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*Performance Signalling of Dividend Policy  
on the NewConnect Market*

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Sygnalizacja wyników finansowych w polityce dywidendowej na rynku NewConnect

**Keywords:** dividend changes; future earnings; Poland

**Słowa kluczowe:** zmiany dywidend; przyszłe wyniki finansowe; Polska

**JEL Code:** G17; G30; G35

## Introduction

The aim of the paper is to examine whether changes in dividends may be treated as a signal from the managers about future performance of the company. We want to give evidence that in the market with high level of information asymmetry such as NewConnect (NC) payout policy may be interpreted as a tool for investors to build expectations about future financial results and therefore it could be a way of limitation the agency costs.

The NC market is characterised by relatively low entry barriers, although they were even lower prior to the radical change of regulation introduced in 2013. The companies issue shares usually under private placement with low dispersion of ownership on the basis of a modest information document. The market is open to relatively small companies with higher investment risks. Main owners usually remain on the management boards and institutional investors hardly appear on the market.

The market coverage of analysts is small (Top Pick NewConnect stocks are exception to the rule). On such a market, companies that pay regular dividends are rare, so we suspected that those who opted to pay would have preferred to use dividend policy as a communication tool to reduce information asymmetry.

Our sample consists of 42 companies listed on the NC market between 2007 and 2016. The observation covered companies that had paid dividends for at least three consecutive years. A suspension of the payment for a maximum one year was allowed.

This paper makes contribution to the literature based on the unique hand-collected data. There is still a research gap in the Polish market dealing with dividend as a tool of signalling of future results of companies quoted on alternative investment market NewConnect which has not been the object of research before. For practitioners it is important that dividends changes do not act as predictors of future earnings.

## 1. Background literature

According to the agency theory [Jensen, Meckling, 1976; Kowerski, 2011], there are conflicts of interest between shareholders and managers of public companies. The dividend payout is against the needs of management and generates necessity to raise capital. Dividends treated as draining the company's free cash flow limit the investing activities of management board.

According to the signalling theory, dividend payouts diminish information asymmetry and are perceived as signals sent to the market by managers. They can be regarded as a way of delivering information about the current and future situation of a company. A change in the dividend may suggest the definite direction in which future earnings will head [Allen, Michaely, 2003]. A raise in dividend may be perceived as an announcement of improving future earnings. On the other hand, lowering dividend may suggest deterioration of a company's situation. Managers are reluctant to increase payouts, although they currently could manage it if they are not fully convinced about the sustainability of the company's profits in the future. It is due to fear of consequences resulting from a potential reduction in dividend in case they would not be able to keep payouts on a higher level continuously.

of the so-called information content of dividends. They believe that the change in a dividend payout ratio affects the change of the market price of the company. Miller and Modigliani argue that dividend payment can provide a signal about the current financial situation and development prospects of the entity. Because of this, issuers can change investors' expectations about the level of profits in subsequent periods.

Numerous empirical studies about signalling theory of dividends have been conducted (Table 1). The authors concentrated mainly on the accuracy of the assumption that a change in dividend payout is accompanied by a change of profits and/or of share price, but the hypothesis has not been explicitly confirmed so far.

Table 1. Literature review about signalling theory

Authors (year of publication)	Stock exchange, sample size	Effects	Results
Watts [1973]	310 dividend- changing companies from S&P's Compustat Annual Investment tapes	Impact on future earnings	Positive, but small relationship between changes in size of future earnings and unexpected changes in the actual level of dividends
Laub [1976]	30 dividend-changing companies	Impact on future earnings	Results consistent with Watts's, but stronger
Aharony, Swary [1980]	NYSE, 149 dividend-changing companies	Dividends provide additional information about future prospects than quarterly earnings	Support for the information content of dividends
Penman [1983]	246 dividend-changing companies from Compustat Annual Investment tapes	If information contained in earnings, forecasts are reflected in dividend decisions	Information regarding managers' expectation can be obtained from earnings forecasts and dividend announcements
Healy, Palepu [1988]	NYSE/AMEX		

Authors (year of publication)	Stock exchange, sample size	Effects	Results
Vieira, Raposo [2007]	Euronext Lisbon (84 dividend-changing companies), Euronext Paris (93), LSE (524)	Relation of dividend announcements with share price and future profitability	No significant support for dividend signalling hypothesis for Portuguese and French markets. Partial confirmation for the UK market
Liljeblom, Mollah, Rotter [2015]	Danish, Norwegian and Swedish markets	Dividends convey information about future earnings; dividend stickiness	Support both theories for the Swedish market only
Gou, Maung, Wilson [2015]	NYSE/ NASDAQ, 36,742 dividend changes	Effect on changes in forecasted earnings, and how earnings volatility influences such an effect	A positive relation between increases of dividends and changes in future earnings, but findings strongly affected by earnings volatility

Source: own compilation.

Despite many papers contemplating on significance of dividend signalling on developed market, there is a research gap on the European alternative markets which are exposed to the risk of information asymmetry in particular.

**2. NewConnect as a market with strong asymmetry of information**

After regulation of multilateral trading facilities by EU law [Directive 2004/39/EC], the Polish stock exchange has introduced its own alternative stock market NewConnect in 2007. NC has been dedicated to small- and medium-sized enterprises that are in the early development stage, thus, it follows the trend set by other markets in Europe.

### 3. The data and research design

A sample of 42 firms was selected from those listed on the NewConnect market. Each firm met the following criteria:

- the company paid dividend for at least three consecutive years or during at least four years it did not pay dividend in only one of the years,
- the company did not pay advance dividends,
- the company was present on the market long enough to publish the annual reports following the years in which it paid dividends.

The resulting sample contains 98 observations of dividend changes. The financial data was hand-collected from annual financial reports and the information about dividend proposals were collected based on current reports (disclosures after general meetings announcing dividend decisions).

To investigate our hypothesis, multiple regression is used. We choose dividend changes (dDIV) and financial ratios describing size (Assets, Equity), financial leverage (Debt) and profitability (ROA, ROE, ROAop) of companies as independent variables. The future performance is characterised by changes of revenues (dRev), operating earnings (dOpE) and net income (dNI) treated separately as a dependent variable in a regression model.

We determine changes in dividends and changes in financial performance as following:

1. Dividend changes dDIV is equal  $(D_n/D_{n-1}) - 1$ , where  $D$

#### 4. Empirical results and analysis

In Table 2 we present descriptive statistics of variables. We can see that dividend changes are smaller than changes of net income or operating earnings and bigger than changes of revenues.

Table 2. Descriptive statistics

Variables	Arithmetic mean	Median	Minimum	Maximum	St. dev.
dDIV	54.7%	0.0%	-86.4%	1995.2%	220.8%
Rev_n	62 017.1	20 004.0	2 879.0	693 492.0	126 399.0
dRev_n	24.9%	5.9%	-75.5%	659.0%	78.5%
dRev_n1	21.7%	7.2%	-42.5%	659.0%	75.1%
OpE_n	2 883.4	1 516.0	-3 785.0	20 756.0	4 166.5
dOpE_n	11.2%	-3.8%	-9900.0%	3503.0%	1119.6%
dOpE_n1	-19.3%	-			

Regression analysis shows that only future changes in revenues are significantly explained by the changes in dividends. It occurs that only positive dividend changes influence revenues significantly (however negative changes do not) what is shown in Table 4.

Table 4. Regression of dividend changes

Dependent variable (Y)	dNI_n1		dOpE_n1		dRev_n1		dRev_n1 (for positive dDIV)	
	Parameters	p-value	Parameters	p-value	Parameters	p-value	Parameters	p-value
const	4.20230	0.49	-10.9014	0.3150	0.5446	0.4498	2.5206	0.1139
dDIV	0.16250	0.62	0.1043	0.8598	0.0828**	0.0371	0.1018*	0.0859
NI_n	0.00001	0.98	-0.0004	0.4152	-0.00002	0.4520	0.0000	



## Bibliography

- Aharony J., Swary I., *Quarterly Dividend and Earnings Announcements and Stockholders' Returns: An Empirical Analysis*, "Journal of Finance" 1980, Vol. 35(1),  
**DOI: [https://doi.org/10.1111/j.1540-6261.1980.tb0346](https://doi.org/10.1111/j.1540-6261.1980.tb03466.x)**



### **Sygnalizacja wyników finansowych w polityce dywidendowej**