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Analysis of the Impact of China's Novel Coronavirus Pneumonia on Chinese Enterprises' Performance

Ying Zhao^{*}

Shandong Women's University, Jinan, Shandong, 250300, China

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ABSTRACT

The outbreak of novel coronavirus pneumonia has affected almost all industries and enterprises. This paper analyzes the impact of the epidemic on the macro economy through GDP and other indicators, analyzes the impact of the epidemic on the overall business performance of the enterprises through the asset turnover speed index of the above scale industrial enterprises, and analyzes the impact of the epidemic on the net profit of the listed companies through the first quarter performance forecast of the listed companies. At last, the paper puts forward that enterprises should improve their awareness and ability to resist risks.

1. Introduction

he novel coronavirus pneumonia, which was discovered by the Wuhan CDC in December 2019, is the most important public health event since the founding of the people's Republic of China, which has the fastest speed of transmission and the largest spread ^[1]. The state has taken a series of powerful measures to prevent and control the epidemic, such as blocking traffic, extending holidays and so on. With the joint efforts of the whole nation, the epidemic has been controlled, and the national production and living order has been gradually restored. Novel coronavirus pneumonia outbreak and prevention and control mainly concentrated in the first quarter of 2020. The series of measures adopted by the epidemic prevention have a great impact on the normal economic development. Based on the first quarter financial performance forecast released by listed companies, combined with some indicators reflecting macroeconomic indicators, the authors analyzed the impact of the new crown pneumonia epidemic on China's business performance.

2. Analysis of Novel Coronavirus Pneumonia Epidemic Situation Impact on the Macro Environment

On December 31, 2019, Wuhan health and Health Commission reminded the public to try to avoid going to public places where the air is not circulating and wear masks when going out; on January 23, 2020, the Ministry of transport informed Wuhan to close the airport, railway station and other channels, suspend the access to Wuhan road and waterway passenger transport lines, and do a good job in the health management of stations and other key places nationwide; on January 25, 2020, the Party Central Committee We began to promote local prevention and control work, strictly control traffic everywhere, and put into effect a series of

Ying Zhao,

^{*}Corresponding Author:

²³⁹⁹ university road, Changqing district, Jinan city, Shandong province, 250300, China; *E-mail: 31037@sdwu.edu.cn.*

measures, such as delaying the resumption of work by enterprises, delaying the opening of school, etc.; on February 23, 2020, the Party Central Committee proposed to restore the order of production and life in an orderly manner on the basis of grasping various epidemic prevention work ^[2]. According to the above timeline analysis, the impact of the epidemic on the external macro-economy of enterprises is mainly concentrated in January February 2020. Now, the GDP, production, consumption and investment indicators before and after the epidemic are summarized in Table 1.

 Table 1. Comparison of macroeconomic indicators before and after the epidemic

Year and month	19.1-2	19.3	19.4	19.5	19.6	19.7	19.8
GDP growth	6.4%	6.4%	6.2%	6.2%	6.2%	6%	6%
Growth rate of in- dustrial added value above Designated Size	5.3%	8.5%	5.4%	5%	6.3%	4.8%	4.4%
Growth rate of total retail sales	8.2%	8.7%	7.2%	8.6%	9.8%	7.6%	7.5%
Growth rate of fixed asset investment	6.1%	6.3%	6.1%	5.6%	5.8%	5.7%	5.5%
Year and month	19.9	19.10	19.11	19.12	20.1-2	20.3	
GDP growth	6%	6%	6%	6%	-6.8%	-6.8%	
Growth rate of added value of industries above Designated Size	5.8%	4.7%	6.2%	6.9%	-13.5%	-1.1%	
Growth rate of total retail sales	7.8%	7.2%	8%	8%	-20.5%	-15.8%	
Growth rate of fixed asset investment	5.4%	5.2%	5.2%	5.4%	-24.5%	-16.1%	

Note: Data from the National Bureau of Statistics of the People's Republic of China.

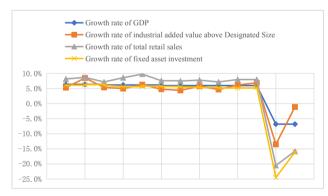


Figure 1. change trend of macroeconomic indicators before and after the epidemic

According to the data in Table 1 and the trend in Figure 1, before China novel coronavirus pneumonia outbreak, China's economic development was stable. The macroeconomic indicators showed a cliff breaking trend during the outbreak stage. The GDP and production, consumption and investment indicators fell sharply, especially fixed assets investment, which fell 24.5%. This shows that the epidemic situation has a significant impact on the external macroeconomic environment of enterprises.^[3] After the epidemic was basically controlled at the end of February, the national policy changed from "comprehensive anti-epidemic" to "anti-epidemic + restart economy", and GDP, production, consumption, investment and other indicators began to rebound and rise, with a certain recovery ^[4].

3. Analysis of the Impact of Novel Coronavirus Pneumonia on Enterprise Performance

3.1 The Analysis of the Novel Coronavirus Pneumonia Impact on the Overall Business Indicators of Enterprises

The whole industrial chain operation of the enterprise will be affected by the strategies of blocking or strictly controlling the traffic and delaying the resumption of production. For example, the delay in the resumption of work by the enterprise itself will limit the production capacity and increase the labor cost; the delay in the resumption of work by upstream and downstream enterprises will delay the delivery of orders or products, or even fail to carry out normal operation; in addition, the traffic control will block the materials, which will greatly reduce the product turnover speed and payment collection speed of the enterprise ^[5]. Now, the indicators of accounts receivable and turnover period of finished products of Industrial Enterprises above Designated Size before and after the epidemic are summarized in Table 2.

 Table 2. Comparison of overall business indicators of enterprises before and after the epidemic

Year and quarter	Quarter 1, 2019	Quarter 2, 2019	Quarter 3, 2019	Quarter 4, 2019	Quarter 1, 2020
Receivables turnover period of Industrial Enterprises above Designated Size	55.2days	54.9days	54.7days	54.7days	71.3days
Turnover period of finished products of Industrial Enterpris- es above Designated Size	18.1days	17.6days	17.2days	17.3days	26.1days

Note: the data is from data bank, which is calculated and collated.

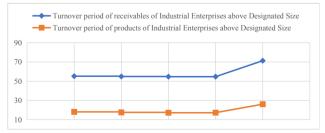


Figure 2. change trend of overall business indicators of enterprises before and after the epidemic

According to the data in Table 2 and the trend in Figure 2, before the outbreak of novel coronavirus pneumonia, the average receivable turnover period and finished product turnover period of Industrial Enterprises above designated size were relatively stable. Two indicators showed a sharp trend during the outbreak stage, especially the accounts receivable turnover period was extended by nearly 30%. Traffic control and the delay of resumption of work in upstream and downstream enterprises will cause the following problems. First of all, there is no guarantee of sufficient supply of raw materials; second, employees do not return to work, and the production capacity is insufficient to produce enough products; finally, the market demand is insufficient, and the sales volume drops sharply, which will cause the company to extend the turnover period of finished products. In addition, the overall production and operation of the enterprise will need more cash flow support, but most enterprises will not hold a large amount of cash, which will affect the business credit between enterprises and greatly reduce the speed of payment collection [6].

3.2 Analysis of the Impact of Novel Coronavirus Pneumonia on the First Quarter Performance Forecast of Listed Companies

At the end of March and the beginning of April, the listed companies successively published the performance forecast of the first quarter of 2020. Through multiple screening, the author selected ten companies with large changes in net profit, and sorted out the median of the company's predicted net profit and the median of the net profit year-on-year growth rate, as shown in Table 3. From the perspective of management, we can see the impact of the epidemic on Chinese enterprises ^[7].

It can be seen from the data in the above table that the impact of the epidemic on Chinese enterprises is not so small. The above ten listed companies are all in profit in the first quarter of 2019. One epidemic directly turns profit into loss, and the loss range is huge. Among them, the first quarter loss of radio and television metering forecast is 90-130 million yuan, with the largest amount of loss in advance. The decrease of the company's income and profit is mainly due to the delay in the resumption of work and production of the company and its customers during the epidemic period, traffic restrictions and other factors, resulting in the postponement of customer orders. Meanwhile, during the epidemic period, the cost of employee compensation, house rental, asset depreciation and other costs increased compared with the same period last year. With the novel coronavirus epidemic gradually controlled, the whole country has accelerated the resumption of production and resumption of production, and the company's business and orders have gradually returned to normal, and the company's market operation will continue to improve ^[8]. The above companies are all listed companies, with relatively strong anti-risk ability. The situation of unlisted SMEs should be more difficult.

Table 3. Statistics of the first quarter performance fore-
cast of the listed companies with the largest impact of the
epidemic in 2020

Code	Company name	Industry	Median fore- cast net profit for the first quarter	Com- pared with the median	Reasons
002350	CRERT	Trans- mission electric	-4500Ten thousand yuan	-731%	Delayed return to work due to epidemic
300011	DIN HAN	Delivery equipment	-3450Ten thousand yuan	-564%	The epidemic led to a drop in orders
300721	Yida shares	Chemical industry	-1050Ten thousand yuan	-549%	The epidemic makes it diffi- cult to operate
300358	Truking Technol- ogy	Medical industry	-2550Ten thousand yuan	-500%	The epidemic reduced income
300793	Jiahe in- telligence	Electronic component	-740Ten thousand yuan	-486%	Delayed return to work due to epidemic
002658	Sheraton	Instruments and Appa- ratuses	-31.50Ten thousand yuan	-418%	Delayed return to work due to epidemic
002922	Igor	Trans- mission electric	-480Ten thousand yuan	-348%	The epidemic reduced income
002364	Yueqing City Heng Electric	Trans- mission electric	-2700Ten thousand yuan	-337%	Delayed return to work due to epidemic
002902	Mentech	Electronic component	-1600Ten thousand yuan	-271%	Delayed return to work due to epidemic
002967	Radio and television metering	Compre- hensive industry	-11000Ten thousand yuan	-237%	Orders delayed due to epidemic

Note: the data comes from the first quarter performance forecast of each company.

4. Conclusion

According to the previous analysis, a sudden outbreak of novel coronavirus pneumonia has a great negative impact on the external macroeconomic environment and the production and operation of enterprises. This is also a wake-up call to the operators of enterprises. Because the environment of enterprises is constantly changing, and even some disasters are beyond our reasonable expectation. Therefore, an enterprise must pay more attention to the operational risk and financial risk, do a good job in risk early warning and prevention and control mechanism, control the overall risk of the enterprise within the safe range, and be able to withstand the attack of external risk, so as to have the sustainability of development ^[9].

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