

MASTER

FINANCE

MASTER'S FINAL WORK

DISSERTATION

PRESIDENTIAL ELECTION AND THE INITIAL PUBLIC OFFERING PERFORMANCE: THE TRUMP CASE

SARA LUISA MIRANDA DE MENDONÇA E SILVA

OCTOBER-2019

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SUPERVISION:

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List of Abbreviations

Barack Hussein Obama II – Obama

Bureau of Labour Statistics - BLS

Buy-and-Hold Abnormal Return BHAR

Capital Asset Pricing Model – CAPM

Chief Executive Officer – CEO

Consumer Price Index – CPI

Cumulative Abnormal Return -CAR

Direct Listing Process - DLP

Donald J. Trump - Trump

Efficient Market Hypothesis - EMH

Initial Public Offering - IPO

Market Capitalization- Market Cap

National Association of Securities Dealers Automated Quotations - NASDAQ

New York Stock Exchange - NYSE

Standard & Poors 500- S&P500

United States – U.S.

United States of America - U.S.A.

Venture Capitalists – VC

Volatility Index - VIX

Abstract

This study represents my final master's work, specifically my dissertation, which will focus on the Initial Public Offering (IPO). This is an analysis of the impact that certain moments of political and / or economic change may have on the performance of IPOs, specifically examining the election of Donald J. Trump, hereafter referred to as Trump, as President of the United States of America. Since Trump has been the subject of much controversy around the world, largely because of his propensity to create a large-scale impact on society with his methods and ideologies, it will therefore be of tremendous interest and value to my master's degree the study of the influence this will have on the financial market.

My goal is to make a positive contribution to the scientific community by bringing together two distinct realities: the stock market and the political environment. Through the study of the IPOs launched before and after Trump's election, their performance will be the object of study and the main tool to analyze the impact that this moment of economic and political instability, as well as the policies related to the stock market had in it. In order to reach certain conclusions, descriptive statistics were used, as well as a statistical analysis based on the number of IPOs and the average yield of the shares. This analysis is based on definitions inherent in the Event Study, widely used by several renowned authors, namely the concept of event windows, which was very useful in separating the 3 study moments (pre-event, during and post-event).

To determine the relationship between the two realities inherent in the study, a comparison was also made with the best US financial market representative, the S&P500. The results showed that we can reject the hypothesis that there is no difference between the average abnormal return in the period before Trump and after Trump, which indicates the extreme inefficiency of the market for adapting public information.

The years 2015 and 2017 were the most critical in terms of results, showing a peak of the standard deviation of the calculated returns, as well as the volatility index (VIX) and the abnormal return. The analysis shows how impactful Trump's election was in the markets, causing uncertainty and panic moments before taking office in the Senate. This has led to several companies acting out of fear of future uncertainty by anticipating the launch of IPOs in 2014 and 2015 while the effect of abnormal returns explained by the anomaly of

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the presidential elections was still present, and in that particular period was running the

second half of the Obama presidency.

At the beginning of 2017, investors were able to foresee the moments of stress and

uncertainty and were afraid to invest, because despite being the year with the largest

number of IPOs to be launched, it was also the year when around 20% of IPOs failed, so

their price 4 weeks after the IPO was launched was \$ 0, thus failing to enter the stock

market.

Keywords: Political uncertainty; Initial Public Offering; Performance; Trump; Event

Resumo

Este estudo representa o meu trabalho final de mestrado, mais especificamente a minha dissertação, que terá como foco a Oferta pública inicial de ações (*IPO*). Este consiste na análise do impacto que certos momentos de mudanças políticas e/ou económicas poderão ter na performance dos *IPO's*, examinando em concreto a eleição de Donald J. Trump, doravante denominado como Trump, para Presidente dos Estados Unidos da América (EUA). Sendo que Trump tem sido alvo de grande polémica por todo o mundo, muito devido à sua propensão para criar um impacto em grande escala na sociedade com os seus métodos e ideologias, será, portanto, de enorme interesse e valor para o meu mestrado, o estudo da influência que este terá no mercado financeiro.

O meu objetivo é providenciar uma contribuição positiva à comunidade científica ao juntar duas realidades distintas: o Mercado acionista e o Ambiente político. Através do estudo dos *IPO's* lançados no momento anterior e no momento posterior à eleição de Trump, a sua performance será o objeto de estudo e a principal ferramenta para analisar o impacto que este momento de instabilidade económica e política, bem como as politicas relacionadas com o mercado acionário tiveram no mesmo.

De modo a chegar a determinadas conclusões, foi utilizada estatística descritiva, bem como foi desenvolvida uma análise estatística, baseada no número de *IPO's* e na taxa de rendimento médio das ações. Esta análise assenta em definições inerentes ao Estudo de Evento, largamente utilizado por vários autores de renome, nomeadamente o conceito de janelas de evento, que teve grande utilidade na separação dos 3 momentos de estudo (préevento, durante e pós-evento).

Para determinar a interligação entre as duas realidades inerentes ao estudo, foi realizada adicionalmente uma comparação com o melhor representante dos EUA em termos de mercados financeiros, o S&P500. Os resultados mostraram que podemos rejeitar a hipótese de que não há diferença entre o retorno anormal médio no período antes de Trump e depois de Trump, o que indica a extrema ineficiência do mercado à adaptação de informação pública. Os anos de 2015 e 2017 foram os mais críticos em termos de resultados, demonstrando um pico do desvio padrão dos retornos calculados, bem como no índice de volatilidade (VIX) e no retorno anormal.

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A análise efetuada demonstra o quão impactante foi a eleição de Trump nos mercados,

causando incerteza e pânico momentos antes de assumir o cargo no senado.

Este facto fez com que várias empresas tenham agido por medo da incerteza futura, ao

antecipar o lançamento de IPO's nos anos de 2014 e 2015 enquanto ainda estava presente

o efeito dos retornos anormais explicados pela anomalia das eleições presidenciais, sendo

que nesse período em particular estava a decorrer a segunda metade da presidência de

Obama.

No inicio do ano de 2017, os investidores conseguiam antever os momentos de stress e

incerteza e demonstravam receio em investir, pois apesar de ter sido o ano com o maior

número de IPO's a serem lançados foi, também, o ano em que à volta de 20% dos IPO's

falharam, pois, o seu preço 4 semanas após o lançamento do IPO atingiu o preço de 0\$,

falhando assim na sua entrada no mercado de ações.

Palavras chave: Incerteza política; Eleições; IPO; Trump, Evento; Performance;

1. Introduction

There has been a lot of research done on Initial Public Offerings (IPO's). The studies on this type of equity issuance analyses many issues, as follows: the pricing of equity (Nielsson & Wójcik, 2016), the market timing (Blum, 2011), the performance of the IPO (Coakley et al., 2004), and the impact of the political and economic factors (Jensen, 2005), among many other works of reference.

Following the idea that "economic factors such as business cycles, are drivers of IPO volumes" (Subadar Agathee et al., 2012), this work has the objective of studying the performance of the IPOs, specifically the ones launched the moment before a certain change in the economic and political conditions of a country and, the performance of IPOs released after the uncertainty surrounding it it's over, so that it can be easily understood the impact that the event has on the number of equity issuances and, also, on its return.

The analysis of the performance is made using a 2-year time frame for both samples (pre and post event companies), as it has been the type of methodology used in the literature reviewed when studying this characteristic of the IPO and, of course, due to the proximity of the present (there is no availability of data after the year of 2019).

The methodology used is the statistical analysis, much known in the field of finance for measuring the impact on a firm of the occurrence of a macroeconomic event in its value, the value of its security prices, among many other variables' worthy of study. (Teixeira et al., 2012)

As a moment of separation between the two samples, it is going to be used the winning of the elections by Donald Trump in 2016, being this such a deep and important mark in the United States (US) and the world history.

The case study will focus on this specific event, and on the influence that the elected has on the IPO price, and its performance. Therefore, this work is an exploration of a political event and of the correspondent financial market adjustment. In the next section (section II) will be presented a basic theoretical guideline, which, along with the literature reviewed, provides the basis for the study that follows. In section III, it is introduced the

methodology used to measure the movements of the relevant variables. Section IV explains the data applied to infer the validity of the assumptions assumed, its relevance and impact. Section V shows the outcome of the analysis employed as well as its development. Finally, Section VI provides the conclusion and, Section VII the limitations found throughout the work and suggestions for future research.

2. Literature Review

The subject of IPO tends to have various topics of concern surrounding it. However, many companies and investors still rely on this issuance of equity to ensure their positions and influence in the market. Often, it is suggested that it happens because IPOs come with a lot of benefits such as raising large amounts of money compared to other financing options, the increase of the exposure to the industry and the market, in general, which can be an enhancer of the company's profits, and additionally gives the company a lower cost of capital.

On the other hand, there are disadvantages of this offering, that are addressed in several papers, namely in Demers (2005), that analyse the IPO failure risk. The most relevant fact shown in this paper, in particular, is the analysis of the IPO failure prediction model that includes firm-specific characteristics that can be associated with the failure of the firm, because it is observed that there are little or no study of this relationship in previous studies.

It was noticed by several researchers that besides the intrinsic factors that can lead to a failure - which is the worst case scenario - there are also many drawbacks of doing an IPO: the high legal, accounting and marketing costs, the propagation of information related to the company to the public and the loss of control. This leads to stronger agency issues and, likewise, the ascending risk of legal and regulatory issues.

Additionally, as the economy is growing without precedents, it rises, also, the availability of new opportunities and substitutes of raising money by this channel, such as:

- Increase of capital achievable to private companies, being this through Venture Capitalists (VC), Angel Investors or Private Equity (Investment banks), depending on the stage of the company.

- Mechanisms to enter the market and sell shares to the public without the need of an underwriter, called Direct Listing Process (DLP). DLP is a mechanism in which no new shares are created and only existing, outstanding shares are sold with no intermediaries involved. It is used mainly by companies that cannot afford the fees imposed by underwriters, do not want to issue new shares or are avoiding the obligation of maintaining a lockup period, which is a mandatory condition in IPO's.

- Private Debt, often requiring the selling of part of the equity stake of the company.
- Revolving Credit Line, if the total capital that the company needs can be acquired, without solvency issues, in smaller parts and periodically.

Amongst many other solutions, like the sell-out of the company, a strategic acquisition or merger, government funding, etc.

Gathering the articles on the topic of IPO, which are described in detail in Tables 4 and 5, it is feasible to reach some main topics that are subject of research and demand highlight:

2.1 Pricing

The main objective of launching an IPO stands on selling equity at the best possible price, using various types of mechanisms, being the Underpricing (Shiller, 1990) one of the most mentioned issues. This deep studied phenomenon happens when the offering price of a stock is lower than its market value, which happens very frequently. This can be either because the market does not have enough information about its peers and it is constrained on providing the correct pricing of the company's equity (Banerjee, et al., 2016), or on purpose, by signalling the IPO price.

The mechanism mentioned above, usually called "Signaling by Underpricing", is employed when a company or the underwriter is manipulating the market by leading to a higher demand than it would have happen if the stock were at its fair value. In most cases, in the long term, this drives the value of the IPO to fall drastically, as it is adjusting its price to the demand, sequentially being the reason for a lot of IPO's to fail.

The rationale behind the Underpricing theory changes with time and the circumstances,

bringing all types of interesting topics to the surface, such as: the winners curse problem,

the dynamic information acquisition, the existence of side payments to the Chief

Executive Officer (CEO), amongst others (Loughran & Ritter, 2004).

2.2 Timing

First of all, when planning to issue new equity a company must guarantee that it reconciles

all the legal requirements and is fully prepared to embrace it: has a strong management

team, good capital structure (Fischer & Pollock, 2004) and chooses an efficient external

IPO team. Considering that all the initial requirements are fulfilled and the company

structure is ready, it is then favourable to draw the business plan.

Considering that trading is a method that is directly dependent of time, it can be settled,

with some certainty, that the imperfect timing of IPO's is in most cases the reason why

they fail, get low valuations and subsequent poor trading volume. As it shall be presumed

by the quoted sentence below, timing is almost like playing Russian roulette, as it is never

a certain science.

"The lesson from the past 20 years is that trying to time the IPO market can be a risky

proposition. Certain indicators can help companies gauge the overall market, but there

is no one foolproof measure on which to bet the outcome of the IPO event"

In (Deloitte, 2016)

It is, besides the uncertainty, important to prepare and analyse the market carefully: take

into consideration the business cycle, search for any signs of overvaluation to maximize

the companies proceeds and take actions when low volatility is encountered to minimize

the possible losses (Blum, 2011).

Combined with the thoroughly studied piece of this great engine called the IPO, there are

a phenomenon called hot and cold issue markets, mentioned in several renowned works,

as of the case of Helwege & Liang (2004) and Yung et al., (2008), encompassed by many

others, that are essential on the understanding of the issuance trends the market presents.

This circumstance presents the name of hot/cold markets because of the periods of

significantly greater/lower numbers of new issues, linked then to higher/smaller average

initial returns. To conceive a *hot* IPO it must be build hype around the IPO, leading investors to the belief that in a short time period there will exist high demand of this equity offering. By the means of behavioural finance, even the most experienced investor can be tempted to bet on the instrument at stake and align with the trend created. This speculation is achieved either during the roadshow, which is an integrant phase of the launch of an IPO, or in some other chosen moment in time.

2.3 Performance

The market presents plenty of metrics used to measure the performance of the IPO, being crucial the understanding of the period to study, in order to choose the adequate methodology.

Assuming that an individual is looking for a long term analysis, the path would be to calculate Buy-and-Hold Abnormal Return (BHAR) and comparing its values to a proxy (See Harjeet S. Bhabra, & Pettway, (2000) and Subadar Agathee et al., (2012)). On the other hand, choosing the short-term window, it is usually recommended to calculate the Cumulative Abnormal Return (CAR), measure defended by FAMA (1998) as the optimal one, either for long or short-term periods. Indeed, it is suggested, that BHAR causes some inaccuracies due to its compounding effect (such effect is not present in CAR as it is merely an arithmetic measure, calculated as the sum of the difference between the logarithms of actual return and expected return).

In some recognized studies the operating performance is the key fact to reach conclusions, as in the paper of Bharat A. Jain & Omesh Kini, (2008), on the grounds that the process of launching new equity to the market involves many changes in the internal structure of the company and a subsequent reformulation of its activities. It occurs that the moments of greater volatility (for example, during the *bubble years*) point to the influence of both market timing and investor sentiment on long run operating performance (see Coakley et al., 2004).

The primary goal of a well-diversified portfolio is most often to surpass the performance of the main composite indexes: NASDAQ, Dow Jones, and S&P 500. Acknowledging this, the comparison of the stock returns in 4 weeks after the IPO to an index representative of the US market impersonates the performance measure selected to this

work, as it is the main function of an index to conduct investment analysis, measure economic trends, and forecast market activity.

2.4 Political and Economic factors

Since political and economic uncertainty generates stock price volatility, its effects on stock prices and output is a good explanation of why stock volatility is highly correlated with output declines. But this is not always the case: situations of crisis and change can lead to an incontestable positive shock on security prices (Ljungqvist & Wilhelm, 2003) and on investment (Atanassov, Julio, & Leng, n.d.), or to a detrimental impact on the market.

As the prices of financial products adjusts according to their exposure to the returns, the impact of state and economic variables is of great interest to analyse (Chen et al., 1986). In a global view, investors are most of the times excited for the election of a new political candidate, overreacting to unexpected news (Bondt & Thaler, 1985). So, contrarilly to what is mentioned in the Efficient Market Hypothesis, investors are affected by cognitive and emotional biases and do not price all publicly known information instantly.

This present study, as mentioned before, focuses on a recent case, the case of Trump elections in the USA that did not present a negative impact on the stock market in the short term, possibly due to its embrace of the corporate tax reform. However, what is good in the short term may not be the best fit in the long run, as shown in Wagner et al., (2017).

In addition, a characteristic worthy of analysis is the political position of this individual, as this has been, in recent studies, correlated with the performance of the stock market (Pierdzioch, 2006). Trump claims himself to be a republican or, by other words, conservative, as he follows mainly the ideas of the right wing: limited government power and, therefore, empowerment of the individual; inexistence of welfare programs; strong military forces; traditional American values - against gay marriage, abortion, communism, and so on.

The former president Barack Obama, on the other hand, represents the democrat party, praising of a modern liberalism, which has as a foundation on social and economic equality, support of minority rights, along with welfare state. One of many policies that

to this measure.

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support this ideology is the program *Patient Protection and Affordable Care Act*, mostly known as *ObamaCare*, which was cancelled by Trump that clearly stated its opposition

During the period of study, which is between 2014 and 2019, it is passive of observation two different political parties defended by the elected president at time. Obama with a

great impact until 2016 and Trump since 2017, where he took its position in the senate of

the USA. This differential is notorious and shown thoroughly in the present work

The anomaly representative of the changes that the 4 years of presidency of a new elected

has on stock market returns is labelled as the Presidential Election Cycle, concept

designed by Yale Hirsch. This trend is often referred in notable works concerning this

area of studies and persists in holding its contribute, stating that U.S. stock markets returns

are lower in the first year of presidency, also called inaugural year, following the election

of a new U.S. president.

"More broadly, these findings seem to fit into a well-known phenomenon called

the presidential election cycle, referring to the four years following a new

president taking the oath of office. Going back to at least the 1960s, the second

half of a president's term, especially the third year, has almost always

outperformed the first half. For the last 14 election cycles, returns in the third year

of a term have averaged about 16 percent, double the average during every other

year. That means for this year's election, 2019 should be a good one for investors

regardless of how markets react in the coming few days." – Sturm, R. (2016)

In conjunction with what is stated above, when engaging in the subject of political party

the repercussions also differ: whether the elected is a Republican as Trump, or a Democrat

like Obama. Certifying this discrepancy is *Reuters Plus*:

"In the first year of a president's term, the market is up an average of only 2.6%

when the new president is a Republican versus a whopping 22.1% when he or she

is a Democrat."

Source: Global Financial Data as of 1/12/2018. S&P 500 Total Return Index from

12/31/1925 — 12/31/2017

A fair generalization of the stock market is that it doesn't like uncertainty, being this the

issue to analyse in my dissertation: Have the elections on the US, that were by far the

most controversial ones, caused an impact in the stock market and then on the performance of the IPO's? Was it a positive or negative impact?

3. Methodology

The theoretical background behind the stock market provides us with three versions of the Efficient Market Hypothesis: the weak; the semi-strong; and the strong form. They all differ by their assumptions of what is implied by the total availability of information. Reflected in the Semi-Strong form hypothesis, which is the focus in this work, is the conception that all information available to the public regarding the prospects of a specific firm shall always be incorporated in the stock price of the security.

In order to analyse the impact of the elections of 2016 in the USA, which represents the event to study, on the pricing and performance of IPO's, the statistical analysis is crucial and of great importance. This approach is almost always employed in the pursuance of the possible presence of abnormal returns caused by some specific event, within a certain period, which can corroborate or oppose to the Semi-strong of the EMH. If financial markets are efficient, in the sense that information about the future payoffs of the assets are factored in their prices, an event that affect these future payoffs should translate into an immediate repricing, as the semi strong form of the EMH states. The impact of an event can thus be measured by examining security prices surrounding the event.

It is consequently performed descriptive statistics calculations as well as the abnormal return, using S&P500 monthly return mean as the gauge of return on the market portfolio. On the choice of methodology and, according to Pinto (2003), various models can be used in order to calculate the excess return: the mean adjusted return model, the capital asset pricing model – CAPM- or the market adjusted return, being the last one the guideline of this study.

The method of calculation of the abnormal return is through adjusted market returns, given by the simple difference between the return on the stock, called the real return, and the return on the market portfolio, given the same period in time. To model the normal return, this is one of the two most used measures, according to MacKinlay (1997), being assumed a linear stable relationship between the return on the market and the return on the stock with this mensuration criteria.

Moreover, and as mentioned before, the descriptive statistics were calculated, specifically the mean monthly and annual return, standard deviation and the variation. The measure for volatility is provided by the standard deviation of returns, as it is a measure of how much values deviates from its average. Lower standard deviations mean the values showed a consistent behaviour, and higher ones exhibit the increase in the

4. Data

variability of the results, in the period at study.

The variables used to employ the study of the IPO's performance were retrieved from Thomson Reuters and include the period from January of 2014 until January of 2019. The timeline is chosen considering the limitation of period after the event took place, since it must end in 2019, as it is the current year.

The event window is from January of 2016 to January 2017, with the 8th of November of 2016 as the event date. It is assumed the election winning as the moment of greater volatility and, accordingly, considered as the key event.

It was considered an event window of a year, in concordance with the vision of several researchers in the same area of studies, as Brown and Warner (1985), Mackinlay (1997) or Pinto (2003), that used longer observation windows – bigger than 1 week, for example - as, for the purpose of the study, there were no intersection of events, thereby no repetition in a short time frame.

As the elections only happen in a 4 year time range (ruling out some exceptions), the event window is assumed to consist in 1 year, as the campaign starts in 2016, Trump won the elections in November of 2016 and, postliminary, assumed the job in the senate of U.S.A. in January of 2017.

The period of study, before the event, is from January 2014 to January 2016 (441 observations) and the post-event window from January 2017 to January 2019 (380 observations).

In this sample are included stocks from New York Stock Exchange (NYSE) and National Association of Securities Dealers Automated Quotations (NASDAQ), as the region of study is the US.

Dates: Issue Date	2014	2015	2016	2017	2018
January	19	15		9	24
February	23	11	4		14
March	31	10	4	8	17
April	29	15	8	16	12
May	22	19	16	14	23
June	31	29	9	16	36
July	34	17	13	13	24
August	8	9	7	4	11
September	17	9	15	14	21
October	26	17	14	19	27
November	24	10	2	26	10
December	14	2	3	9	13
Grand Total	278	163	95	148	232
Grand Total (without outliers)	259	146	82	124	182

Table 1- № IPOs per month (2014-2019)

It presents a total of 916 IPO's, and it has reference of its issue date, stock exchange name, security type, business sector,

company name, shares outstanding after IPO, ticker, offer price, stock price 4 weeks after offer and the percentual change offer price to price 4 weeks after offer.

Conclusions of Pastor and Veronesi (2005) include the fact that one of the most important factors in the decision to undergo in an IPO release is the environmental conditions, also affirming that IPO volume declines in bad market situations, since companies prefer to wait for more favourable circumstances. Explanation for the low value of IPOs in 2016 can be largely explained by this theory.

From the IPOs that happened during these 5 years, some of them happened to be unsuccessful, as mentioned by Demers in its popular work "IPO Failure Risk: Determinants and Pricing Consequences" wrote in 2005, so it was made an exclusion of these outliers as they deviated the values of the returns negatively.

That being said, IPOs that after 4 weeks of being launched to the market presented a price of zero dollars were ruled out. Stocks that fall to an offer price of 0\$ will most probably be delisted by their stock exchange, in a short notice, as they are becoming worthless to investors.

Also, the values that represented exceptional returns (bigger than 10.000% return) were excluded for the sake of the results, because the extremely big values made the results biased. In this study, these values were only represented by 3 observations in the year of 2014 but had a great impact on the results, as it can be observed in the *Figure 5*.

As a consequence of this exclusion the total number of IPOs to analyse in the study period dropped from 916 observations to 793.

In the observations regarding the period before the event and, grouping the year of 2014, with a failure of 16 IPOs, and 2015, where there were 17 observations considered "failure", we get a number of 33 IPOs that were unsuccessfully conceived.

This cycle went to a drop to 13 in 2016 and, then, an exponential growth to 24 in 2017 up to the total of 50 in 2018, more than doubling its number in the Post-event period.

The reason behind these failures is, in most cases, caused by investor sentiment and can have as basis one of many scenarios:

- i. Implications from changes in US Trade Policies;
- ii. Geopolitical tensions;
- iii. Stronger regulatory requirements;
- iv. Monetary policy surprises;

Amongst other possibilities, that create indeed an impact but on a smaller scale.

It can be seen a clear rise in the failure of IPOs throughout the period of study, indicating generally the presence of investor sentiment related to political and economic cycles and because of changes induced by those events.

A measurement of investor sentiment is the Volatility Index (VIX) that is defined as a benchmark index to measure the market's expectation of volatility in the future.

It is constructed based on options, more specifically on the ones included in S&P500 index, as it is the leading indicator of the U.S. stock market.

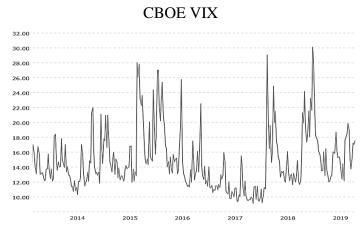


Figure 1- CBOE VIX price movements

The main characteristic is that VIX and S&P500 tend to move in opposite directions – VIX rises when equity declines and vice versa. Accordingly, the correlation of VIX and S&P500 is, then, highly negative.

This index is nothing more than the representation of the market's expectation of 30-day forward-looking volatility.

A study of Baker and Wurgler (2007) considered a clear relationship between investor sentiment and the number of IPOs, concluding that when market sentiment is high, the number of IPOs tend to increase.

Observing the values of VIX under the 3 separate periods of analysis, it can be observed an increase in the index in the year of 2015 – coincident with the announcement of Trump stating its run to presidency – the Pre-event.

In the year of 2016, as it is the event window, until the middle of 2017 the values were the lowest in the period presented, reaching an extreme positive peak in 2017 and 2018 – the Post-event.

To ease the understanding of the peaks mentioned, it is presented Table 2, containing the yearly historical observations of VIX:

Year Closing Price Year Open Year High Year Low Year Close % 2019 15.98 23.22 25.45 12.01 17.57 - 2018 16.64 9.77 37.32 9.15 25.42 1 2017 11.09 12.85 16.04 9.14 11.04 - 2016 15.83 20.70 28.14 11.27 14.04 - 2015 16.67 17.79 40.74 11.95 18.21 - 2014 14.18 14.23 26.25 10.32 19.20 3	CBOE Volatility Index: VIX - Historical Annual Data								
2018 16.64 9.77 37.32 9.15 25.42 1 2017 11.09 12.85 16.04 9.14 11.04 - 2016 15.83 20.70 28.14 11.27 14.04 - 2015 16.67 17.79 40.74 11.95 18.21 - 2014 14.18 14.23 26.25 10.32 19.20 3	r	-	Year Open	Year High	Year Low	Year Close	Annual % Change		
2017 11.09 12.85 16.04 9.14 11.04 - 2016 15.83 20.70 28.14 11.27 14.04 - 2015 16.67 17.79 40.74 11.95 18.21 - 2014 14.18 14.23 26.25 10.32 19.20 3	9	15.98	23.22	25.45	12.01	17.57	-30.88%		
2016 15.83 20.70 28.14 11.27 14.04 2015 16.67 17.79 40.74 11.95 18.21 2014 14.18 14.23 26.25 10.32 19.20 3	8	16.64	9.77	37.32	9.15	25.42	130.25%		
2015 16.67 17.79 40.74 11.95 18.21 2014 14.18 14.23 26.25 10.32 19.20 3	7	11.09	12.85	16.04	9.14	11.04	-21.37%		
2014 14.18 14.23 26.25 10.32 19.20	6	15.83	20.70	28.14	11.27	14.04	-22.90%		
	5	16.67	17.79	40.74	11.95	18.21	-5.16%		
	4	14.18	14.23	26.25	10.32	19.20	39.94%		
2013 14.23 14.68 20.49 11.30 13.72	3	14.23	14.68	20.49	11.30	13.72	-23.86%		
2012 17.80 22.97 26.66 13.45 18.02	2	17.80	22.97	26.66	13.45	18.02	-22.99%		

Table 2- CBOE VIX historical annual data (Retrieved from: https://www.macrotrends.net/2603/vix-volatility-index-historical-chart

The Average Closing Price of the VIX, also referred to as "investor fear gauge", shows a clear rise during times of financial stress, in this case marked by 2015 and 2018. During these specific periods of market turbulence, the VIX spikes higher, reflecting the investors panic.

This Volatility Index presents its fit to this study for being the sequel of the S&P500 return analysis, as it bases itself on this market index to reach its valuation.

The values of the S&P 500 index, included in Figure 2, are seized in order to carry out the analysis of the performance, using a proxy of the market portfolio, comparing its values to the studied data of the IPO's. For guidance, a market proxy is a broad representation of the overall stock market and, specifically, S&P 500, that is constructed based on the market capitalization (referred as Market Cap) of the 500 largest companies traded on the NYSE and NASDAQ stock market exchange, representing the leading industries of the US economy.

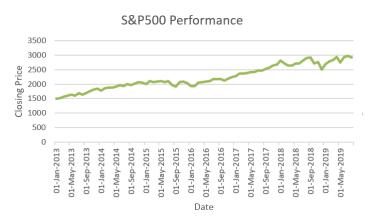


Figure 2- S&P500 performance

Following this structure of data, the companies retrieved for the research launched their IPO's only in one of these two stock markets. This index is the best-known market proxy for the U.S. stock market, and is preferred as a proxy in this statistical study as many academics and analysts use it for the sake of performing statistical research on stock market behavioural patterns. (See Wong, W., & McAleer, M., 2009)

5. Empirical Results

For the sake of simplicity, are defined four main components that contribute for the conclusions reached: Abnormal Return, Volatility, Level of VIX and N° of IPOs, the pair of launched IPOs and the "failed" ones.

1. The <u>Abnormal Return</u>, also known as "alpha" or "excess return," is the component of a portfolio return that it can't be explained by the rate of return of the market.

By analysing Figure 3, it is observed a low result value for the period that is ahead of the election winning, which is represented by the event window, and the first two years of

presidency what may be assumed as an underperformance of the stock, such results that are consistent with the presidential election anomaly. This anomaly explains also the big values of excess return in the years of 2014 and 2015, correspondent to the second half of the Obama Presidency.

This tool is of great interest as it can be used as a valuation tool and for the matters of comparing returns to market performance.

Adjusted market return
$$A_{i,t} = R_{i,t} - R_{m,t}$$

R_{m,t} represents the return on the market portfolio, on period t

Year		Rm,t	Ri,t	A i,t
	2014	0,93%	336,04%	335,11%
	2015	0,01%	45,62%	45,61%
	2016	1,11%	2,94%	1,83%
	2017	1,50%	0,68%	-0,82%
	2018	-0,44%	-6,36%	-5,91%

Year	Rm,t	Ri,t	A i,t
2014	0,93%	49,49%	48,57%
2015	0,01%	62,58%	62,57%
2016	1,11%	19,26%	18,15%
2017	1,50%	20,16%	18,67%
2018	-0,44%	19,37%	19,81%

(Values without outliers)

Figure 3- Excess return (with and without outliers)

Using the adjusted market return in this analysis, distinct conclusions can be developed:

- i. The underpricing theorem prevails in the year of 2014 and 2015, in a big scale, as it can be observed a % rise in the stock market prices in 4 weeks of an average of 50%. Underpricing, as mentioned in the literature review for being a core topic to discuss, is the practice of listing an IPO at a reduced price, less expensive than what its valuation reveals, on the stock market. At the time the stock closes the day at a price bigger than its offer price, the stock is considered to be underpriced, as can be seen in Figure 4.
- ii. In the year of 2016, the event window period, the stocks had positive return comparing with the index S&P500 as presented Figure 5 but on a lower level, rising to the theory that the investors became more cautious as the markets were sensing the uncertainty beginning to rise.

iii. On the years of 2017 and 208, the IPOs performed in a constant level, with better values than the index used as proxy, but also indicating the negative impact the political event had on the stock market returns.

An important note to take is that the negative variation on returns of the S&P500, as U.S. main index demonstrates bad market conditions.

The % change in return is one of the most useful resources on stocks analysis, as we can clearly see the effects of underpricing, the presence of volatility, amongst many other factors causing a stock not to move linearly.

In the figures below are represented the 3 periods of the statistical study: the Pre-event, Event window and Post-Event, and its subsequent performance, as measured in the terms of the percentual change in returns in 4 weeks time.

Before the elections of Donald Trump, and still under the presidential election anomaly effects of Obama mandate, the excess return of the stocks are on average 50% which indicates that the market was experiencing a great moment.

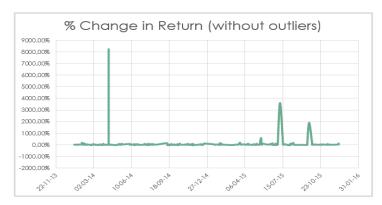


Figure 4- % Return on Pre-Event

Allied to that anomaly, may be the announcement on June of 2015 of Trumps Presidential Campaign. This event might make companies to rush into an IPO, taking advantage of the excess returns given by the market and avoiding a launch on 2016, when the scenery might bring up more uncertainty.

This perception is a result of the observation of the returns given by the IPO stocks, besides the conception that it was a riskier time to invest, due to the fact that volatility is, indeed, very high.

At the Event window moment, which is when the campaign is in course (until November) allied to the moment when Trump won the elections, the stocks move in an unsteady way.

It can be detected a smaller discrepancy in stock prices, as they have a monthly percent price range much different from the ones observed before the event took place. The Abnormal return in this period drops on a big scale, pointing to the uncertainty of the markets.

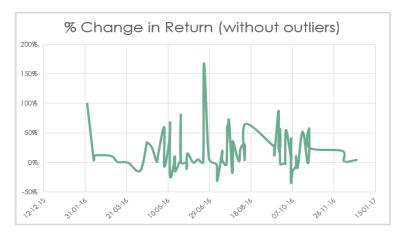


Figure 5- % Return on Event Widow

In the two years following the winning of the elections by President Donald Trump, the monthly return of the IPOs launched is much smaller than the pre-event period, performing in a more steady and stable way.

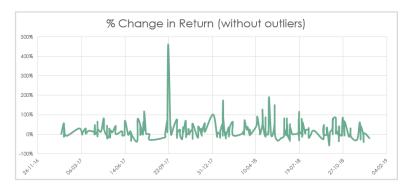


Figure 6- % Return on Post-Event

On Figure 6 it can be observed a smaller price range, as IPOs price dropped and the returns remain on the level of 20%, more or less.

2. Volatility and Level of VIX

This two indicators help to build the analysis present in the Risk assessment, being a component of great importance in many sectors of the finance industry, but especially in the investment sector, should it be analysed thoroughly before reaching any conclusions. This area of knowledge relates volatility and relative risk of potential investments that, in this study, helps to corroborate the conclusions made before as the year of 2014 represented higher standard deviation, resulting in high volatility stocks and therefore, investments at that period will be risky.

The greater the standard deviation of the stocks return, the greater the variance between the real price and the mean of prices, leading to a larger price range. In Figure 6, the year of 2015 demonstrated a tremendous drop in the volatility of the stock market in general and, in the year of 2017, in smaller absolute values, leaving, until 2019, the values stable and relatively calm.

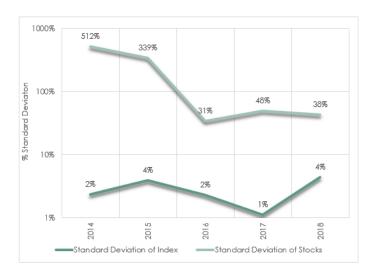


Figure 7- % Standard Deviation of IPO stocks VS S&P500

The VIX, as shown in Figure 1 had two major peaks in its values, in 2015 and 2018, showing the effect the announcement for the presidentials had in 2015, and in 2018 where the cumulative uncertainty raised by the beginning of the president mandate is incorporated.

In Table 2 is clear the % rise in this fear index of 130,25%, a tremendous indicator of how much market sentiment has risen.

3. No of IPOs

Last, but not least, the largest number of IPOs in the time period of analysis is in 2014 and 2018, as observable in Table 1. A possible reason for the values of 2014, as talked about before, may be the fact that investors are trying to take advantage of the presidential election anomaly while, at the same time, avoid the uncertainty to come with the arising elections. About the Post-Event period, it reached a high number of IPOs but also had mainly 19% of them failing, a value that was not seen before, for the given time range.

6. Conclusions

The IPO market is somewhat the driver of economic and social growth. For the company as well as for the country where the company employs its activities, the IPO displays the cycle of transformation of value that occurs daily, between companies, the government and individuals.

Donald Trump, besides the fact that is surround with controversy, is a great influencer of the world as he represents the US government after assuming the place of 45° President of the United States of America. The focus on their actions and politic measures led the market to react, and that reaction is the great centre of attention of my study.

Using two samples of companies, it can be seen the pattern between both of the groups of IPOs (Pre-Trump and Post-Trump), and their discrepancies, concluding that the stock market returns under conservative governments, in the US, are lower than under liberal governments – opposed to what happens in Germany, for example, to be examined in (Pierdzioch, 2006). This conclusion is in line with the enlarged volatility of the conservative governments in contrast to the liberal ones (Santa-Clara & Valkanov, 2003), suggesting that IPO's will perform worst under conservative governments.

In fact, under the presidency of Obama, the return on stocks were bigger, but also its volatility, presuming the markets were experiencing the second half of the presidency anomaly effect. As for the conservative governance of Trump, the volatility was low under the 2 years of analysis - years of 2017 and 2018 - as well as the returns were linear and stable, results coherent with the study mentioned above which states that the

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Performance: The Trump case

performance would be worst under conservative governments than the performance of

liberal ones.

The number of IPOs release was the lowest in 2016, defined as the event window, which

may be explained by the fear felt by companies of the market conditions, and of the

uncertainty to come with the new elections. Investor sentiment tells companies

considering going public that it is possible that their valuations will be cut dramatically,

given the environment, and they react accordingly.

In 2017/2018 occurs an increase in the IPOs but, also, a large percent of them failing and

probably suffering an involuntary delisting – a number of 74 failures in 380 observations,

representing a 19% of IPOs who underperformed and, consequently, failed to capture the

liquidity expected.

Thus, the portfolio of IPOs analysed showed otherwise, experiencing a peak followed by

a dramatic drop in volatility during the year of 2015, and the periods after that remaining

in the level of 40% (both 3 years), all in line with the yielded average initial excess return

of 20%. The investor sentiment, as demonstrated by VIX, established itself the higher in

2015 and mid of 2017 and 2018, declaring the market panic in these moments of

economic and political change.

With this, it may be asserted that Trump indeed had an effect in the stock markets,

breaking economic cycles and increasing the uncertainty associated with investments.

7. Limitations and Suggestions for future work

It would be of great interest to confirm the results with diarized data to see a more detailed

evolution of the returns.

In addition, it would be alluring, also, to perform an analysis of a longer period, to infer

if the long-term performance is coherent with the short-term analysis performed in this

work. The anomaly of the presidential elections could serve as a groundwork and be

analysed, in favour of the specific case of the president Donald Trump if, in the present,

it were 2021. This individual analysis would contribute with an authentication or

disapproval of the anomaly provided by market historian Yale Hirsch.

Presidential Election and the Initial Public Offering
Performance: The Trump case

Sara Luisa Silva

Reuniting the data of the year of 2019 and 2020, to infer if the two last years of its

presidency, would follow the path that the theory of the presidential election anomaly

predicts - subsequent greater performance of the stock market returns on the second half

of the mandate.

Doing an IPO analysis per industry would give suggestions about intrinsic characteristics

of each industry and its fragility to a political or economic matter. As each policy has its

particular return (being it positive or negative), there is always disparity in the reaction of

each sector of activity.

As happened in several research papers mentioned in Tables 4 and 5, in (Wong, W., &

McAleer, M., 2009), given the period chosen to carry out the study, of over 50 years, it

makes perfect sense to adjust the prices of the index of S&P500 to inflation, using the

Consumer Price Index (CPI) adjustment.

In future studies, it would add value to the researching society, the enlargement of the

period of the study and to do as well a Consumer Price Index (CPI) adjustment of the

prices of the financial instruments taken into account, so that the results would be more

realistic and accurate.

This economic indicator relates all the consumer goods and services and calculates a

weighted average of all the predetermined basket of good that an individual consumer

regularly would consume. The values must be taken of the U.S. Bureau of Labor Statistics

(BLS), in the case of U.S. prices, as this institution reports the CPI on a monthly basis,

since 1913.

It was thought of being of unsubstantial importance, in this research paper, the type of

adjustment illustrated, because of the reduced years of analysis.

Finally, to ensure the conclusions took here are only connected to the event, and act as

consequences of it, a statistical model with control variables would be necessary, in order

to isolate the variables that could act as developers of the market movements observed,

as well as the usage of the correct periods of analysis for it to fit in the characterization

of an Event Study.

Appendix

Author	Topic paper	Type of analysis	Main conclusions
Speculative Prices	Speculative	Model and	Popular models used in economics differ across speculative markets and through
and Popular Models	markets	Survey analysis	time, leading to the arising of some common tendencies among the models
(Shiller, 1990)	understanding		presented. The results are shown by observing three different situations: the stock
			market crash, the real estate boom, and IPO underpricing cases.
Cycles in the IPO	Cycles in IPO	Model analysis;	The tests made show that a positive shock leads to an increasing number of firms
Market (Yung et al.,	market	Empirical tests	going public. Additionally, most hot IPOs do not survive, and the ones that
2008)			survive are of lower quality, demonstrating a clear dispersion of quality.
Does the Stock	Market	Empirical tests	In the first hand, the Bayes' rule is violated because in fact most people overreact
Market Overreact?	efficiency		to unexpected new events. This overreaction has a great impact in the stock
(Bondt & Thaler,			market which also gives conclusions about the "advantage" prior losers seem to
1985)			have over prior winners, outperforming them.
A new way to	Performance	Analysis of	The old metrics of measuring competitiveness and performance do not consider
measure IPO	of IPO's	financial data and	the underpricing phenomenon and the long-term vision of success.
performance		prospectus	It is introduced by the authors two metrics: one is the measurement of market
(Binder et al., 2002)		information;	competitiveness, comparing relative company value to industry peers, the other is
		Interviews	the market pricing placing less than 20% of change between offering price and
			30-day post-IPO market capitalization as a well-priced IPO.

Table 3- Literature review for theoretical papers

	Sara Luisa Silva		Pre	the Initial Public Offering Perf	Performance: The Trump cas	
Author Region Period		Period	Methodology Dependent		Independent	Main
				Variable	Variable	Conclusions
Hot and cold IPO	Mauritia	1989-2010	Regression;	Dummy	Short run	The hot issuance
markets: The case			Multivariate	"НОТ";	underpricing; Market	phenomenon is not
of the Stock			logit;	BHAR; Long-	performance prior to the	a key driver in
Exchange				run	issue; Industry	explaining the
of Mauritius				performance	clustering dummy;	short run
(Subadar Agathee					Aftermarket risk	underpricing or
et al., 2012)					level of the IPO; Annual	the long run
					turnover of	performance of
					the firm; Long run	IPOs. This
					performance of IPOs;	conclusion can be
					Cross section	accepted for the
					variance of IPO returns;	specific case of
					Aftermarket risk level of	the Stock
					the IPO; Ex-ante financial	Exchange of
					strength; Stockbrokers	Mauritius.
					reputation; Auditor's	
					reputation; Dummy	

variable for

						(information from
						the prospectus).
Post-IPO	UK	1985-2000	Cross section	Change in	Dummy variable "VC",	The idea that
operating			Regression	operating cash	"UNDERWRITER",	poor-quality IPOs
performance,				flows deflated	"DIR" and "VCREP";	taken public
venture				by total assets	AGE; MARKETCAP;	during the period
capitalists and				from the fiscal	NOVC; VCSTAKE0;	of bubbles
market timing				year preceding	VCFUND; FIRST DAY	(example of 1998-
(Coakley et al.,				the IPO.	RETURN;	2000) lead
2004)					TURNOVER/ASSETS;	companies to a
					EBIT/ASSETS;	sharp fall in
						operating cash
						flow over assets, is
						confirmed in this
						work where the
						significant
						operating declines
						are concentrated
						exactly in this
						period.

Cross-

sectional

regression

analysis

January

November

1953-

1983

US

Economic Forces

Market (Chen et

and the Stock

al., 1986)

	I	<u> </u>				asset-pricing
						theories of Merton
						[1973], Cox et al.
						[1985], or the APT
						[Ross 1976], are
						all in line with the
						results presented
						in the current
						paperwork.
Effects of social	US	1992	Logit models	IPO firm	Founder-CEO presence;	Companies that
capital and power				failure	CEO ownership; VC	have valuable
on surviving					ownership concentration;	internal capital
transformational					Average management team	enhances the
change: the case					tenure; Deal network	management team
of initial					embeddedness;	effectiveness, the
Public offerings						stream of
(Fischer &						information
Pollock , 2004)						among its
						members and has
						as a foundation
						high management

	T	T	I	T	I	
						ownership than the
						cold market IPOs.
						This gives a basis
						for the conclusion
						that "hot market"
						can be redefined
						as periods when
						investors are more
						motivated to
						purchase IPO
						stocks, rather than
						the usual
						definition
IPO Pricing in	Various	January	OLS; Median	Initial return;	Dummy variables for high-	The enormous
the Dot-Com		1996-	regressions;	Price revision	tech, internet firms and	pricing of IPOs in
Bubble		December	Probit		bubble years (1999-2000);	the dot com
(Ljungqvist &		2000	regressions;		Pre-IPO ownership; Insider	bubble is possibly
Wilhelm, 2003)			2SLS		sales at IPO; Firm and	explained by
					Offer characteristics	several factors:
						high visibility,
						changes in the pre-

						IPO ownership
						structure and, also,
						the insider selling
						behavior. It is
						concluded that all
						the facts presented
						above led to the
						observed
						anomalous pricing
						behavior.
IPO Timing	US (SDC	1990-2010	Time series	IPO volume;	Recession Dummy; GDP	The results
Determinants	database)		Regression;	Average	growth; VIX; Valuation	exhibited that
(Blum, 2011)			Cross-	Proceeds;	Confidence; Crash	companies, much
			sectional	Amount of	Confidence; Excess	more in 2010 than
			Regressions	proceeds	Reserves; Interest rate; US	in the past years
					population; Revenues;	(given the recent
					Debt; VC; Assets before	recession), choose
					offering; Net income	to go public only
						due to the lack of
						funding. The
						optimal scenario,

						in order to
						maximize the
						proceeds, should
						be to organize and
						time an IPO
						carefully,
						watching the
						business cycle,
						volatility of the
						market and its
						valuation.
Politics and the	Germany	1960-2002	Popularity	Nominal	"Crash" dummy	It is suggested that
Stock Market:			functions;	returns; Real		stock market
Stock Market: Evidence from			functions; VAR models	returns; Real returns; Excess		stock market returns are higher
Evidence from				returns; Excess		returns are higher
Evidence from Germany				returns; Excess		returns are higher under conservative
Evidence from Germany				returns; Excess		returns are higher under conservative than under liberal
Evidence from Germany				returns; Excess		returns are higher under conservative than under liberal governments,
Evidence from Germany				returns; Excess		returns are higher under conservative than under liberal governments, unlike what

		I		I		
						evidence of
						election cycles in
						the returns of the
						stock market.
The Bright Side	US	1976-2013	Regression	R&D Intensity	Election dummy variable	Through the
of Political						examination of the
Uncertainty: The						impact that an
Case of R&D						exogenous
(Atanassov et al.,						increase in
n.d.)						political
						uncertainty can
						have on R&D
						investment, it is
						concluded that
						firms react to this
						increase by
						increasing the
						level of
						investment in
						R&D.
1	I	1	I	1	I .	

G G 1	D 11 2000	G 4 1	OI G	D (N. 1 . 1 . C	TP1 1 : C.41
Company Stock	Russell 3000	September	OLS	Raw returns,	Market value of equity;	The analysis of the
Price Reactions to	constituents as	30, 2015 to	regression;	CAPM-	Percent revenue growth;	results given by
the 2016 Election	of the day of	September	Cross section	adjusted and	Profitability; Cash ETR;	cross-section of
Shock: Trump,	the election.	30, 2016	of returns	Fama-French-	GAAP ETR; NOL DTA in	stock returns
Taxes and Trade				adjusted	percent of MVE; DTL in	demonstrated
(Wagner et al.,				returns	percent of MVE; Net DTL	expectations of a
2017)					in percent of MVE;	corporate tax cut,
					Percent revenue from	giving extreme
					foreign sources; Percent	concern of US
					profits from foreign	companies that
					activities; Foreign	had employed
					operations in percent of	business in a long
					assets; Percent foreign	time by the usage
					assets; IRFE in percent of	of a significant
					MVE; Leverage; Interest	level of foreign
					expense in percent of	exposure. It can be
					assets; Capital	concluded that the
					expenditures in percent of	Trump election
					assets	and the early days
						of the
						Administration

			<u> </u>	<u> </u>	by other companies in the	factors observed in
					same business sector;	order to determine
					Interest in IPOs by	the perfect timing
					companies in other	to execute an IPO.
					business sectors; Current	
					need for capital to finance	
					further company growth.	
IPO Failure Risk:	US (SDC New	January	BHAR; CAR;	Failure; Non-	mv_ipodt; proceeds;	Analyzing the firm
Determinants and	Issues	1985-	Four Factor	failure	NIdummy;	characteristics, it
Pricing	database)	December	time series		logaccumdeficit; RD_TA;	can be observed a
Consequences		2000	regression;		age_ipodt; CM_rank;	clear association
(Demers, 2005)			Simple		VCdummy; Big8Natl;	between them and
			market-		FirstDayRet; offer_price;	the IPO failure
			adjusted		IPOmkt30days; leverage;	within the 5 years
			abnormal		logSGA; grossmargin;	post-IPO, arising a
			returns model		logrd; logsales;	clear
						differentiation of
						the results
						between non-tech,
						high-tech and
						high-tech and

						internet. The accounting basis on intangible assets was the great differentiator.
Why has IPO	US	1980-2000	Univariate	First day	Tech Dummy, Log Age,	As time passes by,
underpricing			sorts;	return;	Pure Primary Dummy,	the environment
changed over			Regression;		Share Overhang, Log	also changes
time? (Loughran					Market/Sales,	bringing several
& Ritter, 2004)					Prestigious Underwriter	new explanations
					Dummy, Price Revision,	towards the use of
					Lagged 15-day Nasdaq	underpricing in
					Return, Time-Period	IPO's. Three
					Dummies	theories are
						discussed and
						related to the
						ongoing years: the
						changing risk
						composition
						hypothesis, the

Análise do	Brazilian	2004-	Descriptive	Yearly	Companies age; Public;	The result of the analysis of the
Desempenho de	Stock	2005	statistics;	performance	Non-Public	stock price variation every year
Longo Prazo de	Market		Financial	•		after the IPO. This show that
Initial Public	(only		analysis of			81.25% of the IPOs had positive
Offerings no	IBOV		ratios			returns in both the 1st and 2nd years,
Mercado	constitue					and only 50% had positive return in
Acionário	nts)					the third year, which demonstrates
Brasileiro	-					the turning point. IPOs'
(Teixeira, Elisa						performance was significantly
& Barbosa,						better than that of the companies
Francisco &						compared with, already public ones.
Souza, Antônio.						Additionally, the youngest
(2012)						companies performed better, getting
						higher returns.

Table 4- Literature review for empirical papers

Date	Last Price	Opening price	High	Low	Var. %
December-18	2.506,85	2.790,50	2.800,18	2.346,58	-9,18%
November-18	2.760,17	2.717,58	2.815,15	2.631,09	1,79%
October-18	2.711,74	2.926,29	2.939,86	2.603,54	-6,94%
September-18	2.913,98	2.896,96	2.940,91	2.864,12	0,43%
August-18	2.901,52	2.821,17	2.916,50	2.796,34	3,03%
July-18	2.816,29	2.704,95	2.848,03	2.698,95	3,60%
June-18	2.718,37	2.718,70	2.791,47	2.691,99	0,48%
May-18	2.705,27	2.643,64	2.742,24	2.594,62	2,16%
April-18	2.648,05	2.633,45	2.717,49	2.553,80	0,27%
March-18	2.640,87	2.715,22	2.801,90	2.585,89	-2,69%
February-18	2.713,83	2.816,45	2.835,96	2.532,69	-3,89%
January-18	2.823,81	2.683,73	2.872,87	2.682,36	5,62%
December-17	2.673,61	2.645,10	2.694,97	2.605,52	0,98%
November-17	2.647,58	2.583,21	2.657,74	2.557,45	2,81%
October-17	2.575,26		2.582,98	2.520,40	2,22%
September-17	2.519,36		2.519,44	2.446,55	1,93%
August-17	2.471,65	2.477,10	2.490,87	2.417,35	0,05%
July-17	2.470,30	2.431,39	2.484,04	2.407,70	1,93%
June-17	2.423,41	2.415,65	2.453,82	2.405,70	0,48%
May-17	2.411,80	2.388,50	2.418,71	2.352,72	1,16%
April-17	2.384,20	2.362,34	2.398,16	2.328,95	0,91%
March-17	2.362,72	2.380,13	2.400,98	2.322,25	-0,04%
February-17	2.363,64	2.285,59	2.371,54	2.271,65	3,72%
January-17	2.278,87	2.251,57	2.300,99	2.245,13	1,79%
December-16	2.238,83	2.200,17	2,277,53	2.187,44	1,82%
November-16	2.198,81	2.128,68	2.214,10	2.083,79	3,42%
October-16	2.126,15	2.164,33	2.169,60	2.114,72	-1,94%
September-16	2.168,27	2.171,33	2.187,87	2.119,12	-0,12%
August-16	2.170,95		2.193,81	2.117,12	-0,12%
July-16	2.170,53		2.177,09	2.074,02	3,56%
June-16	2.098,86	2.093,94	2.120,55	1.991,68	0,09%
May-16	2.096,96		2.120,33	2.025,91	1,53%
April-16	2.065,30		2.111,05		0,27%
March-16	2.059,74	1.937,09	2.111,03	2.033,80 1.937,09	6,60%
	1.932,23	1.936,94	1.962,96	1.810,10	-0,41%
February-16 January-16	1.940,24	2.038,20	2.038,20	1.812,29	-5,07%
December-15	2.043,94	2.082,93	2.104,27	1.993,26	-1,75%
November-15	2.080,41	2.082,75	2.116,48	2.019,39	0,05%
October-15	2.079,36		2.110,48	1.893,70	8,30%
September-15	1.920,03	1.970,09	2.020,86		-2,64%
•				1.871,91	
August-15	1.972,18			1.867,01	-6,26%
July-15	2.103,84		2.132,82	2.044,02	1,97%
June-15	2.063,11		2.129,87	2.056,32	
May-15	2.107,39		2.134,72	2.067,93	
April-15	2.085,51	2.067,63	2.125,92	2.048,38	0,85%
March-15	2.067,89		2.117,52	2.039,69	
February-15	2.104,50		2.119,59	1.980,90	-
January-15	1.994,99		2.072,36	1.988,12	
December-14	2.058,90		2.093,55	1.972,56	
November-14	2.067,56		2.075,76	2.001,01	2,45%
October-14	2.018,05		2.018,19	1.820,66	
September-14	1.972,29		2.019,26	1.964,04	-1,55%
August-14	2.003,37	1.929,80	2.005,04	1.904,78	3,77%
July-14	1.930,67	1.962,29	1.991,39	1.930,67	-1,51%
June-14	1.960,23		1.968,17	1.915,98	1,91%
May-14	1.923,57		1.924,03	1.859,79	
April-14	1.883,95	1.873,96	1.897,28	1.814,36	
March-14	1.872,34		1.883,97	1.834,44	0,69%
February-14	1.859,45		1.867,92	1.737,92	4,31%
	1.782,59	1.845,86	1.850,84		-3,56%

Table 7 - S&P returns

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