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Over the last three months, excluding recommendation contained in this report, Vestor issued 3 Buy recommendations, 5 Accumulate recommendations, 1 Neutral recommendations, 1 Reduce recommendations and 0 Sell recommendations. In addition to the above, Vestor DM issued 1 recommendations without pointing the investment direction or target price, including 1 acting within the Equity Research Partner commercial publications within the meaning of art. 36 par. 2 of Commission Delegated Regulation (EU) 2017/565 of 25 April 2016 supplementing Directive 2014/65 / EU of the European Parliament and of the Council with regard to organizational requirements and operating conditions of investment firms and concepts defined for the purposes of this directive, which do not indicated the investment direction. The proportion of issuers number corresponding to each of the above directions of recommendation, for which Vestor has rendered investment banking services within last 12 months is 9%.

THE LAST RECOMMENDATION ISSUED TO THE COMPANY HANDLOWY WAS PUBLISHED ON THE 10th OF JANUARY 2018 AND INCLUDED A NEUTRAL RECOMMENDATION.

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Vestor DM is the author of this document.

A description of the organization mechanisms of Chinese walls aimed to prevent the conflicts of interest:

Vestor has adopted "Procedure of managing conflicts of interest in Vestor Dom Maklerski SA", which defines the procedure for the prevention and effective management of conflicts of interest by eliminating the risk of the possible damage relating to interest of the customer, as well as specify the means and procedures for managing such conflicts of interest. Responsibilities in the matter of prevention, management and monitoring in the event of a conflict of interest are performed by designated organizational entity whose employees have the following tools that ensure proper execution of these tasks: (i) access to all documents of both the Company and the subsidiary company, (ii) the right to request provide explanations for all employees, (iii) the ability to analyze own transactions concluded by the Related persons.

Vestor applies the following mechanisms to prevent conflicts of interest, and in the case of such a conflict - to manage and monitor them in order to prevent potential negative effects on the interests of customers:

a) Independence of managing: to ensure operational independence of each organizational unit Vestor, which means in particular that (i) there is no possibility of negative affecting by third parties on the exercise of employee actions related to the conduct of the Vestor activity, (ii) the scope of tasks the organizational unit is assigned to the organizational unit, and as a rule does not intersect with the scope of other organizational units;

b) Independence of remuneration: Vestor prevents a direct relationship between the amount of salaries of employees performing specific activities in the field of brokerage activity, with remuneration or profits achieved by persons performing another kind that constitute or may constitute a source of conflict of interest;

c) Effective supervision: providing supervision of employees performing as part of its core brokerages activities tasks for and on behalf of clients in the field of activities Vestor, activities which cause or may result in a conflict of interest between clients, or the interests of the client and Vestor in including:

i. the internal reporting system is to provide immediate information to the persons responsible for overseeing compliance with the principles set out in the Regulations for the event of a conflict of interest or risk of its origin;

ii. supervising their own transactions made by individuals, periodic inspection and assessment of the effectiveness of implemented by Vestor control systems and procedures; conducting the legally required registers and records, primarily registry conflicts of interest associated with a significant risk of damage to client interests;

d) Refusal of action: the right to refuse the Vestor activity to the client, if given the commitment to specific activity on behalf of another client Vestor cannot effectively manage potential conflicts of interest, or prevent this regulatory restrictions or internal regulations;

e) The division of functions: the organization of employees' tasks are aimed at eliminating cases simultaneously or one after the other following the exercise of the employee's duties within the various services provided by the Vestor, if that could have a negative impact on the proper management of conflicts of interest;

f) Chinese walls: Vestor take any action to prevent the flow of information between related persons performing as part of the activities carried out by Vestor which cause or may cause a conflict of interest, if such exchanges of information may harm the interests of the client or clients, or provide oversight of the information flow when the flow of such is required.

Note on what the evaluation of equities is based:

Buy/Accumulate/Neutral/Reduce/Sell – means that, according to the authors of this document, the stock price may perform materially better/better/neutrally/worse/materially worse than the cost of equity of the respective stock.

The recommendation system of Vestor is based on determination of target prices and their relations to current prices of financial instruments; in addition, when recommendations are addressed to a wide range of recipients, two methods of valuation are required.

In preparing this document Vestor applied at least two of the following valuation methods:

1) Discounted cash flows (DCF),

2) Comparative valuation (including ROE-p/BV model),

3) Target multiple,

4) Scenario analysis,

5) Dividend discount model (DDM),

6) net asset value (NAV),

7) Sum of the parts,

8) Discounted residual income model (DRIM),

9) Risk-adjusted net present value (rNPV).

The discounted cash flows valuation method (DCF) is based on discounted expected future cash flows. The method includes all cash flows the issuer is expected to generate in a given period and the cost of money over time. However, the DCF valuation method requires a number of assumptions and is very sensitive to changes in parameters used in the in the model. Small changes in assumptions may result in material changes in the valuation.

The comparative valuation method is based on the rule of "one price". The advantages of the method include 1) a small number of parameters to be estimated, 2) the fact that there is a relatively large number of indicators for companies being compared, 3) The method is well-known among investors, 4) valuation is based on current market conditions. On the other hand, a comparative valuation is strongly sensitive to the valuation of the companies classified as peers and may lead to a simplified picture of the company valued.

The target multiple valuation approach is based on the assumption that the value of the company should be equal to pre-specified values of selected price multiples. The advantage of this method is its simplicity and applicability to almost all of the companies. The target multiple approach is a highly subjective method, though.

The scenario analysis approach is based on the probability weighted valuation for three sets of assumptions: Bear case , base case and bull case with a different probability assigned. The base case is based on the assumptions included in financial forecasts and DCF valuation. The bear/bull case scenarios present a sensitivity towards negative/positive changes in various assumptions including market size, market shares, profitability, growth, capex, valuation multiples etc. The advantage of this method is presentation of various scenarios and valuation sensitivity. A complexity and sensitivity to probability weights assumption may be found as disadvantages.

The dividend discount model (DDM) valuation is based on discounted future dividends that are expected to be paid out by the company over a period of time. The DDM model includes real cash streams that are expected to be received by shareholders and may be applied to companies with long-term dividend payout history. However, the DDM valuation method requires a number of assumptions.

The net asset value (NAV) approach considers the underlying value of the company's individual assets net of its liabilities. Among the advantages of the NAV approach are its applicability to asset holding companies and the fact that data required are usually easy to reach. On the other hand the NAV approach does not take into account future changes in revenues or income and can underestimate the value of intangible assets.

The sum of the parts approach values a company on the back of valuations of its separate divisions. The method is applicable to companies with very different business profiles, but requires identification of peers for business divisions comparison, what may be difficult to achieve.

The discounted residual income model includes equity at the end of a given financial year, excess equity (return on equity over cost of equity) the company is expected to generate in the estimation period and a discounted residual value post-estimation period. On one hand, the method includes profitability of the company compared to a cost of equity, but on the other hand it is strongly dependent on a number of parameters and assumptions.

The risk-adjusted net present value (rNPV) is a method used to forecast future cash flows in high-risk projects. In biotechnology, rNPV method involves forecasting future cash flows and applying probability rates of different phases of drug development. The main advantage of this method is the fact that it takes into account probability of success. The disadvantage of this method is the large number of assumptions and the high level of computational complexity.

Terminology used in the recommendation:

P/E – price-earnings ratio

PEG - P/E to growth ratio

EPS - earnings per share

P/BV – price-book value

BV – book value

EV/EBITDA – enterprise value to EBITDA

EV – enterprise value (market capitalization plus net debt)

EBITDA – earnings before interest, taxes, depreciation, and amortization

EBIT – earnings before interest and tax

NOPAT – net operational profit after taxation

FCF - free cash flows

ROE – return on equity

WACC - weighted average cost of capital

CAGR – cumulative average annual growth

CPI – consumer price index

COE – cost of equity

L-F-L – like for like

Recommendation definitions:

Buy - indicates a stock's total return to exceed more than 1.5x respective cost of equity over the next twelve months.

Accumulate - indicates a stock's total return to exceed more than respective cost of equity over the next twelve months.

Neutral - indicates a stock's total return to be in range of 0% to respective cost of equity over the next twelve months.

Reduce - indicates a stock's total return to be in range of minus respective cost of equity to 0% over the next twelve months.

Sell - indicates a stock's total return to be less than minus respective cost of equity over the next twelve months.

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