# Supply-side Reform, the Choice of Deleveraging Strategy and Analysts' Earnings Forecast Optimism

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*Abstract:* Based on t he institutional background of high-quality e conomic de velopment and supply-side structural reform, this paper mainly examines the impact of deleveraging strategy on analysts' earnings forecast optimism. The study found that, compared with the "empowerment" s trategy, t he a doption o f "debt r eduction" s trategy t o de leverage significantly increased analysts' earnings forecast optimism. Further analysis shows that the pos itive c orrelation be tween "debt reduction" s trategy d eleveraging and an alysts' earnings f orecast o ptimism is mo re s ignificant in s tate-owned e nterprises, l isted companies w ith l ow i nternal c ontrol qua lity and l ow i nstitutional s hareholding. The research in t his paper is not only o f pr actical s ignificance t o unde rstand t he choice o f corporate deleveraging s trategy under the supply-side structural r eform in C hina and to explore the factors that a ffect a nalysts' e arnings forecast optimism, but also pr ovides a theoretical b asis f or p romoting g overnment d epartments to implement a p roactive and prudent corporate deleveraging policy.

# 1. Introduction.

In December 2016, the central government clearly proposed that one of the important tasks of supply s ide s tructural reform i s "deleveraging" i n o rder t o pr omote hi gh-quality eco nomic development in China. In recent years, the overall leverage ratio of China's economy has continued to rise, and the leverage ratio of non-financial enterprises (the ratio of non-financial enterprise debt to nominal GDP) reached a peak of 157.6% in 2016. This not only increases the risk of enterprise bankruptcy and raises the financing cost of enterprises [1], but also restricts the long-term and stable development of China's economy [2-4]. Therefore, as the core task of supply side structural reform, "deleveraging" i s c onducive t o pr omoting e conomic t ransformation a nd upg rading and guiding resources to more efficient enterprises.

The issue of "deleveraging" has become a hot topic in the current academic and practical circles. However, the existing research mainly focuses on two aspects: first, the reasons for deleveraging, such as the single financing method [5], tax burden and soft budget constraint incentive mechanism [6]; S econd, i t af fects t he r esults. T o a cer tain ex tent, en terprise d eleveraging w ill p romote economic r ecovery and growth [2]. T here are f ew l iterature s tudies on t he s trategic choice and micro effects of deleveraging. Therefore, this paper attempts to analyze the impact of deleveraging strategy choice on the capital market, in order to interpret the role of deleveraging policy on micro enterprise behavior from a new perspective.

As an important part of the capital market, analysts is sue profit forecasts a fter fully collecting and analyzing company information, which becomes an information bridge between investors and listed c ompanies. T he e xisting lite rature ma inly discusses the in fluencing f actors of a nalysts' earnings forecast optimism from information disclosure [7], management relationship maintenance [8], brokerage business [9], analysts' cognitive bias [10], company characteristics [11], management characteristics [7] and other as pects, i gnoring the i mpact of enterprises' d eleveraging s trategy selection on analysts' earnings forecast optimism. Enterprise deleveraging strategies can be divided into t wo w ays: "debt r eduction" and " empowerment". T his pa per de eply s tudies t he i mpact mechanism of deleveraging strategies on analysts' earnings forecast optimism.

This paper takes the listed companies from 2007 to 2019 as the research sample, constructs "debt reduction" strategy variable indicators, and tries to open the "black box" of the optimistic behavior of an alysts' earnings forecast c aused by the d eleveraging of m icro en terprises' "debt r eduction" strategy. The research found that, c ompared with the strategy of "increasing rights", the securities analysts of the deleveraged enterprises with the strategy of "reducing debt" had a higher degree of optimism i n t heir e arnings f orecasts. F urther research s hows t hat t he a bove ph enomenon i s strengthened i n t he c ase o f s tate-owned e nterprises, l ow qua lity of i nternal c ontrol a nd l ow proportion of i nstitutional s hareholding. Finally, i n t he r obustness t est, this pa per e xamines t he effect path of the enterprise's "debt reduction" strategy on the analysts' earnings forecast optimism, and finds that the financial risk, operational risk and information opacity of the listed companies that u se t he "debt reduction" s trategy t o d eleverage s ignificantly i ncrease, w hich i ncreases t he analysts' access cost to public information. For the purpose of catering to the management to obtain private information, analysts' earnings forecast optimism is improved.

The research contributions of this paper are mainly reflected in the following three aspects: First, this paper enriches the research on the micro effects of corporate deleveraging strategy selection. Most of the previous literature discussed the causes and effects of enterprise deleveraging, but the research on t he choice of enterprise deleveraging strategy was relatively lacking. T his paper discussed the impact of deleveraging strategy choice on the optimism of analysts' earnings forecast at the micro level, enriching the relevant literature on the micro effects of an alysts' earnings forecast provide. S econd, this paper expands the literature on the influencing factors of an alysts' earnings forecast optimism. The study found that enterprises use the "debt reduction" strategy to deleverage to i mprove a nalysts' e arnings f orecast optimism, which pr ovides ne w e mpirical e vidence f or analysts to pay more attention to deleveraging enterprises with the "debt reduction" strategy. Third, the research in this paper is helpful for enterprises to choose appropriate deleveraging strategies, optimize the capital structure of enterprises, and provide reference for the further development of the government's supply side reform and deleveraging.

#### 2. Literature Review

(1) The strategy of deleveraging.

High leverage has become a major hidden danger that affects the stable development of China's economy, and d eleveraging h as at tracted s pecial at tention f rom d omestic an d f oreign a cademic circles. The existing literature mainly discusses the problem of deleveraging from three aspects: the reasons, e ffects an d s trategies o f d eleveraging. O n t he l evel o f r easons f or d eleveraging, t he uncertainty of economic policies [12], the imperfect financial system, the single financing method, the ex cessive r eliance o n i ndirect financing [5], the d ecline i n the marginal effectiveness o f r eal GDP gr owth a nd i nflation g rowth brought a bout b y d ebt e xpansion [13], i nformation a nd

transaction c osts, tax burden and soft bud get constraint incentive mechanism [6] have c aused the phenomenon of hi gh l everage i n C hina. O n t he i mpact l evel of deleveraging, enterprise deleveraging can significantly improve enterprise performance, reduce debt financing costs [1,14], and t o s ome e xtent, pr omote e conomic r ecovery and gr owth [2]; T he i ncrease of l everage w ill weaken the return on assets [15], increase the level of systemic risk [16], inhibit economic growth, and e ven trigger a financial crisis [3]. In terms of deleveraging strategies, deleveraging strategies can be di vided i nto " debt r eduction" a nd " empowerment". T he f ormer de leveraging through reducing the scale of debt or controlling the growth of debt will lead to asset reduction and decline in pr oduction a nd ope ration c apacity, which i s not c onducive t o s table gr owth. T he l atter deleveraging through introducing new equity investment is conducive to improving the production and operation capacity of enterprises and reducing enterprise risks, It is a relatively more "active" way of deleveraging [17, 18].

Through combing relevant literature, it can be found that scholars at home and abroad have made rich achievements in the research on the causes and effects of deleveraging, but the research on the choice of c orporate de leveraging s trategy is not de ep e nough, lacking empirical r esearch on t he impact of deleveraging strategy choice on enterprises. Based on the background of China's supply side structural reform, how to solve the problem of excessive leverage and whether the deleveraging strategy choice n enterprises is u seful n eed t o b e s tudied an d an swered b y t he acad emic community.

(2) Optimism of Analysts' Earnings Forecast.

Securities analysts are important information intermediaries in the capital market. However, in the practice of the securities market, the forecasting behavior of securities analysts will be subject to multiple pressures. A large number of literatures at home and abroad show that securities analysts have a n opt imistic t endency in e arnings f orecasting [19,20]. In t erms of influencing f actors of analysts' e arnings f orecast opt imism, t he e xisting dom estic a nd f oreign literature has c onducted in-depth discussion from both the enterprise and the analyst. At the enterprise level, the ability of managers helps to reduce the optimism of analysts [7]; The company's institutional shareholding ratio has a supervisory effect, which significantly reduces the analyst's earnings forecast optimism [21,22]; W hen t he e nterprise has i nternal c ontrol de fects, t he analyst's pr ofit f orecast i s m ore inaccurate a nd opt imistic [ 11]; T he qua lity o f i nformation di sclosure a nd t ransparency of information of 1 isted c ompanies c an, t o a c ertain e xtent, i nhibit a nalysts' o ptimism in e arnings forecasts [7,23]. At the analyst level, analysts intend to issue optimistic research reports in order to maintain a good relationship with the company's management and obtain more private information [8]; Analysts form an optimistic tendency in order to increase trading volume and create profits for securities companies, thereby increasing brokerage income [9]; The professional development of analysts depends more on earnings forecast optimism than a ccuracy [24], and there is a positive correlation between the forecast optimism of analysts in underwriting relationship and the salary paid to them by financial in stitutions [20]; A nalysts offen have c ertain c ognitive b iases when analyzing information, prompting them to issue optimistic earnings forecasts [10]; The compliance culture of securities enterprises is positively affecting the quality of analysts' earnings forecasting behavior [25].

By reviewing the existing literature on the optimistic tendency of analysts' earnings forecasts, we can find that there is no literature to analyze the impact of the implementation of the deleveraging policy on the optimism of analysts' earnings forecasts. This paper studies the relationship between deleveraging policy and micro enterprise behavior, and tries to clarify how the choice of enterprise deleveraging strategy affects analysts' earnings forecast optimism, which has certain theoretical and practical significance.

## 3. Institutional Background and Research Hypothesis

The enterprise's d eleveraging s trategy can be divided i nto " increasing r ights" s trategy and "reducing d ebt" s trategy. The former m ainly increases p aid in cap ital or cap ital r eserve t hrough shareholder capital injection, while reducing cash dividend payment, thereby reducing cash outflow. The latter refers to reducing the scale of debt or controlling debt growth [18,26]. When an enterprise adopts t he s trategy of "increasing rights" t o de leverage, i t c an reduce its de pendence on de bt financing, improve c orporate governance and enhance enterprise v alue [17]. C ompared with the deleveraging strategy of "increasing power", the deleveraging strategy of "reducing debt" can be divided into the following two situations: first, when the enterprise has sufficient cash flow, the enterprise will choose to reduce expenditure and save some funds to pay off debts, but the reduction of funds used by the enterprise for investment will further reduce the enterprise's investment level and corporate performance, restricting the long-term sustainable development of the enterprise [27]. Second, when the self owned funds are insufficient, the enterprise repays its debts by selling assets, which has great limitations and uncertainties. This will reduce the enterprise's asset scale and cash flow, r educe i ts future pr oduction a nd ope ration c apacity [18], a nd i ncrease t he e nterprise's operational risk; Prepayment of debts increases the risk of credit default and financing constraints of enterprises, and the deterioration of debt financing conditions increases the cost of capital use and financial risk of enterprises; With the increase of operational risk and financial risk, the enterprise performance d ecreases, the m anagement m anipulates ear nings for i ts o wn b enefit, w hitewashes financial statements, and the risk of information disclosure increases [28].

It can b e s een t hat when a n enterprise a dopts t he "debt r eduction" s trategy, f inancial risk, operational r isk a nd i nformation di sclosure r isk i ncrease, a nd i t i s m ore di fficult f or a nalysts t o obtain information through open channels, making analysts more dependent on internal information obtained f rom m anagement. In or der t o c ontinuously obt ain m ore i nternal i nformation of 1 isted companies, a nalysts n eed t o m aintain a good a nd s table r elationship w ith t he c ompany's management. T hey te nd to g ive mo re o ptimistic e arnings f orecasts to p lease th e c ompany's management, s o as t o obtain m ore i nside i nformation t o i ncrease t he a ccuracy of s ubsequent earnings forecasts [8]. Therefore, an alysts' earnings forecasts are more optimistic. To sum up, we propose the first hypothesis:

Hypothesis 1: When enterprises use "debt reduction" strategy instead of "empowerment" strategy to deleverage, analysts' earnings forecast optimism improves.

## 4. Sample Data and Research Design

(1) Sample selection and data sources.

Based on t he r esearch of Z hou Q ian[18], t his paper s elects C hina's non -financial lis ted companies from 2007 to 2019 as research samples to explore the impact of corporate deleveraging strategy s election on a nalysts' e arnings forecast opt imism. T his paper s tudies t he c orporate deleveraging strategy, and therefore excludes the sample that the leverage ratio of the current year is greater than that of the previous year, i.e. only the companies that have been deleveraged during the sample period are retained as the observed value.

(2) The definition of variables and model research.

1) Interpretative variables

The explanatory variable in this paper is the deleveraging strategy, which includes two measures, namely "Debt r eduction" s trategy (Debt) and "Equity" s trategy (Equity) de leveraging. U sing the research results of Zhou Qian [18] for reference, this paper uses the change rate of debt ( $\triangle$ Debt) and the change rate of owner's equity ( $\triangle$ Equity) to measure the degree of deleveraging by "debt

reduction" and "e mpowerment" respectively. A mong them, the c hange rate of lia bilities = (total liabilities at the end of the c urrent period-total liabilities at the end of the previous period)/total liabilities at the end of the previous period. The lower the value is, the more the enterprise uses "debt reduction" to deleverage; The change rate of owner's equity = (owner's equity at the end of the current period-owner's equity at the end of the previous period)/owner's equity at the end of the previous period, which is positive and larger, indicates that the enterprise uses "empowerment" to deleverage more. This paper mainly studies the listed companies which use more "Debt reduction" strategy and l ess "empowerment" s trategy t o deleverage, t herefore, t he above-mentioned de bt change r ate a nd E quity c hange r ate a re m easured b y t he oppos ite num ber of " debt r eduction" strategy (Debt) a nd "empowerment" strategy (Equity).

2) Interpreted variables

The explained variable in this paper is the analyst's earnings forecast optimism. Based on the research of Li Xiaoxi[3], and Chu Jian[23], this paper uses the forecast optimism index of analysts' earnings (Fepspost) to measure analysts' optimism.

$$Fepspost_{i,t} = [Mean(Feps_{i,t})-Meps_{i,t}]/Price_{i,t-1}$$
(1)

Among them, Mean (Fepsi,t) is the most recent earnings forecast average of all analysts tracking Company i in the t period; Mepsi, t is the actual earnings per share for the period of T; Pricei, t-1 is the closing price of Company i at the end of the t-1 Period.

Variable Symbol	Variable Definition				
Panel A: interpreted variable					
Fepspost	The optimistic deviation of earnings forecast is calculated according to formula (1)				
Panel B: explanatory variables					
Debt	The "debt reduction" strategy is the opposite of the rate of change in debt.				
Equity	The "empowerment" strategy is equal to the inverse of the rate of change in equity.				
Panel C: control variables					
Size	The size of the enterprise is equal to the logarithm of the total assets at the end of the period				
Age	The age of the enterprise is equal to the logarithm of the establishment period of the enterprise				
TobinQ	Corporate growth equals (market value of shareholders' equity+carrying value of liabilities)/carrying value of total assets at the end of the period				
BoardSize	Board size				
Independence	Proportion of independent directors				
Big4	If it is four, it is 1, otherwise it is 0				
envir	Marketization index				

Table 1: Meaning and Measurement of Control Variables

3) Control variables

In terms of controlling variables, the paper controls several variables at the level of corporate characteristics and corporate governance. Among them, the variables at the enterprise characteristic level include enterprise Size, A ge, T obinQ, ROA, Lev, and net operating cash flow (Cashflow); Variables at the corporate governance level include BoardSize and Independence. The paper also controls the fixed effects of Y ear and industry. The specific variable definitions and measures are shown in Table 1.

4) Research model

For h ypothesis 1, this paper constructs model (2) to test.  $\beta$ 1 reflects the impact of corporate deleveraging strategy on analysts' earnings forecast optimism. The expected coefficient  $\beta$ 1 in this paper is significantly positive:

$$Fepspost_{i,t} = \alpha + \beta_1 Debt/Equity + \beta_2 Controls + \sum Industry + \sum Year + \varepsilon$$
(2)

## **5. Empirical Analysis**

(1) Descriptive statistics.

Table 2 reports d escriptive s tatistical r esults for the k ey variables. A mong them, the average values o f co rporate d eleveraging s trategy i ndicators D ebt and E quity ar e -0.048 a nd -0.501 respectively, which indicates that among all the deleveraging enterprises, there are great differences in the s election o f d eleveraging s trategy among d ifferent e nterprises. The s tatistical r esults o f analysts' e arnings forecast optimism and other control variables are basically close to the existing relevant literature, which will not be repeated here.

variable	Ν	mean	p50	max	min	sd
Fepspost	10020	0.008	0.005	0.950	-0.256	0.022
Debt	10020	-0.048	0.014	0.870	-143.112	2.070
Equity	10020	-0.501	-0.136	30.239	-624.375	8.937
Size	10020	22.362	22.180	28.520	19.194	1.297
Age	10020	2.700	2.773	3.951	0.693	0.396
TobinQ	10020	2.097	1.699	31.400	0.153	1.393
BoardSize	10020	2.159	2.197	2.996	1.386	0.199
Independence	10020	0.372	0.333	0.800	0.143	0.055
Big4	10020	0.072	0.000	1.000	0.000	0.258
envir	10020	8.483	8.640	12.795	-0.230	2.049

Table 2: Descriptive Statis	stics
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(2) Analysis of regression results.

Table 3: deleveraging strategies and analysts' earnings forecast optimism

variable	(1)	(2)
variable	Fepspost	Fepspost
Debt	0.028**	
	(2.45)	
Equity		0.005***
		(3.05)
Size	-0.000*	-0.000**
	(-1.95)	(-2.01)
Age	-0.001**	-0.001**
	(-2.03)	(-2.04)
TobinQ	-0.001***	-0.001***
	(-6.60)	(-6.57)
BoardSize	-0.002	-0.002
	(-1.59)	(-1.55)
Independence	-0.007	-0.007
<u>^</u>	(-1.52)	(-1.51)
Big4	-0.000	-0.000
	(-0.07)	(-0.07)
envir	-0.000	-0.000
	(-1.36)	(-1.36)
Constant	0.020***	0.020***
	(3.28)	(3.31)
Industry	control	control
Year	control	control
NO.	10,020	10,020
Adj-R2	0.043	0.043

Note: The value in brackets is T value; \* \* \*, \* \* and \* represent statistically significant at 1%, 5% and 10% respectively.

Table 3 reports t he r egression r esults of non -financial enterprises' d ifferent d eleveraging

strategies affecting analysts' forecast optimism. The results show that the Debt coefficient is 0.028, which is significantly positive at the level of 5%. The coefficient of E quity is 0.005, which is significantly positive at the level of 1%. This indicates that the analysts' earnings forecasts of the companies that use the "debt reduction" strategy to deleverage are more optimistic than those that use the "empowerment" s trategy t o d eleverage. The r eason is that when enterprises use "debt reduction" strategy t o deleverage, the operational r isk and financial r isk i ncrease, the quality of information di sclosure decreases, and a nalysts r ely m ore on m anagers t o obt ain i nformation. Therefore, the opt imistic t endency i ncreases, which verifies the h ypothesis 1 i n this paper. The regression results of other variables are basically consistent with the existing literature .

## 6. Conclusions

High leverage has become an important risk factor facing China's economy. How to effectively control and reduce the leverage level of Chinese enterprises has become an important problem to be solved in C hina's e conomic de velopment. U nder t he ba ckground o f de epening t he s upply s ide structural reform and promoting deleveraging in economic stability, this paper takes the selection of deleveraging strategies as the starting point, discusses the relationship between deleveraging of the "debt reduction" strategy and the optimism of analysts' earnings forecasts, and constructs a logical framework f or t he role of t he "debt r eduction" s trategy i n t he optimism of a nalysts' e arnings forecasts through three paths: financial risk, operational risk and information disclosure risk. This paper selects China's non-financial listed companies that have deleveraged from 2007 to 2019 as the research s ample, and co nstructs t he m easurement i ndicators of t he enterprise's "debt reduction" deleveraging s trategy. T he s tudy f inds t hat c ompared w ith t he " empowerment" s trategy, deleveraging us ing t he "debt reduction" s trategy has s ignificantly i ncreased analysts' e arnings forecast optimism.

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