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The date and the time stated on the front page is the date of the preparation of this document. The price used throughout the recommendation to calculate adequate ratios is the "last" price stated on the front page of this document.

The definitions of terms used in the document include:

NII – Net interest income – interest income minus interest expense.

Net F&C – Net fee and commission income – fee and commission income minus fee and commission expense.

LLP – loan loss provisions – an expense set aside as an allowance for bad loans.

NPL – non-performing loan – loans that are in default or close to be in default.

Cost/Income – operating expenses divided by total banking revenue.

ROE – return on equity – net income (or adjusted net income) divided by the average shareholders' equity.

ROA – return on assets – net income (or adjusted net income) divided by the average assets.

EBIT – earnings before interests and tax.

EBITDA – earnings before interests, tax, depreciation and amortization.

EPS – earnings per share – the net income (or adjusted net income) divided by the number of shares outstanding.

P/E – price to earnings ratio – price divided by earnings per share.

PEG – P/E ratio divided by the annual EPS growth, usually over a certain period of time.

CAGR – compound annual growth rate.

BVPS – book value per share, the book value of the Company's equity divided by the number of shares outstanding.

P/BV – price to book value – price divided by the BVPS.

DPS – dividend per share – dividend of a given year divided by the number of shares outstanding.

DY – dividend yield – dividend of a given year divided by the current price.

DDM – dividend discount model – a fundamental method of valuation based on the assumption that the value of stock equals the sum of all discounted future dividends.

FV – Fair Value, calculated based on valuation methods outlined in the document.

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Rating	Difference between FV and price at recommendation
Buy	Above 10%
Hold	In between (and including) -10% and 10%
Sell	Below -10%

IPOPEMA Research - Distribution by rating category (January 1 – March 31, 2020)

	Number	%
Buy	2	29%
Hold	1	14%
Sell	4	57%
Total	7	100%

Rating History – Kernel Holding

Date	Recommendation	Fair Value	Price at recommendation	Author
08/02/2016	BUY	PLN 59.60 (adjusted on 21/04/2016 to PLN 58.65 by PLN 0.95 DPS, or USD 0.25)	PLN 44.72	Marcin Nowak
19/12/2016	BUY	PLN 82.50	PLN 65.50	Marcin Nowak
08/12/2017	BUY	PLN 70.00 (adjusted on 18/04/2018 to PLN 69.20 by PLN 0.80 DPS, or USD 0.25)	PLN 50.75	Marcin Nowak
14/05/2018	BUY	PLN 73.00	PLN 52.70	Marcin Nowak
04/03/2019	BUY	PLN 75.00 (adjusted on 17/04/2019 to PLN 74.00 by PLN 1.00 DPS, or USD 0.25)	PLN 49.00	Marcin Nowak
01/04/2020	BUY	PLN 64.00	PLN 33.00	Marcin Nowak