

# An Empirical Discourse Analysis on Correlations Between the Minimum Wage and Domestic Private Investment

Kittisak Jernsittiparsert  
Kasetsart University,  
Bangkok, Thailand

Thanaporn Sriyakul  
Mahanakorn University of Technology,  
Bangkok, Thailand

Chayongkan Pamornmast  
Mahanakorn University of Technology,  
Bangkok, Thailand

This research has an objective to empirically analyze the discourse about correlations between the minimum wage and domestic private investment, which has been criticized severely by the authorities, especially since the Pua Thai Party's policy announcement on the guarantee of labors' minimum wage at 300 baht per day. The research uses an advanced quantitative methodology, analyzing time-series data of the minimum wage, import of capital goods and domestic machinery sales by regression and the Johansen Cointegration Test. The regression analysis reveals that the minimum wage correlates in the same direction with both imports of capital goods and domestic machinery sales, whereas when applying the Johansen Cointegration Test, the findings surprisingly indicate that they do not possess any cointegration. This indicates that the claim that the minimum wage increase will affect the domestic private investment has been reinforced by the authorities using their superior status to dominate the process of building a body of knowledge as well as to distort the truth so as to possess a control over the society. This is thus not a good-faith mistake but an effort of discourse fights on the economic unfairness and social-class discrimination, which is the root of Thailand's important structural problems.

*Keywords:* domestic private investment, empirical discourse analysis, Johansen Cointegration Test, minimum wage

## “Discourse” and “Discourse Analysis”

“Discourse” is a social science and humanity terminology which Somkiat Wanthana had translated into Thai from Michel Foucault's concept more than 20 years ago (Mektrairat, 1989). Later, the understandings on “social text” and “social reality” constructed and maintained through languages (Alvesson & Karreman, 2000), which were scattered ideas in Foucault's works, were concluded and widely published in the academic field of Thai political science in the work of Chairat Charoensin-o-larn (2006) on “discourse” as a system and procedure in the creation/production of a symbol and definition of the society, which wrapped us in terms of knowledge, truth, power, or our own self. It also includes what we create to last and to be broadly accepted in the society until it becomes “dominant discourse”.

By using the “power”, polished and purely cleaned in the pattern of “specialized knowledge/expertise”

---

**Corresponding author:** Kittisak Jernsittiparsert, Ph.D. candidate, Graduate School, Kasetsart University; research fields: empirical discourse analysis, history of Thai political thought, political communication, western political philosophy. E-mail: finn\_ramon@hotmail.com.

Thanaporn Sriyakul, M.A., lecturer, Department of Management, Faculty of Business Administration, Mahanakorn University of Technology; research fields: empirical discourse analysis, labour relation, management, Thai political history.

Chayongkan Pamornmast, Ph.D., head, Department of Banking and Finance, Faculty of Business Administration, Mahanakorn University of Technology; research fields: banking, econometric, empirical discourse analysis, finance.

such as in science, medicine, and economics, through disciplines and customaries of various “experts” in the “academic discourse” on those relevant matters, “discourse” has been used as a sign or label for “a complex strategical situation in a particular society” (Charoensin-o-larn, 2006) in order to indoctrinate/cause a viewpoint, which is not truth, to eventually become “knowledge” and “truth”.

As a critical analysis method, discourse has become very popular in different academic fields only after two decades after Foucault’s death (Vighi & Feldner, 2007) in different meanings. It is used so often that there is no definition of the term, but simply assumption as it is for “discourse analysis” (Cheek, 2004). The gist of discourse is about studies and researches on method, procedures, sequences, and details in building a symbol and meaning to things wrapping us in the society in the form of discourse, including the operations and effects of discourse on specific matters (Charoensin-o-larn, 2006).

The development of humanities in early 1960s toward psychology in early 1970s (Van Dijk, 2007) showed that the “discourse analysis” was completely related to studies and analyses of the use of language by qualitative methodology (Hodge, Kuper, & Reeves, 2008), which were widely subject to questions on the negligence on scientific reasonableness (Freshwater, Cahill, Walsh, & Muncey, 2010). This was mainly to explain the language structure and textual duty, and to reveal the relationship between textual usage and social context (Stillar, 1998), instead of proof of truth and lies (Charoensin-o-larn, 2006).

### **The Relationship Between “Minimum Wage” and “Domestic Private Investment”**

There have been criticisms on the Pua Thai Party’s policy on the guarantee of the labor’s minimum wage rate at 300 baht per day since the general election campaign on July 3, 2011, later such policy was contained in the policy statement of the Yingluck Shinawatra administration to the parliament on August 23, 2011 as the urgent policy to be implemented in the first year, and up until now. The public and private authorities stated that such policy would adversely affect the country’s competitiveness, especially investment (*Post Today*, July 20, 2011) and export (*Matichon*, August 15, 2011).

The past research on *An Empirical Proposal on Power, Knowledge and Truth of Correlations Among the Minimum Wage, Foreign Direct Investment in the Industrial Sector and Export* (Jermstittiparsert, Sriyakul, & Pamornmast, 2011) proved by empirical data that the minimum wage rate did not correlate with foreign direct investment in the industrial sector and that the minimum wage rate correlated in the same direction to export with causality. The decision to implement such policy as campaigned, therefore, will not adversely affect foreign direct investment in the industrial sector or export.

The concept of “domestic private investment” is still left unproved. The authorities such as Tanit Sorat—Vice-chairman of the Federation of Thai Industries (2011) and Arthit Wuthikaro—Director General of the Department of Industrial Works (*Prachachat Turakit*, July 15, 2011), firmly argued that domestic private investment would be staggered and may be so severe that businesses would be closed. This was consistent with the news resource from the Ministry of Industry that in July 2011 there were only four factories which obtained permissions from the Department of Industrial Works to operate. The investment value totaled 209 million baht, decreasing from the same period of last year by 1,476 percent or 14.76 times, the lowest recorded in the history and even lower than that during the global economic crisis in April 2009, in which the total value was more than 4,000 million baht (*Thai Post*, August 1, 2011).

## **Objective**

This research is conducted in order to analyze the relationship between the minimum wage rate and domestic private investment, using two indicators, which are import of capital goods and domestic machinery sale. This will reveal later whether the discourse created by the authorities, is actually the truth or just a suspicious viewpoint with a hidden agenda to make it a higher improper status of knowledge and truth.

## **Research Methodology**

### **Data and Variables**

The researchers chose to use the time-series data collected from the relevant and reliable agencies referred by the authorities and the public, covering the period of 136 months from January 2000 to April 2011, as the following variables:

(1) Minimum wage rate (WAGE), by using the minimum wage rate in Bangkok from the Ministry of Labor (2011). This is assigned as an independent variable of import of capital goods and domestic machinery sale;

(2) Import of capital goods (CAPITALIMPORT) at the fixed price of 2000 as an indicator of domestic private investment from the Bank of Thailand (2011). This is assigned as a dependent variable of the minimum wage rate;

(3) Domestic machinery sale (EQUIPMENT) at the fixed price of 2000 as the other indicator of domestic private investment from the Bank of Thailand (2011). This is assigned as a dependent variable of the minimum wage rate.

### **Data Analysis**

Empirical Discourse Analysis or “EDA” is used to reveal the gap of discourse by advanced quantitative methodology, regression analysis so as to test the relationships between variables. Later, the Johansen Cointegration Test (Johansen, 1988, 1991) is employed to double-check such relationships whether they have cointegrations, using built-in computer software.

## **Results and Discussion**

### **Minimum Wage Rate**

The minimum wage rate (see Figure 1) from January 2000 started at 162 baht per day and continuously increased averaging at 0.40 baht per month. It has reached its maximum at 215 baht per day since January 2011.

### **Import of Capital Goods**

Import of capital goods in January 2000 started at 41,844.34 billion baht and has increased and decreased in different intervals. However, considered in a big picture, the value of import of capital goods has had a trend to increase on average at 604.94 million baht per month, reaching the highest at 165,391.17 million baht in March 2011 (see Figure 2).

### **Domestic Machinery Sale**

The value of domestic machinery sale in January 2000 started at 24,689.62 million baht and has increased and decreased in different intervals. However, considered in a big picture, the value of domestic machinery sale has had a trend to increase on average at 200.64 million baht per month, the lowest at 24,019.98 million baht in

April 2000 and the highest in March 2011 at 71,485.62 million baht (see Figure 3).

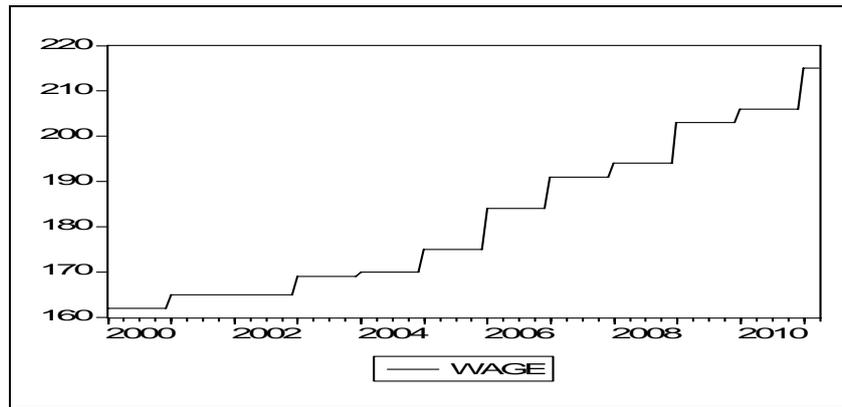


Figure 1. Minimum wage rate.

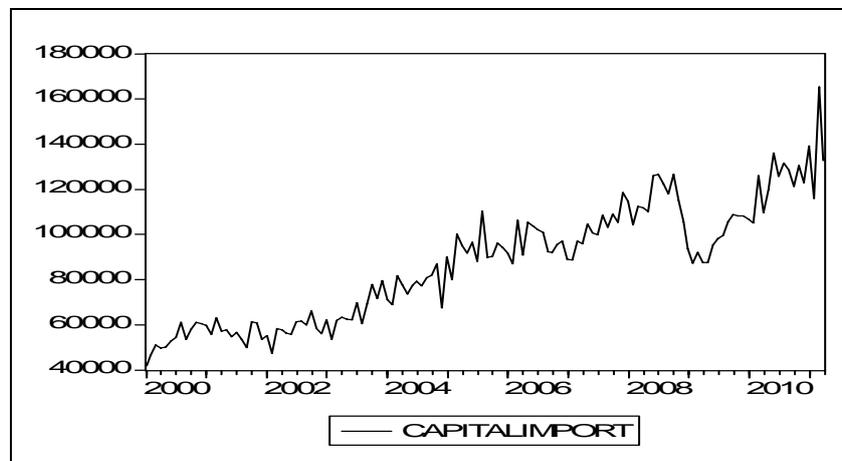


Figure 2. Import of capital goods.

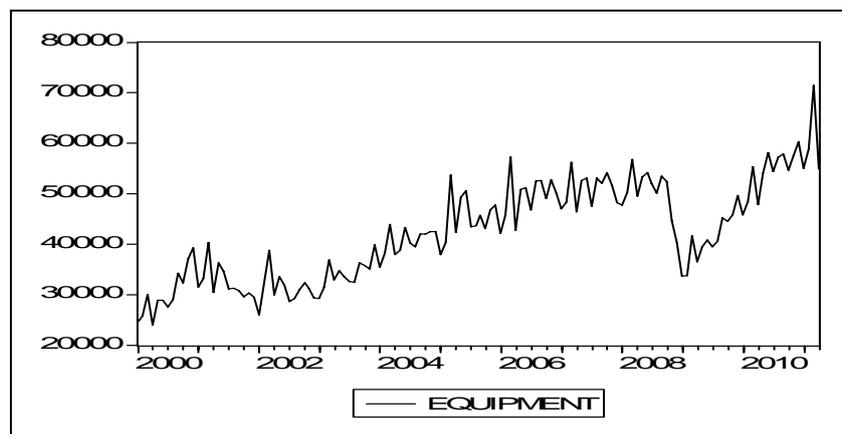


Figure 3. Domestic machinery sale.

**Relationship Between the Minimum Wage Rate and Import of Capital Goods**

At the beginning, the regression analysis shows that the minimum wage rate and import of capital goods have a relationship in the same direction with a statistical significance at 0.01 (see Table 1). Any change of the

minimum wage rate at every one baht will cause import of capital goods to change in the same direction for 1,411.12 million US dollars. The minimum wage rate can highly explain import of capital at 78.51 percent.

Table 1

*Regression Analysis on Minimum Wage Rate and Import of Capital Goods*

Variable	Coefficient	Std. error	t-statistic	Prob.
C	-168,990.3	21,425.23	-7.887444	0.0000
WAGE	1,411.116	121.6400	11.60076	0.0000

Notes. R-squared = 0.785103; Prob. (F-statistic) = 0.000000; and Newey-West HAC Standard Errors & Covariance (lag truncation = 4).

**Relationship Between the Minimum Wage Rate and Domestic Machinery Sale**

Table 2 demonstrates that the minimum wage rate and domestic machinery sale have a relationship in the same direction with a statistical significance at 0.01. Any change of the minimum wage rate at every one baht will cause domestic machinery sale to change in the same direction for 457.41 million baht. The minimum wage rate can explain domestic machinery sale at 58.14 percent.

Table 2

*Regression Analysis on Minimum Wage Rate and Domestic Machinery Sale*

Variable	Coefficient	Std. error	t-statistic	Prob.
C	-40,618.37	11,691.45	-3.474193	0.0007
WAGE	457.4104	66.69178	6.858572	0.0000

Notes. R-squared = 0.581420; Prob. (F-statistic) = 0.000000; and Newey-West HAC Standard Errors & Covariance (lag truncation = 4).

At this stage, the research can conclude that the discourse on the relationship between the minimum wage rate and domestic private investment created by the authorities, has the status of truth. Therefore, the implementation of Pua Thai's policy of guaranteeing labor's minimum wage rate at 300 baht per day will inevitably affect the domestic private investment.

Nevertheless, these relationships which seem to go along with a common sense might come from using non-stationary series in the regression analysis and could be only falsified relationships (Box & Jenkins, 1976). Consequently, the Johansen Cointegration Test is used to double-check the relationships.

**Cointegration Between Minimum Wage Rate and Import of Capital Goods**

The Johansen Cointegration Test shows that the minimum wage rate and import of capital goods do not have any cointegration at the significance of 0.05, meaning that the relationship in the above regression analysis of the two variables is only falsified (see Table 3).

**Cointegration Between Minimum Wage Rate and Domestic Machinery Sale**

Table 4 shows that as with import of capital goods, domestic machinery sale does not have any cointegration with the minimum wage rate at the significance of 0.05, meaning that the relationship found in the above regression analysis of the two variables is only falsified.

The advanced quantitative methodology demonstrates that the minimum wage rate does not have any relationship with import of capital goods nor domestic machinery sale, or in other words, the minimum wage rate has no relationship with domestic private investment.

Table 3

*Johansen Cointegration Test on Minimum Wage Rate and Import of Capital Goods*

Hypothesized No. of cointegration equation (CE)	Eigenvalue	Trace statistic	5 percent critical value	1 percent critical value
None	0.088687	12.16587	14.07	18.63
At most 1	0.021600	2.860673	3.76	6.65

Note. Trace test indicates no cointegration at both 5% and 1% levels.

Table 4

*Johansen Cointegration Test on Minimum Wage Rate and Domestic Machinery Sale*

Hypothesized No. of CE	Eigenvalue	Trace statistic	5 percent critical value	1 percent critical value
None	0.058845	7.944835	14.07	18.63
At most 1	0.009453	1.244179	3.76	6.65

Note. Trace test indicates no cointegration at both 5% and 1% levels.

### Conclusions and Recommendations

In conclusion, the discourse or viewpoint on the minimum wage rate which is created and connected to the competitiveness of the country in domestic private investment as an opposite-diction relationship, not only shows the defects of the public authorities and the private sectors' arguments for themselves, but also depicts the efforts of establishing and growing a belief through the legitimacy of the authorities (Weber, 1997) through the use of language. Discourse, including a reproduction of it, is such a powerful and efficient tool (Van Leeuwen, 2008) to dominate and economically take advantage of and discriminate against people of different social classes, all of which are the root of Thailand's important structural problems. Such fights have been utilized by authorities to transform their own viewpoints into knowledge as well as truth.

Even though the empirical discourse analysis does not give end-of-the-tunnel findings of structure, strategy or procedure (Van Dijk, n.d.), as the original discourse analyzers are interested, this new way of discourse analysis has empirically revealed the discontinuity of logics and gaps of discourse, which are clearly the start of critical thinking methods to texts produced and reproduced by the authorities until they become familiar, overlooked and finally accepted in the society without questions or examinations.

With a wide application as well as prevention of (re)production of discourse by authorities, the analysis at the beginning period can be developed and sharpened in the future.

### References

- Alvesson, M., & Kärreman, D. (2000). Varieties of discourse: On the study of organizations through discourse analysis. *Human Relations*, 53, 1125-1149.
- Bank of Thailand. (2011). *Private investment indicators*.
- Box, G., & Jenkins, G. (1976). *Time series analysis: Forecasting and control*. San Francisco: Holden-Day.
- Charoensin-o-larn, C. (2006). *Development discourse: Power, knowledge, truth, identity and otherness* (4th ed.). Bangkok: Wipasa.
- Cheek, J. (2004). At the margins? Discourse analysis and qualitative research. *Qualitative Health Research*, 14(8), 1140-1150.
- Freshwater, D., Cahill, J., Walsh, E., & Muncy, T. (2010). Qualitative research as evidence: Criteria for rigour and relevance. *Journal of Research in Nursing*, 15(6), 497-508.
- Hodge, B., Kuper, A., & Reeves, S. (2008). Qualitative research: Discourse analysis. *British Medical Journal*, 337(7669), 570-572.

- Jermittiparsert, K., Sriyakul, T., & Pamornmast, C. (2011). An empirical proposal on power, knowledge and truth of correlations among the minimum wage, foreign direct investment in the industrial sector and export. *MUT Journal of Business Administration*, 8(2), 1-12.
- Johansen, S. (1988). Statistical analysis of cointegration vectors. *Journal of Economic Dynamics and Control*, 12, 231-254.
- Johansen, S. (1991). Cointegration and hypothesis testing of cointegration vectors in Gaussian vector autoregressive models. *Econometrica*, 59(6), 1551-1580.
- Mektrairat, N. (1989). Political discourse on Thai democracy. *Social Sciences Book*, 12(1), 15-36.
- Ministry of Labor. (2011). *Table shows the minimum wage and enforce (since 1973-present)*.
- Sorat, T. (2011). *The 300 baht per day wage policy and the competitiveness of Thailand*. Retrieved September 11, 2011, from <http://www.fti.or.th/2008ftidivision/thai/newsdetail.aspx?sid=32&id=188>
- Stillar, G. (1998). *Analyzing everyday texts: Discourse, rhetoric, and social perspectives* (p. 14). California: Sage.
- Van Dijk, T. (2007). *Discourse studies* (Vol. 5, p. 2128). London: Sage.
- Van Dijk, T. (n.d.). *What do we mean by "discourse analysis"?* Retrieved September 11, 2011, from <http://www.discourses.org/journals/das/whatisdiscourseanalysis/index.html>
- Van Leeuwen, T. (2008). *Discourse and practice: New tools for critical discourse analysis* (p. 192). Oxford: Oxford University Press.
- Vighi, F., & Feldner, H. (2007). Ideology critique or discourse analysis? Zizek against Foucault. *European Journal of Political Theory*, 6, 141-159.
- Weber, M. (1997). *The theory of social and economic organization* (p. 448). New York: Free.