Group Selection
Priced as of December 16, 2019

Note: Group tickers incorporate hyperlinks to decile charts, and then a link to our Toolkit of the group members.

See back pages for user guide and disclaimer.
Sources for all charts: BMO Capital Markets

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**Sector View**

**Sector Relative Strength Profiles**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Energy</td>
<td>19% / 21% / 22%</td>
<td>/ / /</td>
<td>16% / 14% / 23%</td>
</tr>
<tr>
<td>Materials</td>
<td>36% / 40% / 40%</td>
<td>/ / /</td>
<td>12% / 9% / 16%</td>
</tr>
<tr>
<td>Industrials</td>
<td>43% / 47% / 49%</td>
<td>/ / /</td>
<td>9% / 7% / 17%</td>
</tr>
<tr>
<td>CMR Disc</td>
<td>41% / 47% / 48%</td>
<td>/ / /</td>
<td>6% / 2% / 12%</td>
</tr>
<tr>
<td>CMR Stap</td>
<td>40% / 43% / 45%</td>
<td>/ / /</td>
<td>-6% / -11% / 1%</td>
</tr>
<tr>
<td>Hlth Care</td>
<td>36% / 39% / 40%</td>
<td>/ / /</td>
<td>6% / 3% / 14%</td>
</tr>
<tr>
<td>Financials</td>
<td>38% / 42% / 45%</td>
<td>/ / /</td>
<td>7% / 3% / 16%</td>
</tr>
<tr>
<td>Info Tech</td>
<td>52% / 56% / 57%</td>
<td>/ / /</td>
<td>3% / 1% / 8%</td>
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<tr>
<td>Comm Srv</td>
<td>30% / 36% / 38%</td>
<td>/ / /</td>
<td>-6% / -9% / -1%</td>
</tr>
<tr>
<td>Utilities</td>
<td>41% / 46% / 48%</td>
<td>/ / /</td>
<td>2% / -2% / 9%</td>
</tr>
<tr>
<td>Real Estate</td>
<td>51% / 56% / 58%</td>
<td>/ / /</td>
<td>-22% / -25% / -12%</td>
</tr>
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</table>

*Three terms define the relative performance Z-Score rating versus the markets (US = S&P 500; GBL = MSCI AC World; CDA = S&P/TSX Composite)*

(a) % Outperforming - what percentage of sector members is outperforming the market,
(b) Reward/Risk - how consistent is the median relative strength performance of the sector membership ( / / ranking),
(c) Trend Psn - what is the net percentage of the sector members which are breaking above/below relative strength channels.

The strength z-Score is weighted 60% towards the trend parameters (% outperforming and reward/risk ratios) and 40% towards the trend positions (reversals of trends). Gridlines are placed at 0.5 increments.

See Help Pages for further details.
<table>
<thead>
<tr>
<th>Sector</th>
<th>Description</th>
<th>Stocks</th>
<th>Market Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LfSciSrv</td>
<td>Biotech</td>
<td>116</td>
<td>$1028bn</td>
</tr>
<tr>
<td></td>
<td>HCServce</td>
<td>25</td>
<td>$317bn</td>
</tr>
<tr>
<td></td>
<td>MngHCare</td>
<td>10</td>
<td>$458bn</td>
</tr>
<tr>
<td></td>
<td>HCareTec</td>
<td>18</td>
<td>$100bn</td>
</tr>
<tr>
<td>HCEquip</td>
<td>HCFacility</td>
<td>77</td>
<td>$1362bn</td>
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<tr>
<td></td>
<td>HCSuppls</td>
<td>33</td>
<td>$192bn</td>
</tr>
<tr>
<td></td>
<td>HCDistrib</td>
<td>17</td>
<td>$108bn</td>
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<tr>
<td></td>
<td></td>
<td>77</td>
<td>$1362bn</td>
</tr>
<tr>
<td></td>
<td></td>
<td>33</td>
<td>$192bn</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>$108bn</td>
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</tbody>
</table>

**Health Care**

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December 16, 2019
Telecommunication Services

December 16, 2019

Strength

Momentum

Advert
18 stocks; $123bn

Cabl&Sat
23 stocks; $435bn

IntMeSer
44 stocks; $1604bn

Broadcast
26 stocks; $703bn

Publishing
13 stocks; $40bn

WisTelSrv
43 stocks; $926bn

IntgTelSrv
64 stocks; $1373bn

AltCar
10 stocks; $41bn

Mov&Ent
26 stocks; $551bn
User Guide 1 - Definitions & Dataset

Group Strength
Our Global Group analysis is based on bottom-up equity relative strength analysis as opposed to industry group (index) relative strength analysis.

Strength Decile Defined By
1. What percentage of a groups members are outperforming
2. How consistent that outperformance is
3. How the are members positioned (above/below) vs. their trend channels.

Momentum Decile
Rate of change of strength (change in 5-day moving average)

The Underlying Equity Relative Strength Analysis
Each day, for every equity we cover, our relative strength system assesses the best fit trend from a spectrum which covers a minimum trend duration of six months, and a maximum of 4-years. The "best fit" is the trend which maximizes duration, and minimizes deviation from the trend. Our process is flexible, thorough, and because it is run daily, timely.

The Dataset:
- Over 5,700 securities.
- Groups have a:
  ...Median depth of 28
  ...Average depth of 36

Heat Map Colour and Symbol Guide
Strength is highlighted by the background of the group title
- Bright green = best (1st decile) transitions towards...
- Bright red = worst (10th decile)
Momentum is highlighted in the border of the group title
- Colour map for momentum is the same as strength
Symbols to the right of the group ticker show where a group moved from in the previous session. Below the group symbol we highlight the number and total market capitalization of the members in a group. Clicking on the group, which brings up the chart via a hyperlink, will help to clarify the moves.
User Guide 2 - Momentum

Our Goals:
- To buy outperforming stocks in favoured groups
- To avoid underperforming stocks in unfavoured groups
- To be alerted of and act on the changes

#1 Rule of Momentum: You can use it only if it exists

- In stable/trending markets, one can buy stocks with high strength and momentum and hold them as long as momentum does not turn negative (trend following).

- In very rotational markets (e.g., where credit, currency, commodity conditions are choppy/changing):
  - Buying high strength and high momentum may be dangerous (buying yesterday's winners).
  - One is better off buying stocks with moderate strength and high momentum (bottom fishing).
User Guide 3 - Buy/Hold/Sell

Buy
- Groups with high strength and high positive momentum (top left) - “In Favour”
- Groups with moderate strength and high positive momentum - “Transitioning to Positive”
- Groups with mediocre strength and high positive momentum - “Gaining Favour”

Buy/Hold
- Groups with high strength and neutral momentum (middle left) - “Maintaining Favour”

Sell
- Groups with low strength and high negative momentum (bottom right) - “Out of Favour”
- Groups with moderately negative strength and high negative momentum - “Transitioning to Negative”
- Groups with mediocre strength and high negative momentum - “Losing Favour”
User Guide 4 - Hyperlinks To Decile Charts & Stock Selection

- Each group is hyperlinked to a chart that shows the relative strength decile as a function of time, and the moving average (momentum).

- Each chart is hyperlinked to the group membership, in our RS Filter Toolkit.
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<td>Buy</td>
<td>Outperform</td>
<td>43.2%</td>
<td>22.8%</td>
<td>57.4%</td>
<td>44.1%</td>
<td>57.0%</td>
<td>52.8%</td>
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<tr>
<td>Hold</td>
<td>Market Perform</td>
<td>53.2%</td>
<td>13.1%</td>
<td>40.6%</td>
<td>52.6%</td>
<td>41.1%</td>
<td>41.6%</td>
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<tr>
<td>Sell</td>
<td>Underperform</td>
<td>3.7%</td>
<td>9.5%</td>
<td>2.0%</td>
<td>3.2%</td>
<td>1.6%</td>
<td>5.5%</td>
</tr>
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* Reflects rating distribution of all companies covered by BMO Capital Markets Corp. equity research analysts.

** Reflects rating distribution of all companies from which BMO Capital Markets Corp. has received compensation for Investment Banking services as percentage within ratings category.

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Und = Underperform - Forecast to underperform the analyst’s coverage universe on a total return basis;
(S) = Speculative investment;
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NR = No Rated - No rating at this time; and
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