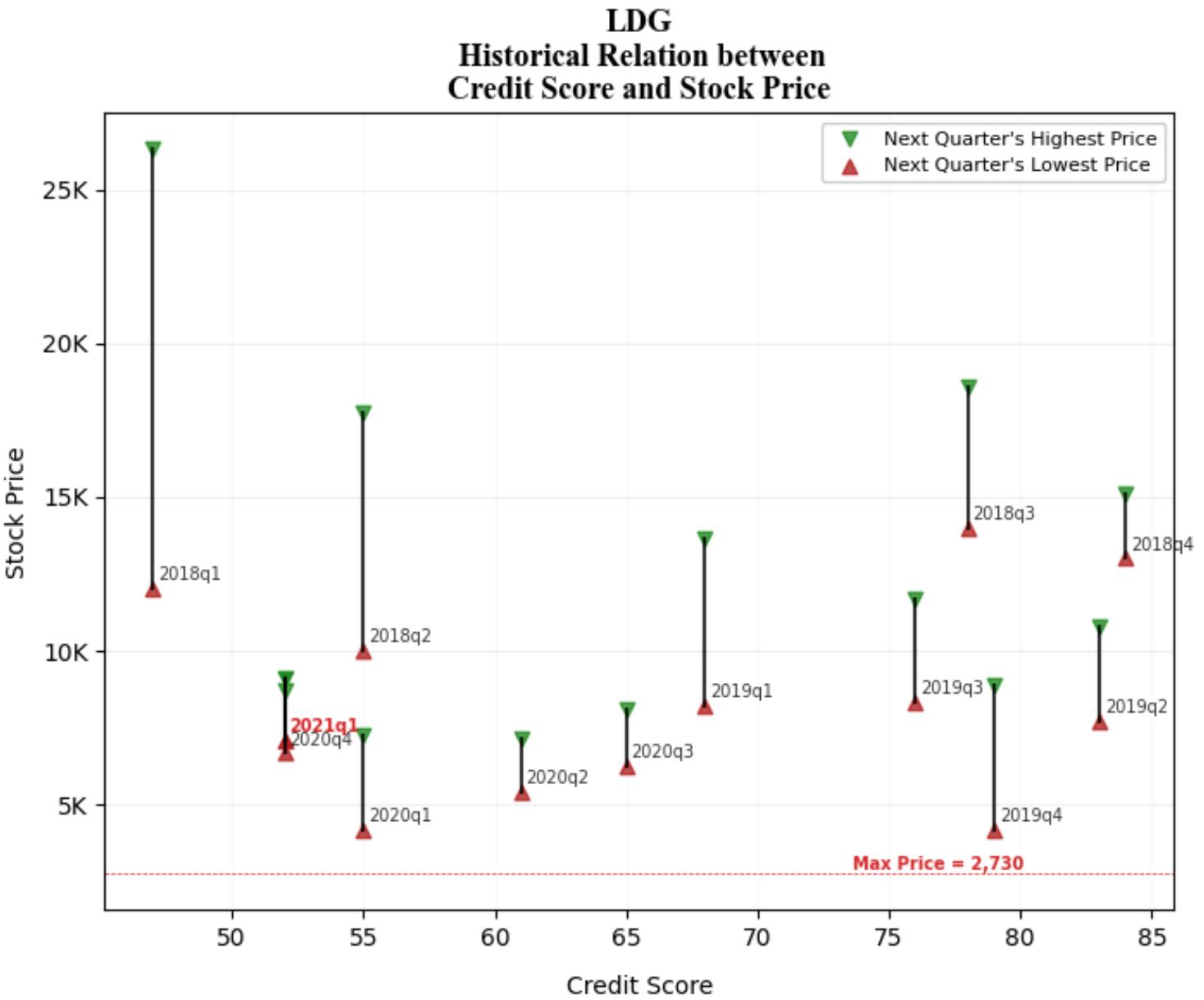
HOSE: LDG - LDG INVESTMENT JOINT STOCK COMPANY

STOCK PRICE
DROPPED **60%** IN
2020Q1



HOSE: LDG - LDG INVESTMENT JOINT STOCK COMPANY

STOCK PRICE
DROPPED DOWN TO
3,800 VND
IN 2020Q1



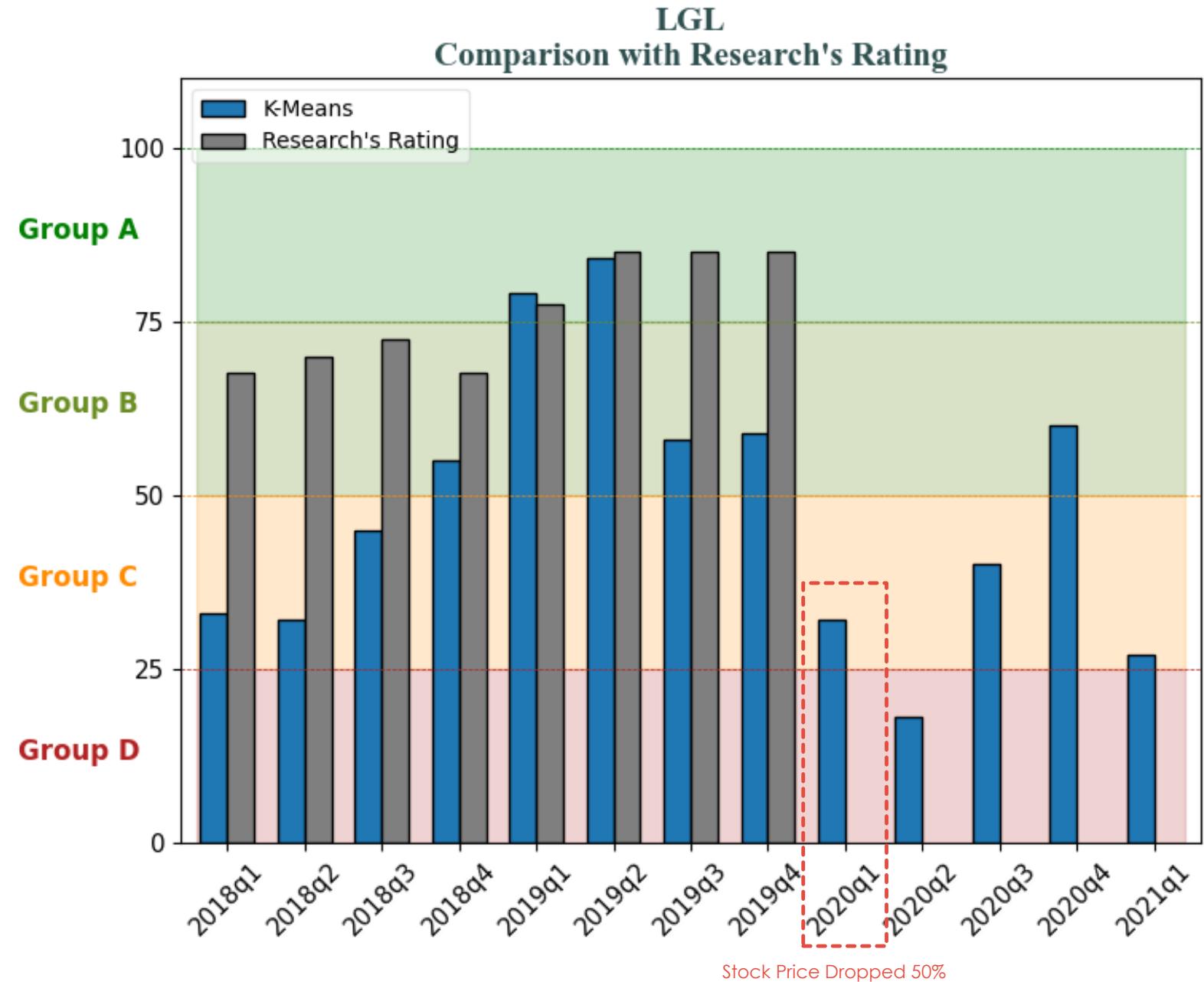
HOSE: LGL

LONG GIANG INVESTMENT & DEVELOPMENT



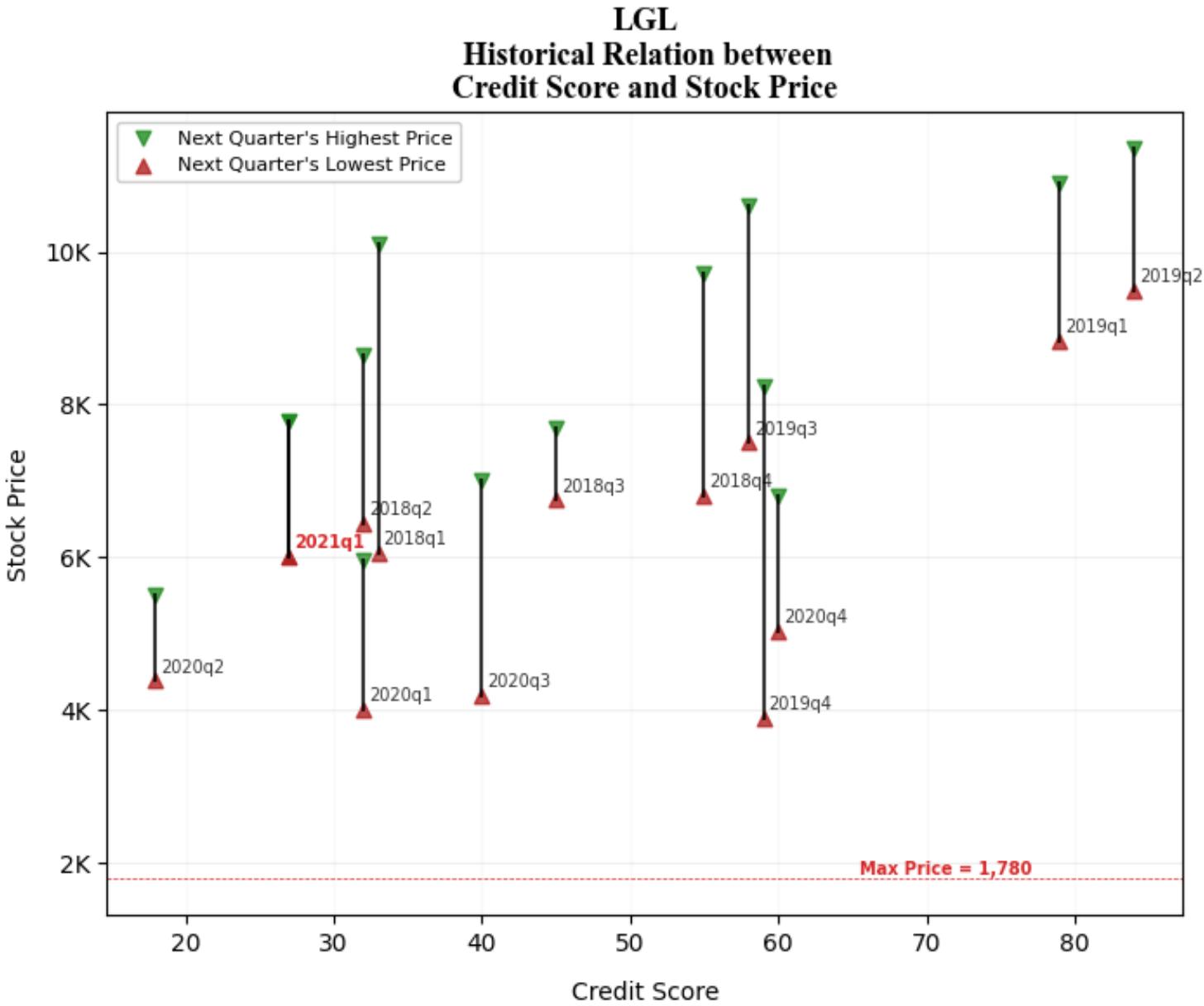
HOSE: LGL -
LONG GIANG
INVESTMENT &
DEVELOPMENT

STOCK PRICE
DROPPED 50% IN
2020Q1



**HOSE: LGL -
LONG GIANG
INVESTMENT &
DEVELOPMENT**

**STOCK PRICE
DROPPED DOWN TO
3,900 VND
IN 2020Q1**





HANOVER PROPOSAL

HOW WE INCORPORATE OUR RESEARCH FOR FURTHER USAGE?

Data for Risk Management Committee Meeting

User : hiepdang@phs.vn | 18/5/2021 22:6

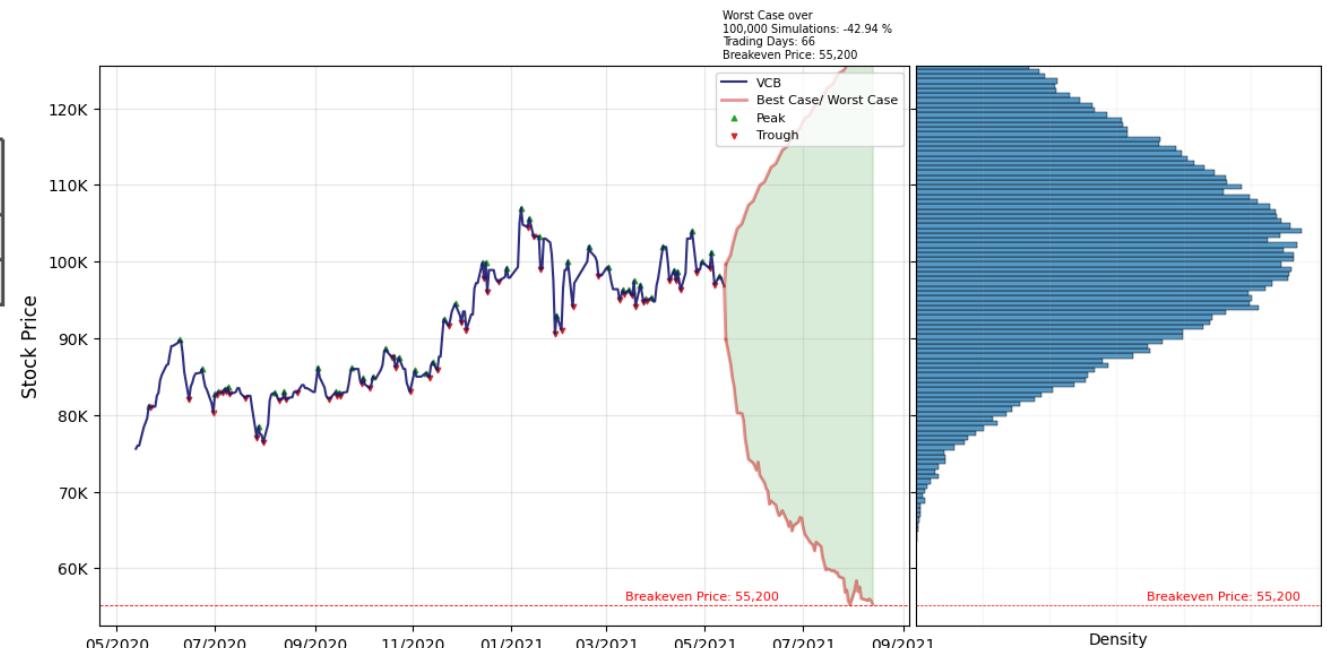
Market Information (abbreviation: SR: special room; GR: general room; MP: max price; RP: reference price ; a/c: account; MATV: Monthly average trading value at least)										Liquidity of 3 months		Potential Trading		Checking		After Check		Stock Exchange	Sector	Ranking
No	Stock Code	Name	Reference price	Vol-listed	Floating shares	5% of listed-shares	Market Cap (million dong)	Net profit (million dong)	Average Volume	Average Amount (million dong)	Quantity	Outstanding (million dong)	% volume listed	% OUTS	Quantity	Outstanding (million dong)				
1	VCB	Bank for Foreign Trade of Vietnam	94,600	3,708,877,448	3,708,877,448	185,443,872	350,859,807	0	1,677,307	158,673	264,271	15,000	0.01%	10.00%	185,443,872	10,525,794	HOSE	Bank	AAA	

Current room of VCB

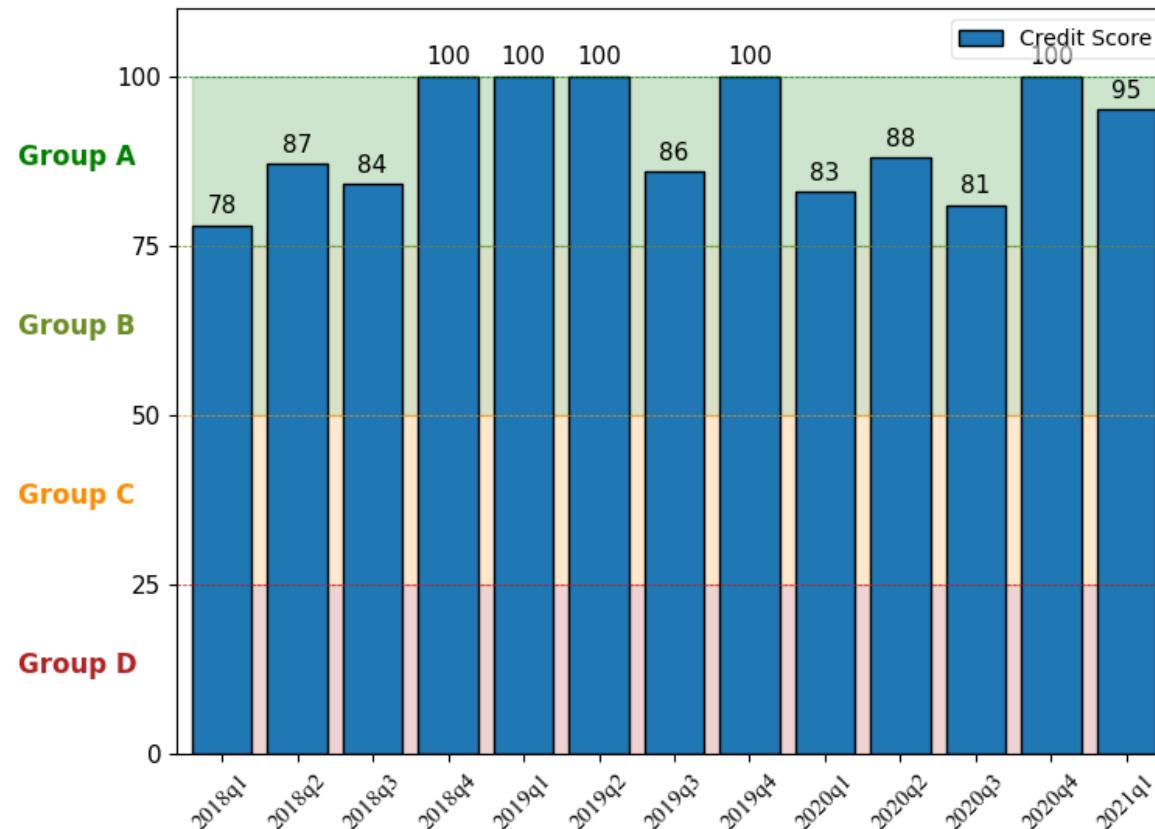
- General room: 123,273 shares, used: 113,717 shares
- Special room: 0 shares; used: 0 shares
- Breakeven price: 55,200 dong
- Maximum price: 123,500 dong --- 130% of RP: 122,980 dong
- Ratio: MR = 50 %; DP = 50 %

Potential Outs at	Approved Outs (million dong)	Used Outs (million dong)	Remained Outs (million dong)	Comment
Max Price (MP)	7,612	7,022	590	
130% of RP	7,580	6,992	588	

Proposal for VCB:



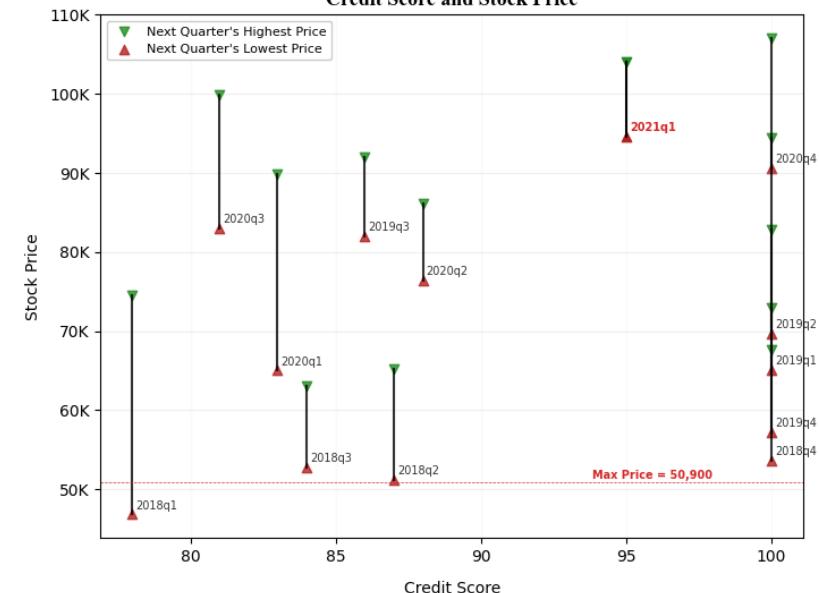
VCB



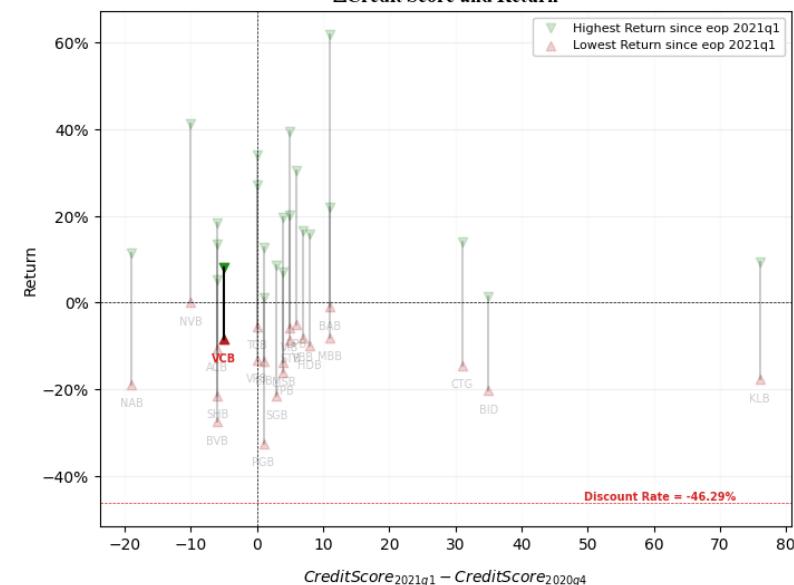
Comment from Hiep:

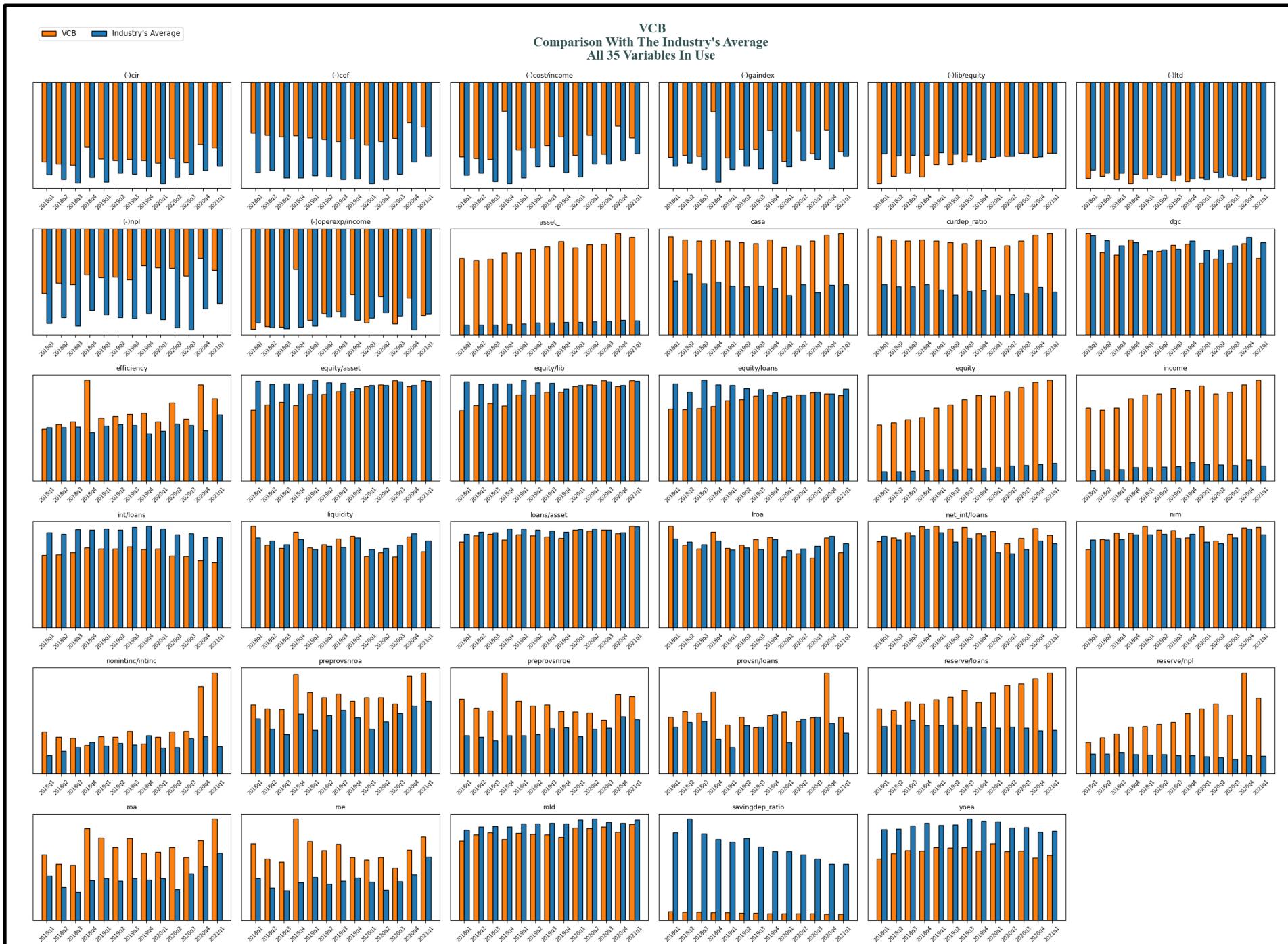
VCB has Credit Score of 95 (Group A) in the last period, downgraded 5 points.
 Max Price is conservatively set at 50,920VND, which takes into account all of the company's financial aspects.
 This Max Price is equivalent to a discount of -46.29% compared to VCB's open price in 2021q2.
 It should be noticed that this price does not reflect VCB's market risk.

VCB
Historical Relation between
Credit Score and Stock Price



VCB
Cross-sectional Relation between
 Δ Credit Score and Return







NEXT STEP

WEB SCRAPPING & TEXT MINING

TARGET WEBPAGES

Using BeautifulSoup4, Selenium and REGEX to extract information

<https://www.vsd.vn/vi/tin-tuc>

<https://www.hsx.vn/>

<https://www.hnx.vn/>



For RMD and other
Departments to automatically
update daily news

<https://ndh.vn>

<https://www.vietstock.vn/>

<https://www.cafef.vn/>



For stock monitor

PROGRESS

Finished www.vsd.vn www.hsx.vn www.hnx.vn

TRUNG TÂM LƯU KÝ
CHỦNG KHOẢN VIỆT NAM

TRANG CHỦ GIỚI THIỆU DỊCH VỤ TIN TỨC PHÁP LÝ FAQ

Tin tức

TIN TỨC

Tin nghiệp vụ với Tổ chức Phát hành Xem thêm >

Công bố thông tin về tỷ lệ sở hữu nước ngoài ngày 22/03/2021 tại VSD
Cập nhật ngày 22/03/2021 - 08:32:50

MBG: Tổ chức họp đại hội đồng cổ đông thường niên 2021
Cập nhật ngày 19/03/2021 - 17:56:17

DNN: Tổ chức Đại hội đồng cổ đông thường niên năm 2021
Cập nhật ngày 19/03/2021 - 17:56:02

MT9: Tổ chức Đại hội đồng cổ đông thường niên năm 2021
Cập nhật ngày 19/03/2021 - 17:55:21

FUEVFND: Điều chỉnh Giấy chứng nhận đăng ký chứng chỉ quỹ ETF thay đổi lần thứ 181
Cập nhật ngày 19/03/2021 - 17:51:13

Tin nghiệp vụ với Thành viên Lưu ký Xem thêm >

CTF: Thông báo ngày hạch toán của cổ phiếu thay đổi niêm yết
Cập nhật ngày 19/03/2021 - 15:21:27

TD2151042: Thông báo ngày hạch toán của trái phiếu Chính Phủ giao dịch bổ sung
Cập nhật ngày 19/03/2021 - 15:20:25

TD2136025: Thông báo ngày hạch toán của trái phiếu Chính Phủ giao dịch bổ sung
Cập nhật ngày 19/03/2021 - 15:19:52

TD2131012: Thông báo ngày hạch toán của trái phiếu Chính Phủ giao dịch bổ sung
Cập nhật ngày 19/03/2021 - 15:16:23

Tin nổi bật

17/03/2021 - 13:44:56 HDG121001: Cấp Giấy chứng nhận đăng ký ...
17/03/2021 - 11:36:55 VIC: Chuyển quyền sở hữu 49.236 cổ phiếu

Tin thị trường phái sinh

Thống kê

Mã số GDCK NDTNN 32.127|4.844

Mã CK bảo lưu 3

Mã CK hủy đăng ký 1.638

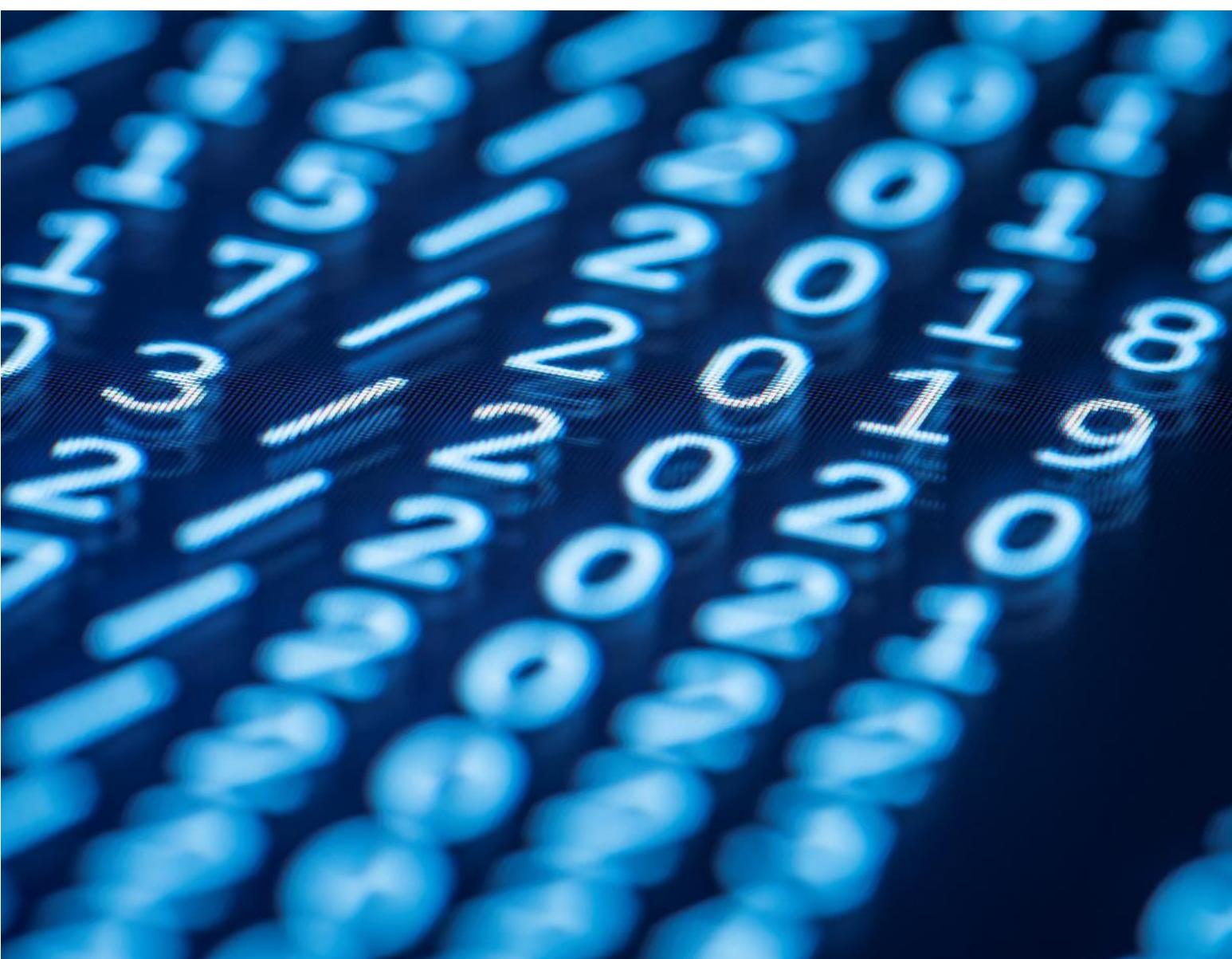
Mã CK chuyển sàn 613

Thành viên đã thu hồi GCN 35

Số lượng TKGD của NDT 2.915.532



	A	B	C	D	E	F	G	H
	Thời gian	Mã cổ phiếu	Đang cho vay	Lý do, mục đích	Tỷ lệ thực hiện	Ngày đăng ký cuối cùng	Ngày giao dịch không hưởng quyền	Ngày thanh toán
1	2021-05-04 16:38:00 MSH	No	Chi trả cổ tức năm 2020 bằng tiền	- Tỷ lệ thực hiện: 30%/cổ phiếu (01 cổ phiếu được nhận 3.000 đồng)	14/05/2021	13/05/2021	- Thời gian thực hiện: 25/05/2021	
2	2021-04-29 09:11:11 CVT	Yes	Điều chỉnh ngày chi trả cổ tức				+ Ngày thanh toán: 06/05/2021	+ Ngày thanh toán: 31/05/2021
3	2021-04-19 17:14:50 SSS	Yes	Chi trả cổ tức năm 2020 bằng tiền	- Tỷ lệ thực hiện: 10%/cổ phiếu (01 cổ phiếu được nhận 1.000 đồng)	05/05/2021	04/05/2021	- Ngày thanh toán: 25/05/2021	
4	2021-04-16 15:36:37 SCI	Yes	Trả cổ tức năm 2020 bằng tiền	Tỷ lệ thực hiện: 70%/cổ phiếu (01 cổ phiếu được nhận 7.000 đồng)	28/04/2021	27/04/2021	Thời gian thực hiện: 31/05/2021	
5	2021-04-16 09:32:55 PDR	Yes	Chi trả cổ tức năm 2020 cho cổ đông bằng cổ phiếu từ nguồn lợi nhuận sau thuế chưa phân phối	- Tỷ lệ thực hiện: 11,7% (cổ đông sở hữu 1.000 cổ phiếu sẽ được nhận 117 cổ phiếu mới)	27/04/2021	26/04/2021		- Thời gian thực hiện: 8h30 ngày 18/05/2021
6	2021-04-14 10:18:01 HVH	Yes	Tổ chức Đại hội đồng cổ đông thường niên năm 2021 và tạm ứng cổ tức năm 2020 bằng tiền	- Tỷ lệ thực hiện: 1 cổ phiếu - 1 quyền biểu quyết - Tỷ lệ thực hiện: 5%/cổ phiếu (01 cổ phiếu được nhận 500 đồng)	23/04/2021	22/04/2021	- Thời gian thực hiện: 05/05/2021	- Ngày thanh toán: 04/05/2021 (do 02-03/05/2021 là ngày lễ và chủ nhật)
7								
8	2021-04-12 17:13:43 CII42013	No	Thanh toán lãi trái phiếu doanh nghiệp bằng tiền đợt 1 và chuyển đổi trái phiếu doanh nghiệp	- Tỷ lệ thực hiện: 5,5%/trái phiếu (01 trái phiếu được nhận 55.000 đồng)	22/04/2021	20/04/2021		



THANK YOU

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