



# Industry Multiples in Europe

Q2 2022

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## Foreword



**Michael Weaver**

Managing Director and  
EMEA Valuation Advisory  
Services Leader

### Dear Readers,

We are pleased to launch the third edition of our *Industry Multiples in Europe* quarterly report. This report provides valuable insights into trading multiples for various key industries in Europe as of June 30, 2022. Our analysis uses constituents of the STOXX® Europe Total Market Index (STOXX® Europe TMI), which covers about 95% of the free float in Europe, distributed among several industries and sectors, following the definitions by the Global Industry Classification Standard (GICS).

Global equity markets remained volatile in the second quarter of 2022, with increasing economic uncertainty caused by rising interest rates, volatility in commodity prices, persistent inflation and geopolitical events. The war in Ukraine continued, with little prospect of ending soon. According to the International Monetary Fund (IMF) in its *World Economic Outlook Update* released in July 2022, the war has negatively impacted major European economies by driving higher energy prices and other input costs, as well as weaker consumer confidence. Supply chain disruptions have not abated. Tighter financial conditions will also impact economic growth negatively. At its June 2022 meeting, the European Central Bank (ECB), citing its belief that inflation would remain elevated for some time, announced it would raise its target interest rate by 0.25% at its July meeting, which would represent the first rate increase in over a decade and would end its long-standing negative interest policy, while also indicating that rates would be raised by an undetermined amount at its September 2022 meeting. Eurozone inflation reached a record of 8.6% in June, its highest level since the inception of the monetary union, according to the IMF's report. Likewise, the Bank of England (BOE), which had already elected to raise its benchmark rate at both its February and March 2022 meetings, decided to again raise its benchmark rate at both its May and June 2022 meetings, reaching a target rate of 1.25%. In May, inflation in the United Kingdom reached a 40-year high of 9.1% and consumer confidence plummeted to its lowest level since 1974. In June, inflation rose to an even higher 9.4%, and analysts expect the upward trend to continue. For overall 2022, the IMF currently projects inflation to reach 7.3% in the Eurozone and 10.5% in the United Kingdom.

In March 2022, the volatility index on the EURO STOXX 50® index known as the VSTOXX® reached levels last observed back in April 2020, at the height of the COVID-19 pandemic. Since March, the VSTOXX® has decreased, but as of June 2022 it was still more than 50% higher than the observed level at the end of 2021. The STOXX® Europe TMI decreased by 11% since the end of Q1 2022 and 17% since the beginning of 2022.

According to the IMF's report, the current outlook is uncertain. The IMF expects that global growth will decrease from 6.1% in 2021 to 3.2% in 2022, the current estimate for 2022 being 0.4 percentage point below the IMF's previous estimate in April—just three months earlier—and 1.2% below the IMF's January estimate. Likewise, for the eurozone, growth is expected to decrease significantly from 5.4% in 2021 to 2.6% in 2022 and further to 1.2% in 2023 (0.2 and 1.1% decreases, respectively, since the IMF's April 2022 forecast). For the United Kingdom, growth is expected to decrease from 7.4% in 2021 to 3.2% in 2022 and further to 0.5% in 2023 (0.5 and 0.7 percentage point decreases, respectively, since the IMF's April 2022 forecast).

In terms of EV/EBITDA multiples, multiples have generally decreased over the second quarter of 2022. In general, almost all sectors/industry groups presented in this report observed a decrease in their multiples during the second quarter of 2022. Semiconductors and semiconductor equipment was the industry group with the highest decrease (a change from 17.4x to 10.1x, or 7.3x lower compared to Q1 2022's multiple). This decrease is likely caused by the effects of the Russia-Ukraine war (as those countries account for an important share of the global production of semiconductors raw materials, such as neon, palladium and nickel), the supply chain issues already affecting this industry for the past two years, exacerbated by the zero-COVID policy in China, and the impact of increases in interest rates.

Our report provides a detailed overview of the EV/Revenues, EV/EBITDA, P/E and P/B multiples of companies in the STOXX® Europe TMI covering non-financial industries and market capitalization/revenues, P/TBV, P/E and P/B multiples covering financial industries for which such data is available. We also provide an eight-quarter lookback at the trends of these multiples for the industries covered.

We hope you find this report helpful in understanding the range of trading multiples for major industries in Europe. If you would like to receive further information or discuss any of the findings, please contact us.

# Summary: Median Multiples by Sector/Industry Groups

As of June 30, 2022

Sector/Industry Group	EV/Revenues	EV/EBITDA	P/E	P/B
<b>Communication Services</b>	<b>2.3x</b>	<b>7.6x</b>	<b>15.0x</b>	<b>1.8x</b>
Media and Entertainment	2.2x	7.9x	15.2x	1.8x
Telecommunication Services	2.4x	7.3x	14.7x	1.9x
<b>Consumer Discretionary</b>	<b>1.1x</b>	<b>8.0x</b>	<b>12.6x</b>	<b>1.9x</b>
Automobiles & Components	0.7x	6.3x	9.8x	0.8x
Consumer Durables & Apparel	1.3x	8.2x	13.5x	1.8x
Consumer Services	2.2x	12.3x	19.8x	2.6x
Retailing	0.8x	8.0x	12.4x	2.3x
<b>Consumer Staples</b>	<b>1.3x</b>	<b>9.7x</b>	<b>17.7x</b>	<b>2.0x</b>
Food and Staples Retailing	0.5x	6.4x	14.0x	1.8x
Food, Beverage and Tobacco	1.5x	9.7x	17.7x	1.8x
Household and Personal Products	2.1x	12.4x	24.5x	2.9x
<b>Energy</b>	<b>1.2x</b>	<b>3.9x</b>	<b>7.9x</b>	<b>1.2x</b>
<b>Health Care</b>	<b>3.7x</b>	<b>14.3x</b>	<b>27.0x</b>	<b>3.4x</b>
Health Care Equipment and Services	2.4x	13.5x	27.8x	3.0x
Pharmaceuticals, Biotechnology and Life Sciences	4.9x	15.7x	26.7x	3.8x
<b>Industrials</b>	<b>1.2x</b>	<b>9.0x</b>	<b>16.4x</b>	<b>2.1x</b>
Capital Goods	1.2x	9.7x	17.1x	2.1x
Commercial & Professional Services	1.2x	8.9x	17.7x	2.6x
Transportation	1.1x	6.2x	10.0x	1.8x
<b>Information Technology</b>	<b>2.4x</b>	<b>14.8x</b>	<b>24.7x</b>	<b>3.2x</b>
Semiconductors & Semiconductor Equipment	3.8x	10.1x	16.7x	3.3x
Software & Services	2.7x	15.9x	28.3x	3.5x
Technology Hardware & Equipment	1.9x	12.9x	22.9x	2.6x
<b>Materials</b>	<b>0.9x</b>	<b>5.1x</b>	<b>8.9x</b>	<b>1.3x</b>
<b>Real Estate</b>	<b>14.1x</b>	<b>24.2x</b>	<b>16.3x</b>	<b>0.7x</b>
<b>Utilities</b>	<b>2.7x</b>	<b>9.7x</b>	<b>14.8x</b>	<b>2.1x</b>
Electric, Gas and Water Utilities <sup>1</sup>	1.4x	8.8x	12.5x	1.8x
Independent Power & Renewable Electricity Producers <sup>1</sup>	6.6x	14.1x	34.8x	2.6x
Financials Sector/Industry Group	Market Cap./Revenues	P/TBV	P/E	P/B
<b>Financials</b>	<b>2.0x</b>	<b>1.1x</b>	<b>8.6x</b>	<b>1.0x</b>
Banks	2.0x	0.7x	7.3x	0.6x
Capital Markets <sup>1</sup>	2.6x	2.6x	11.9x	1.7x
Consumer Finance <sup>1</sup>	NMF	NMF	NMF	NMF
Diversified Financial Services <sup>1</sup>	2.2x	1.1x	6.5x	0.9x
Insurance	0.8x	2.7x	12.2x	1.3x

<sup>1</sup> According to GICS nomenclature, these are classified as "Industry," which is one level below "Industry Group."

# Country Snapshot: France

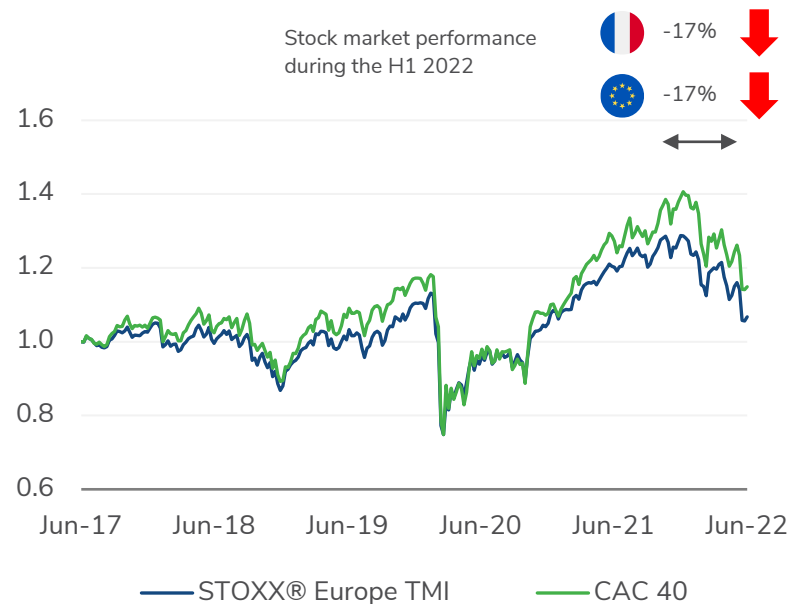
Contact:  
**CARINE TOURNEUR**  
 Managing Director  
 Tel +33 014 006 40 60  
 E: [carine.tourneur@kroll.com](mailto:carine.tourneur@kroll.com)

The CAC 40 index reflects the performance of the 40 largest and most actively traded shares listed on the Euronext Paris and is the most widely used indicator of the Paris stock market. It is typically used as the benchmark stock market index in France. The percentage of French companies in the STOXX® Europe TMI is 8%, with all of the constituents of the CAC 40 being comprised within the European index.






In the first half of 2022, the CAC 40 decreased by 17.4% (in price terms), compared to the 17% decrease in the STOXX® Europe TMI. France's real GDP is expected to grow by 2.3% in 2022 and 1.0% in 2023, according to the IMF's latest *World Economic Outlook* (July 2022).

## CAC 40 Spotlight

### 5Y Evolution: CAC 40 and STOXX® Europe TMI



### Top 5 Industries

Industry	Market Cap (€ bn) <sup>1</sup>	% of CAC 40	Number of Companies
 Consumer Durables and Apparel	528	28%	4
 Capital Goods	308	16%	9
 Household and Personal Products	177	9%	1
 Pharmaceuticals, Biotechnology and Life Sciences	135	7%	2
 Energy	129	7%	1

CAC 40  
Market Cap<sup>1</sup>

€1,894  
billion  
(bn)

<sup>1</sup>As of the report reference date.

Sources: Capital IQ; Bloomberg; International Monetary Fund – “World Economic Outlook,” July 2022; Kroll analysis.

# Country Snapshot: Germany

Contact:  
**INGO SCHNEEMANN**  
 Managing Director  
 Tel +49 697 191 8415  
 E: [ingo.schneemann@kroll.com](mailto:ingo.schneemann@kroll.com)

The DAX is a total return index of 40 selected German blue-chip stocks traded on the Frankfurt Stock Exchange and is typically used as the benchmark stock market index in Germany. The percentage of German companies in the STOXX® Europe TMI is 10%, with 93% of the constituents of the DAX being comprised within the European index. In September 2021, the number of constituents in the DAX index increased from 30 to 40 companies.






In the first half of 2022, the DAXK (DAX in price terms) decreased by 22.0%, compared to the 17% decrease in the STOXX® Europe TMI. Germany's real GDP is expected to grow by 1.2% in 2022 and 0.8% in 2023, according to the IMF's latest *World Economic Outlook* (July 2022).

## DAX Spotlight

### 5Y Evolution: DAXK and STOXX® Europe TMI<sup>1</sup>



### Top 5 Industries

Industry	Market Cap (€ bn) <sup>2</sup>	% of DAX	Number of Companies
 Automobiles and Components	218	15%	5
 Capital Goods	205	14%	5
 Materials	190	13%	5
 Pharmaceuticals, Biotechnology and Life Sciences	136	9%	3
 Insurance	122	8%	3

DAX  
Market Cap<sup>2</sup>

€1,459  
bn

<sup>1</sup>Although the DAX (total return index) is more widely recognized, for consistency purposes we refer to the DAXK (price index)

<sup>2</sup>As of the report reference date.

Sources: Capital IQ; Bloomberg; International Monetary Fund – “World Economic Outlook,” July 2022; Kroll analysis.

# Country Snapshot: Italy

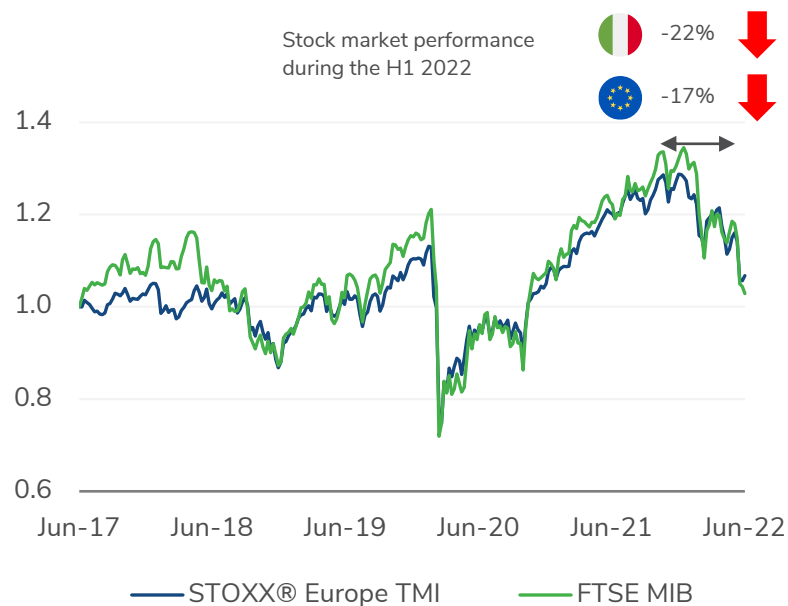
Contact:  
**ENRICO ROVERE**  
 Managing Director  
 Tel +39 039 642 3860  
 E: [enrico.rovere@kroll.com](mailto:enrico.rovere@kroll.com)

The FTSE MIB index consists of the 40 most liquid and capitalized stocks listed on the Borsa Italiana. It is typically used as the benchmark stock market index in Italy. The percentage of Italian companies in the STOXX® Europe TMI is 6%, with 100% of the constituents of the FTSE MIB being comprised within the European index.






In the first half of 2022, the FTSE MIB decreased (in price terms) by 22.1%, compared to the 17% decrease in the STOXX® Europe TMI. Italy's real GDP is expected to grow by 3.0% in 2022 and 0.7% in 2023, according to the IMF's latest *World Economic Outlook* (July 2022).

## FTSE MIB Spotlight

### 5Y Evolution: FTSE MIB and STOXX® Europe TMI



### Top 5 Industries

Industry	Market Cap (€ bn) <sup>1</sup>	% of FTSE MIB	Number of Companies
 Utilities	97	19%	6
 Banks	74	15%	6
 Automobile and components	73	14%	3
 Energy	54	11%	3
 Insurance	39	8%	3

FTSE MIB  
 Market Cap<sup>1</sup>

€508 bn

<sup>1</sup>As of the report reference date.

Sources: Capital IQ; Bloomberg; International Monetary Fund – “World Economic Outlook,” July 2022; Kroll analysis.

# Country Snapshot: Spain

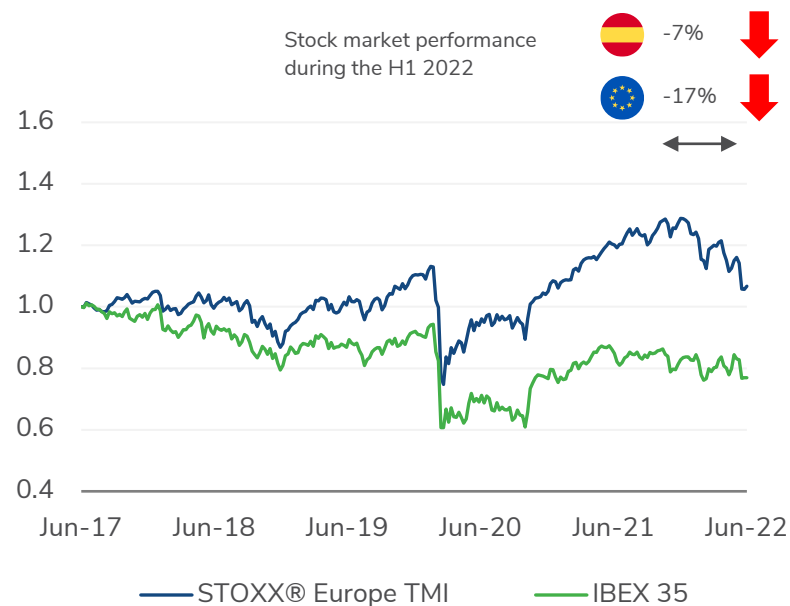
Contact:  
**JAVIER ZOIDO**  
 Managing Director  
 Tel +34 910 389 010  
 E: [javier.zoido@kroll.com](mailto:javier.zoido@kroll.com)

The IBEX 35 is the official index of the Spanish Continuous Exchange. The index is comprised of the 35 most liquid stocks traded on the continuous market. It is typically used as the benchmark stock market index in Spain. The percentage of Spanish companies in the STOXX® Europe TMI is 4%, with 100% of the constituents of the IBEX 35 being comprised within the European index.






In the first half of 2022, the IBEX 35 decreased (in price terms) by 7.1%, compared to the 17% decrease in the STOXX® Europe TMI. Spain's real GDP is expected to grow by 4.0% in 2022 and 2.0% in 2023, according to the IMF's latest *World Economic Outlook* (July 2022).

## IBEX 35 Spotlight

### 5Y Evolution: IBEX 35 and STOXX® Europe TMI



### Top 5 Industries

Industry	Market Cap (€ bn) <sup>1</sup>	% of IBEX 35	Number of Companies
 Utilities	148	27%	8
 Banks	109	20%	5
 Retailing	67	12%	1
 Telecommunication Services	53	10%	2
 Capital Goods	41	8%	5

IBEX 35  
Market Cap<sup>1</sup>

€538 bn

<sup>1</sup>As of the report reference date.

Sources: Capital IQ; Bloomberg; International Monetary Fund – “World Economic Outlook,” July 2022; Kroll analysis



# Country Snapshot: United Kingdom



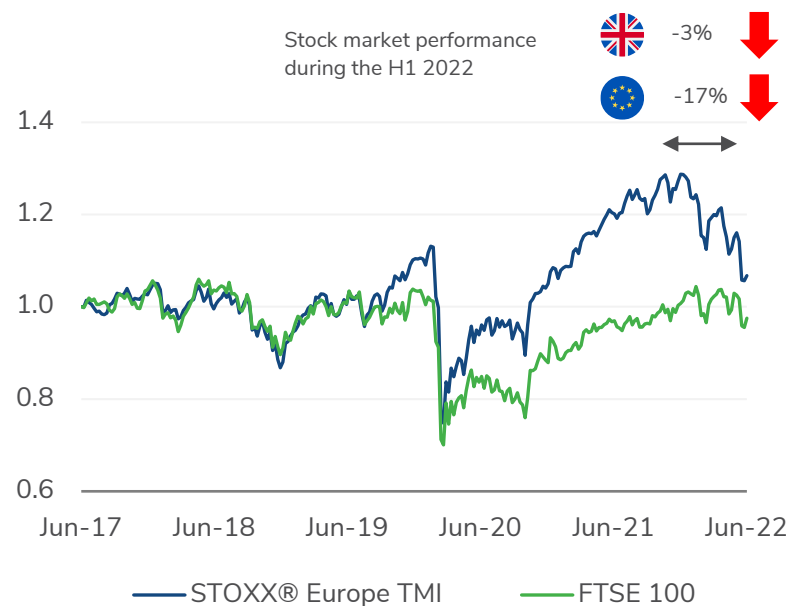
Contact:  
**MATHIAS SCHUMACHER**  
 Managing Director  
 Tel +44 207 089 4720  
 E: [mathias.schumacher@kroll.com](mailto:mathias.schumacher@kroll.com)

The FTSE 100 index is a capitalization-weighted index of the 100 most highly capitalized companies traded on the London Stock Exchange. It is typically used as the benchmark stock market index in the UK. The percentage of UK companies in the STOXX® Europe TMI is 15%, with 94% of the constituents of the FTSE 100 being comprised within the European index.

In the first half of 2022, the FTSE 100 decreased (in price terms) by 3.2%, compared to the 17% decrease in the STOXX® Europe TMI. The UK's real GDP is expected to grow by 3.2% in 2022 and 0.5% in 2023, according to the IMF's latest World Economic Outlook (July 2022).

## FTSE 100 Spotlight

### 5Y Evolution: FTSE 100 and STOXX® Europe TMI



### Top 5 Industries

Industry	Market Cap (€ bn) <sup>1</sup>	% of FTSE 100	Number of Companies
Pharmaceuticals, Biotechnology and Life Sciences	307	13%	4
Materials	286	12%	11
Energy	272	12%	3
Banks	234	10%	5
Food, Beverage and Tobacco	228	10%	5

FTSE 100  
Market Cap<sup>1</sup>

€2,316  
bn

<sup>1</sup>As of the report reference date. Exchange rate as of June 30, 2022, provided by Capital IQ.

Sources: Capital IQ; Bloomberg; International Monetary Fund – "World Economic Outlook," July 2022; Kroll analysis.

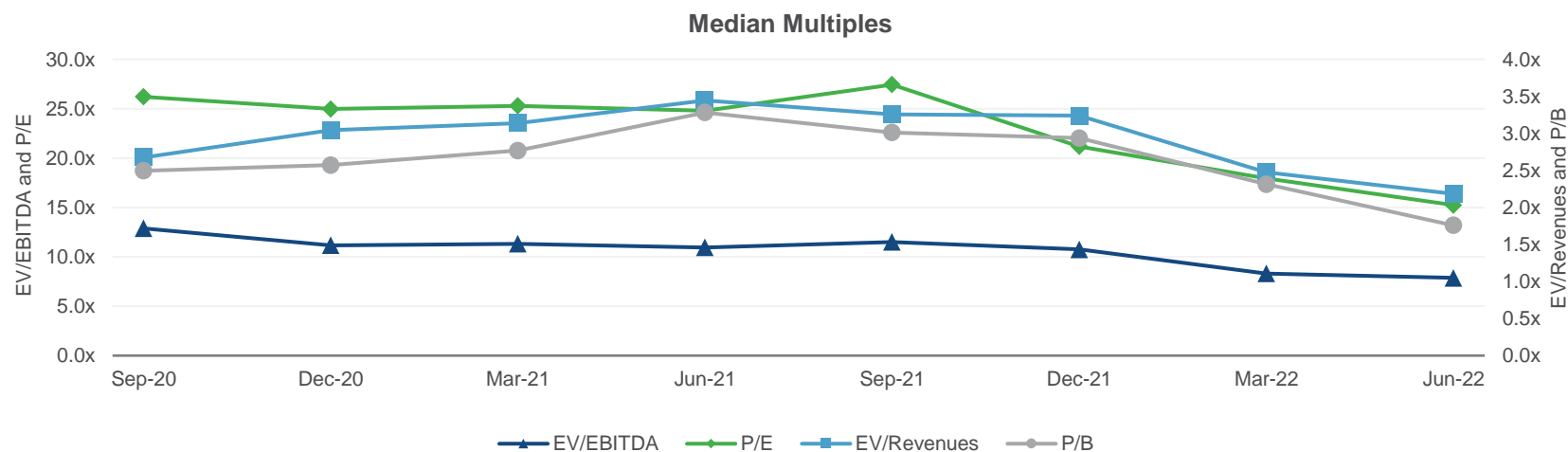
# Media and Entertainment

Q2 2022

# Media and Entertainment

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	54	54	54	54
Number of Outliers <sup>2</sup>	6	7	17	9
High	14.6x	29.1x	56.4x	8.5x
3rd Quartile	3.6x	16.6x	39.9x	2.9x
<b>Mean</b>	<b>3.0x</b>	<b>11.0x</b>	<b>21.7x</b>	<b>2.6x</b>
<b>Median</b>	<b>2.2x</b>	<b>7.9x</b>	<b>15.2x</b>	<b>1.8x</b>
1st Quartile	1.0x	4.4x	9.2x	1.3x
Low	0.4x	1.9x	5.4x	0.7x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

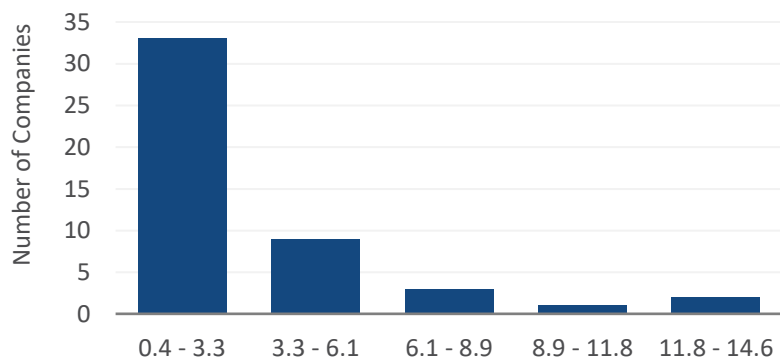
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

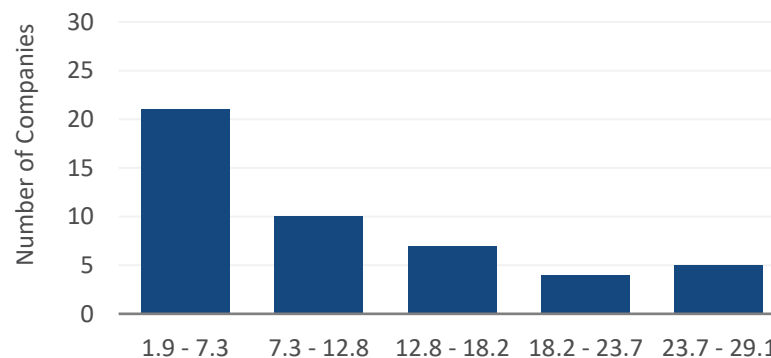
# Media and Entertainment

As of June 30, 2022

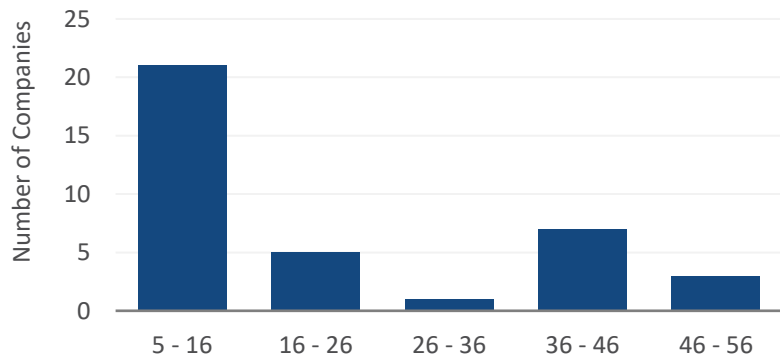
EV/Revenues



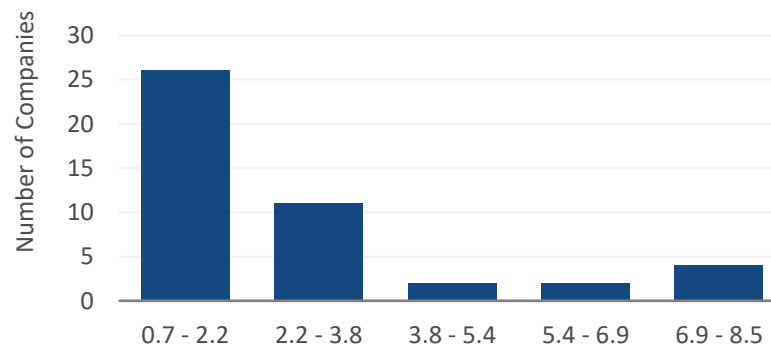
EV/EBITDA



P/E



P/B



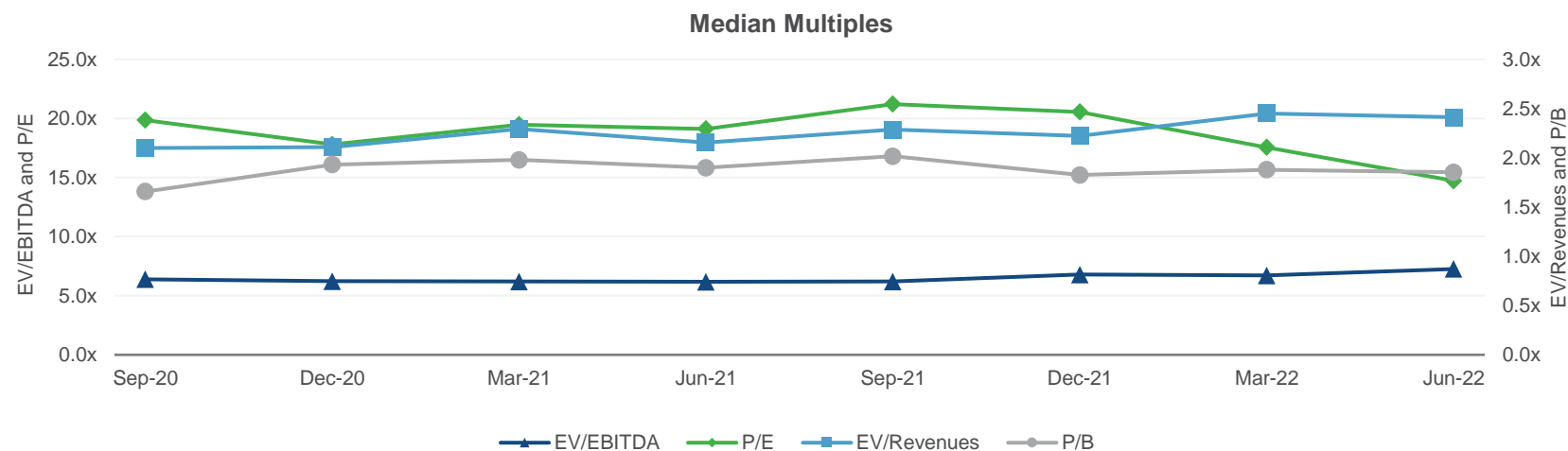
# Telecommunication Services

Q2 2022

# Telecommunication Services

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	26	26	26	26
Number of Outliers <sup>2</sup>	4	5	7	4
High	7.9x	14.0x	50.5x	8.4x
3rd Quartile	3.6x	9.6x	20.4x	2.4x
<b>Mean</b>	<b>3.0x</b>	<b>7.5x</b>	<b>18.9x</b>	<b>2.5x</b>
<b>Median</b>	<b>2.4x</b>	<b>7.3x</b>	<b>14.7x</b>	<b>1.9x</b>
1st Quartile	1.7x	5.2x	14.0x	1.4x
Low	1.4x	3.9x	10.2x	0.8x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

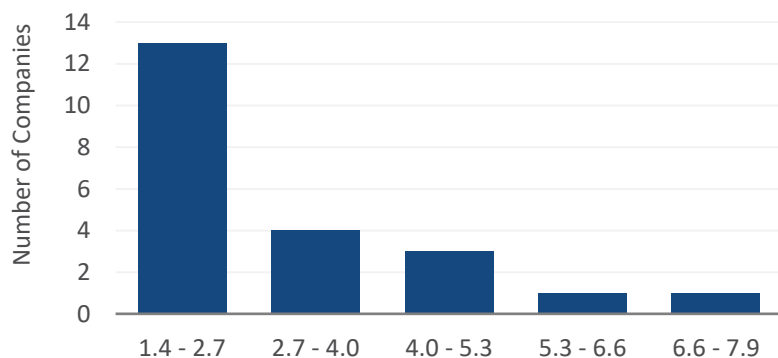
<sup>2</sup> Outliers have been excluded from the included multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

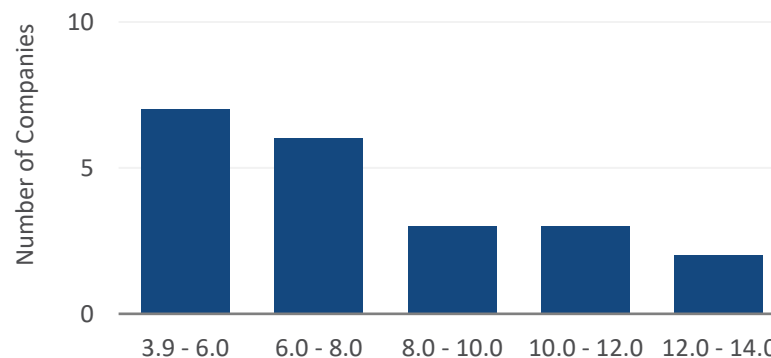
# Telecommunication Services

As of June 30, 2022

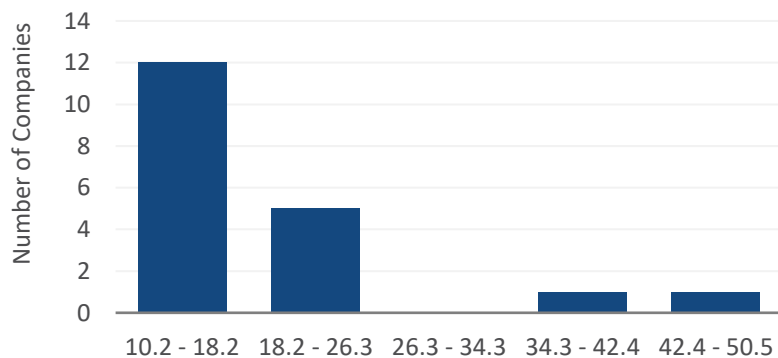
EV/Revenues



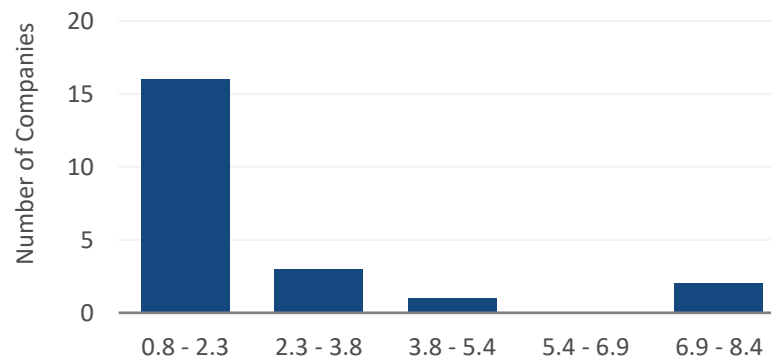
EV/EBITDA



P/E



P/B



# Automobiles and Components

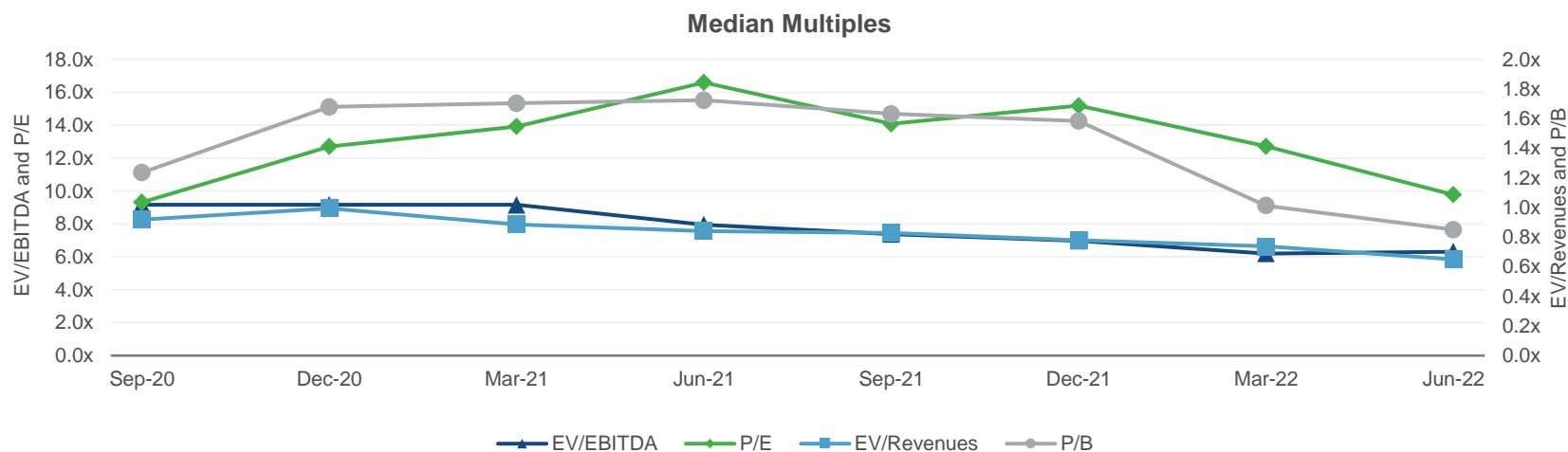
Q2 2022



# Automobiles and Components

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	27	27	27	27
Number of Outliers <sup>2</sup>	4	4	7	4
High	1.3x	13.3x	80.8x	1.9x
3rd Quartile	1.0x	7.4x	14.8x	1.2x
<b>Mean</b>	<b>0.7x</b>	<b>6.6x</b>	<b>18.5x</b>	<b>0.9x</b>
<b>Median</b>	<b>0.7x</b>	<b>6.3x</b>	<b>9.8x</b>	<b>0.8x</b>
1st Quartile	0.5x	5.7x	6.8x	0.6x
Low	0.3x	3.5x	3.3x	0.5x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

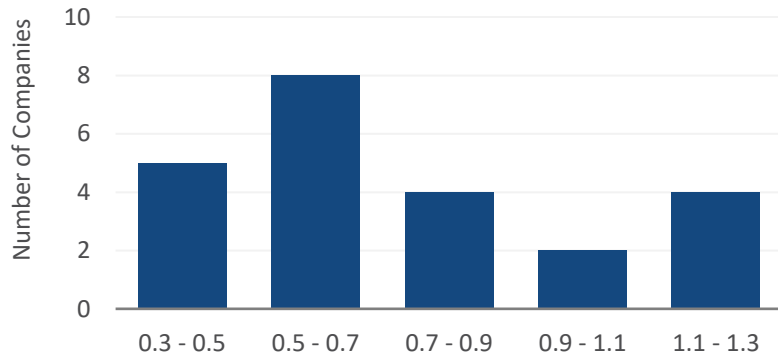
<sup>2</sup> Outliers have been excluded from the included multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

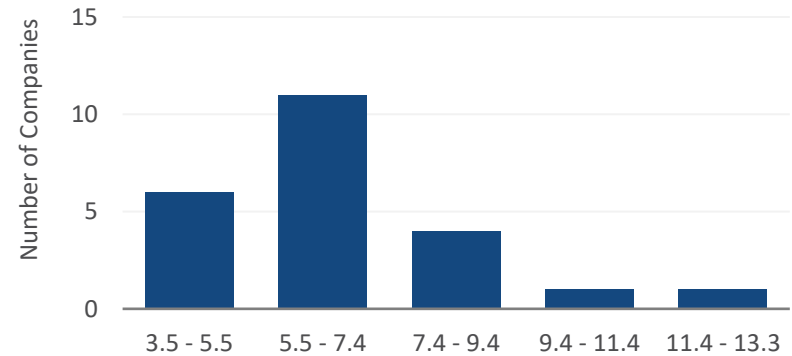
# Automobiles and Components

As of June 30, 2022

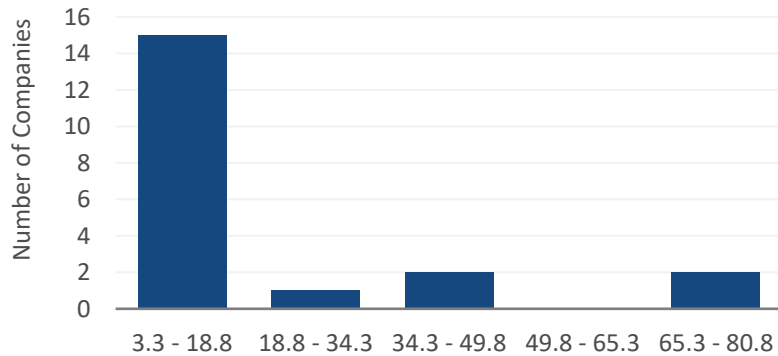
EV/Revenues



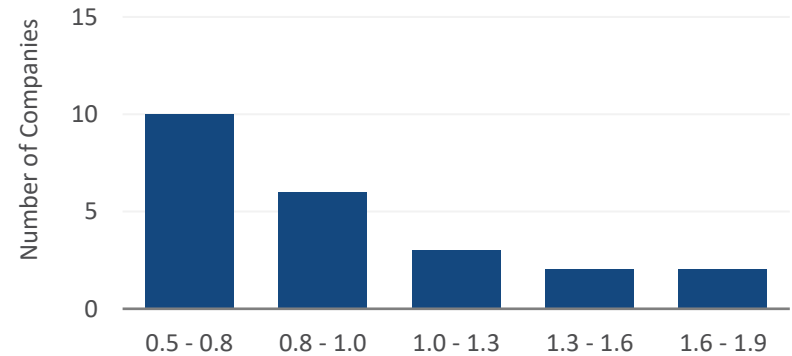
EV/EBITDA



P/E



P/B



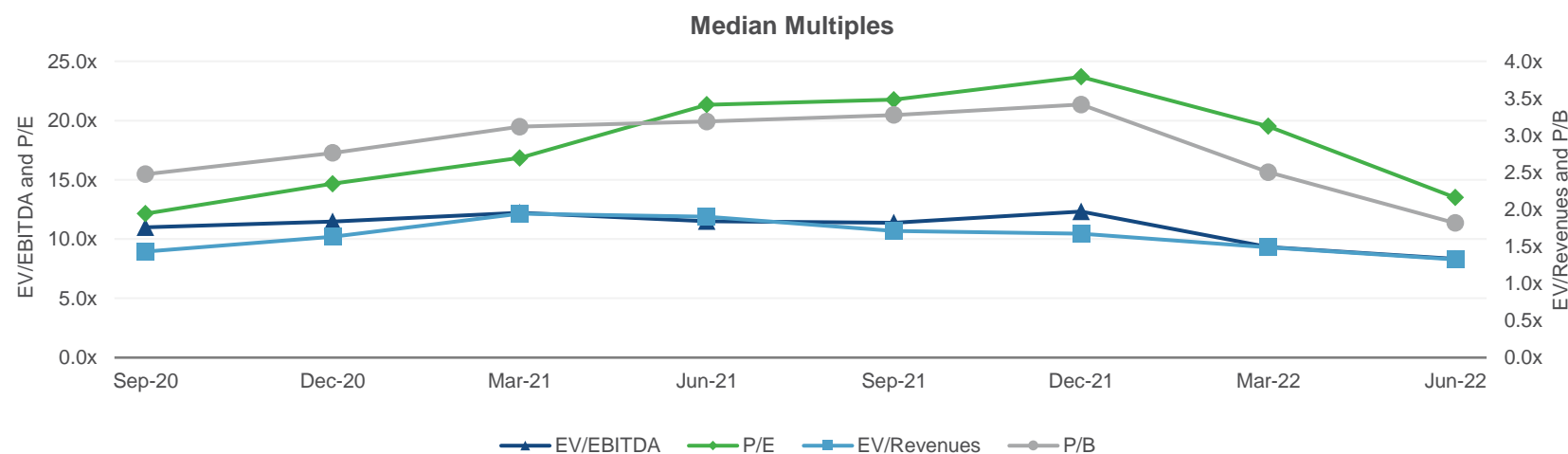
# Consumer Durables and Apparel

Q2 2022

# Consumer Durables and Apparel

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	57	57	57	57
Number of Outliers <sup>2</sup>	6	7	11	8
High	5.2x	14.7x	33.0x	10.9x
3rd Quartile	2.1x	11.4x	19.1x	4.3x
<b>Mean</b>	<b>1.7x</b>	<b>8.5x</b>	<b>15.4x</b>	<b>3.1x</b>
<b>Median</b>	<b>1.3x</b>	<b>8.2x</b>	<b>13.5x</b>	<b>1.8x</b>
1st Quartile	0.8x	5.9x	10.0x	1.3x
Low	0.5x	3.7x	6.0x	0.7x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

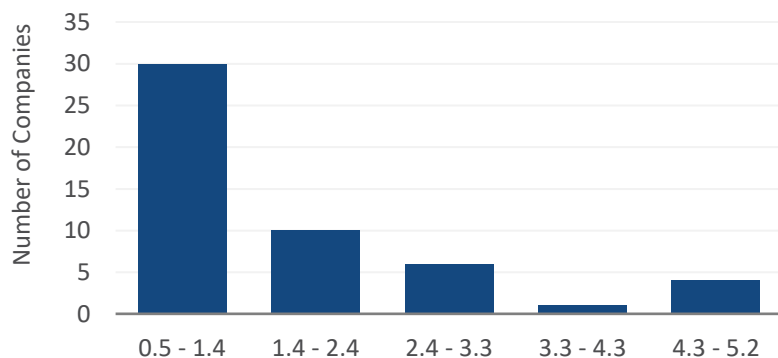
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

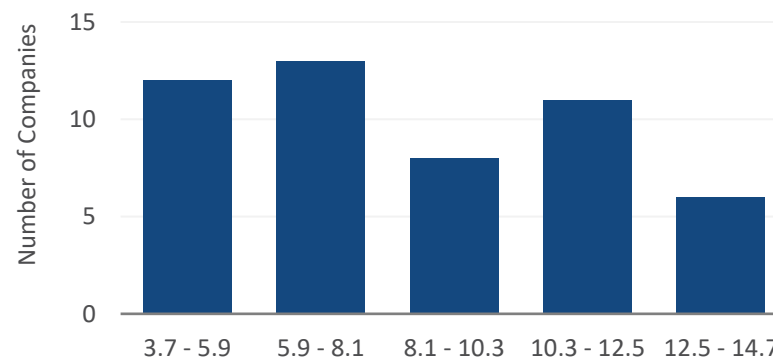
# Consumer Durables and Apparel

As of June 30, 2022

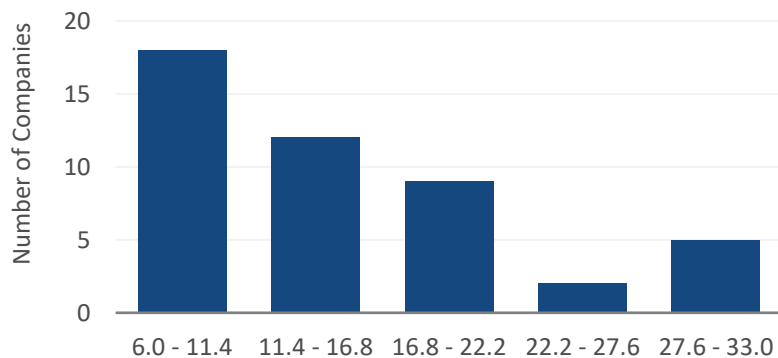
EV/Revenues



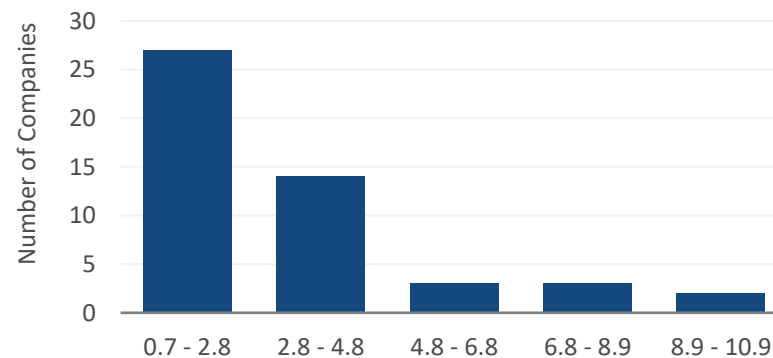
EV/EBITDA



P/E



P/B



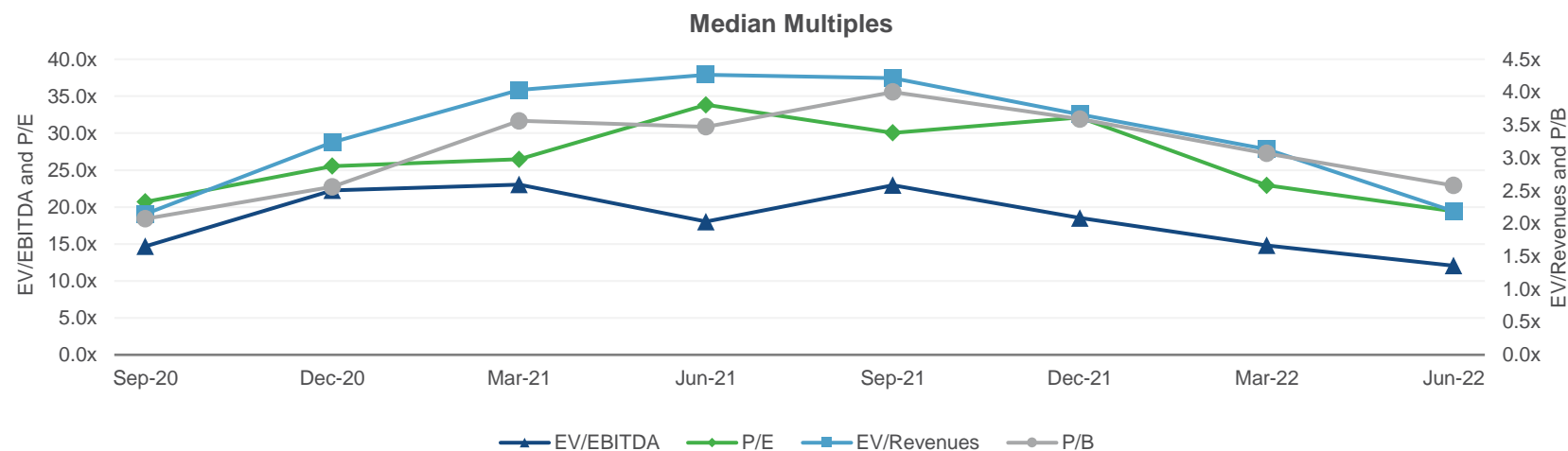
# Consumer Services

Q2 2022

# Consumer Services

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	40	40	40	40
Number of Outliers <sup>2</sup>	4	6	22	7
High	6.9x	44.9x	44.2x	8.2x
3rd Quartile	3.2x	20.0x	25.5x	4.7x
<b>Mean</b>	<b>2.4x</b>	<b>14.4x</b>	<b>20.4x</b>	<b>3.1x</b>
<b>Median</b>	<b>2.2x</b>	<b>12.3x</b>	<b>19.8x</b>	<b>2.6x</b>
1st Quartile	1.4x	8.3x	11.6x	1.3x
Low	0.7x	5.0x	6.4x	0.7x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

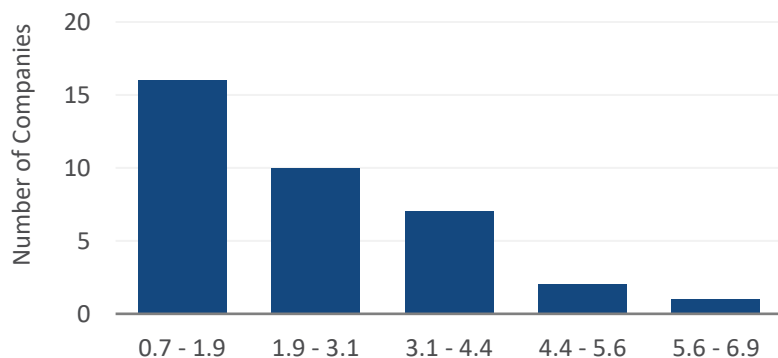
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

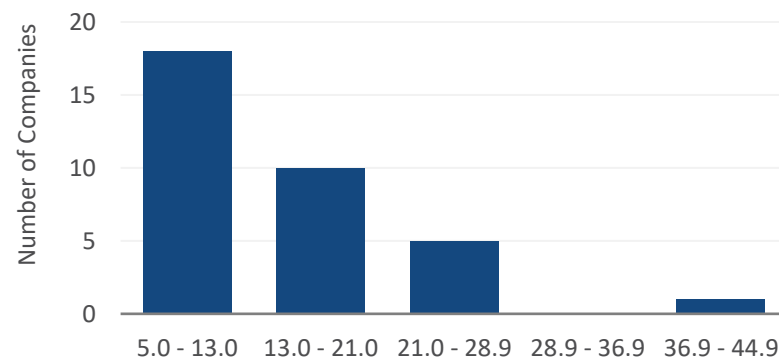
# Consumer Services

As of June 30, 2022

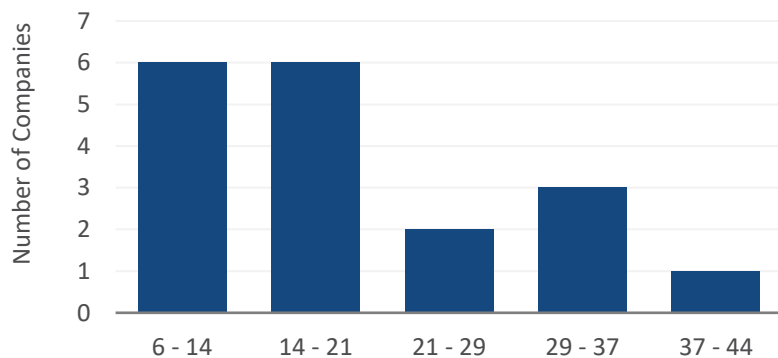
EV/Revenues



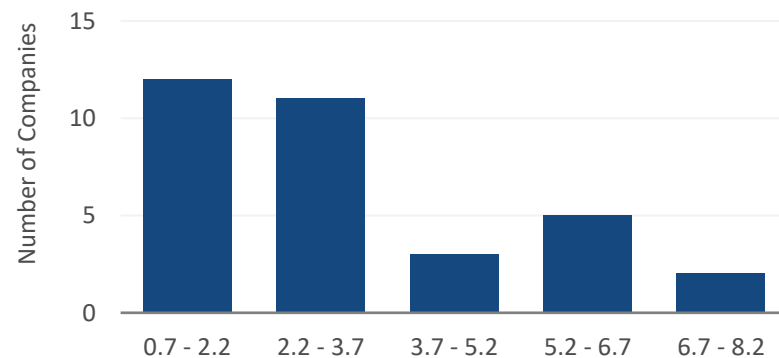
EV/EBITDA



P/E



P/B





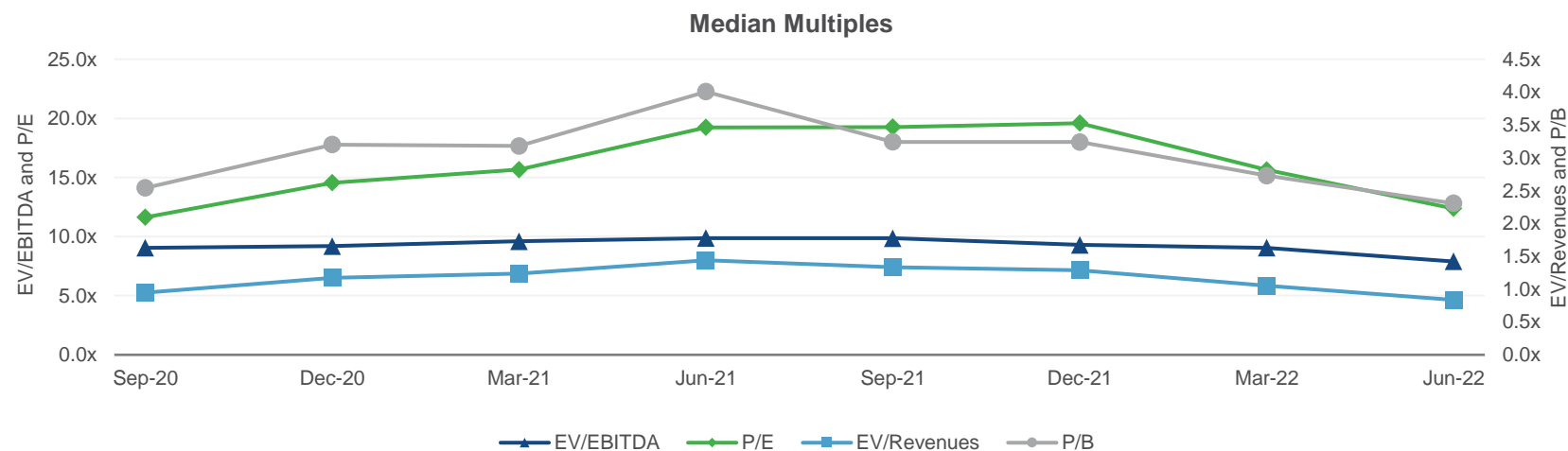
# Retailing

Q2 2022

# Retailing

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	63	63	63	63
Number of Outliers <sup>2</sup>	8	11	19	9
High	2.5x	25.3x	37.1x	5.8x
3rd Quartile	1.4x	11.2x	19.6x	3.1x
<b>Mean</b>	<b>1.0x</b>	<b>8.9x</b>	<b>15.5x</b>	<b>2.4x</b>
<b>Median</b>	<b>0.8x</b>	<b>8.0x</b>	<b>12.4x</b>	<b>2.3x</b>
1st Quartile	0.5x	5.5x	9.5x	1.3x
Low	0.2x	3.8x	5.8x	0.6x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

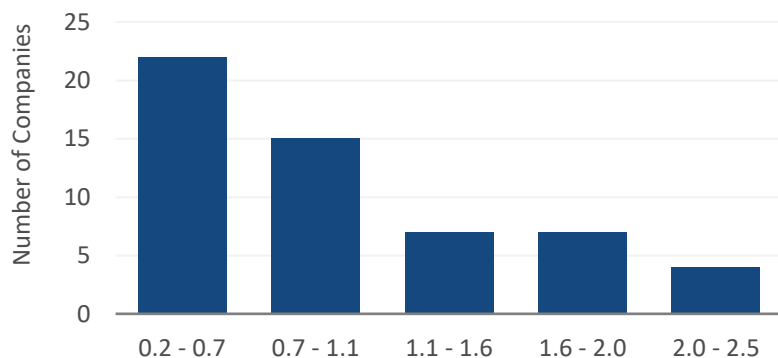
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

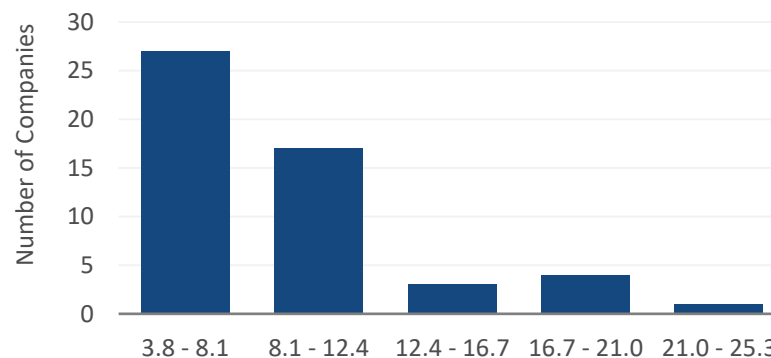
# Retailing

As of June 30, 2022

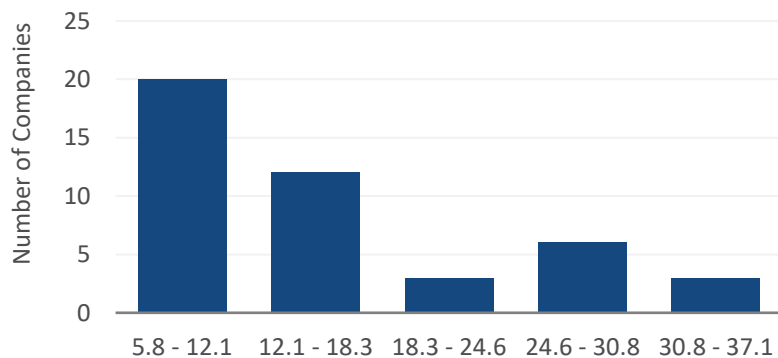
EV/Revenues



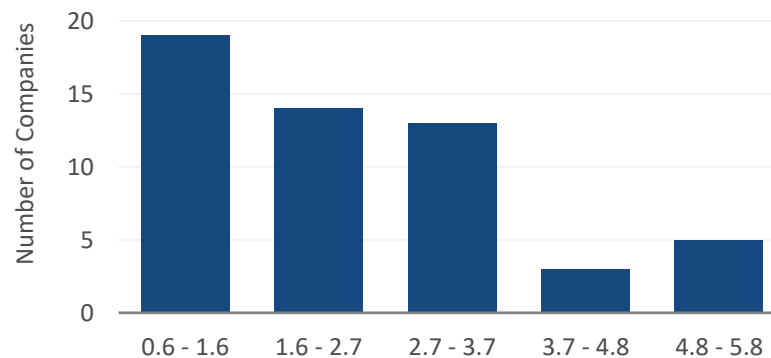
EV/EBITDA



P/E



P/B



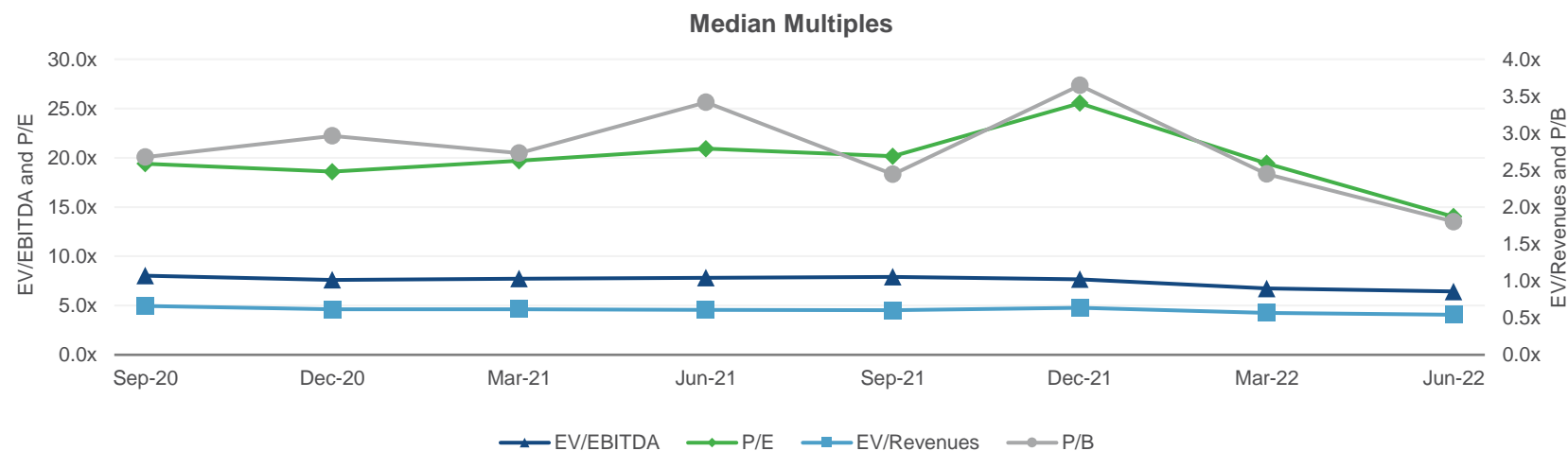
# Food and Staples Retailing

Q2 2022

# Food and Staples Retailing

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	19	19	19	19
Number of Outliers <sup>2</sup>	2	5	6	2
High	2.0x	13.6x	35.1x	8.8x
3rd Quartile	0.8x	8.7x	27.3x	4.0x
<b>Mean</b>	<b>0.7x</b>	<b>7.5x</b>	<b>18.4x</b>	<b>2.9x</b>
<b>Median</b>	<b>0.5x</b>	<b>6.4x</b>	<b>14.0x</b>	<b>1.8x</b>
1st Quartile	0.4x	5.1x	11.0x	1.3x
Low	0.2x	4.7x	7.8x	0.6x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

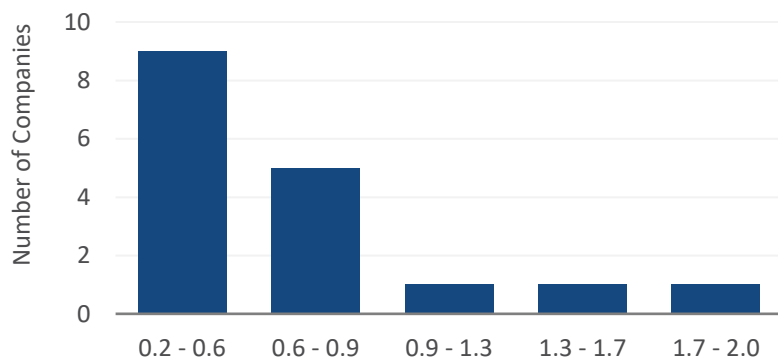
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

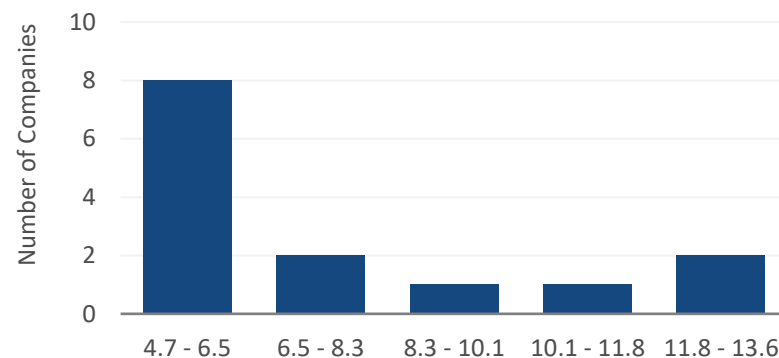
# Food and Staples Retailing

As of June 30, 2022

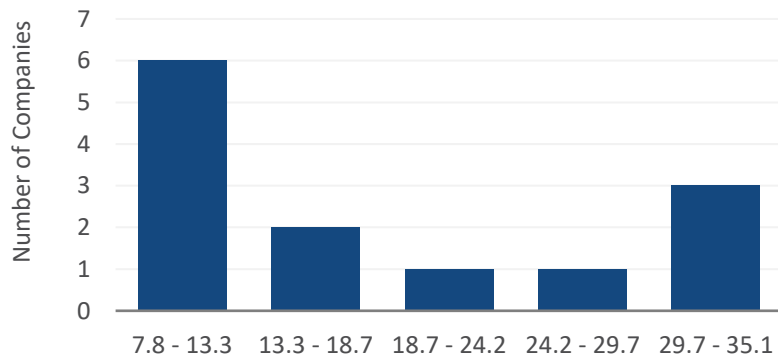
EV/Revenues



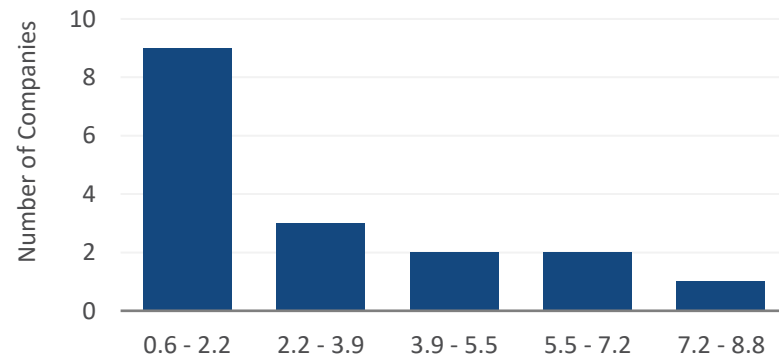
EV/EBITDA



P/E



P/B



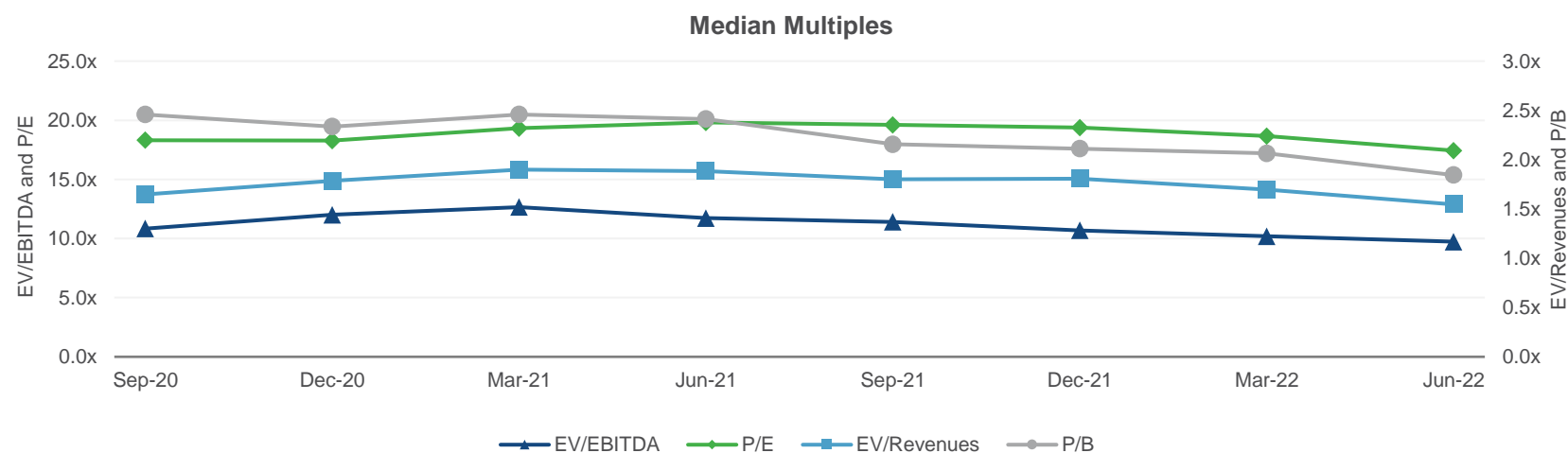
# Food, Beverage and Tobacco

Q2 2022

# Food, Beverage and Tobacco

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	58	58	58	58
Number of Outliers <sup>2</sup>	6	8	11	7
High	6.7x	19.8x	38.8x	6.9x
3rd Quartile	2.6x	12.1x	22.8x	2.9x
<b>Mean</b>	<b>2.1x</b>	<b>10.3x</b>	<b>18.9x</b>	<b>2.3x</b>
<b>Median</b>	<b>1.5x</b>	<b>9.7x</b>	<b>17.7x</b>	<b>1.8x</b>
1st Quartile	0.8x	7.4x	13.5x	1.1x
Low	0.3x	4.4x	7.1x	0.5x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

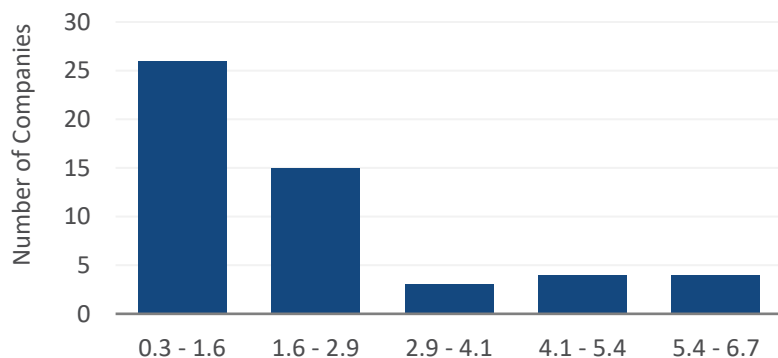
Sources: Capital IQ; Bloomberg; Kroll analysis.



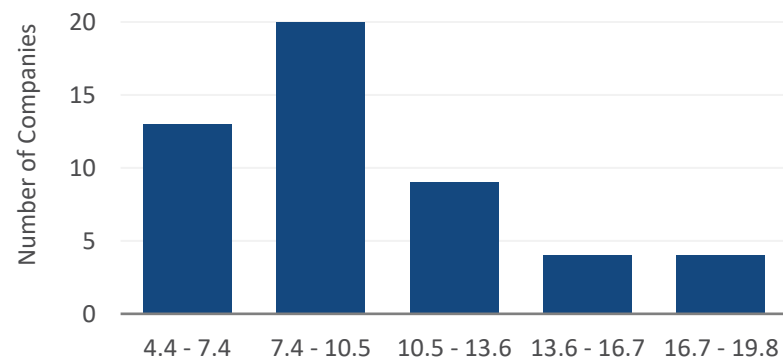
# Food, Beverage and Tobacco

As of June 30, 2022

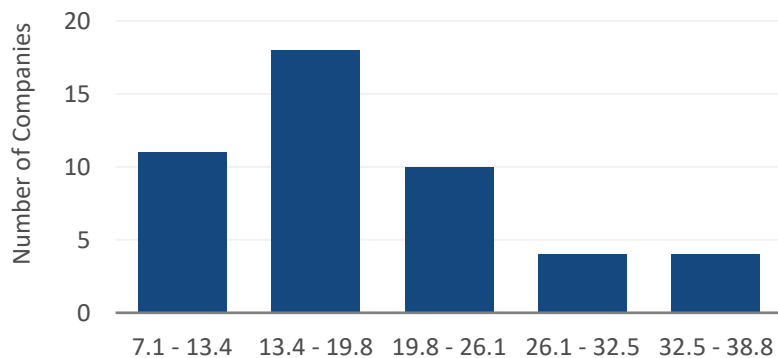
EV/Revenues



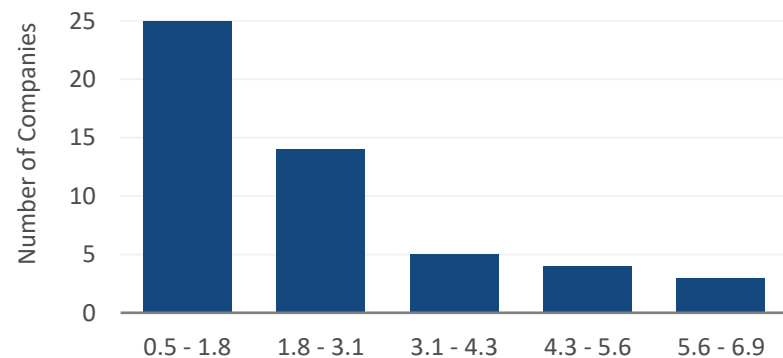
EV/EBITDA



P/E



P/B



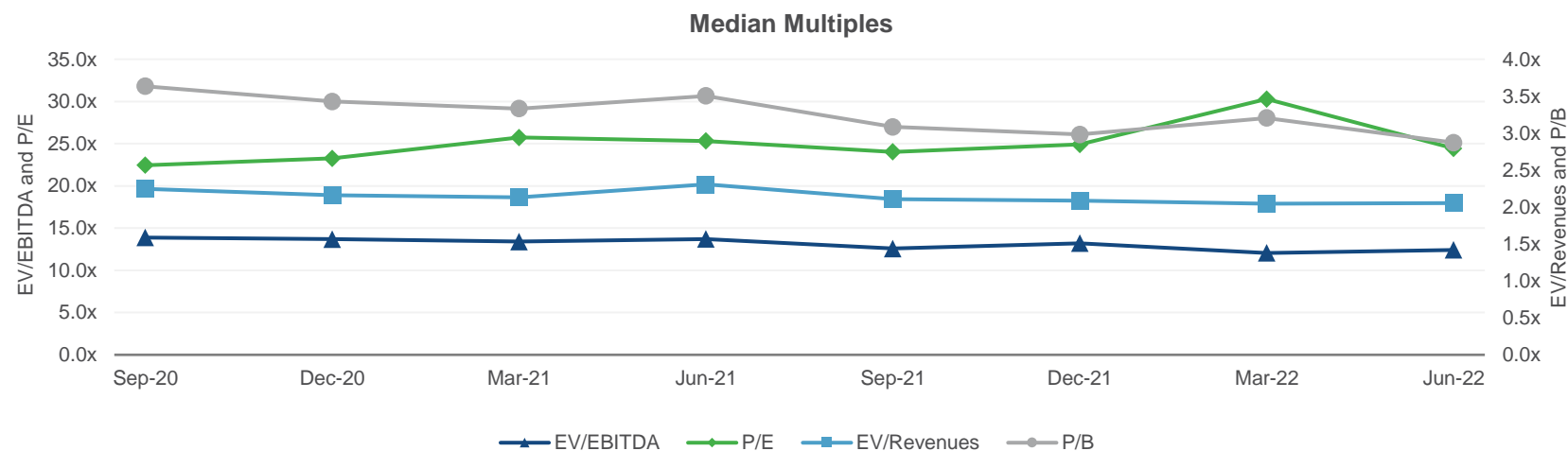
# Household and Personal Products

Q2 2022

# Household and Personal Products

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	11	11	11	11
Number of Outliers <sup>2</sup>	2	2	4	2
High	4.8x	22.6x	34.8x	7.0x
3rd Quartile	3.9x	14.9x	30.2x	5.2x
<b>Mean</b>	<b>2.6x</b>	<b>14.3x</b>	<b>24.9x</b>	<b>3.6x</b>
<b>Median</b>	<b>2.1x</b>	<b>12.4x</b>	<b>24.5x</b>	<b>2.9x</b>
1st Quartile	1.4x	12.0x	19.1x	2.1x
Low	0.7x	9.7x	16.6x	1.1x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

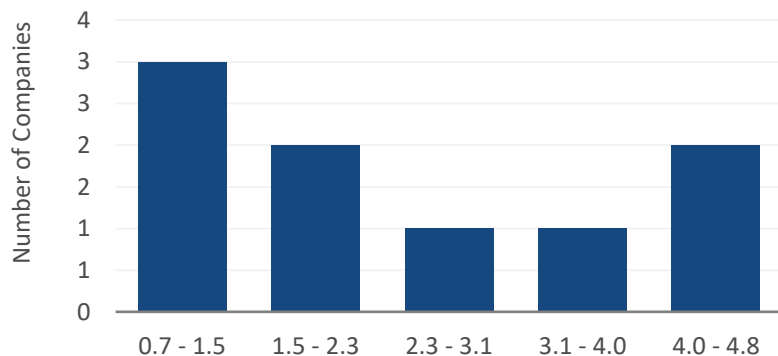
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

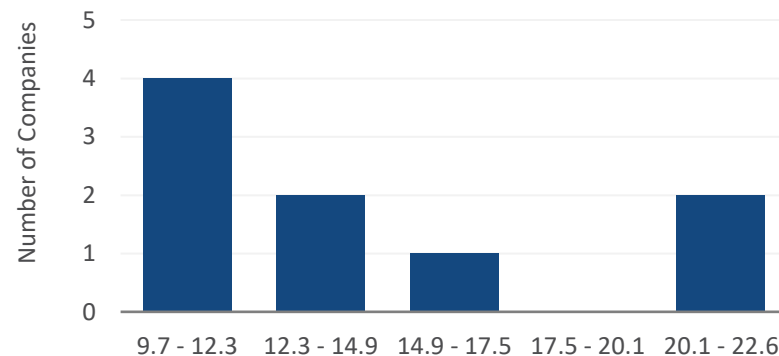
# Household and Personal Products

As of June 30, 2022

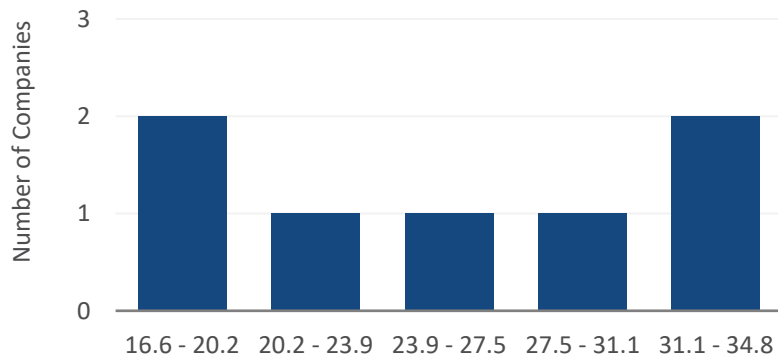
EV/Revenues



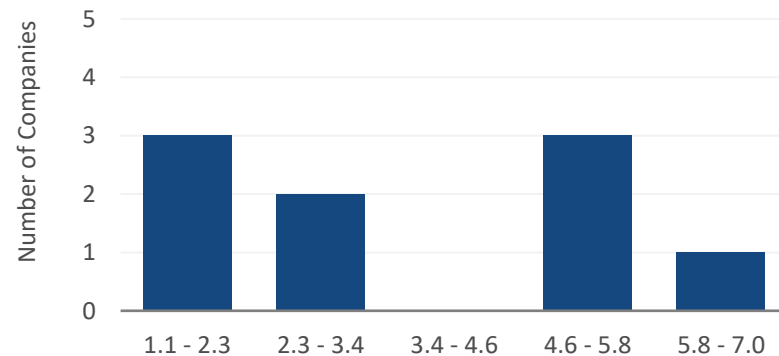
EV/EBITDA



P/E



P/B



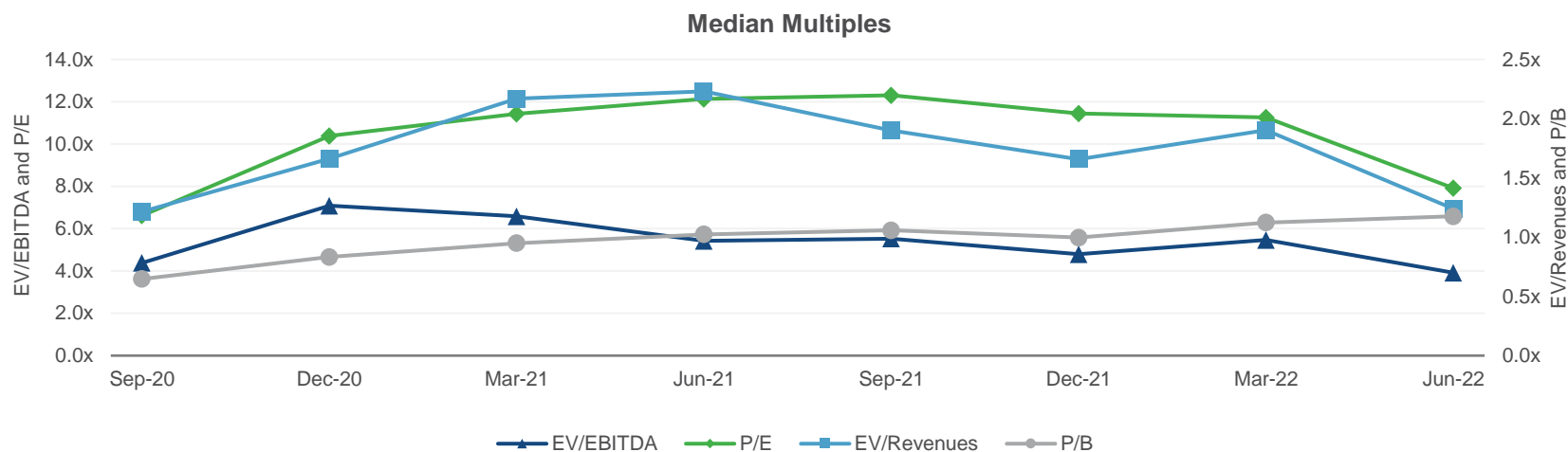
# Energy

Q2 2022

# Energy

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	51	51	51	51
Number of Outliers <sup>2</sup>	9	10	17	8
High	6.3x	15.4x	36.9x	4.2x
3rd Quartile	2.2x	7.7x	14.7x	1.5x
<b>Mean</b>	<b>1.6x</b>	<b>5.2x</b>	<b>11.1x</b>	<b>1.3x</b>
<b>Median</b>	<b>1.2x</b>	<b>3.9x</b>	<b>7.9x</b>	<b>1.2x</b>
1st Quartile	0.6x	2.2x	4.4x	0.8x
Low	0.3x	1.3x	3.0x	0.5x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

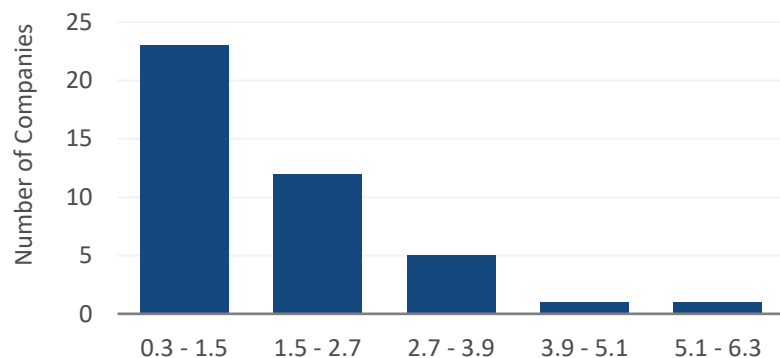
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

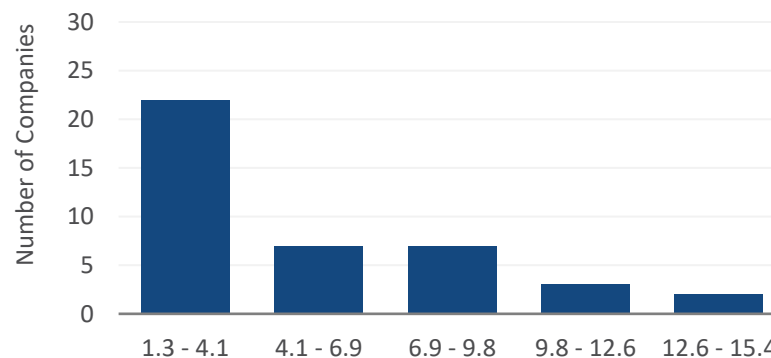
# Energy

As of June 30, 2022

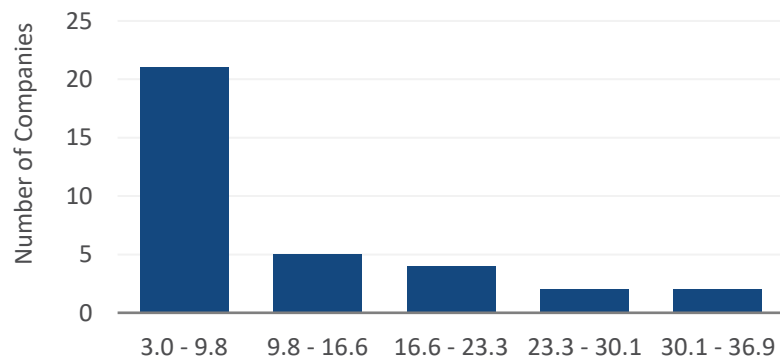
EV/Revenues



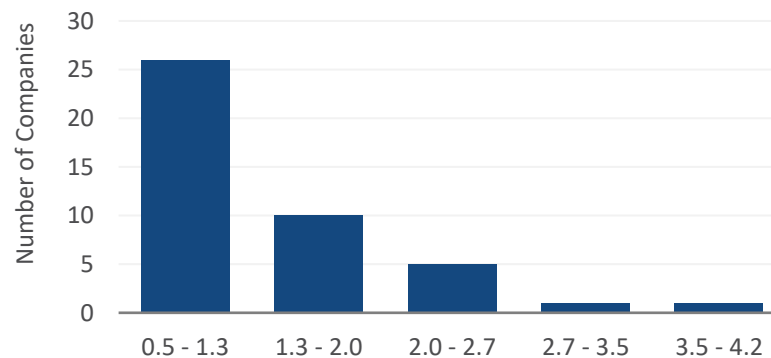
EV/EBITDA



P/E



P/B



# Financials

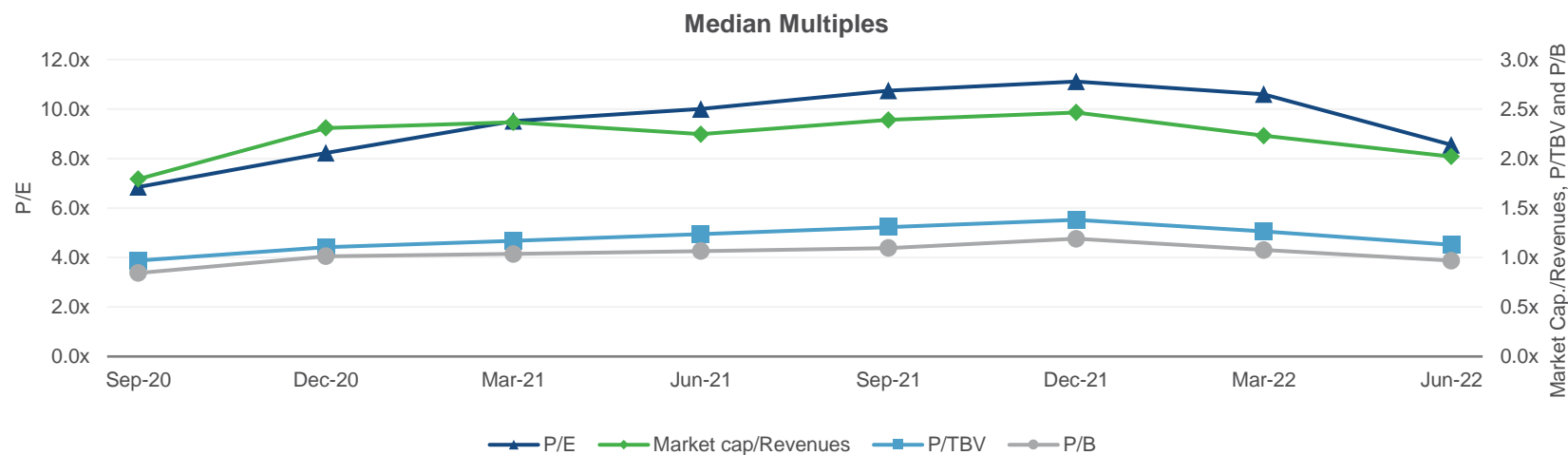
Q2 2022



# Financials

As of June 30, 2022

	Market Cap./Revenues	P/TBV	P/E	P/B
Number of Observations <sup>1</sup>	196	196	196	196
Number of Outliers <sup>2</sup>	34	34	39	22
High	8.1x	8.8x	38.4x	5.3x
3rd Quartile	3.1x	2.6x	13.1x	1.7x
<b>Mean</b>	<b>2.4x</b>	<b>1.9x</b>	<b>11.1x</b>	<b>1.3x</b>
<b>Median</b>	<b>2.0x</b>	<b>1.1x</b>	<b>8.6x</b>	<b>1.0x</b>
1st Quartile	1.2x	0.7x	6.7x	0.7x
Low	0.4x	0.3x	3.7x	0.3x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

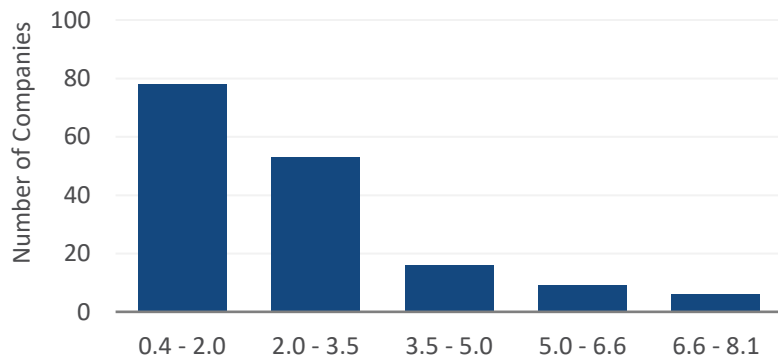
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

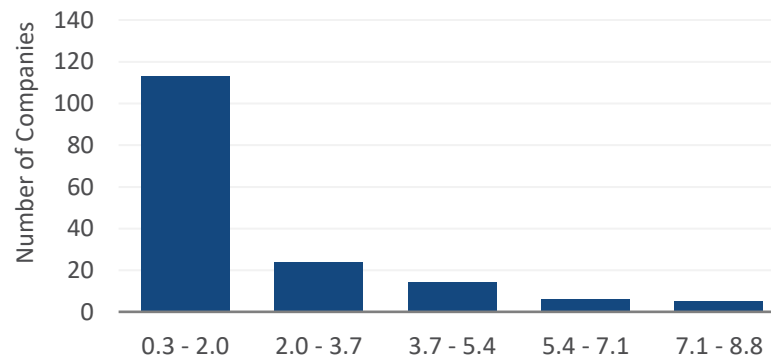
# Financials

As of June 30, 2022

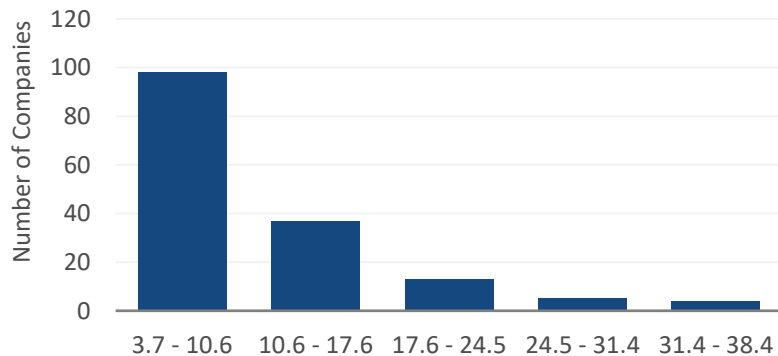
Market Cap./Revenues



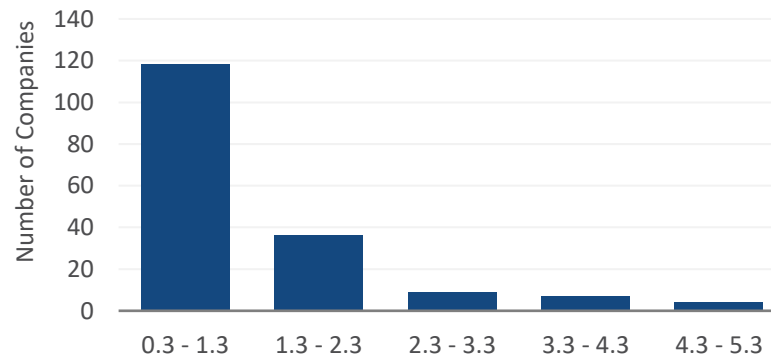
P/TBV



P/E



P/B



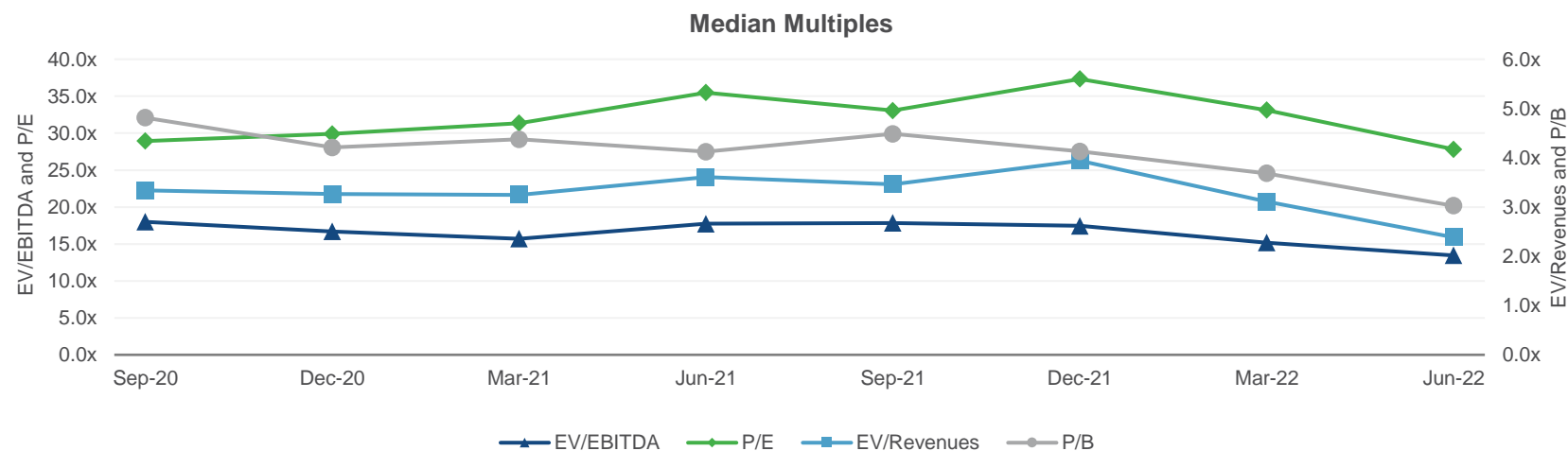
# Health Care Equipment and Services

Q2 2022

# Health Care Equipment and Services

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	51	51	51	51
Number of Outliers <sup>2</sup>	6	8	10	7
High	12.9x	37.5x	100.1x	10.5x
3rd Quartile	4.0x	18.4x	37.8x	4.3x
<b>Mean</b>	<b>3.1x</b>	<b>15.1x</b>	<b>34.1x</b>	<b>3.3x</b>
<b>Median</b>	<b>2.4x</b>	<b>13.5x</b>	<b>27.8x</b>	<b>3.0x</b>
1st Quartile	1.5x	10.9x	19.3x	1.3x
Low	0.3x	7.4x	11.3x	0.6x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

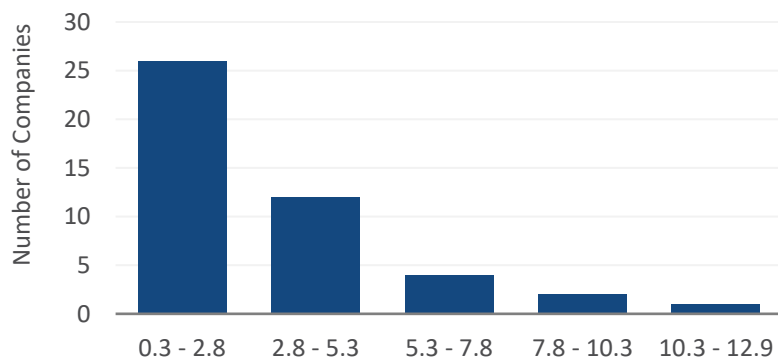
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

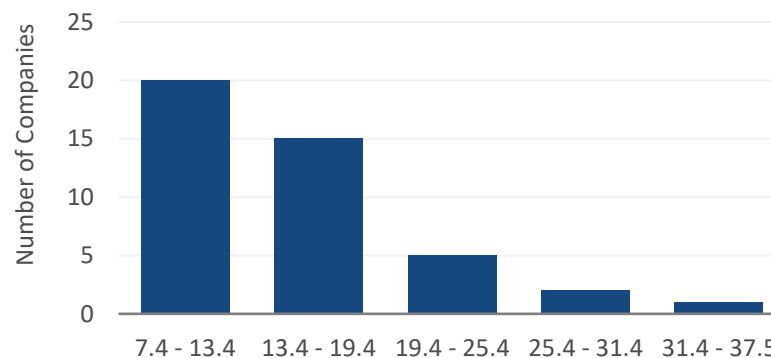
# Health Care Equipment and Services

As of June 30, 2022

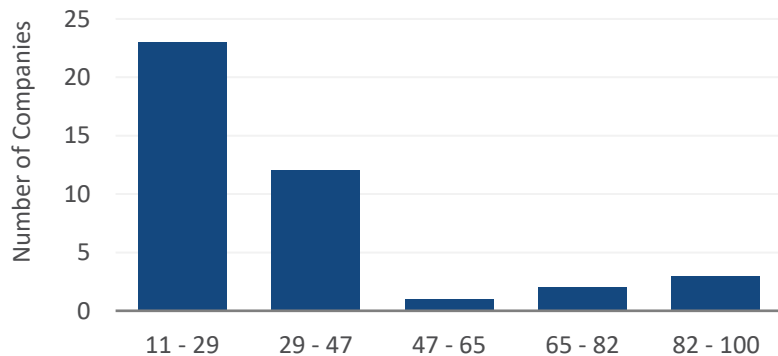
EV/Revenues



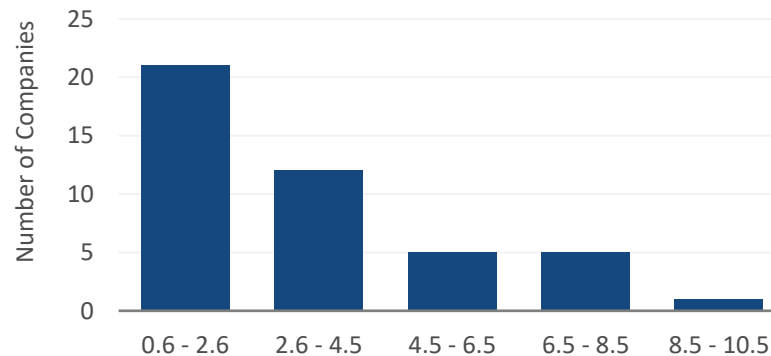
EV/EBITDA



P/E



P/B



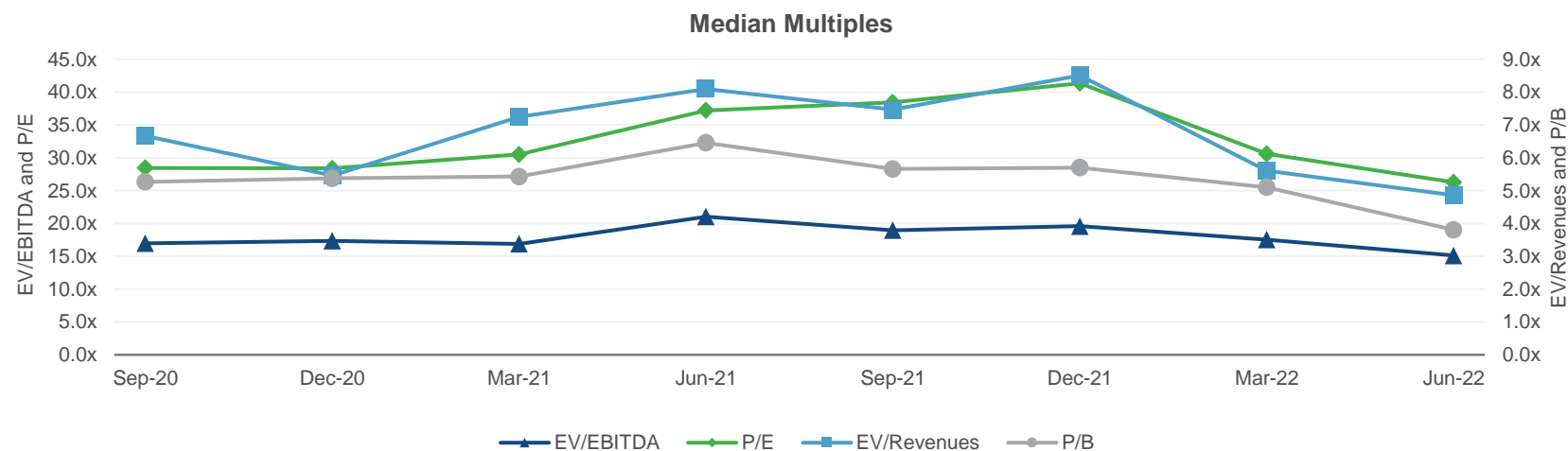
# Pharmaceuticals, Biotechnology and Life Sciences

Q2 2022

# Pharmaceuticals, Biotechnology and Life Sciences

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	75	75	75	75
Number of Outliers <sup>2</sup>	12	29	33	14
High	74.6x	44.1x	82.6x	13.5x
3rd Quartile	9.2x	26.3x	43.9x	6.2x
<b>Mean</b>	<b>9.1x</b>	<b>19.9x</b>	<b>34.9x</b>	<b>4.8x</b>
<b>Median</b>	<b>4.9x</b>	<b>15.7x</b>	<b>26.7x</b>	<b>3.8x</b>
1st Quartile	3.0x	11.8x	20.4x	2.4x
Low	2.1x	9.2x	11.8x	1.3x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

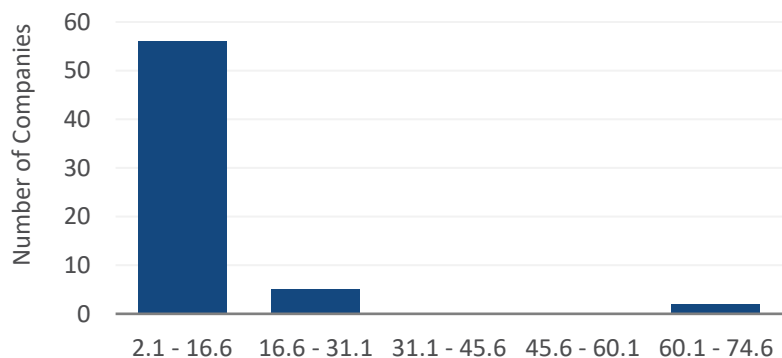
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

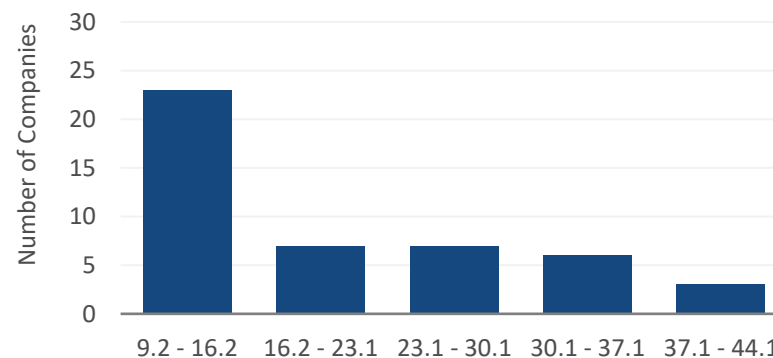
# Pharmaceuticals, Biotechnology and Life Sciences

As of June 30, 2022

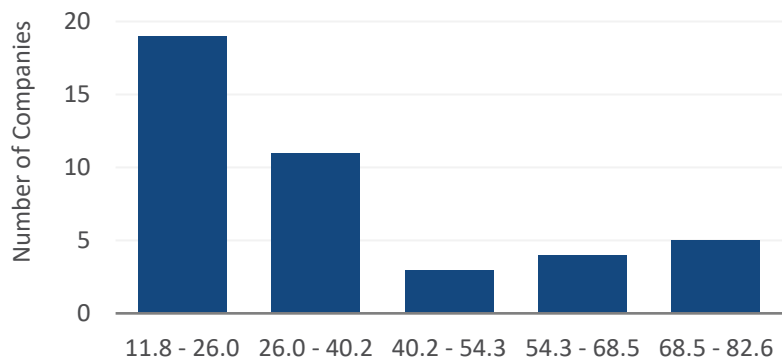
EV/Revenues



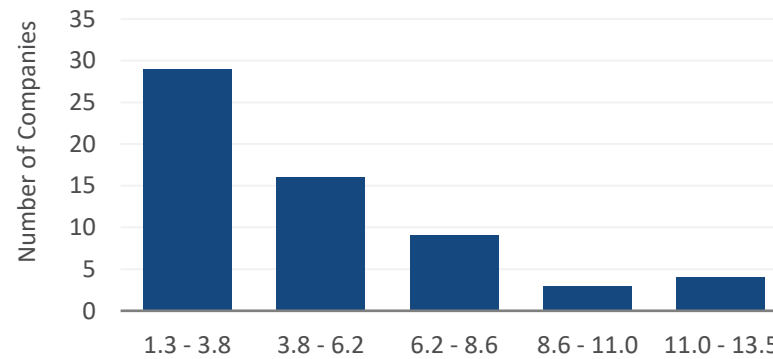
EV/EBITDA



P/E



P/B





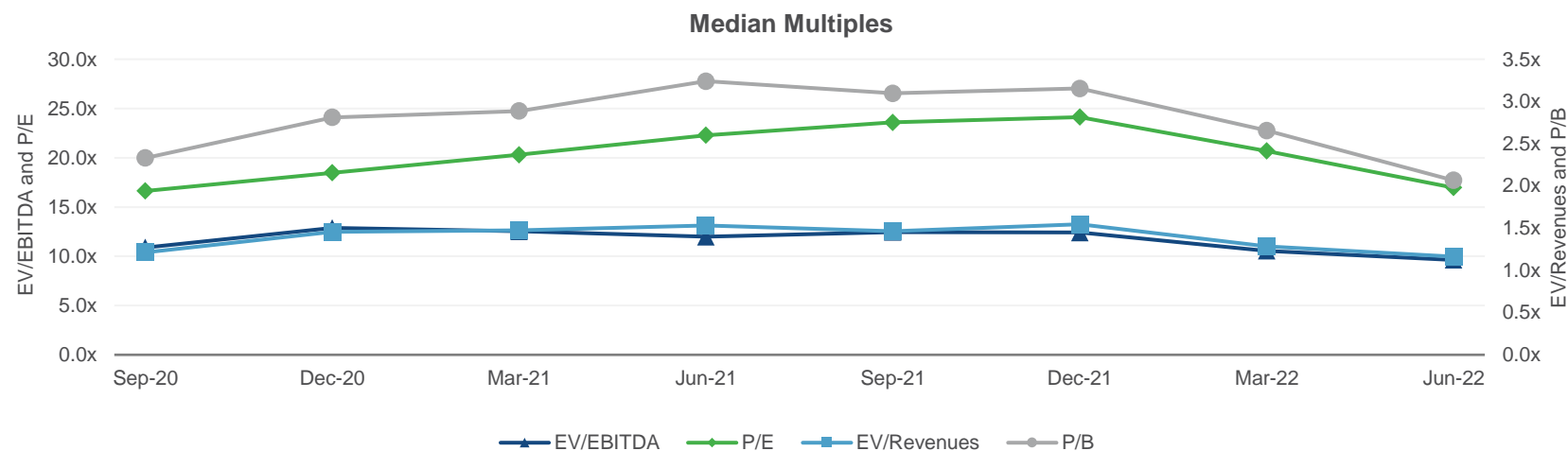
# Capital Goods

Q2 2022

# Capital Goods

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	226	226	226	226
Number of Outliers <sup>2</sup>	26	29	50	28
High	5.2x	29.3x	48.6x	8.8x
3rd Quartile	2.0x	13.3x	24.7x	3.5x
<b>Mean</b>	<b>1.5x</b>	<b>10.9x</b>	<b>19.4x</b>	<b>2.7x</b>
<b>Median</b>	<b>1.2x</b>	<b>9.7x</b>	<b>17.1x</b>	<b>2.1x</b>
1st Quartile	0.7x	6.8x	12.1x	1.4x
Low	0.2x	3.6x	6.6x	0.8x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

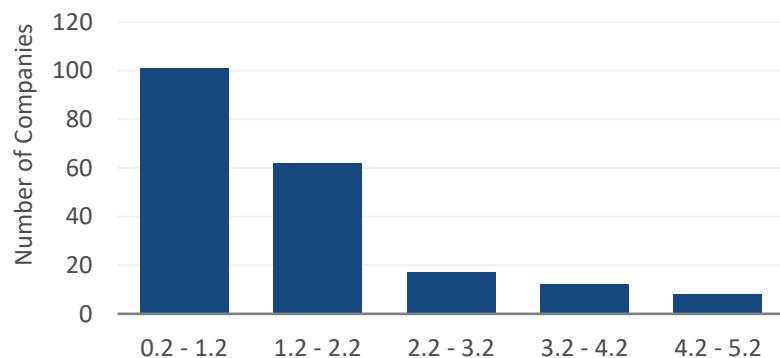
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

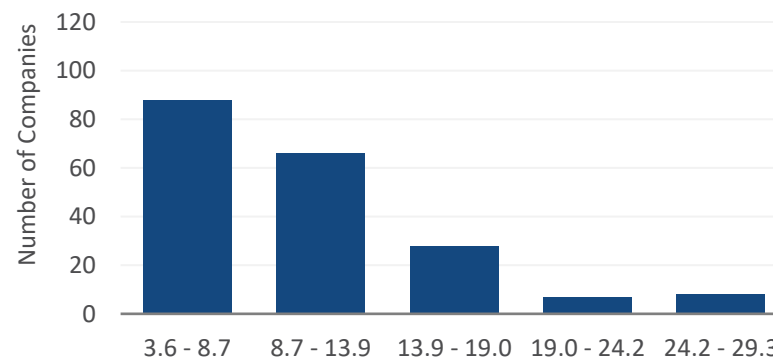
# Capital Goods

As of June 30, 2022

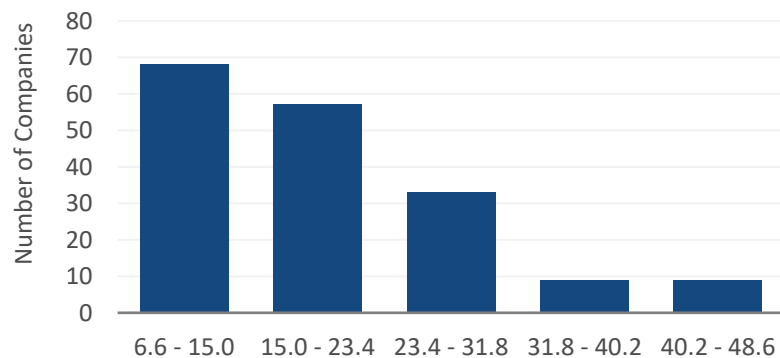
EV/Revenues



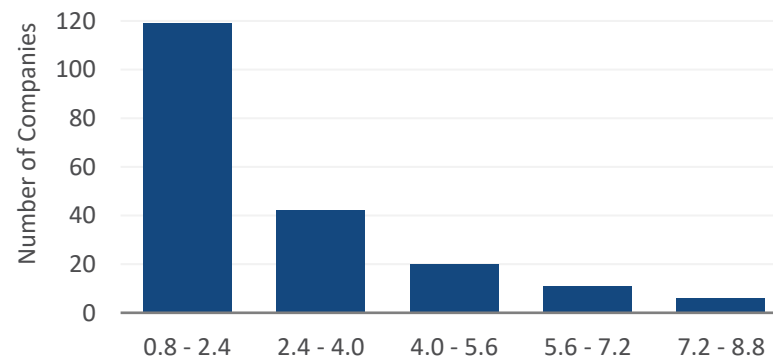
EV/EBITDA



P/E



P/B



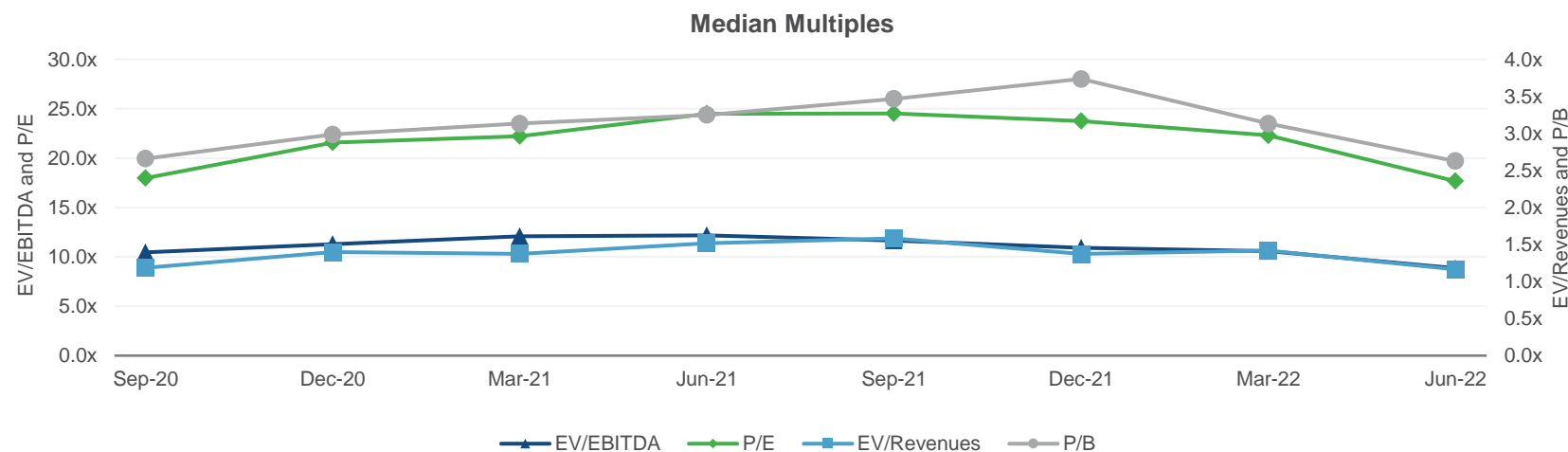
# Commercial and Professional Services

Q2 2022

# Commercial and Professional Services

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	54	54	54	54
Number of Outliers <sup>2</sup>	6	9	9	7
High	6.3x	18.2x	50.0x	10.0x
3rd Quartile	3.1x	13.3x	26.6x	4.9x
<b>Mean</b>	<b>2.0x</b>	<b>9.8x</b>	<b>19.9x</b>	<b>3.5x</b>
<b>Median</b>	<b>1.2x</b>	<b>8.9x</b>	<b>17.7x</b>	<b>2.6x</b>
1st Quartile	0.7x	6.0x	13.8x	1.9x
Low	0.3x	4.4x	7.9x	1.0x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

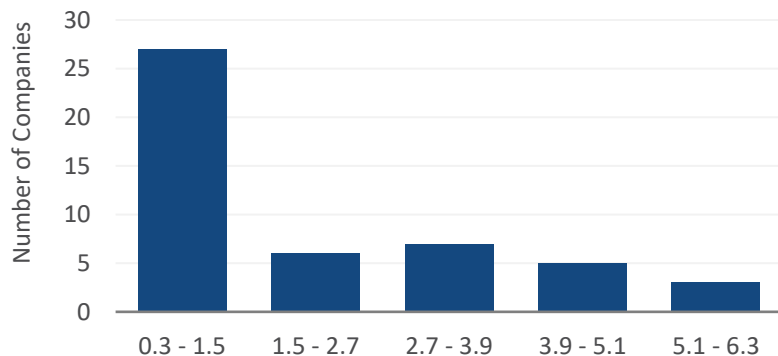
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

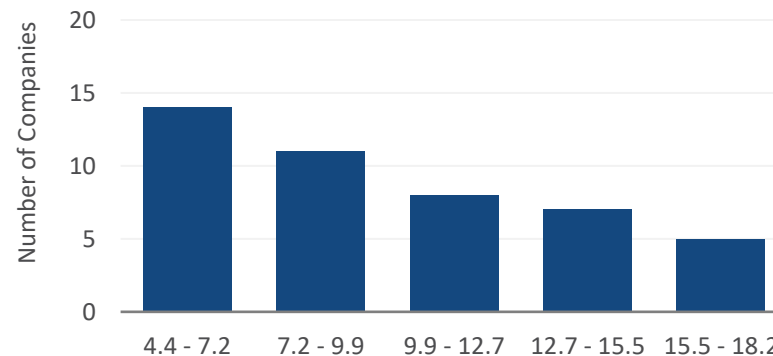
# Commercial and Professional Services

As of June 30, 2022

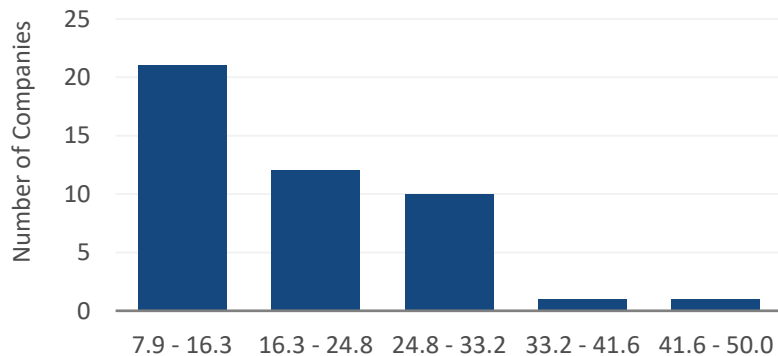
EV/Revenues



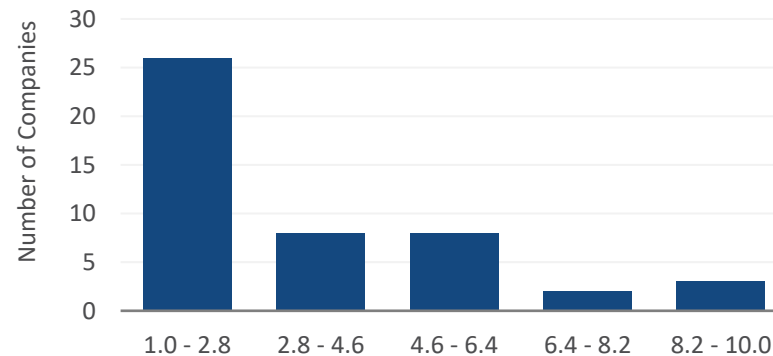
EV/EBITDA



P/E



P/B



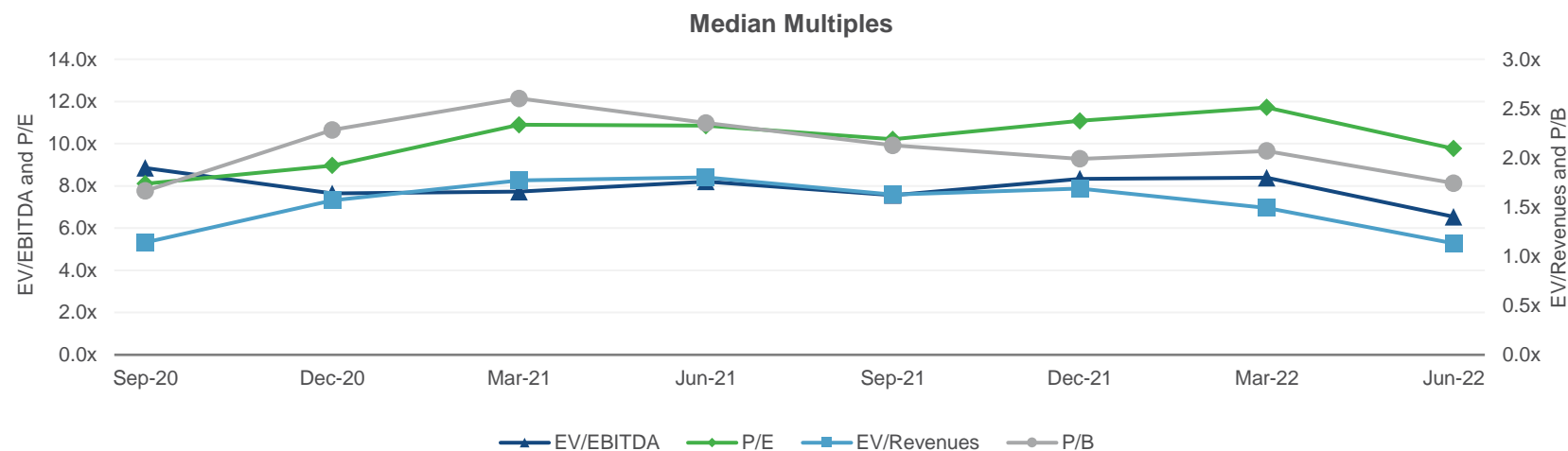
# Transportation

Q2 2022

# Transportation

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	45	45	45	45
Number of Outliers <sup>2</sup>	7	9	17	7
High	6.7x	20.3x	45.1x	6.8x
3rd Quartile	1.8x	10.6x	15.3x	3.0x
<b>Mean</b>	<b>1.7x</b>	<b>7.8x</b>	<b>13.5x</b>	<b>2.3x</b>
<b>Median</b>	<b>1.1x</b>	<b>6.2x</b>	<b>10.0x</b>	<b>1.8x</b>
1st Quartile	0.7x	4.5x	7.7x	1.2x
Low	0.4x	1.8x	2.7x	0.7x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

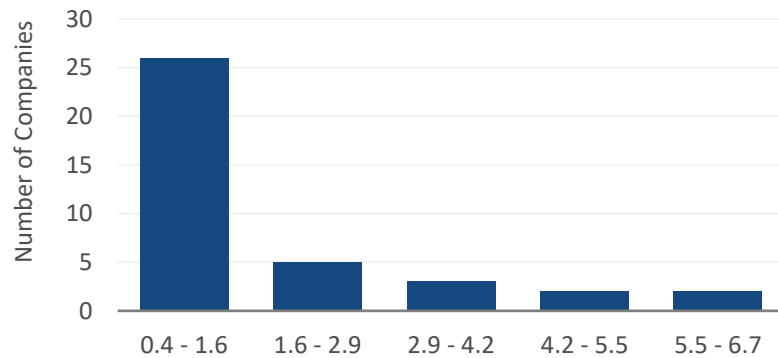
Sources: Capital IQ; Bloomberg; Kroll analysis.



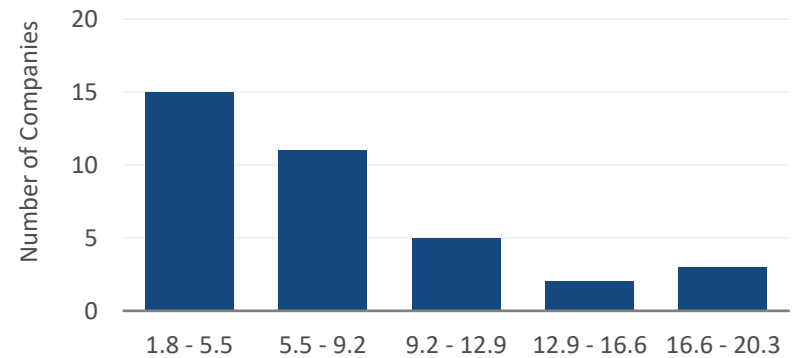
# Transportation

As of June 30, 2022

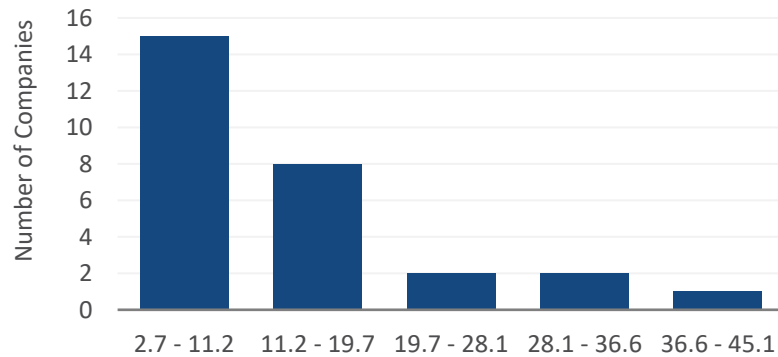
EV/Revenues



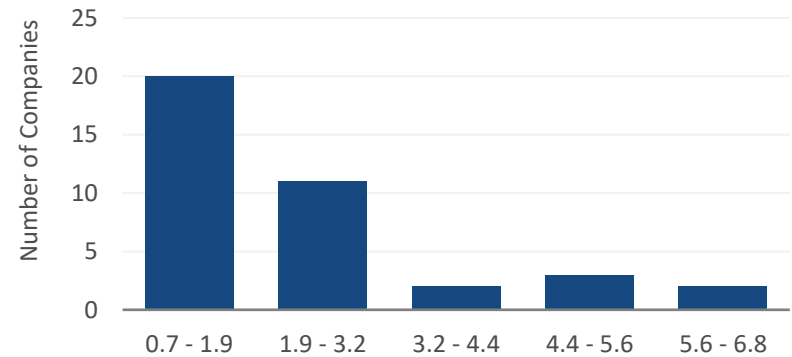
EV/EBITDA



P/E



P/B



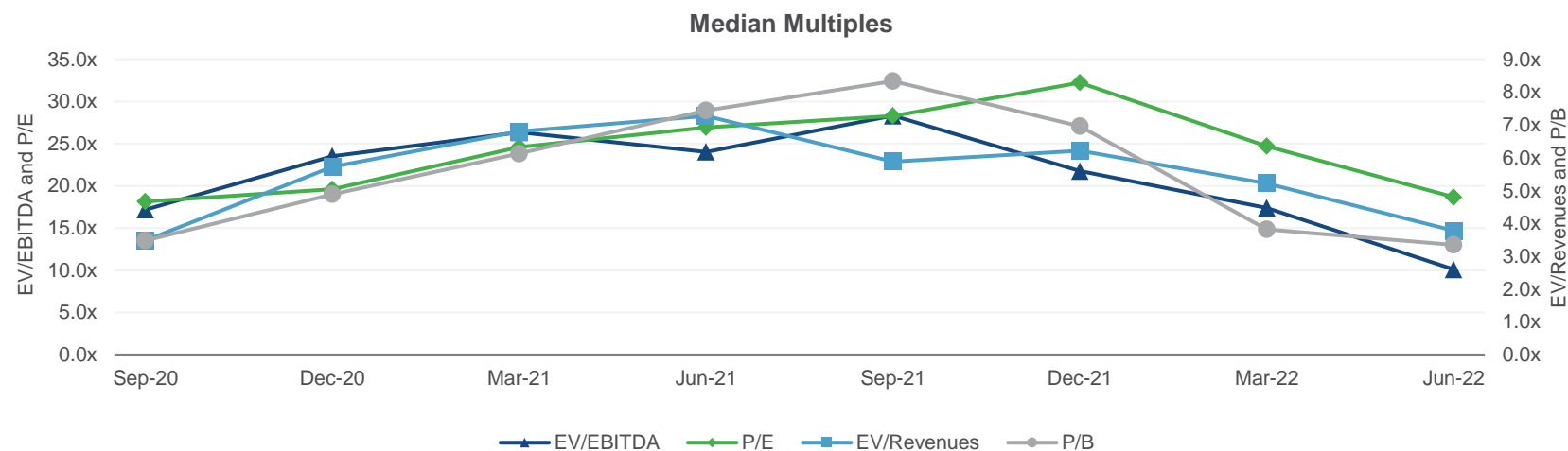
# Semiconductors and Semiconductor Equipment

Q2 2022

# Semiconductors and Semiconductor Equipment

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	20	20	20	20
Number of Outliers <sup>2</sup>	2	6	7	2
High	12.4x	17.2x	36.6x	6.4x
3rd Quartile	5.0x	15.5x	26.2x	4.8x
<b>Mean</b>	<b>4.0x</b>	<b>10.9x</b>	<b>20.0x</b>	<b>3.6x</b>
<b>Median</b>	<b>3.8x</b>	<b>10.1x</b>	<b>16.7x</b>	<b>3.3x</b>
1st Quartile	1.7x	7.1x	12.5x	2.1x
Low	1.0x	4.8x	11.3x	1.1x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

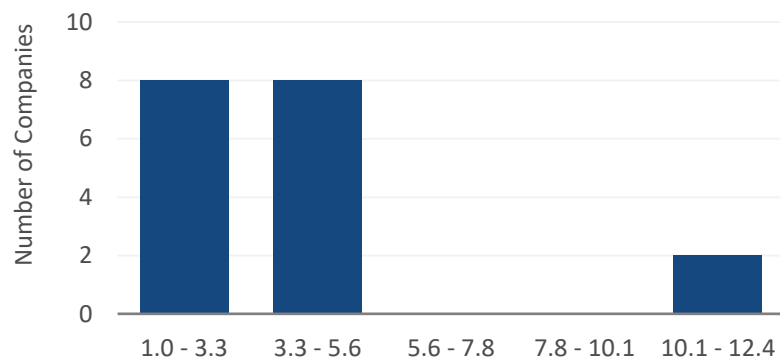
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

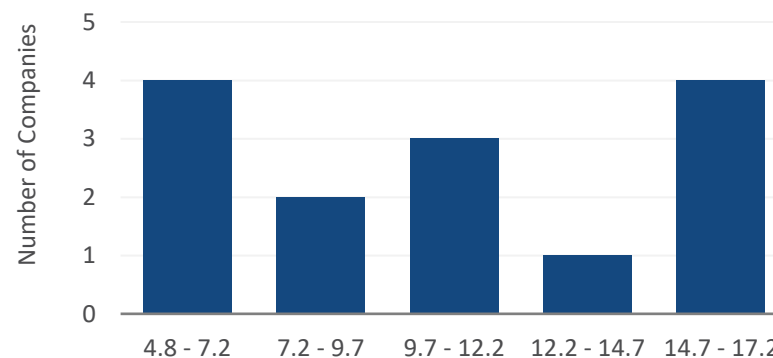
# Semiconductors and Semiconductor Equipment

As of June 30, 2022

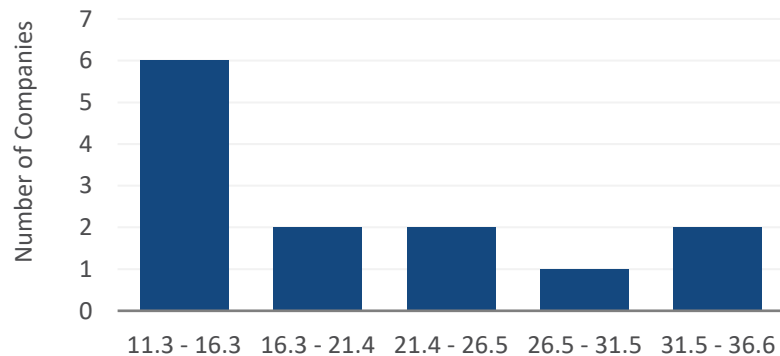
EV/Revenues



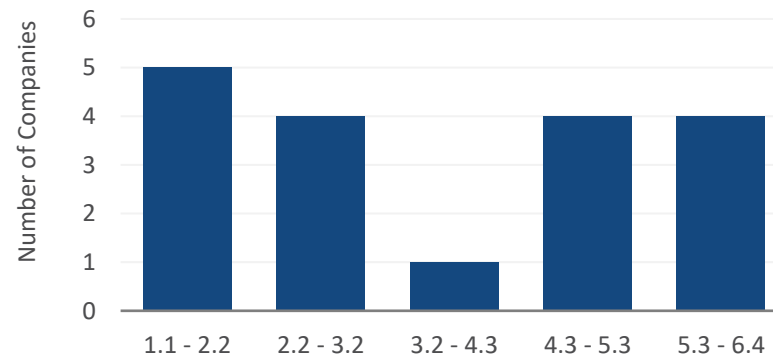
EV/EBITDA



P/E



P/B



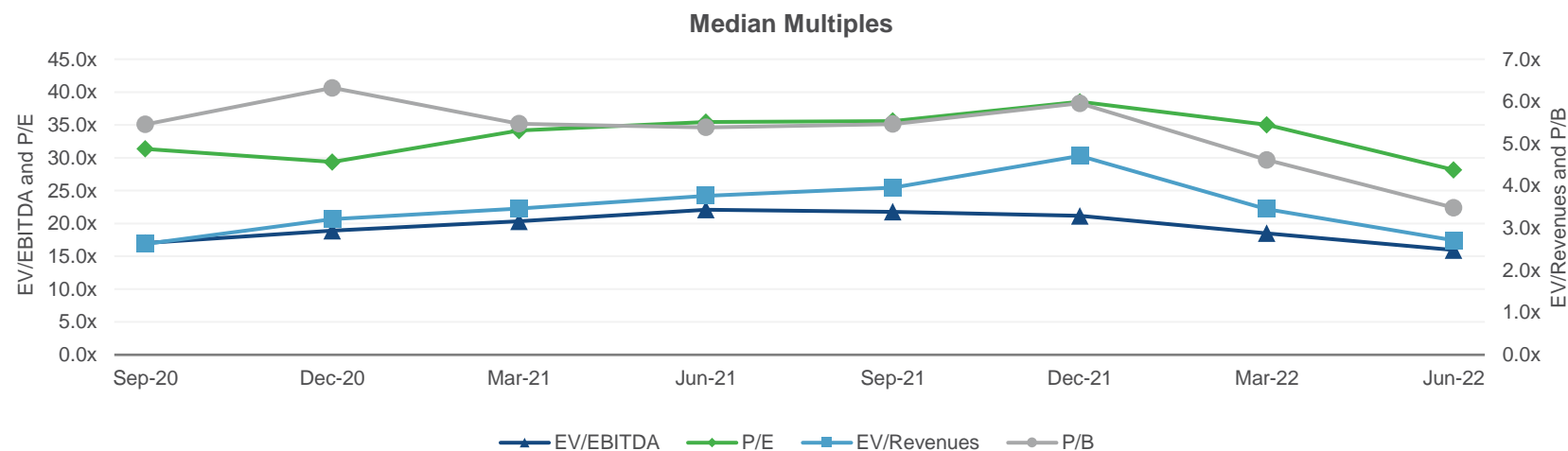
# Software and Services

Q2 2022

# Software and Services

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	79	79	79	79
Number of Outliers <sup>2</sup>	9	14	21	10
High	13.2x	52.3x	90.9x	26.7x
3rd Quartile	5.1x	23.1x	40.1x	7.9x
<b>Mean</b>	<b>3.7x</b>	<b>17.9x</b>	<b>34.5x</b>	<b>6.3x</b>
<b>Median</b>	<b>2.7x</b>	<b>15.9x</b>	<b>28.3x</b>	<b>3.5x</b>
1st Quartile	1.3x	11.3x	18.9x	1.9x
Low	0.4x	5.2x	12.1x	0.7x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

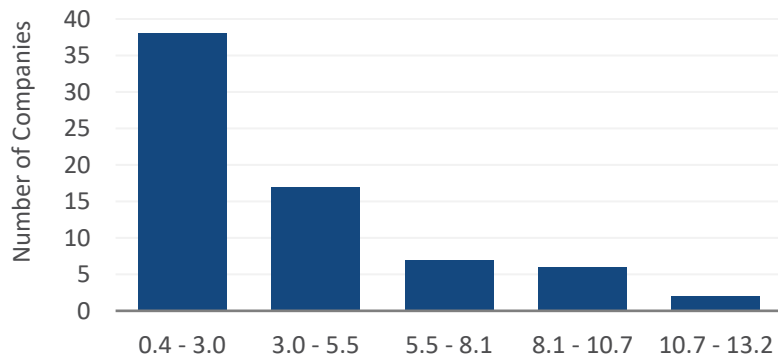
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

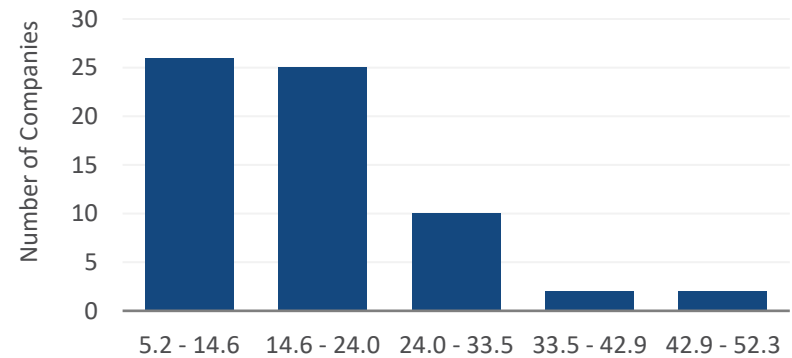
# Software and Services

As of June 30, 2022

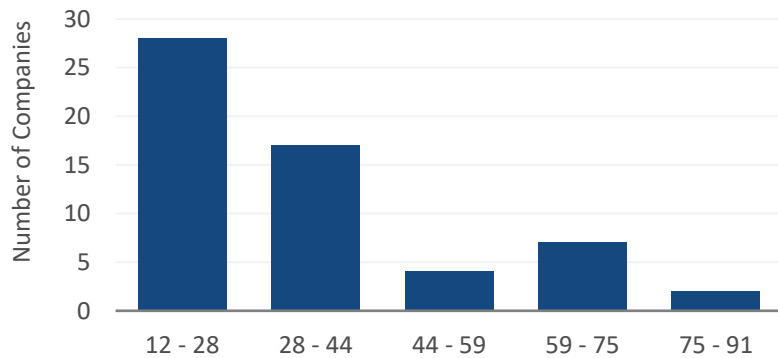
EV/Revenues



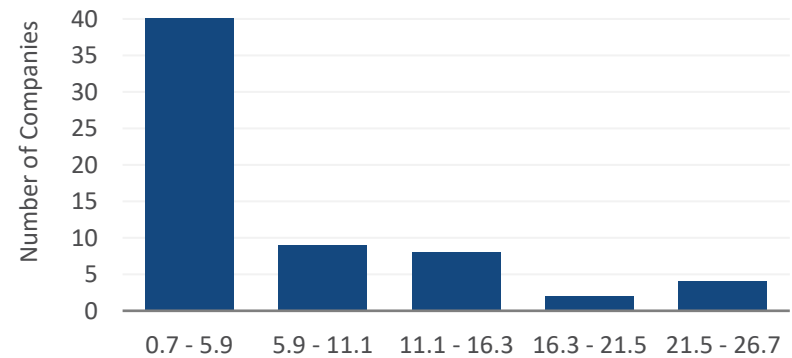
EV/EBITDA



P/E



P/B



# Technology Hardware and Equipment

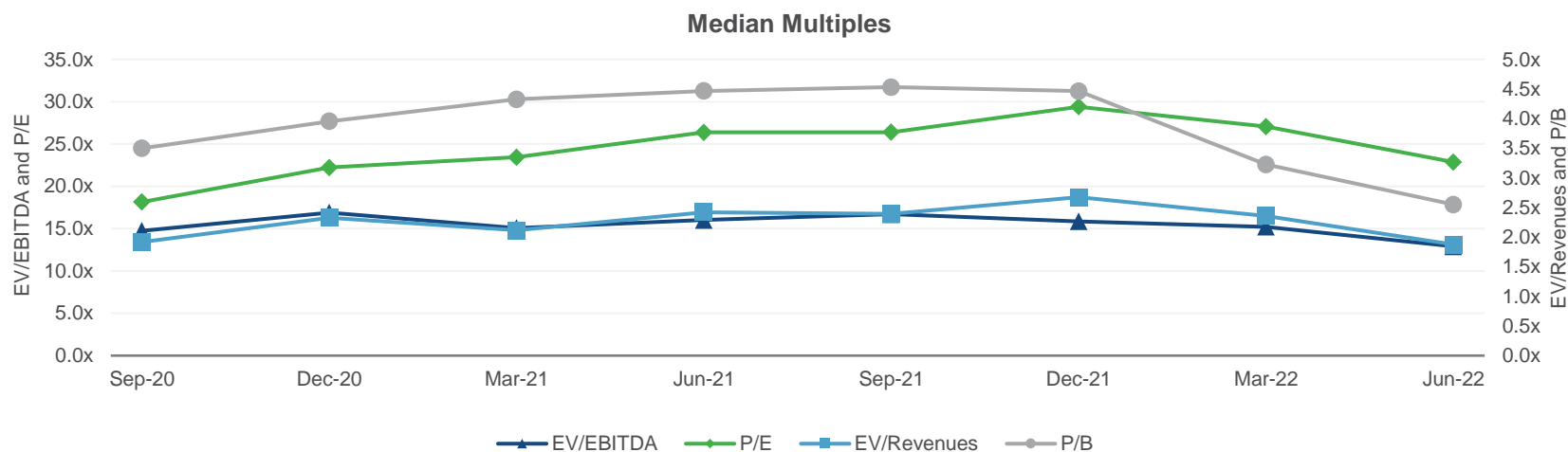
Q2 2022



# Technology Hardware and Equipment

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	49	49	49	49
Number of Outliers <sup>2</sup>	6	10	12	8
High	6.4x	35.4x	58.0x	9.8x
3rd Quartile	2.9x	19.2x	28.7x	4.5x
<b>Mean</b>	<b>2.3x</b>	<b>14.9x</b>	<b>25.1x</b>	<b>3.4x</b>
<b>Median</b>	<b>1.9x</b>	<b>12.9x</b>	<b>22.9x</b>	<b>2.6x</b>
1st Quartile	1.2x	9.5x	16.7x	2.0x
Low	0.7x	5.5x	8.4x	0.9x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

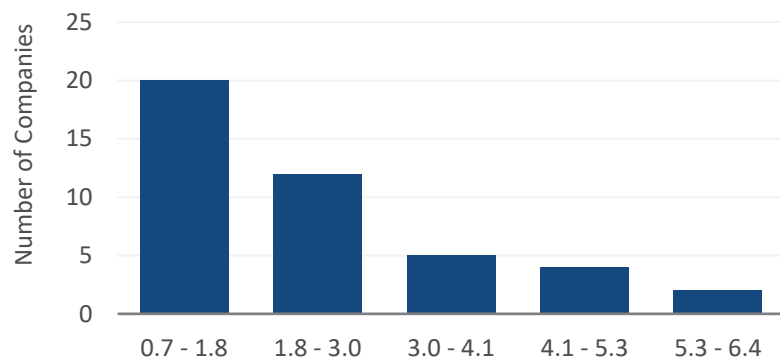
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

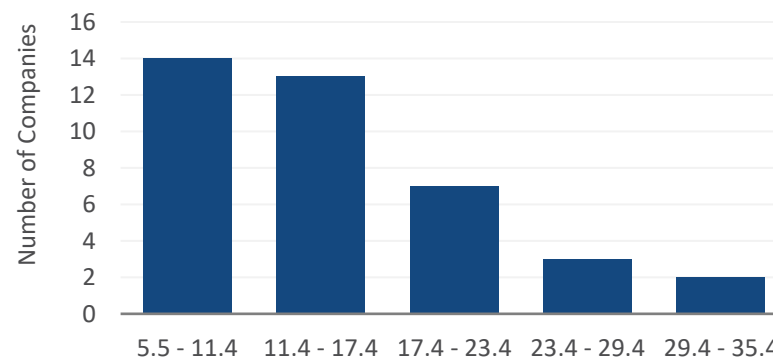
# Technology Hardware and Equipment

As of June 30, 2022

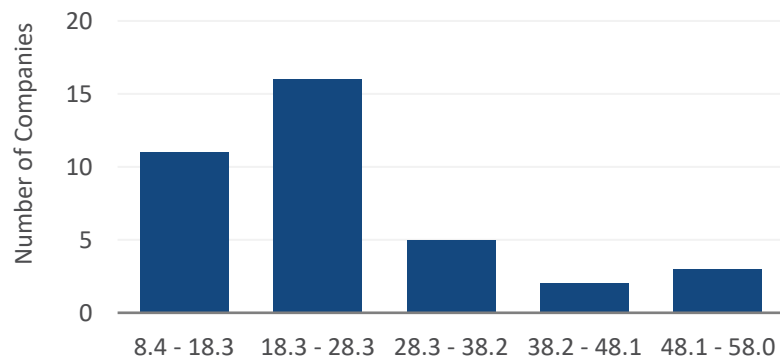
EV/Revenues



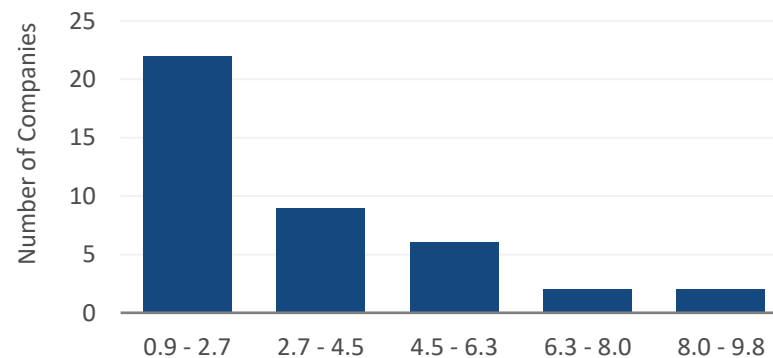
EV/EBITDA



P/E



P/B



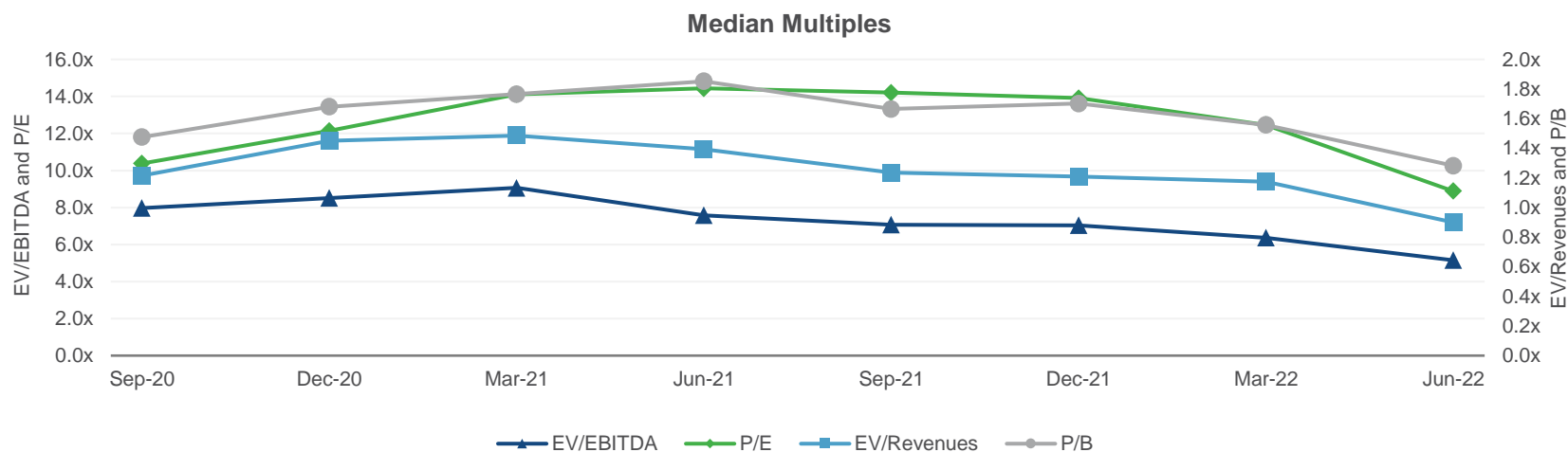
# Materials

Q2 2022

# Materials

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	106	106	106	106
Number of Outliers <sup>2</sup>	12	12	14	14
High	4.8x	20.5x	37.6x	4.0x
3rd Quartile	1.4x	8.5x	15.8x	2.1x
<b>Mean</b>	<b>1.2x</b>	<b>6.5x</b>	<b>11.5x</b>	<b>1.5x</b>
<b>Median</b>	<b>0.9x</b>	<b>5.1x</b>	<b>8.9x</b>	<b>1.3x</b>
1st Quartile	0.6x	3.3x	5.3x	0.8x
Low	0.2x	1.2x	2.0x	0.5x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

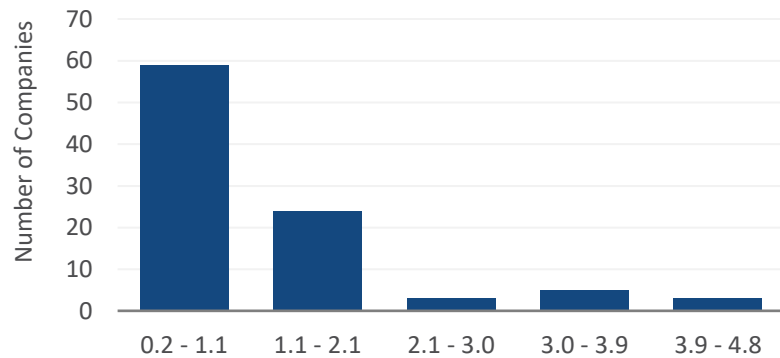
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

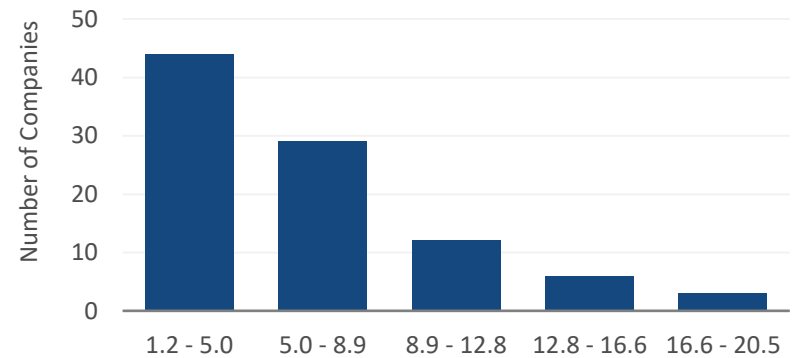
# Materials

As of June 30, 2022

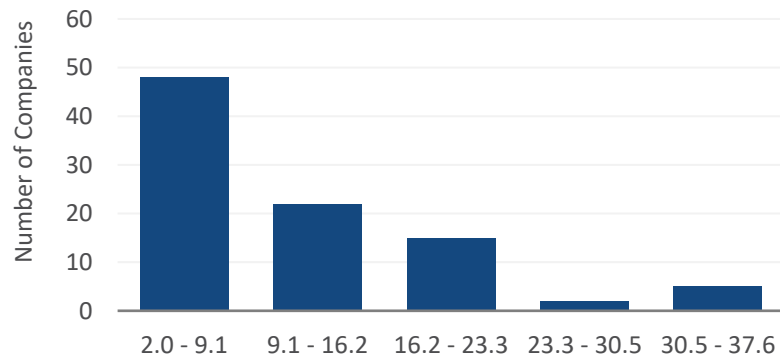
EV/Revenues



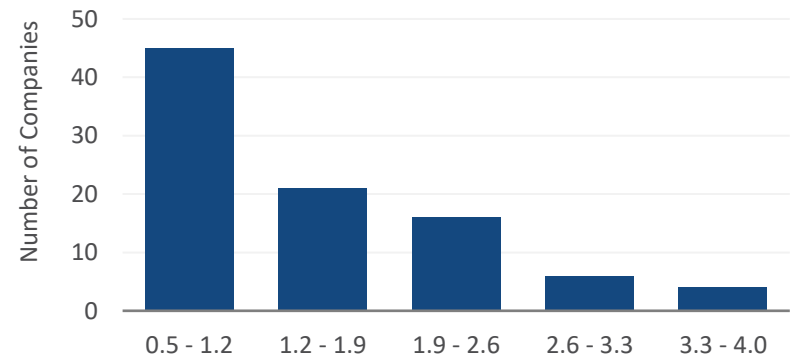
EV/EBITDA



P/E



P/B



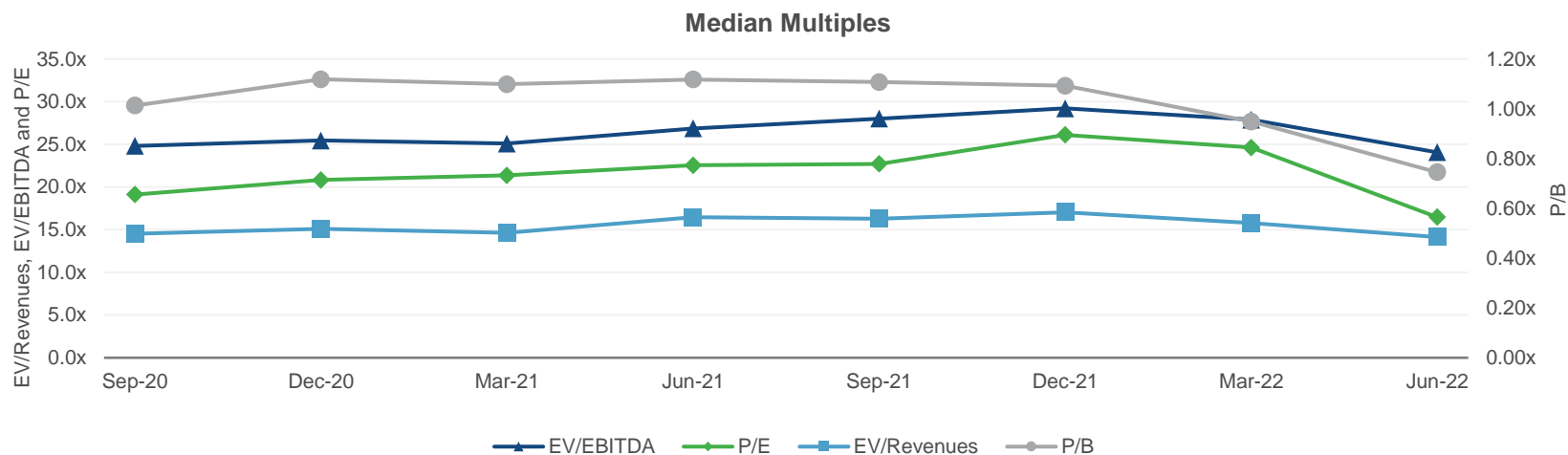
# Real Estate

Q2 2022

# Real Estate

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	97	97	97	97
Number of Outliers <sup>2</sup>	11	18	14	10
High	23.1x	39.3x	40.9x	1.5x
3rd Quartile	17.8x	28.1x	21.7x	0.9x
<b>Mean</b>	<b>14.4x</b>	<b>23.8x</b>	<b>17.2x</b>	<b>0.8x</b>
<b>Median</b>	<b>14.1x</b>	<b>24.2x</b>	<b>16.3x</b>	<b>0.7x</b>
1st Quartile	11.2x	19.4x	11.1x	0.6x
Low	1.9x	8.5x	6.8x	0.4x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

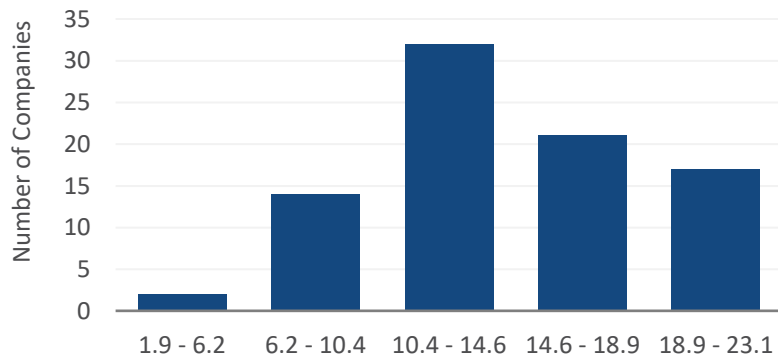
<sup>2</sup> Outliers have been excluded from the included multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

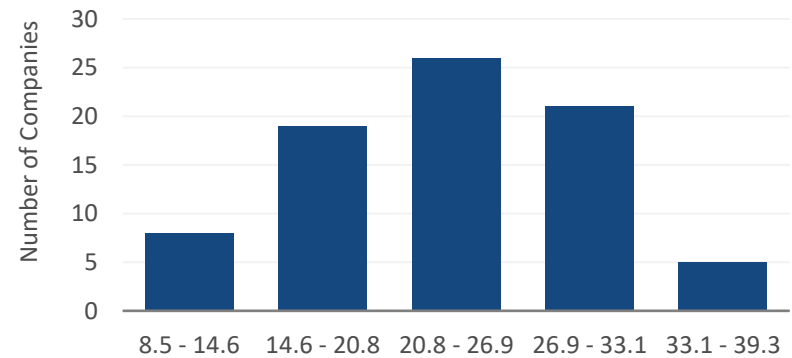
# Real Estate

As of June 30, 2022

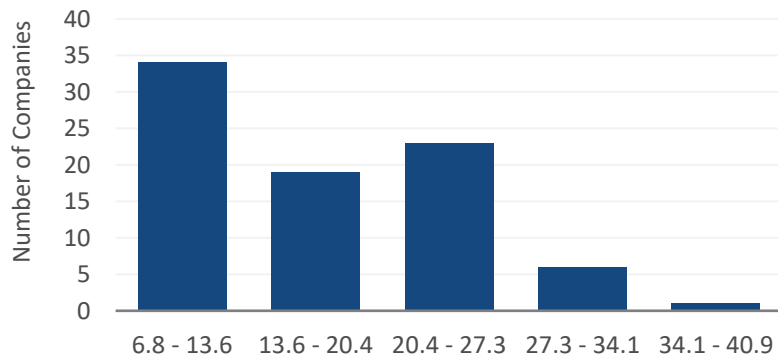
EV/Revenues



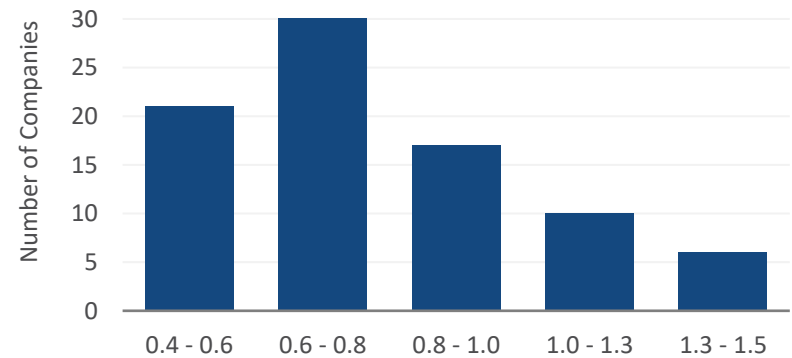
EV/EBITDA



P/E



P/B





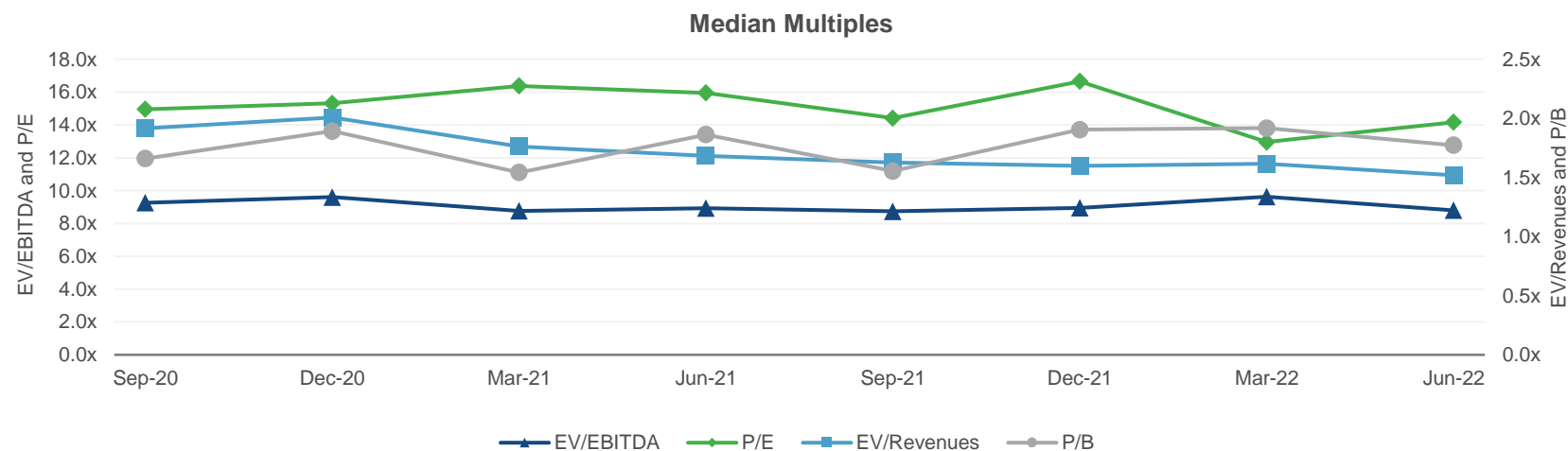
# Electric, Gas and Water Utilities

Q2 2022

# Electric, Gas and Water Utilities

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	36	36	36	36
Number of Outliers <sup>2</sup>	4	4	8	4
High	7.7x	21.8x	41.7x	6.4x
3rd Quartile	4.3x	12.1x	17.5x	2.3x
<b>Mean</b>	<b>2.5x</b>	<b>9.5x</b>	<b>14.5x</b>	<b>2.1x</b>
<b>Median</b>	<b>1.4x</b>	<b>8.8x</b>	<b>12.5x</b>	<b>1.8x</b>
1st Quartile	0.6x	6.6x	8.7x	1.3x
Low	0.2x	2.3x	4.2x	0.4x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

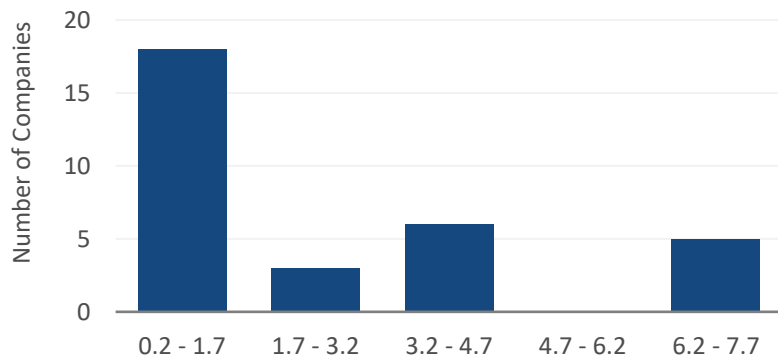
<sup>2</sup> Outliers have been excluded from the concluded multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

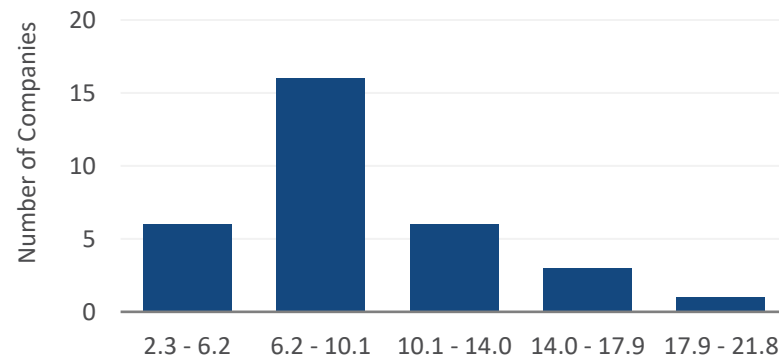
# Electric, Gas and Water Utilities

As of June 30, 2022

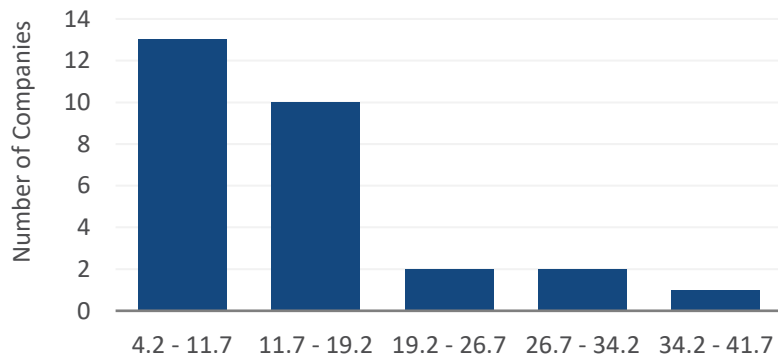
EV/Revenues



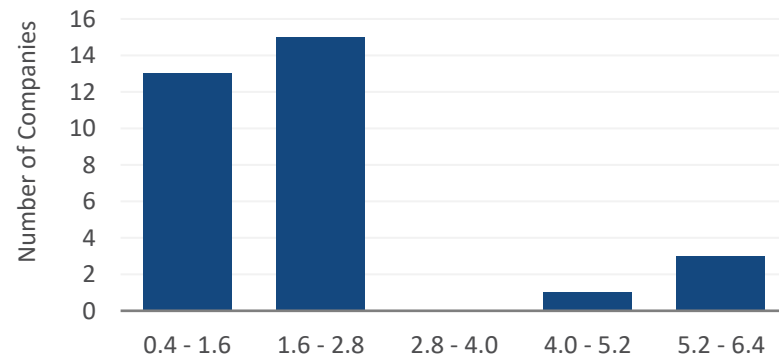
EV/EBITDA



P/E



P/B



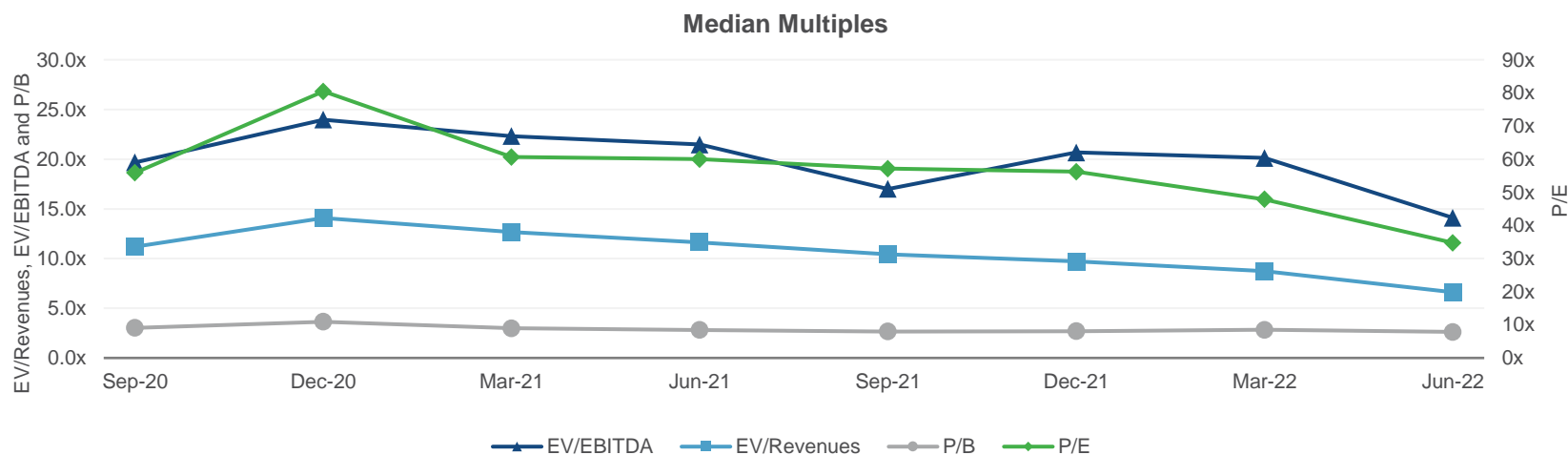
# Independent Power and Renewable Producers

Q2 2022

# Independent Power and Renewable Producers

As of June 30, 2022

	EV/Revenues	EV/EBITDA	P/E	P/B
Number of Observations <sup>1</sup>	13	13	13	13
Number of Outliers <sup>2</sup>	2	3	5	2
High	19.6x	28.5x	64.8x	5.8x
3rd Quartile	12.7x	20.4x	51.8x	2.8x
<b>Mean</b>	<b>8.7x</b>	<b>15.9x</b>	<b>36.8x</b>	<b>2.8x</b>
<b>Median</b>	<b>6.6x</b>	<b>14.1x</b>	<b>34.8x</b>	<b>2.6x</b>
1st Quartile	5.1x	10.9x	19.9x	2.4x
Low	0.7x	7.6x	16.1x	1.6x



<sup>1</sup> A sector/industry group must have a minimum of five company participants to be calculated.

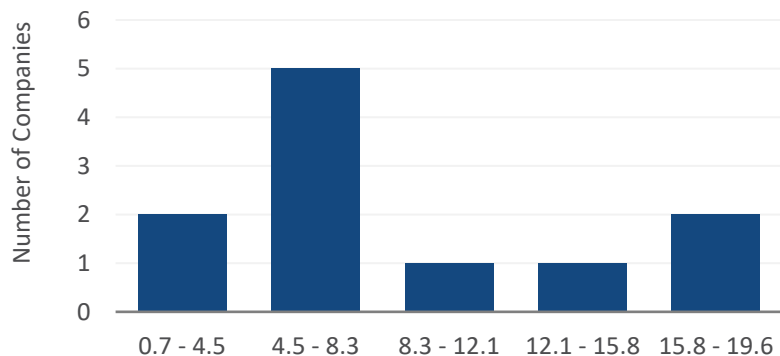
<sup>2</sup> Outliers have been excluded from the included multiples. Please refer to "Criteria" for outlier criteria and definitions.

Sources: Capital IQ; Bloomberg; Kroll analysis.

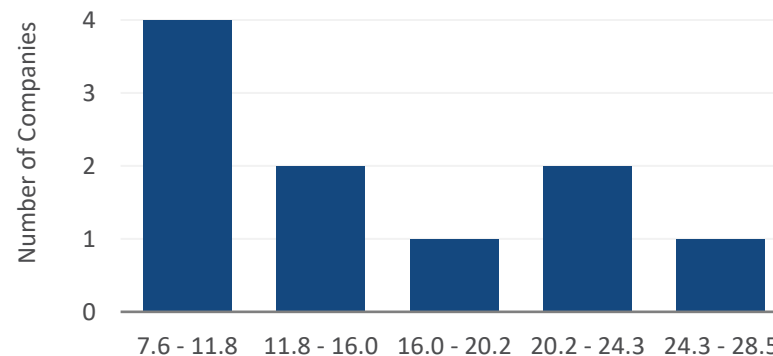
# Independent Power and Renewable Producers

As of June 30, 2022

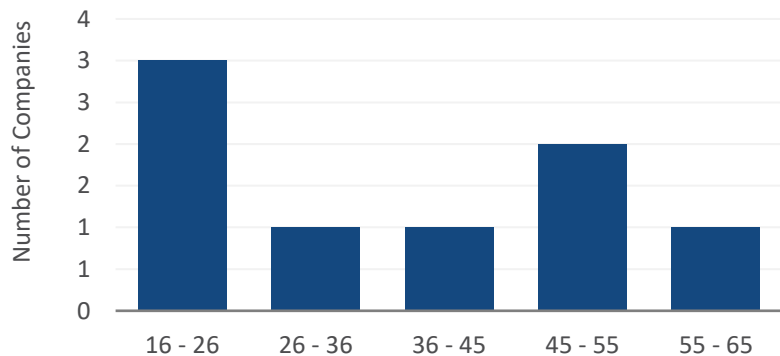
EV/Revenues



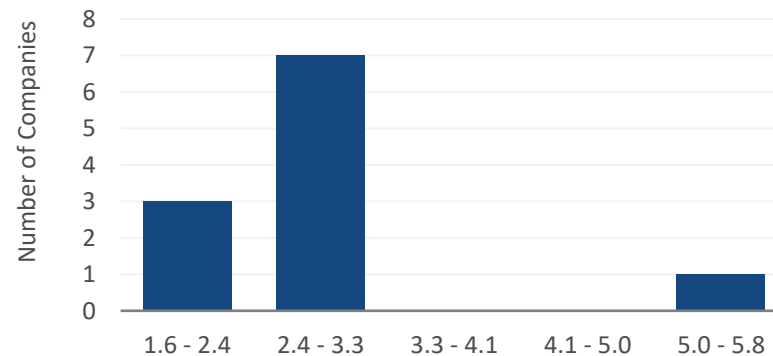
EV/EBITDA



P/E



P/B



# Criteria

- For all reported multiples, we have considered the constituents of the STOXX® Europe TMI as of the report reference date. The STOXX® Europe TMI represents the Western and Eastern Europe region as a whole, covering approximately 95% of the free-float market capitalization of European companies.<sup>1</sup> Companies were grouped by sectors, industry groups or industries, as defined by the Global Industry Classification Standard, considering that each grouping would have enough constituents and granularity to attain the objective of this report.<sup>2</sup>
- Companies are only considered in the computation of the different multiples if the following criteria are met: market capitalization is above the fifth percentile, at least 25% free float, and average daily volume is above 0.1% of the float (data derived from Standard & Poor's Capital IQ and Bloomberg databases).
- Observations deemed to be outliers have been excluded from the above analysis. Outlier criteria include: (i) negative multiples, (ii) multiples below the fifth percentile and (iii) multiples above the 95th percentile.
- EV = Enterprise Value = Market value of equity plus book value of debt, minority interests, preferred stock, less cash and cash equivalents, loans and notes receivables, and long- and short-term investments.<sup>3</sup> Revenues = Revenue for latest 12 months. EBITDA = Earnings before interest, taxes, depreciation and amortization for latest 12 months (provided by Capital IQ, adjusted for non-recurring items). P/E = Share price divided by earnings per share on a diluted basis. P/B = Share price/book value per share on a diluted basis where book value per share equals total book value of equity divided by diluted number of shares. P/TBV = Share price/book value minus intangible assets, per share on a diluted basis.
- Multiples have been computed in companies' filing currencies and considering figures last fully reported as at the publication of this report.

<sup>1</sup> Although most of the companies in the STOXX® Europe TMI Index prepare financial statements in accordance with IFRS, some use other accounting standards, such as U.S. GAAP and other local standards. Generally, since only a small proportion of the companies in the index do not use IFRS, the inclusion of those companies did not have a material impact on the statistics reported. Companies filing in accordance with U.S. GAAP accounted for approximately 1% of the total number of companies in the index. Companies following other reporting standards were treated using a similar approach as those filing in accordance with IFRS. Companies filing in accordance with Belgium, Denmark, Luxembourg, Poland and Switzerland GAAP represented approximately 4% of the total number of companies in the index. Swiss GAAP companies do not capitalize operating lease obligations in their balance sheets, unlike companies reporting under IFRS or US GAAP. We have not made a specific lease adjustment to multiples of companies reporting under Switzerland GAAP, as the impact of such adjustment would be insignificant due to the low number of such companies in the STOXX® Europe TMI Index.

<sup>2</sup> The GICS structure is comprised of 11 sectors, 24 industry groups, 69 industries and 158 sub-industries.

<sup>3</sup> Book value of debt includes lease liabilities.

# Industry Definitions

The industry classification for the companies represented in this report is based on the GICS. A summary of the sectors, as well as a brief description of those relevant industry groups that are part of a particular sector, according to the GICS guidelines, is found below:

Communication Services	
Media and Entertainment	Companies providing advertising, marketing or public relations services. Owners and operators of television or radio broadcasting systems, including programming and services. Publishers of newspapers, magazines and books in print or electronic formats. Companies that engage in producing and selling entertainment products and services, including gaming products and mobile applications.
Telecommunication Services	Providers of primarily cellular or wireless telecommunication services and operators of primarily fixed-line telecommunications networks.
Consumer Discretionary	
Automobiles and Components	Companies related to the production of passenger automobiles and light trucks, motorcycles, scooters or three-wheelers, as well as companies manufacturing parts and components for those vehicles, including tires and rubber.
Consumer Durables and Apparel	Manufacturers of electric household appliances and related products. Includes manufacturers of durable household products, power and hand tools, including garden improvement tools, but excludes TVs and other audio and video products. Manufacturers of apparel, accessories and luxury goods. Includes companies primarily producing designer handbags, wallets, luggage, jewelry and watches and manufacturers of textile and related products.
Consumer Services	Owners and operators of leisure and accommodation activities such as hotels, bars and restaurants, cruise ships, leisure facilities, casinos and gaming facilities, among others.
Retailing	Companies involved in owning and operating department stores, general merchandise stores and specialty stores. It also includes companies providing retail services primarily through the internet, mail order and TV home shopping retailers.



# Industry Definitions

Consumer Staples	
Food and Staples Retailing	Owners and operators of food and drug retail stores, pharmacies, hypermarkets and super centers selling food and a wide-range of consumer staple products. Distributors of food products to other companies and not directly to the consumer.
Food, Beverage and Tobacco	Producers of beer and malt liquors, distillers, vintners, producers of alcoholic and non-alcoholic beverages, including mineral waters. Producers of agricultural products and producers of packaged foods, including dairy products, fruit juices, meats, poultry, fish and pet foods. Manufacturers of cigarettes and other tobacco products
Household and Personal Products	Producers of non-durable household products, including detergents, soaps, diapers and other tissue and household paper products not included elsewhere. Manufacturers of personal and beauty care products, including cosmetics and perfumes.
Energy	
Energy	Companies engaged in exploration and production, refining and marketing, and storage and transportation of oil and gas and coal and consumable fuels. It also includes companies that offer oil and gas equipment and services.
Financials	
Banks	Commercial diverse with a national footprint whose revenues are derived primarily from conventional banking operations, have significant business activity in retail banking and small and medium corporate lending, and provide a diverse range of financial services. This also includes regional banks that tend to operate in limited geographic regions and excludes investment banks.
Diversified Financial Services	Financial exchanges for securities, commodities, derivatives and other financial instruments, and providers of financial decision support tools and products including ratings agencies. Providers of a diverse range of financial services and/or with some interest in a wide range of financial services including banking, insurance, and capital markets, but with no dominant business line.
Consumer Finance	Providers of consumer finance services, including personal credit, credit cards, lease financing, travel-related money services and pawn shops.

# Industry Definitions

Financials (cont.)	
Capital Markets	Financial institutions primarily engaged in diversified capital markets activities, including a significant presence in at least two of the following areas: large/major corporate lending, investment banking, brokerage and asset management. Includes financial exchanges for securities, commodities, derivatives and other financial instruments.
Insurance	Companies providing insurance and reinsurance services of any kind as well as insurance and reinsurance brokerage firms.
Health Care	
Health Care Equipment and Services	Companies including health care providers and services, companies that manufacture and distribute health care equipment and supplies and health care technology companies.
Pharmaceuticals, Biotechnology and Life Sciences	Companies involved in the research, development, production and marketing of pharmaceuticals and biotechnology products.
Industrials	
Capital Goods	Companies related to the manufacturing or distribution of goods. The sector is diverse, containing companies that manufacture machinery used to create capital goods, electrical equipment, aerospace and defense, engineering and construction projects.
Commercial and Professional Services	Companies involved in supporting businesses with specialized skills such as human capital management, research and consulting services, office services, security and protection services, environmental and maintenance services.
Transportation	Companies involved in providing mainly goods and passenger transportation through air, sea or land. Companies owning and operating the infrastructures needed for transportation, such as airports, ports, railtracks or roads.

# Industry Definitions

Information Technology	
Semiconductors and Semiconductor Equipment	Manufacturers of semiconductors, semiconductor equipment and related products, including manufacturers of solar modules and cells as well as manufacturers of the raw material and equipment used in the solar power industry.
Software and Services	Companies offering software and information technology services as well as infrastructure for the internet, including data centers, cloud networking and storage infrastructure.
Technology Hardware and Equipment	Companies involved in manufacturing communication equipment, cellular phones, personal computers, computer components, peripherals, electronic equipment and components as well as technology distributors.
Materials	
Materials	Companies that manufacture chemicals, construction materials, glass, paper, forest products and related packaging products, and metals, minerals and mining companies, including producers of steel.
Real Estate	
Real Estate	Companies engaged in real estate development and operation. It also includes companies offering real estate-related services and Equity Real Estate Investment Trusts (REITs).
Utilities	
Electric, Gas and Water Utilities	Companies involved in producing or distributing electricity, in the distribution of gas, in redistributing water to the end-consumer, as well as utility companies with significantly diversified activities in addition to core electric utility, gas utility and/or water utility operations.
Independent Power and Renewable Electricity Producers	Independent power producers and energy traders and companies that engage in generation and distribution of electricity using renewable sources.



For more information, please contact:



**Michael Weaver**  
EMEA Valuation Advisory  
Services Leader  
[michael.weaver@kroll.com](mailto:michael.weaver@kroll.com)



**Hakim Abdeljaouad**  
Managing Director, Middle East  
[hakim.abdeljaouad@kroll.com](mailto:hakim.abdeljaouad@kroll.com)



**Niall Cribben**  
Managing Director, Ireland  
[niall.cribben@kroll.com](mailto:niall.cribben@kroll.com)



**Henk Oosterhout**  
Managing Director, Netherlands  
[henk.oosterhout@kroll.com](mailto:henk.oosterhout@kroll.com)



**Enrico Rovere**  
Managing Director, Italy  
[enrico.rovere@kroll.com](mailto:enrico.rovere@kroll.com)



**Ingo Schneemann**  
Managing Director, Germany  
[ingo.schneemann@kroll.com](mailto:ingo.schneemann@kroll.com)



**Mathias Schumacher**  
Managing Director, UK  
[mathias.schumacher@kroll.com](mailto:mathias.schumacher@kroll.com)



**Carine Tourneur**  
Managing Director, France  
[carine.tourneur@kroll.com](mailto:carine.tourneur@kroll.com)



**Javier Zoido**  
Managing Director, Iberia  
[javier.zoido@kroll.com](mailto:javier.zoido@kroll.com)

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