LEADING FACTORS CONTRIBUTING INTERNATIONAL ORGANIZATIONS TO BE AGILE AND BLUE OCEAN STRATEGY; AN EVIDENCE FROM TURKISH CIVIL AVIATION SECTOR

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Abstract: International companies must change and develop very rapidly to find their place in the intense competition environment of today's world. For this reason, it is important to adopt agile approach which is a systematic perspective developed to respond quickly to changes and developments that have occurred in the sector in which an organization operates. The purpose of this study is to determine significant factors that support companies to be “Agile” in harsh conditions and offer strategies regarding “Blue Ocean Strategy” which is among the strategies that ensure the survival of the organizations in the markets where competition is intense. In this regard, the case of Pegasus Airlines has been analyzed using annual report of the company starting from 2013 when the company went public. As a result of the study, although Pegasus Airlines has been proved to be an agile company by confronting the key factors that contribute to agility, it has
been suggested that the company needs to find blue oceans; new markets away from competition in order to increase its sales. This study is expected to contribute to literature well since it will be the first study that measure the agility of a company which operates in civil aviation sector.

**Keywords:** Agility, Blue ocean strategy, Civil Airlines, Competitiveness, Low-cost strategy

**INTRODUCTION**

In today’s rapidly and constantly changing world, companies strive to make profit, sometimes strive even to survive by applying different strategies. The determiners of success have evolved in time; what measured success used to be the more product that was manufactured with the least material in a limited time; however now, it depends on the ability of adapting to the changing environment, thus satisfying the needs of highly demanding customers. This is because, consumers have plenty of alternatives to choose since the boundaries between the nations have disappeared due to globalization. Especially, companies operating in service sector, such as civil aviation need to follow the latest trends, developments, changes in order to meet the expectations of its customers.

The fact that the international side of air transport compared to other sectors is predominant has made it necessary for the air transport sector to act in accordance with international rules. The Chicago Convention of 7 December 1944 is a text that regulates the principles of international civil aviation at the universal level and serves as an international guide to the air traffic rights of commercial air carriers. Thus, international aviation services are carried out through bilateral agreements between states. Globalization, privatization, liberalization and deregulation have forced the air transport sector to enter a new era and as a result, competition in air transport has increased. The increasing competition in the international air transport market makes the world a single global market.

When the highly competitive situation of the current Civil Aviation sector with its global players has been taken into consideration, one can say that the necessity for these players to be agile has increased. Because, with their dynamic employees, passionate bosses, and flexible structures, agile companies have the ability to make quick decisions, take quick action, finish work quickly and react to changes instantly. Institutional agility is evident in many points, from product delivery time, speed of complaint response, flexibility to reorganize according to changes in the market, to quick decision making in the event of a natural disaster. Agile companies live fast, exciting and ready for anything at any time. When you enter an agile company, the positive energy and determination to finish the job is immediately evident (Sekman M, Utku A., 2009:3). However, despite the capability of organizations to be agile, the competition in some markets become so intense that companies start to search for other strategies to gain advantage.

Businesses, who want to provide competitive advantage, often get into intense competition with their competitors in terms of price, quality, speed and cost. In this struggle, all the rivals continue their activities with different losses in an extreme competition environment that almost resembles a red ocean. The term red ocean is used to describe this contentious and extreme competition environment, whereas the term blue ocean strategy which means to go beyond the current competitive conflicts and make the competition meaningless has been used to describe the opposite. Blue oceans refer to industries that have not yet emerged, namely, undiscovered markets due to competition. Rather than fighting with rivals, companies can go for blue oceans where there is a wide opportunity for both profitable and rapid growth.
In this study, it is aimed to discuss what makes companies to be agile in harsh condition and suggest strategies accordingly. The study will be supported with a case study of Pegasus Airlines Co. which is operating in Turkish Civil Aviation sector, thus competing with the market leader; Turkish Airlines. What strategies have Pegasus Airlines improved so far will be the focus of this paper. This study will be an important one in the literature as it is the first one which assess the agility of a company operating in civil aviation. The organization of the paper will be as followed; after the introduction part, brief information concerning the similar studies about agility and blue ocean strategies in the literature will be given. In the third part, the case of Pegasus Airlines will be analyzed with the company’s annual report starting from 2013. Finally, in the conclusion part, suggestions related to “Blue Ocean Strategy” will be presented.

1. LITERATURE REVIEW

Definition of Agility in Literature

Identifying the changes in the internal and external environment of the organization and recognizing the difficulties and opportunities that they will create can be considered agile. The ability of organizations to find and use appropriate ways to respond to these changes in a timely manner is the best way to explain agility (Braunscheidel and Suresh, 2009:136). According to (Iscan, Karabey, 2006) the concept of agility lies at the core of speed and flexibility. But just being fast or flexible doesn't mean being agile. In order to be agile, organizations should also take the aims, benefits and time elements into consideration. In other words, organizations should be able to go not only to go fast, but to go in the right direction, to stop and change direction. For example, today's organizations should use new technology and information systems to keep up with the speed of change and to show flexible responses, integrate business processes, integrate virtual organizational forms, create internal and external cooperation system and perform activities such as integrating the supply chain.

From the late 1980s to the mid-1990s, a great deal of effort was made to understand the broad economic and political developments around the world and the factors affecting new labor laws. In 1991, some scientists have found that organizations are facing problems such as internal and external inconsistency against change. In those years, Yusuf and others (1999) stress the importance of speed, flexibility, quality, profitability for agility. Dove (1999) defines agility as an ability of responding both opportunities and threats in uncertain environments. According to Hormoz (2001), the organizations which have not been able to use the advantages of these opportunities for themselves will fail in the long run due to problems in adapting to change.

Agility is the most important success factor for enterprises in today's competitive and rapidly changing environments (Sharifi and Zang, 1999:11; Sherehiy, Karwowski, Layer, 2007:446). Agility also means agile production (Upton, 1994:72). It is perceived as a response to changes in the business environment and can be used as an opportunity (Sharifi and Zang, 1999:9). Lin, Chiu and Chu (2006) thought that the main driving force behind agility was change, and that this change was mainly represented in customer needs, competitive measures, market, technology and social components.

Sherehiy B. and others (2007) defines agility as having speed, flexibility, responsiveness to innovation and high quality, personalized products, adaptability to change in culture, mobility of basic functions and best practice of resources to provide flexible products and services. According to Kim TY and others (2006), agility and interoperability are fundamental requirements for adapting to rapidly changing environmental conditions. Interoperability is a great communication between business departments and agility is the flexibility to cope with.
On the other hand, according to Menor and others (2001), the most important factors contributing to the agility are the capability of flexibility, quality, cost and speed. Moreover, Asharafi and others (2005) concludes agility to be good at detecting both threats and opportunities in the environment thus responding with suitable strategies. Table 1 demonstrates key factors that contributes companies to be agile in harsh and competitive markets.

Table 1: Key factors contributing to Agility

| Reference                  | Cost | Responsiveness | Flexibility | Quality | Customer needs |
|---------------------------|------|----------------|-------------|---------|----------------|
| Yusuf et al. (1999)       | x    | x              | x           | x       | x              |
| Dove (1999)               | x    | x              | x           | x       | x              |
| Menor et al. (2001)       | x    | x              | x           | x       | x              |
| Asharafi et al. (2005)    | x    |                |             |         |                |
| Kim TY. Et.al (2006)      |      | x              | x           |         |                |
| Sherehiy B. et. al. (2007)| x    |                | x           | x       | x              |
| Lin, Chiu and Chu (2006)  |      |                |             | x       |                |
| Sherehiy et. al. (2007)   | x    | x              |             | x       |                |
| Braunscheidel and Suresh (2009) |      | x              |             |         |                |
| Rigby, D. K. et. al (2016)| x    |                |             | x       |                |
| Lou, A. M., and Rezaeenour, J. (2016) | x    |                |             | x       |                |
| Khan, H. and Wisner, J. D. (2019) | x    |                |             |         |                |
| Uğurlu et. al. (2019)     |      | x              |             |         |                |

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Stratejik ve Sosyal Araştırmalar Dergisi
It can be concluded from the table that each study above points out at least one factor required to be an agile company.

**Agility Approach**

There are many studies about agility applied in different sectors in empirical and theoretical literature. Some of them are given in the following table.

**Table 2: Studies related to agility in history**

| Authors                  | Scope & Sector         | Method       | Result                                                                                                                                 |
|--------------------------|------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Nagel and Bhargava (1994)| US. Industry, Manufacturing | Descriptive Statistics | It is concluded in the study that manufacturing industry in US can be more powerful, if it gets more agile.                              |
| Upton (1994)             | Manufacturing          | Descriptive Statistics | The study claims that the achievement of flexibility which is one of the fundamentals of agility in manufacturing is a critical source of competitive advantage for many manufacturing firms. |
| Sharifi and Zhang (1999) | Manufacturing          | Survey        | It emphasizes agility as an essential ability in the revolutionary turning of the business environment to be able overcome the competition in the industry. |
| Yusuf et al. (1999)      | Manufacturing          | Descriptive Statistics | The study tries to make definition of agility and find out determiners of agility for manufacturing.                                      |
| Dove (1999)              | Knowledge Management   | Descriptive Statistics | The study concludes that becoming agile requires managing and applying knowledge effectively and responsiveness to change.             |
| Menor et al. (2001)      | Retail Banking         | Empirical     | The importance of investment in technology and infrastructure has been stressed for retail banks to be agile.                                  |
| Study                                      | Context               | Methodology                  | Summary                                                                                                                                                                                                 |
|-------------------------------------------|-----------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hormozi (2001)                            | Manufacturing         | Descriptive Statistics      | The study suggests that successful implementation of manufacturing requires to be agile which means change in regulations, information technology and improvement in engineering.                                       |
| Sambamurthy et. al (2003)                 | Information Technology| Descriptive Statistics      | As a result of the study, it is stressed that investment in information technology is essential for companies to be able to cope with change and be agile.                                                     |
| Lin, Chiu and Chu (2006)                  | Supply Chain          | Fuzzy Logic Case Study      | The study tries to demonstrate that to be able to adapt to the changes in the competitive markets, it is necessary to have agile supply chain management. Measuring the agility is a matter to be solved in the study. |
| Sherehiy et. al. (2007)                   | Organizational Agility| Descriptive Statistics      | The study is mainly focused on the definition and dimensions of agility.                                                                                                                                 |
| Brannen and Doz (2012)                    | Strategic Agility     | Descriptive Statistics Case Study | The study tries to suggest solutions for companies to get through their specific language trap and gain strategic agility.                                                                                     |
| Vagnoni and Khoddami (2016)               | Strategic agility     | Empirical                   | The study aims to prove that strategic agility is a key factor for organizations to increase competitive advantage, thus companies need to improve IT competency and strategic foresight.          |
| Rigby, D. K. et. al (2016)                | Organizational Agility| Descriptive Statistics      | The study proposes right conditions for agility in terms of market environment, customer involvement, innovation type etc. Furthermore, it offers ways to have smooth agile transformation.          |
| Lou, A. M. and Rezaeenour, J. (2016)      | Supply Chain Agility  | Case Study                  | The importance of knowledge management on supply chain agility is emphasized in the study.                                                                                                                                 |
Studies which focus on the agility were detailed in the table above. It can be stated that while some of the studies try to define the concept of agility, some try to adapt it to specific sectors such as supply chain, manufacturing, information technology, banking etc. Furthermore, it is possible to deduce that the notion of agility started with manufacturing, thus dates to 90s. On the other hand, any studies about the agility in civil aviation has not been traced in history.

**Blue Ocean Strategy**

Blue Ocean Strategy, developed by Kim and Mauborgne (2004), is based on creating new markets that are not competitive by considering differentiation and low cost. In their famous study, they examined 150 significant strategic tactics in 30 different industries, and they examined 108 new enterprises. As a result of their study, only 14% of these companies were successful in constructing new markets. However, 61% of total profits came from these launches creating new markets and this confirms the significance and effectiveness of blue ocean strategies in increasing profitability. That is why, there are two ways in which companies that want to grow and get ahead in competition can follow. These are: to develop new areas and products and to create leading sectors. From this perspective two different market structures have appeared, these are; red and blue ocean. The differences between these oceans are as shown in Table 3.
Table 3: Differences between Red Ocean and Blue Ocean Strategy

| Red Ocean Strategy                  | Blue Ocean Strategy                      |
|------------------------------------|------------------------------------------|
| Competing in the existing market.  | Creating a non-contentious marketplace.  |
| Competing with the opponent.        | There is no competitor for competition.  |
| Benefiting from existing demand.    | Creating new demands.                    |
| The price and the cost of the product are balanced over time. | Price of the product can be determined over the cost as desired. |
| Consisting of the activities of a company which align the whole system with the strategic choice between differentiation or low cost | While trying to achieve differentiation and low cost, the company aims at harmonizing the whole system |

Source: Kim ve Mauborgne, 2004:5

The market consists of red and blue oceans. Red oceans are known market area and represents all existing industries. Red ocean refers to the kind of industries wherein limits are clear, and competition is fierce (Welch and Edmondson, 2011:256). According to Lindič, Bavdaž and Kovačič (2012) in red oceans, companies follow traditional strategies in looking forward to beating the fierce competition while exploiting the existing customer demands and making classic value–cost trade-offs. Boundaries of industry have been defined and accepted. Blue oceans are an unknown marketplace and are not present today. In red oceans, industrial boundaries are defined, and the competition rules of the game are known. Here, companies are trying to perform better than their competitors to attract more of the existing demands. As the market area of the red oceans gets denser, profits and growth prospects decrease. Since the competition is transformed into angry ocean, the term “red ocean” is used. The untapped market space of blue oceans expresses demand creation and extremely profitable growth opportunities. Blue oceans are irrelevant to competition, because the rules of the game are waiting to be determined. The term “blue ocean” is used to define the potential of a wide, deep and undiscovered wide market area. Companies must create blue oceans to go beyond competition and to assess new profits and growth opportunities (Kim and Mauborgne, 2005: 106). While the product and services of companies floating in the blue ocean cannot be directly compared with others due to lack of competition, those of the companies fighting in the red ocean are compared in terms of price (Yardley, 2015: 355). Creating a submarket in an existing market may also create a blue ocean strategy since a niche market creates an atmosphere protected from fierce competition (Orlow and Chubarkina, 2017:2).

The aim of the Blue Ocean Strategy is to develop a set of guidelines for the creation of new markets (Wengel et al., 2010: 57). Creating blue oceans is a static process, not a dynamic process. When a company becomes competitive and performs superbly, sooner or later imitators begin to appear on the market. A good blue ocean strategy is not easy to stimulate. Making a great innovation effectively prevents imitators from entering the market and saves cost (Chang, 2010: 220). Blue Ocean Strategy is built on seven principles. These are:

- restarting market limits, not focusing on numbers,
- building an application,
- designing quality levels attributed to each activity throughout the chain of value,
- reaching beyond the request,
- overcoming key obstacles
- achieving the right strategic ranking by using a leadership style (Butler, 2008:170).
Table: 4 Studies in Literature that Propose Blue Ocean Strategy

| Authors                  | Scope & Sector                                | Method                | Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chang, S. C. (2010)      | Cellphone market in China                      | Case Study            | As a result of the study, the importance of value innovation in “Blue Ocean Strategy” was stressed. If organizations applying this strategy do not give importance to value creation, what they have innovated can easily be imitated which will result in the failure of strategy and targeted product or service.                                                                                                           |
| Kim C. et. al (2008)     | Logistics                                      | Case Study            | It is concluded that due to expansion of global e-business, there has been intense competition in the market. For this reason, companies need to find blue oceans thus apply the Blue Ocean strategy which provides a guideline for how companies can survive by creating new, uncontested market space.                                                                                                            |
| Dvorak, J. And Razova, I. (2018). | Civil Aviation Industry (Low-cost Airlines) | Survey                | It is concluded that although Blue Ocean Strategy was not used consciously by Ryanair as the foundation of the company dates back to 1990s, with the sub-strategies exemplified, it is suggested that Ryanair is a successful example of the mentioned strategy as it took the first movers’ advantage as low-cost carrier in the market.                                                                                                          |
| Yap, J. and Chua, K. (2018) | Property Industry                             | Mixed method of questionnaire and interview | It is stated that although e-booking system is widely used in property industry, it is limited to searching and registration. For this reason, enhancing the e-booking system can be a blue ocean for the sector.                                                                                                                              |
| Siddique, A. And Shukla, A. (2016) | Sports Industry                               | Descriptive Statistic | The study suggests that cricket games in India has become a blue ocean for the industry as it has aroused the appeal in the...
| Author(s) | Field | Methodology | Summary |
|-----------|-------|-------------|---------|
| Iqbal, Q. And Hassan, S. H. (2018) | Human Resource | Questionnaire & SPSS | Green human resource management is indicated as a blue ocean strategy since it moderates the green human power with the environmental sustainability. GHRM is a blue ocean as it helps companies to reduce operating and business expenses thanks to employees’ green behaviors. |
| Lohtander, M. et. al (2017) | Manufacturing | Case Study | It emphasizes the components of blue ocean strategy can increase the competitive advantage of manufacturing firms. Especially being location independent is identified as a blue ocean since it will increase the speed, mobility and flexibility of manufacturing. |
| Lindič, J. (2012) | Economics | Case & Empirical Study | The study proposes different propositions for the market. The one related to Blue ocean strategy is that creating new market does not bring high growth but to be the first one is the key to growth. |
| Slocum, P. C. and Papa, F. (2014) | Education | Descriptive Statistics | The study seeks to find out blue oceans for health care education. In this scope, the proposed training “osteopathic medical education” is seen as the blue ocean for the health care education by giving mobility advantage to the students. |
| Ahmad, R. (2010). | Aviation | Case Study | Marketing strategies of Air Asia were detailed by showing each as blue ocean for the industry. |
Ahmat, N. C. et. al (2014) | Hotel Industry | Descriptive Statistics | The study emphasizes the need for hotel industry in Asia to transform using blue ocean strategy.

Sundaram, R. M. (2007) | Aviation | Case Study | The study analyses financial performance of Air Deccan and proposes some recommendations which would mean blue ocean for the company.

Gündüz, Ş. (2018) | Entertainment Sector | Case Study | The study tries to prove that even blue oceans can be red again with a lot of imitations. In the case study, although escape room games company “Tuzak” took first mover advantage to exploit the blue ocean, due to imitations the industry became red again. Tuzak could improve new strategies by making innovations in the game structures which enable the company to operate in blue oceans again.

Gündüz, Ş. (2018) | Education | Descriptive Statistics | The study concludes that the most important point to be taken into consideration is that the blue ocean will attract the rivals after a while, where the competition will start and may even turn into red ocean again. But pioneering an undiscovered field, in full marketing terms, means “market skimming” which is an important factor in the profitability and recognition of the organization.

Although in the literature blue ocean strategy has been applied in different sectors from entertainment sector to aviation with different sub-strategies, it is emphasized in all studies that the main competitive approach of enterprises should be to make competition meaningless, not to compete with competitors in the red oceans, to make value-based innovations for customers and to sail into deep waters where competitors cannot easily enter.
2. METHODOLOGY

Related studies in the literature regarding “Agility” and “Blue Ocean Strategy” have been detailed in order to demonstrate key points contributing the agility and to have a deep understanding of the areas blue ocean strategy is used. Furthermore, case of Pegasus Airlines along with its current strategies have been analyzed to prove whether it is an agile company in competitive Turkish Civil Aviation market.

The Case of Pegasus Airlines

World Economy

The slowdown in economic activity since the second half of 2018 continues due to the increasing economic, political and geopolitical uncertainties in the global conjuncture. While the recovery in the US is one of the factors driving global growth upwards, growth and inflation figures that do not reach the target values in the Eurozone put downward pressure on world growth. On the other hand, the slowdown in China as a result of increasing tensions in trade wars constitutes an important obstacle to world growth in the first half of 2019.

The decline in foreign demand is one of the major factors that have brought down the dynamism in the world economy. Especially in China, the growth rate, which was 6.8 percent in the first quarter of 2018, gradually decreased and decreased to 6.4 percent in the first quarter of 2019 and to 6.2 percent in the second quarter. On the other hand, the growth rate of India, which grew by 8.1 percent in the first quarter of 2018 to 5.8 percent in the first quarter of 2019, reveals that the effect of the decrease in global demand originating from Asia continues.

The IMF stated that it expects the slowdown in global economic growth since the second half of 2018 to continue in 2019 as well. According to the IMF’s Global Economic Outlook Report published in April, the world economy is projected to grow by 3.3 percent in 2019, down 0.3 percentage points from the previous year and 0.2 percentage points from the previous January report. In the report published in July 2019 and 2020 forecasts were reduced by 0.1 percentage points to 3.2 percent and 3.5 percent, respectively. Thus, the IMF reduced its growth forecasts for the fourth time in the last six months.

In the OECD's Global Economic Outlook report released on May 21, a downward revision was made in the global growth forecast. The global economy is projected to grow by 3.2% this year, slightly lower than the previous estimate of 3.3%. The report urged governments to resolve commercial disputes. It was noted that the already fragile economy was affected by commercial tensions. It is emphasized that trade and investments have fallen sharply especially in Europe and China, business and consumer confidence has been damaged and the uncertainties in policies have continued. The OECD expects world trade to grow by 2 percent in 2019. This is the lowest level in the last 10 years.

In the April Report of the IMF, the expectations of the increase in global trade in 2019 were down by 0.4 points compared to 2018 and by 0.6 points compared to the previous report and announced as 3.4 percent. On the other hand, in July, it pulled the expectations down again and forecasted the increase in global trade volume to be 2.5 percent. The World Trade Organization has also reduced the growth
forecast for global trade. The world trade volume, which increased by 3 percent in 2018, is expected to grow by 2.6 percent in 2019.

In May 2018, the European Commission lowered its growth forecast for the Eurozone and lowered its growth forecast by warning that trade tensions could make the outlook worse. The European Commission revised the growth forecast of Germany from 1.1 percent to 0.5 percent for 2019. Officials in Brussels warned that downside risks in the region are still significant. On the basis of these negative expectations; The slowdown in the global economy, trade tension and weakness in manufacturing are due to negative performance in the region. However, uncertainties about Brexit, disruptions in the automobile industry and social unrest also increase the fragility in the Eurozone.

There has been an intense election period in Europe. Elections of the European Parliament were held, and new leaders of the European Union were elected. In the European Parliament, there was an increase in the votes of anti-immigrant far-right parties, Liberals and Greens, while there was a decline in the votes of central parties. However, populist parties and the votes of the Greens increased considerably, but pro-EU parties constituted 3/3 of the parliament. The leaders of the European Union (EU) member states agreed to appoint German Defense Minister Ursula von der Leyen as President of the EU Commission, Charles Michel as President of the Council of the EU, Josep Borrell as the EU High Representative and Christine Lagarde as the President of the ECB.

The economy of Turkey faced a remarkable financial turbulence in 2018 which resulted in a loss in the value of TL against USD by 60 percent. Having entered the year at 3.80 TL and having an average of 3.87 TL in the first four months of the year, the dollar exchange rate rose significantly in May and July and reached to 4.89 TL. The real jump in the exchange rate took place in August and the exchange rate reached its historical peak on August 14 with 6.89 TL (as of the end of the day). Due to the volatility of currency in Turkey, all sectors including civil aviation has been affected and the number of bankruptcies has increased as a result.

The US has increased its sanctions against Iran. After the oil export, US President Donald Trump has signed the presidential decree, which imposes additional sanctions on Iran for the iron, steel, copper and aluminum sectors.

Oil prices fluctuated in the second quarter. At the end of April, the US stated that due date 2th May for countries that are exempted from buying Iranian oil, will not be extended. As a result, oil prices climbed to $ 75, a six-month high. However, in the US high oil production will increase expectations, the recession of the global economy and the negative data of the real sector leading data play an important role in the downward balancing of oil prices. OPEC + countries are extending measures to reduce oil production by another 9 months to ensure that oil prices do not fall below $ 60.

In July, the damage to oil production facilities due to the hurricane in the US led oil prices to rise, fearing that supply-side cuts would be experienced. On the other hand, the fall in oil prices with the warning of President Trump's tariff increase to China started to rise again with the oil tankers crisis between Iran and England. As of July 23, the barrel of oil was traded at $ 63.2. (Annual Report 2018, Turkish Civil Aviation)

The oil price shocks created a crisis in the global context, and the effects on Turkey's economy has been profound. As in every emerging country there is a high demand for energy in Turkey industrial development. Therefore, rising oil prices have the potential to create cost inflation. Apart from this, the persistence and magnitude of the shock as well as the reactions of the central bank and the
monetary and fiscal policies government has created, due to these reactions, are of great importance. Turkey as an energy-dependent country, has been seriously affected negatively by the cost inflation that the world economy has been experiencing.

**Civil Aviation in the World**

The rapidly increasing trade volume in the world with globalization has made the transportation sector one of the most important actors of the world economy today. In parallel, the aviation sector is developing at a dizzying pace, playing a major role, even leading international integration between the continents.

Over the past thirty years, it has been observed that there is a dramatic movement in air transport with the influence of increasing social, political and economic relations in the world and it is increasingly more important than alternative transportation systems. According to the inaccurate data published by the International Civil Aviation Organization (ICAO), 4.3 billion scheduled passenger transportation increased by 6.1% compared to 2017. In 2018, the number of scheduled aircraft departures reached 38 million worldwide.

**Figure 1: Number of scheduled flight passengers in the world**

![Graph showing the number of scheduled flight passengers from 1995 to 2025.](source: ICAO 2018 Annual Report)

Asia Pacific, ranked as second with 30% share in international scheduled passenger traffic, became the fastest growing region in 2018 with an increase of 7.3% compared to the previous year. Asia Pacific was followed by Europe, which has the largest international market with a 37% share. In 2018, Europe grew by 6.7% compared to the previous year.
Figure 2: Passenger Traffic Change by Region in 2018

Source: ICAO 2018 Annual Report

World passenger traffic increased by 6.7% with an estimated revenue of 8.2 trillion, according to the revenue passenger km (RPK) figures. According to available seat km (ASK) figures, the total capacity of airlines in the world increased by 6% in 2018. In 2018, the load factor of the aircraft reached a record level of 81.9%.

In 2018, the number of passengers that Low-Cost carriers carried increased by 8.7 percent which reached to approximately 1.3 billion passengers, meaning 31 percent of the world total scheduled passengers. In the same year, the world cargo segment increased by 4.5% in terms of freight ton compared to 2017, and international cargo traffic, which constitutes approximately 87% of total air cargo transportation, grew by 4.6% compared to the previous year.

Turkish Air Transport Market

Turkey has made significant contributions to the development of the civil aviation sector in the world and especially in Europe with its growth in the field of civil aviation in the last 16 years. It is stated in the annual reports of ICAO 2018 that Turkey will continue its growth in this field in the following years. According to annual report of ICAO, Turkey has become 12. In terms of revenue passenger km, 11 in the ranks of revenue ton km, 13. based on freight ton km.

According to the International Airport Council (ACI) 2018 Year-end “Air Traffic Report; Antalya Airport has increased its number of passengers by 21% compared to the previous period in the category of airports that meet more than 25 million passengers annually. In the same category, Istanbul Sabiha Gokcen Airport increased the number of passengers by 8.8% and ranked 4th.

According to the International Airport Council (ACI) 2018 Airport Connection Report, Atatürk Airport ranks 7th among the top 20 airports in the world with an increase of 4.8% compared to the previous year. Furthermore, Istanbul Atatürk Airport, which ranks among the top 20 airports
according to the direct flight connection in Europe, ranks 18th in 2008, growing by 1.2% in 2018 compared to the previous year and ranks 5th in 2018.

With the increase in the number of airline companies operating in the sector following the legal arrangements made since 2003, the rapidly growing aviation sector continues to develop as a result of increasing infrastructure and fleet investments, number of connections and regulations in airline ticket prices. While approximately 65,000 employees were employed in the sector in 2003, this number reached 196,041 in 2017. The turnover of the sector in 2017 has increased by 30 times in TL terms since 2003 and by 11 times in dollar terms despite the increase in exchange rates.

In Turkish Aviation Sector, as of the end of 2018, there were a total of 1,404 aircraft including 515 aircraft, 200 air taxis, 367 general aviation, 260 balloons and 62 agricultural combat aircraft. As of the end of 2018, the total number of pilots was 10,189. The proportion of foreign pilots in the number of aircraft and helicopter pilots is 6%. By the end of 2018, the total number of other licensed technical personnel, including 1,594 air traffic controllers, 397 dispatchers, 4,310 technicians and 569 ATSEP, reached 6,870.

As of the end of 2018, the total number of passengers reached 210 million. The number of domestic passengers increased by 3% and the number of international passengers increased by 16%.

**Figure 3: Passenger Traffic in Turkey**

![Passenger Traffic in Turkey](image)

Source: DHMI 2018

At the end of 2018, the total aircraft traffic was 2 million. Domestic airplane traffic decreased by 2% compared to the previous year and international airplane traffic increased by 10% in Turkey. Moreover, total freight traffic was 3.8 million tons. Domestic freight traffic increased by 3.5% and international flight traffic increased by 12% compared to the previous year.

There are 11 airlines operating passenger and cargo transportation in the civil aviation sector of Turkey. The number of aircraft of the airline companies was 517 in 2017 and 515 in 2018. 486 of
these planes are passengers and 29 are cargo planes. The total seat capacity of Turkish airline fleet is 97,351 and the total cargo capacity of cargo aircraft is 2,194,450 kg.

Table 5: Number of Aircraft by Airline in Turkey

| Number of Aircraft by Airline | 2017 | 2018 | Change % |
|-------------------------------|------|------|----------|
| THY A.O.                      | 304  | 309  | 1.6      |
| Pegasus Hava Taşımacılık A.Ş  | 66   | 81   | 22.7     |
| Güneş Ekspres Havacılık A.Ş.  | 52   | 46   | -11.5    |
| Onur Air Taşımacılık A.Ş.     | 24   | 27   | 12.5     |
| Atlasjet Havacılık A.Ş.       | 24   | 16   | -33.3    |
| Turistik Hava Taşımacılık A.Ş. | 10   | 10   | 0        |
| Hürkuş Hava Yolu Taşımacılık ve Ticaret A.Ş. | 7   | 7   | 0        |
| Tailwind Havayolları A.Ş.     | 5    | 5    | 0        |
| MNG Hava Yolları ve Taşımacılık A.Ş. | 7   | 6   | -14.3    |
| ACT Hava Yolları A.Ş.         | 5    | 5    | 0        |
| ULS Havayolları Kargo Taşımacılık A.Ş. | 3   | 3    | 0        |
| İHY İzmir Hava Yolları A.Ş.    | 7    | -    | -        |
| Borajet Havacılık Taşımacılık Uçak Bakım Onarım Tic. A.Ş. | 3 | - | - |
| **Total**                     | **517** | **515** | **-0.4** |

Source: Annual Report 2018, Turkish Civil Aviation

Table 6: Total Seat Capacity

| Seat Capacity | 2003 | 2017 | 2018 | 2003-2018 Change % |
|---------------|------|------|------|---------------------|
|               | 27.599 | 97.500 | 97.351 | 253 |

Source: Annual Report 2018, Turkish Civil Aviation

In 2003, domestic flights were carried out from 2 centers to 26 destinations and as of the end of 2018, 56 destinations were reached from 7 centers. As of the end of 2018, 318 destinations were reached in 124 countries with 5 airline companies (Annual Report 2018, Turkish Civil Aviation).

**Pegasus Airlines**

Pegasus which operates in Turkish Civil Aviation sector, is a leading low-cost airline carrier. Pegasus entered the aviation sector in 1990 with charter flights. With the acquisition of Esas Holding by Pegasus in early 2005, Pegasus has transformed its business model into a low-cost network carrier, focusing on providing a low-cost, timely launch performance with a young aircraft fleet.

As a result of the successful implementation of the low-cost operating strategy, activities carried out on both domestic and international lines increased rapidly. Pegasus became the fastest growing airline in terms of seat capacity among the 25 largest airlines in Europe in 2011, 2012 and 2013 according
to the Official Airline Guide (OAG) data. As of the end of 2019, Pegasus aims to become the leading low-cost airline in its region with a growing, young and modern fleet of 81 aircraft with an average age of 5.7.

Pegasus focuses on offering short and medium-distance, point-to-point and transit high frequency flights within the scope of its domestic and international flight network, with the main base being located at Istanbul Sabiha Gökçen Airport. As of June 30, 2019, Pegasus offers scheduled flights to 35 destinations in Turkey, 75 destinations to Europe, North Cyprus, the Commonwealth of Independent States, the Middle East and Africa thus serve a route network covering 110 destinations in 42 countries.

The business model of Pegasus is based on generating revenue from a variety of by-products and services related to passenger transport, as well as a direct revenue from passenger transport services with efficient operation and effective cost control. As of 30 June 2019, Pegasus’ unit cost (CASK) was € 2.33, while revenues from by-product services amounted to 29% of total revenue. In the first half of 2019, Pegasus generated 3% of its total revenue from other operations, including low volume charter and split charter services to major tour operators. (Annual Report 2019, Pegasus Airlines)

**The Position of Pegasus in the Sector**

Pegasus has adopted a business model that makes a difference in Turkish aviation sector. Entering the aviation sector in 1990 with charter flights, PGS was taken over by Esas Holding in early 2005. With this change in the shareholder structure, the Company's business model has changed to a low-cost network carrier.

Pegasus continues to strengthen its position in the Turkish aviation sector by demonstrating a growth performance above the market with its low-priced and timely take-off performance focused on high service delivery strategy. While the years between 2012-2017, the average annual total number of passengers increased by 8.2% in the market, the total passenger traffic in the said period, Pegasus could increase its total passenger traffic by % 15.4. This led to an increase in the domestic and international market share of the company. Accordingly, the market share of Pegasus in the domestic line increased from 26% in 2012 to ~ 31% in 2017, while the international market share increased from 8% to 12.4%. While not neglecting the impact of the low base on this increase, Pegasus's development is remarkable in the market where THY has a significant competitive advantage as a flag carrier airline.

With 109 destinations in 42 countries, Pegasus focuses on short and medium distance, point-to-point and transit high-frequency flights, mainly from its base Sabiha Gökçen Airport (SAW). In addition to SAW, the company operates scheduled flights from airports in Adana, Ankara, Antalya and Izmir. In 2018, Pegasus expanded its flight network covering 27 countries and 60 destinations (23 domestic and 37 international). (Annual Report 2018, Pegasus Airlines)
Table:7 Number of Passengers, Pegasus

| Number (mn)       | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------|------|------|------|------|------|------|------|
| Domestic Passengers | 10.9 | 13.4 | 16.8 | 19.7 | 22.3 | 24.1 | 27.8 |
| International Passengers | 5    | 6.6  | 8.3  | 12   | 13.8 | 15.3 | 16.9 |
| Total             | 3.3  | 4.3  | 5.1  | 6.5  | 8.5  | 8.9  | 10.9 |

Source: Annual Report 2018, Pegasus

Young fleet structure – Although at the end of 2012, Pegasus had a fleet of 40 aircraft, it could succeed in increasing the number to 83 as of August 2018, and has become the airline with Turkey's youngest fleet with average age of 5.6 years. 4 of the planes in Pegasus’ fleet are owned by the company and while 38 of them are obtained through financial leasing, 41 of them are obtained through operational leasing. The Company management aims to balance financial and operational leasing in aircraft purchases due to both cost factors and market dynamics (Annual Report 2018, Pegasus Airlines).

Pegasus aims to transform its fleet consisting of Boeing type aircraft to Airbus in the coming period and to complete this transformation by the end of 2024. Accordingly, the company has 78 aircraft orders for the period 2019-2024, and plans to rent 4 Airbus A320 neo aircraft in the following years.

Strategies of Pegasus Airlines

1. Investments

Conversion to a single aircraft fleet increases operational efficiency - Pegasus has a fleet of 83 aircraft, 49 of which are Boeing and 34 of which are Airbus. The fleet, which consists of two types of aircraft, limits the flexibility of replacement due to differences in seat capacities in aircraft failures, as well as the cost of pilot, technician and technical maintenance it creates. Due to these constraints, the company aims to fully transform its fleet into Airbus in the coming period to benefit from a uniform aircraft economy. Although, it is expected that the conversion to a single type fleet will increase operational efficiency, the most important contribution is expected to be made by A321neo type aircraft that is included in the fleet as of 2019. While the A321neo type aircraft provides 15-18% savings in fuel usage, it provides an advantage with its higher seat capacity compared to the other aircraft types in the fleet (A321neo aircraft has 239 seats capacity while A320-200 ceo & neo aircraft 180, B737-800 aircraft) 189 seats) (Annual Report 2018, Pegasus Airlines).

2. Internal Audit Unit

Pegasus internal audit unit was first established in June 2006, and as of September 2010 it was structured as Internal Audit Directorate. The Internal Audit Directorate is currently operating under the supervision of the Audit Committee. Findings related to internal control and internal audit activities carried out in the company are communicated to the Audit Committee by the Internal Audit Director and the opinions and suggestions determined by the Committee are regularly reported to the Board of Directors. In this context, the Audit Committee ensures that all necessary measures are taken to ensure that internal audit activities are carried out adequately and transparently (Annual Report 2018, Pegasus Airlines).
3. Change in Currency Policy

Pegasus can actively manage the uncertainty arising from exchange rate fluctuations. The company converts international ticket revenues that are sold in US $ but can be collected in TL, Euro and GBP basis to US $ daily. At the same time, Pegasus receives US $ with up to 25% of the domestic tickets collected in TL according to the exchange rate position (Annual Report 2018, Pegasus Airlines).

4. Protection strategy (Hedge)

Hedging is the activity of making an opposite transaction (reverse position taking) to minimize or eliminate the investment risk undertaken in finance. This transaction can be done in two different positions, long and short. A long position is a contract purchase and protects the buyer against price increases or interest rate decreases. The short position is a contract selling process and protects the contract seller against price decreases or interest rate.

Pegasus, on the other hand, hedges 60% of the annual balance sheet period in a layered manner to avoid risk. In addition, at the discretion of the Hedge Committee, 20% additional hedging is possible, and the hedging period is 24 months. (Annual Report 2018, Pegasus Airlines)

3C Management Action Plan

Pegasus has been applying an important set of action plans, unit costs (CASK), cash (Cash) and capacity (Capacity) which are called “3C Management Action Plan” since 2016. Among the most effective actions; i) revision of the organization; ii) marketing activities; shifting to digital platforms; iii) switching to TL in many expense items and iv) the strategy of transformation into a single type of fleet. With the support of these applications, there was a significant decrease of 9.3% and 12.5%, respectively in the company's unit price excluding fuel in € 2017. It is anticipated that the measures will continue to support the operational profitability by continuing the measures within the scope of “3C Management Action Plan” in the upcoming period (Annual Report 2018, Pegasus Airlines).

A. CASK

With the strategy of “CASK”, Pegasus aims at keeping the cost called Cost per Available Seat Kilometer at the lowest level, while trying to push “RASK” (Revenue per available seat kilometer) to the highest point. In this regard, Pegasus has taken a set of precautions to lower its costs. Cost reduction activities within the scope of the Management Action Plan were launched in 2016. Turquality Project, Marketing Budget Optimization, Human Resources Employee Number Optimization in Lean Management, Process and Organization Optimization, Optimization of Fuel Consumption are the project that have been carried out so far. Below are the significant precautions taken in this context:

- Price revision of agreements made with suppliers,
- Workforce optimization,
- Marketing activities optimization,
- Simplification of processes,
- Optimization of fuel consumption,
- Configuration of revenue management,
B. CASH

Cash flow consists of changes or decreases in the cash position of the entity over a period. For businesses to maintain their business in a healthy manner, there must be a balance between cash inflows and outflows. Operational cash flow is generally called working capital. It expresses the cash flow generated from the main activities within the company and mainly covers cash generated from service and product sales and cash outflows while supplying them. Regularizing the cash flow is one of the most important points that Pegasus has concentrated, and below are the activities that has carried so far;

- sales of first major engine maintenance aircraft within the scope of fleet rejuvenation,
- achieving cash inflow through the sale and lease back method of the simulator and some 737-800 replacement engines,
- advancement of replacement neo engine cash incentive,
- dynamic pricing of side revenue.

C. CAPACITY

Considering developments in the airline industry in Turkey, it is observed that an increase in business in the sector in terms of both quality and quantity. Therefore, many passengers prefer these businesses. Rapid changes in technology are reflected in the performance of these enterprises and increased customer awareness affected the structure of the markets. Airline companies have been competing each other to increase their capacity thus, to respond more quickly to market demand conditions. Below are the recent actions, by Pegasus to increase its capacity;

- The opening of SAW fast taxi way in the summer season.
- Plane deliveries which have been previously delayed.

1. FINDINGS

After a detailed analysis of history and business operations and strategies of Pegasus Airlines, the question whether it is an agile company in Civil Aviation Market need to be answered. As mentioned in the literature, to be agile, companies need to take actions in order to minimize their operation cost and they have to respond to the changes in the environment, while doing this, they also need to be flexible with their operations without sacrificing quality so as to meet the customer needs.

Especially with “3C Management Action Plan”, Pegasus Airlines improved strategies such as renewing its agreements with the suppliers, optimizing fuel consumption to minimize the operating costs. Furthermore, it responded the changing trends well by opening Saw fast taxi way in the summer reason. Pegasus Airlines is flexible enough by changing its currency policy in charging international flights fares. However, since it started as a low-cost airline carrier, it does not have a business class segment which means the quality comes just after the cost. Before the private companies started to operate in the market, the prices were rather high that only upper segment could prefer air transport. Thanks to Pegasus Airlines and other low-cost carrier in the market the need for low-cost air transportation could be met. Table 8 demonstrates the key factors of agility which have already been proved in literature and discuss if Pegasus has these attributions.
Table 8: Key factors of Agility for Pegasus Airlines

| Factor          |          |
|-----------------|----------|
| Cost            | x        |
| Responsiveness  | x        |
| Flexibility     | x        |
| Quality         |          |
| Customer needs  | x        |

In this scope, when we applied to key factors previously mentioned in “Literature Review” part, we can conclude that except for quality, Pegasus Airlines has all the attributes that prove it to be an agile company.

2. CONCLUSION

Along with globalization, international competition conditions as well as national competition conditions are changing rapidly. Businesses operate in a dynamic, constantly changing, customer-affected competitive environment. At the same time, shortening of product life span, increase of product variety and rapid change of technology influence businesses. Changes in customer expectations force firms to develop new management understandings.

In this study, the aim was to shed light upon the concept of agility with the case study of Pegasus Airlines. As a result, it is concluded that with its ongoing strategies on cost reduction, responsiveness, flexibility and meeting customer needs, Pegasus Airlines has been an agile company which also proved its strengths being the fastest growing airline carrier of Turkey and Europe in terms of seat capacity. However, it is foreseen that Civil Aviation sector will turn into red ocean in the upcoming years, which means that to be able to make more sales, or even to take over the market, the companies should make other campaigns by creating opportunities or by producing more quality products and selling them at a more affordable price. It is implied that firms lose blood in this process and therefore the ocean turns red. When the competition starts to become that much fierce, Pegasus should find ways to increase its sales and its profit.

In this regard, Pegasus needs to find blue oceans which are defined as the unopened market area, demand creation and high profitable growth opportunity. The aim is to make competition meaningless, to break the value-cost exchange. Many of the blue oceans are created from red oceans by expanding the boundaries of existing industries. The blue oceans are irrelevant to competition, because the rules of the game are waiting to be determined.

For an organization like Pegasus which operates in highly competitive aviation sector, blue oceans can be opening new destinations with which the origin country has strong relations in terms of trade, tourism, education. Furthermore, it can be getting into cargo business which means investing in cargo aircrafts after a detailed research into potential destinations where Turkey mostly export to or import from.

As in every study, this study has also some limitations. The most important one is the limitation on the source of the case study. In order to get information about organizational structure and strategies of Pegasus, only the annual reports that the company has published were utilized. For future studies, the method of interview could be applied to benefiting from the knowledge of specialist from different departments. The results can be analyzed with empirical methods.
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