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# The role of hierarchy in explaining capital structure of companies within the life cycle model

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**ABSTRACT:** The present study examines the role of hierarchical theory in explaining the capital structure of companies within the life cycle model of accepted manufacturing companies in Tehran stock exchange. Independent variable is capital structure and dependent variable includes the issued equity debt net and retained earnings and company size has been considered as control variable. The method of data collection is library and financial statements. The method of data analysis is correlation and multi regression test. The results show that the relationship between capital structure and debt net in the companies that are in the maturity and decline is stronger than the relationship between capital structure and issued equity in companies that are in the growth stage is stronger than the relationship between capital structure and issued equity in companies that are in maturity and decline stage. Finally the relationship between capital structure and retained earnings in companies that are in maturity and decline stage is stronger that the relationship between capital structure and retained earnings in companies that are in maturity and decline stage. Finally the relationship between capital structure and retained earnings in companies that are in maturity and decline stage is stronger that the relationship between capital structure and retained earnings in companies that are in maturity and decline stage.

Keywords: capital structure life cycle, debt net, issued equity earnings.

# INTRODUCTION

Discussion of capital structure refer to how combine financial resources of company such as short- term debt net bonds, long- term debt, preferred stock and common stock. Some companies don't consider predetermined plan for capital structure and they change capital structure without a certain planning. Although the companies may achieve success in short- time but ultimately face to major problems for necessary funding for their activities. Such firms may not be able to have optimal use of their resources.

There for, one company should plan its capital structure in such that maximize its productivity and adapt its situation with the change easily (Hampton & others 2010, 167). Companies have to plan their initial capital structure when a profitable unit is established and launched and they have to affect the decisions of capital structure, when investment needs funding.

Autamy and his colleagues in 2012 studied the topic of capital structure and organizational life cycle among manufacturing companies in Indonesia. Haeri and colleagues in 2012 conducted a study with the issue of theoretical foundations of funding capital cost and capital structure. In this paper, the method of capital cost and related theories are addressed Mosavi and keshavarz conducted a study with topic studying the relationship between factors of capital structure and systematic risk classifications in the accepted companies in Tehran stock exchange in 2011. In this research this question is answered how companies change financing strategies when topic is systematic risk classification.

Thus, the required data of this research is collected from 99 active companies among all active companies in Tehran stock exchange in 1997- 1999 using Novin Rahavard software.

#### Research hypotheses

- 1. Capital structure of companies that are in the growth stage has a significant and positive relationship with debt net.
- 2. Capital structure of companies that are in the puberty stage has a significant and positive relationship with debt net.
- 3. Capital structure of companies that are in the wane stage has a significant and positive relationship with debt net.
- 4. Capital structure of companies that are in the growth stage has a significant and positive relationship with Shares outstanding
- 5. Capital structure of companies that are in the puberty stage has a significant and positive relationship with Shares outstanding
- 6. Capital structure of companies that are in the wane stage has a significant and positive relationship with Shares outstanding
- 7. Capital structure of companies that are in the growth stage has a significant and positive relationship with Retained Earnings.
- 8. Capital structure of companies that are in the puberty stage has a significant and positive relationship with Retained Earnings.
- 9. Capital structure of companies that are in the wane stage has a significant and positive relationship with Retained Earnings.

Break down stage s in "park and chen" method

- 1. The value of each variable for each firm- year is calculated.
- Four variables were arranged according to year- Company. Then, they have been adapted to the story of take (1)
- 3. For each year- company a composite score is obtained that is classified in growth, maturity stage s given that the following conditions:
- A) If the total score is between 12 and 24 in maturity stage
- B) If the total score is between 24 and 36 in decline stage

| Table 1. life cycle table of | park and chen (2 | 2006) |
|------------------------------|------------------|-------|
|------------------------------|------------------|-------|

|               | (AGE) | (SG) | (CE) | (DPR) |
|---------------|-------|------|------|-------|
| A third first | 5     | 1    | 1    | 5     |
| A second      | 4     | 2    | 2    | 4     |
| A third third | 3     | 3    | 3    | 3     |

From these, 28 companies are in the maturity stage and 30 companies are in the growth stage and 23 are in the decline stage.

The method used to collect data is documentive. In this research, the required data for hypotheses test have been collected by providing the required data from audited financial statements board reports for general assembly of sample companies and also Novin Rahavard and policy- processor software.

After collecting the data, calculations and classification of data for hypothesis test is conducted using spreadsheet program Excel. Then to test hypothesis software Eviewes is used.

#### MATERIALS AND METHODS

This research is descriptive- correlation and practical, because it is done by purpose of using these results in capital market.

# Research model:

In this research, variables of retained earnings, debt net and issued equity are dependent variables budget deficit is independent variable and company size is control variable.

To investigate research hypothesis we show the relationship between research variables according to hierarchical theory within conceptual model.

To investigate the research question and given that the study that Rahim Utami conducted in 2012 and investigated this question in Malaysia, the following models are proposed.

Net Debt issue:  $a + b_1 \times deficit + b^2 \times size + e$  model 1

| Net Equity Issue: $a + b_1 \times deficit + b^2 \times size + e$     | model 2 |
|----------------------------------------------------------------------|---------|
| Net Retained Earning: $a + b_1 \times deficit + b^2 \times size + e$ | model 3 |

#### **RESULTS AND DISCUSSION**

#### Testing and results

The question that often arises in practical studies is whether there is evidence of the ability to integrate data or model is different for all sectional units. Therefore you should check that is there heterogeneity or individual differences between levels? If there is heterogeneity panel data approach is used and otherwise, the method of combined data with least squares approach is used to estimate model for this purpose, f lymr test is done. In this test  $H_0$  hypothesis of equal intercepts (combined data) is opposite of  $H_1$  hypothesis of anisotropy intercepts (panel data). If it was found that the studied sections are heterogeneous and have individual differences, panel methods are more suitable, for choice between fixed and random effects, Housman test is used. Housman test statistic is calculated to determine fixed or random differences of cross sections; it has a chi – square with degrees of freedom equal to the number of variables.

| Table 2. F lymr test (some intercept points) |         |    |      |         |                                       |  |
|----------------------------------------------|---------|----|------|---------|---------------------------------------|--|
| Result                                       | p-value | DF | F    | Model   | Zero hypothesis                       |  |
| H₀ Rejected                                  | 0.000   | 2  | 2.64 | 1 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 1.13 | 2 Model |                                       |  |
| H₀ Rejected                                  | 0.000   | 2  | 1.02 | 3 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 1.52 | 4 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 3.21 | 5 Model | Intercept of all levels are the same. |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 2.97 | 6 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 1.64 | 7 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 3.13 | 8 Model |                                       |  |
| H <sub>0</sub> Rejected                      | 0.000   | 2  | 2.96 | 9 Model |                                       |  |

In F test: null hypothesis shows using combined data on opposite to using panel data considering that the significant level of above table, the result indicates that heterogeneous section and use of panel data are more suitable. After selection of panel data method using F lymr, Housman test is done. In this test if null hypothesis (H<sub>0</sub>) is accepted, random effects model is used and if H<sub>0</sub> is rejected, fixed effects model is used.

| l able 3                | Table 3. Results of Housman test (choice between fixed and random effects) |    |      |         |                                                   |  |  |
|-------------------------|----------------------------------------------------------------------------|----|------|---------|---------------------------------------------------|--|--|
| Result                  | p-value                                                                    | DF | Chi  | Model   | Zero hypothesis                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 5.45 | 1 Model |                                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 4.45 | 2 Model |                                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 4.34 | 3 Model |                                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 5.54 | 4 Model |                                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 4.75 | 5 Model | There is no difference in systematic coefficient. |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 5.63 | 6 Model | •                                                 |  |  |
| H₀ Rejected             | 0.000                                                                      | 2  | 5.83 | 7 Model |                                                   |  |  |
| H₀ Rejected             | 0.000                                                                      | 2  | 5.16 | 8 Model |                                                   |  |  |
| H <sub>0</sub> Rejected | 0.000                                                                      | 2  | 4.45 | 9 Model |                                                   |  |  |
|                         |                                                                            |    |      |         |                                                   |  |  |

Table 3. Results of Housman test (choice between fixed and random effects)

The results show that the value of this statistic for each models is significant and the reported significant level at above table (p- value <0.5) indicated the rejections of H<sub>0</sub> at confidence level 95% for model, it uses fixed effects method.

#### The first hypothesis test

In this study first sub- hypothesis examines the relationship between capital structure and debt net of companies that are in the growth stage.

The result obtained from regression has been given in table (4):

| Significant | t     | Factor | Variable name                         | Symbol   | variable Type        |
|-------------|-------|--------|---------------------------------------|----------|----------------------|
| _           | -     | -      | Net debt                              | Y        | Dependent variable   |
| 0.025       | 1.64- | 1.74-  | Alfa                                  | α        | Constant             |
| 0.0021      | 1.99  | *0.040 | Capital Structure                     | X1       | Independent variable |
| 0.020       | 1.80  | *0.62  | Company Size                          |          | Dependent variable   |
| _           | _     | *1.85  | DW                                    |          |                      |
| 0.003       | _     | 3.74   | F                                     |          |                      |
| _           | _     | 0.443  | The correlation coefficient           | R        |                      |
| _           | _     | 0.197  | The coefficient of determination      | R Square | e                    |
| -           | _     | 0.196  | Adjusted coefficient of determination | Adjusted | R Square             |

| Table 4. Results of multivariable | rogrossion of conits | al structure and del  | at not (growth stage) |
|-----------------------------------|----------------------|-----------------------|-----------------------|
| Table 4. Results of multivariable | regression of capita | al Siluciule allu uel | Ji nei (giuwin siage) |

Significant level is equal to %5

As the figure shows there is significant relationship between capital structure and company size with debt net. Coefficient of variables shows that the relationship between company size and debt net is greater than the capital structure.

There is a significant and direct relationship between capital structure and company size with debt net, but this relationship between capital structure and debt net is minimal considering that the f statistic value of fitted regression model is significant and due to coefficient of determination. These variables explain 19.7% of changes of debt net. Because Dorbin Watson statistic s between 1.5 to 2.5.

It can be said that there is no auto correlation problem between variables.

# The second hypothesis test

In this research, second sub- hypothesis studies the relationship between capital structure and debt net of companies that are in maturity stage.

The result of regression has been given in table (5):

| Significant | t    | Factor | Variable name                         | Symbol   | variable Type        |
|-------------|------|--------|---------------------------------------|----------|----------------------|
| _           | _    | _      | Net debt                              | Y        | Dependent variable   |
| 0.002       | 1.54 | 1.76   | Alfa                                  | α        | Constant             |
| 0.040       | 1.53 | 0.001  | Capital Structure                     | X1       | Independent variable |
| 0.001       | 1.98 | *0.645 | Company Size                          |          | Dependent variable   |
| _           | -    | *1.775 | DW                                    |          |                      |
| 0.003       | -    | 14.002 | F                                     |          |                      |
| _           | -    | 0.668  | The correlation coefficient           | R        |                      |
| -           | _    | 0.446  | The coefficient of determination      | R Square | e                    |
| -           | _    | 0.445  | Adjusted coefficient of determination | Adjusted | R Square             |

Table 5. Results of multivariable regression of capital structure and debt net (maturity stage)

Significant level is %5

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with debt net. The coefficient of variables shows that the relationship between capital structure and debt net is greater than company size.

There is a significant and direct relationship between capital structure and company size with debt net and this relationship between capital structure and debt net in the maturity stage is strong.

Because Dorbin Watson statistic is between 1.5 to 2.5. It can be concluded that there is no autocorrelation problem between variables.

Considering that F statistic value of fitted regression model is significant and due to determination coefficient, these varibales explain 44.6% of changes of debt net.

# The third sub- hypothesis test

In this research, the third sub- hypothesis examines the companies that are in decline stage. The result of regression has been given in table (6):

| Significant | t     | Factor | Variable name                         | Symbol   | variable Type        |
|-------------|-------|--------|---------------------------------------|----------|----------------------|
| _           | _     | _      | Net debt                              | Y        | Dependent variable   |
| 0.000       | 1.36  | 1.44   | Alfa                                  | α        | Constant             |
| 0.00        | 1.118 | *1.729 | Capital Structure                     | X1       | Independent variable |
| 0.000       | 1.254 | *0.387 | Company Size                          |          | Dependent variable   |
| _           | _     | 1.89   | DW                                    |          |                      |
| o.003       | _     | 6.987  | F                                     |          |                      |
| _           | _     | 0.702  | The correlation coefficient           | R        |                      |
| _           | _     | 0.492  | The coefficient of determination      | R Square | e                    |
| -           | _     | 0.491  | Adjusted coefficient of determination | Adjusted | R Square             |
|             |       |        | Significant level is equal to %5      |          |                      |

Table 6. Results of multivariable regression of capital structure and debt net (decline stage)

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with debt net. The coefficient of variable s shows that the relationship between capital structure and debt net is greater than company size.

There is significant and direct relationship between capital structure and company size with debt net and this relationship between capital structure and debt net in companies a decline stage in strong.

# The fourth sub- hypothesis test

In the fourth sub- hypothesis the relationship between capital structure and issued equity of companies at the growth stage is examined. The result obtained from regression is given in table (7):

| Table 7. Results of multivariable regression of capital structure and equity (growth stage) |      |        |                                       |          |                      |  |
|---------------------------------------------------------------------------------------------|------|--------|---------------------------------------|----------|----------------------|--|
| Significant                                                                                 | t    | Factor | Variable name                         | Symbol   | variable Type        |  |
| _                                                                                           | _    | _      | Shares outstanding                    | Y        | Dependent variable   |  |
| 0.05                                                                                        | 1.40 | 1.54   | Alfa                                  | α        | Constant             |  |
| 0.003                                                                                       | 1.95 | *1.121 | Capital Structure                     | X1       | Independent variable |  |
| 0.003                                                                                       | 1.84 | *0.745 | Company Size                          |          | Dependent variable   |  |
| _                                                                                           | _    | 1.921  | DW                                    |          |                      |  |
| 0.001                                                                                       | _    | 0.695  | F                                     |          |                      |  |
| _                                                                                           | -    | 0.445  | The correlation coefficient           | R        |                      |  |
| _                                                                                           | -    | 0.416  | The coefficient of determination      | R Square | e                    |  |
| -                                                                                           | _    | 0.415  | Adjusted coefficient of determination | Adjusted | R Square             |  |
| Significant level is equal to %5                                                            |      |        |                                       |          |                      |  |

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with the issued equity. the coefficient of variables shows that the relationship between capital structure and issued equity is greater than company size.

There is a significant and direct relationship between capital structure and company size with the issued equity and this relationship between capital structure and issued equity in companies at growth stage is strong.

# The fifth sub- hypothesis test

In this study, the fifth sub- hypothesis examines the relationship between capital structure and issued stock of companies that are in maturity stage. The results obtained from regression are given in table (8):

| Table 8. Results of multivariable | regression of | f capital structure a | and equity (maturity stage) |
|-----------------------------------|---------------|-----------------------|-----------------------------|
|                                   |               |                       |                             |

| Table 6. Results of multivariable regression of capital structure and equity (maturity stage) |       |        |                                       |          |                      |  |
|-----------------------------------------------------------------------------------------------|-------|--------|---------------------------------------|----------|----------------------|--|
| Significant                                                                                   | t     | Factor | Variable name                         | Symbol   | variable Type        |  |
| _                                                                                             | _     | _      | Shares outstanding                    | Y        | Dependent variable   |  |
| 0.001                                                                                         | 1.05  | 2.100  | Alfa                                  | α        | Constant             |  |
| 0.00                                                                                          | 1.70  | *0.050 | Capital Structure                     | X1       | Independent variable |  |
| 0.001                                                                                         | 1.535 | *0.547 | Company Size                          |          | Dependent variable   |  |
| _                                                                                             | _     | 1.668  | DW                                    |          |                      |  |
| 0.000                                                                                         | _     | 8.84   | F                                     |          |                      |  |
| _                                                                                             | _     | 0.600  | The correlation coefficient           | R        |                      |  |
| _                                                                                             | _     | 0.36   | The coefficient of determination      | R Square | e                    |  |
| _                                                                                             | _     | 0.35   | Adjusted coefficient of determination | Adjusted | R Square             |  |
| -                                                                                             |       |        | <b></b>                               |          |                      |  |

Significant level is equal to %5

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with the issued equity. The coefficient of variable shows that the relationship between company size and issued equity is greater than capital structure.

There is a significant and direct relationship between capital structure and company size with issued equity and this relationship between capital structure and issued equity is weak in the companies that are at maturity stage.

#### The sixth hypothesis test

The sixth sub- hypothesis examines the relationship between capital structure and issued stock of companies that are in decline stage.

The result of regression is given in table (9):

| Significant | t     | Factor | Variable name                         | Symbol   | variable Type        |
|-------------|-------|--------|---------------------------------------|----------|----------------------|
| _           | _     | _      | Shares outstanding                    | Y        | Dependent variable   |
| 0.000       | 1.113 | 1.58   | Alfa                                  | α        | Constant             |
| 0.002       | 1.44  | *0.039 | Capital Structure                     | X1       | Independent variable |
| 0.000       | 1.229 | 0.398  | Company Size                          |          | Dependent variable   |
| _           | _     | 1.796  | DW                                    |          |                      |
| 0.000       | _     | 4.54   | F                                     |          |                      |
| _           | _     | 0.581  | The correlation coefficient           | R        |                      |
| _           | _     | 0.337  | The coefficient of determination      | R Square |                      |
| _           | _     | 0.337  | Adjusted coefficient of determination | Adjusted | R Square             |

As the figure shows, there is significant relationship between capital structure and company size (p- value <5%) with issued equity. The coefficient of variables shows that the relationship between company size and issued. Equity is greater than capital structure.

There is significant and direct relationship between capital structure and company size with the issued equity. This relationship between capital structure and issued stock is weak in companies that are in maturity stage.

#### The seventh sub- hypothesis test

The seventh sub- hypothesis examines the relationship between capital structure and retained earning that are in the growth stage.

The result of regression is given in table (10)

| Table 10. result of multivariable | regression of capita | I structure and retained | l earnings (growth stage) |
|-----------------------------------|----------------------|--------------------------|---------------------------|
|                                   |                      |                          |                           |

|             |       |        | 5                                     |          | 0 (0 (               |
|-------------|-------|--------|---------------------------------------|----------|----------------------|
| Significant | t     | Factor | Variable name                         | Symbol   | variable Type        |
| _           | _     | _      | Retained Earnings                     | Y        | Dependent variable   |
| 0.020       | 1.900 | 1.56   | Alfa                                  | α        | Constant             |
| 0.0021      | 1.473 | *0.600 | Capital Structure                     | X1       | Independent variable |
| 0.000       | 1.79  | *0.845 | Company Size                          |          | Dependent variable   |
| _           | _     | 2.001  | DW                                    |          |                      |
| 0.001       | _     | 42.123 | F                                     |          |                      |
| -           | _     | 0.843  | The correlation coefficient           | R        |                      |
| -           | _     | 0.696  | The coefficient of determination      | R Square | e                    |
| -           | _     | 0.695  | Adjusted coefficient of determination | Adjusted | R Square             |
|             |       |        | Cignificant loval is aqual to 0/F     |          |                      |

Significant level is equal to %5

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with the retained earnings. The coefficient of variables shows that the relationship between company size and retained earnings is greater capital structure.

There is a significant and direct relationship between capital structure and company size with the issued equity and the relationship between capital structure and the retained earnings is medium in companies that are in the growth stage.

#### The eighth sub- hypothesis test

The eighth sub- hypothesis test examines the relationship between capital structure and retained earning that are in maturity stage.

Result of regression is given in table (11):

| Table 11. Result of multivariable reg | ression of capital structure and | d retained earnings (maturity sta | iae) |
|---------------------------------------|----------------------------------|-----------------------------------|------|
|                                       |                                  |                                   |      |

| I variable Type<br>Dependent variable |
|---------------------------------------|
| Dependent variable                    |
|                                       |
| Constant                              |
| Independent variable                  |
| Dependent variable                    |
|                                       |
|                                       |
|                                       |
| are                                   |
| ed R Square                           |
|                                       |
|                                       |

As the figure shows there is a significant relationship between capital structure and company size (p- value <5%) with retained earnings. The coefficient of variables shows that the relationship between capital structure and retained earnings is greater than company size.

There is a direct and significant relationship between capital structure and company size with equity and this relationship between capital structure and retained earning is strong in companies of maturity stage.

#### The ninth hypothesis test

In this research, the ninth sub- hypothesis test examines the relationship between capital structure and retained earnings of companies that are in decline stage.

The result of multivariable regression is given on table (12):

| Significant | t     | Factor  | Variable name                         | Symbol   | variable Type        |
|-------------|-------|---------|---------------------------------------|----------|----------------------|
| Cigimicant  |       | 1 40101 | Retained Earnings                     | V        | Dependent variable   |
| -           | -     | -       | 0                                     | T        | Dependent variable   |
| 0.000       | 1.012 | 1.72    | Alfa                                  | α        | Constant             |
| 0.001       | 1.49  | 0.603   | Capital Structure                     | X1       | Independent variable |
| 0.000       | 1.11  | 0.593   | Company Size                          |          | Dependent variable   |
| _           | _     | 2.19    | DW                                    |          |                      |
| 0.000       | _     | 7.57    | F                                     |          |                      |
| _           | _     | 0.776   | The correlation coefficient           | R        |                      |
| _           | _     | 0.602   | The coefficient of determination      | R Square |                      |
| _           | _     | 0.601   | Adjusted coefficient of determination | Adjusted | R Square             |

#### Table 12. Results of multivariable regression of capital structure and retained earnings (decline stage)

Significant level is %5

As the figure shows, there is a significant relationship between capital structure and company size (p- value <5%) with retained earnings. The coefficient of variables shows that the relationship between capital structure and retained earnings is greater than company size.

There is a significant and direct relationship between capital structure and company size with the issued equity and earnings is strong in companies that are in decline stage.

Considering that F statistic value of fitted regression model is significant and due to the coefficient of determination these. Variables explain 60.2 of changes of the retained earnings.

Over all the results show that the hierarchical theory shows financial models of mature companies and decline stage better than growing companies in Tehran stock exchange.

The results of this research are consistent with the results Daskalaxis and silaki (2005) and Molayz (2007) research, because in these researches, they concluded that companies of maturity and decline stage follow hierarchical theory to provide financial deficit. The results of this study are inconsistent with the results of Utami

(2012) research. Because they concluded that the companies at the growth stage follow hierarchical theory and financial model companies of mature and decline stage is uncertain.

# Suggestions

According to evidence obtained from this study and the results of hypothesis test suggestions for Tehran stock exchange, management of companies, shareholders, creditors, banks and credit institutions, students and researchers are as follows:

- Given that the results of first hypothesis, it is suggested that shareholders and investors who intend to inter into capital market and invest on shares of companies must pay attention into stage s of life cycle because in each one of stage s of growth, maturity and decline they use different methods to eliminate the financial deficit. Investors must in each stage s according to their investment purpose. According to first hypothesis, companies of growth stage follow the hierarchical theory and achieve to success.
- According to the results of second hypothesis, it is suggested that the management of companies pay attention to financial performance of companies in the growth maturity and decline and they follow the capital structure of companies that has high financial performance.

According to that share herders invest on companies of growth stage if the annual divided profit is important for them, because these companies more divide the earning and using retained earnings for eliminating the budget deficit is in the last priorit.

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