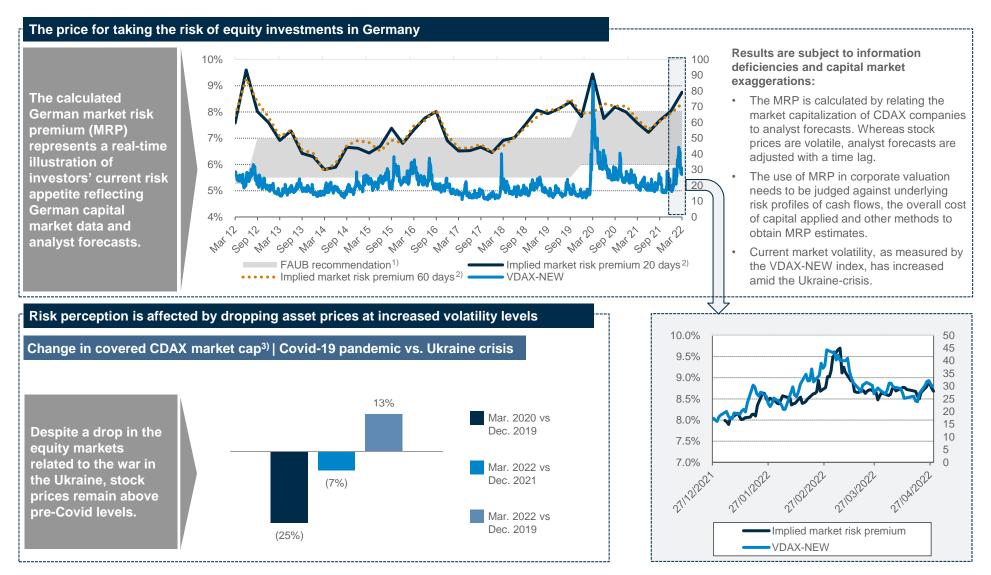


### The price for taking equity risk in Germany continues to be on the rise with rising volatility is a major explaining factor

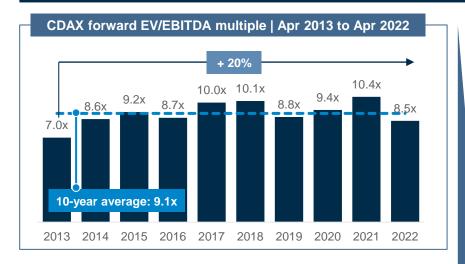


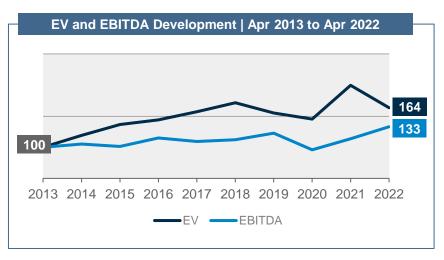
- 1) Fachausschuss für Unternehmensbewertung und Betriebswirtschaft (FAUB) of the German Institute of Chartered Accountants (IDW).
- 2) The A&M implied MRP model considers capital market data as well as consensus earnings estimates as of 31 March 2022 and is updated on a quarterly basis. The results might be affected by a timing lag with regards to updates of consensus estimates by the equity research community. The range of the MRP shown is derived by varying stock price data from 60 trading days.
- 3) The A&M implied MRP model generally analyses firm level data for all CDAX firms with sufficient data availability. As of 31 Mar 2022 (31 Dec 2021, 31 Mar 2020, 31 Dec 2019), about 97% (97%, 94%, 96%) of the total market cap of CDAX is covered.

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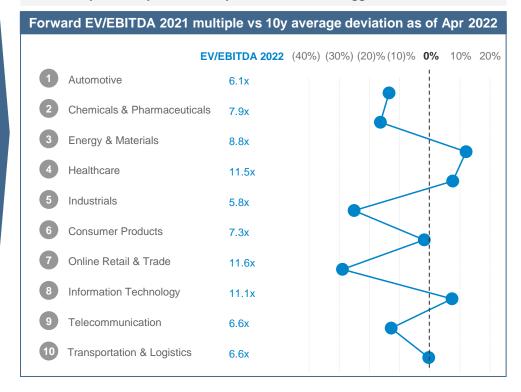
# In a 10-comparison, the recently observed trend of declining trading pricing levels gained large momentum

#### Forward EV/EBITDA trading multiple analysis based on firm level data of CDAX firms1





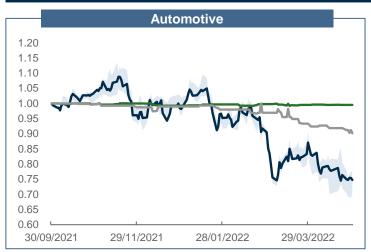
- The CDAX forward EV/EBITDA multiple declined to 8.5x in April 2022, falling below the 10-year average of 9.1x EBITDA.
- In a 10-year comparison, Materials, Healthcare and IT continue to trade at a premium, while all remaining industries analysed lost momentum with the sharpest decline for Online Retail & Trade. This is mostly driven by the disproportionally high loss in asset prices compared to not updated earnings levels by the analyst community since the Russian aggression in the Ukraine.

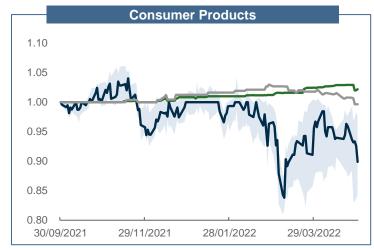


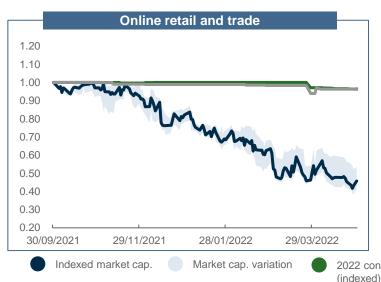
<sup>1)</sup> The analysis of forward EV/EBITDA trading multiple levels is based on all CDAX firms and compares median EV/EBITDA trading multiple levels by industry as of April 30, 2022. Only firm years considered for which consistent data was available across analysed variables. The 10-year average EV/EBITDA multiple was derived by analysing the CDAX on firm level data as at April 30 for each year going back to 2013. Source: S&P Capital IQ, A&M Analysis.

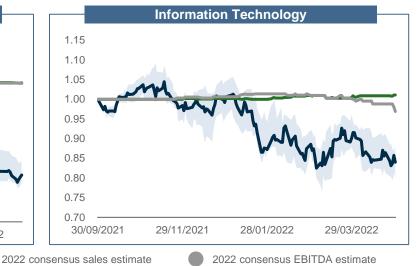
# Stocks declined since the war in the Ukraine. Updates in consensus earnings estimates are clearly lagging behind.

#### Analysis of the timing lag with regards to consensus earnings estimates and stock price movements by industry (CDAX)<sup>1</sup>









(indexed)

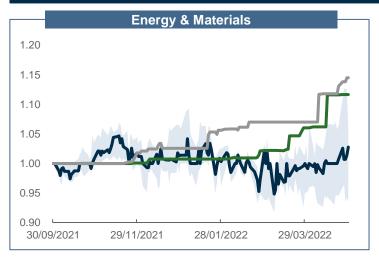
- We contrast stock price movements by industry with changes in consensus growth (sales) and profitability (EBITDA) estimates by the equity research community.
- The drop in asset prices since the start of the Russian aggression in the Ukraine is evident across most industries.
- Consensus estimates did so far not change significantly on an industry level.
- We interpret this as evidence of a timing lag in updates of consensus estimates since the start of the Russian invasion in the Ukraine.
- Hence, it appears that the significant drop in current trading pricing levels might not be sustainable given outdated consensus earnings estimates.

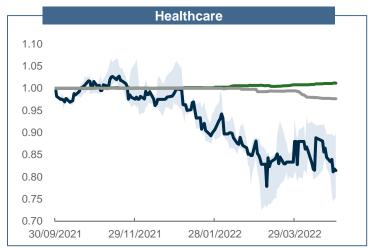
<sup>1)</sup> The analysis of the timing lag with regards consensus earnings estimates and stock price movements by industry is based on all CDAX firms and compares indexed median sales and EBITDA estimates in the period September 30, 2021 to April 30, 2022 with the indexed stock price movement by industry. Only firm years considered for which consistent data was available across analysed variables.

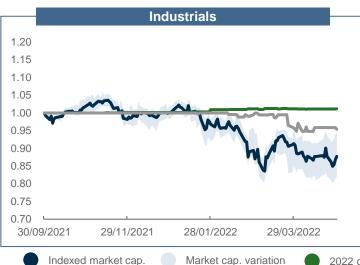
Source: S&P Capital IQ, A&M Analysis.

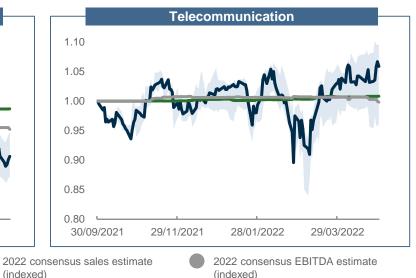
# At first sight, the timing lag does not affect industries evenly. Can there be resilience against shocks like war in Europe?

#### Analysis of the timing lag with regards consensus earnings estimates and stock price movements by industry (CDAX)<sup>1</sup>









- While the timing lag in updated growth and profitability estimates is visible for most industries, this does not hold for Energy & Materials.
- As such, while stock prices did drop at the time of the Russian invasion, asset prices quickly recovered at increased consensus sales and EBITDA forecast levels.
- Cleary the industry Energy & Materials plays a crucial role for the German economy in times of war, thus justifying the focus of analysts on this sector.
- Also, analysts seem to have reacted rather quickly in updating EBITDA estimates in the sector Industrials.
   Whether that is truly already capturing the impact of the war is rather speculative in nature.
- Telecommunication appears to be the only industry with asset prices at a higher current level compared to level before the war.

<sup>1)</sup> The analysis of the timing lag with regards consensus earnings estimates and stock price movements by industry is based on all CDAX firms and compares indexed median sales and EBITDA estimates in the period September 30, 2021 to April 30, 2022 with the indexed stock price movement by industry. Only firm years considered for which consistent data was available across analysed variables.

Source: S&P Capital IQ, A&M Analysis.

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