**Master Thesis** 

## ESG CONTROVERSIES' MEDIA SOURCES CONCENTRATION AS A THREAT TO RESPONSIBLE INVESTORS

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#### Abstract:

ESG controversies data has developed into an important complement of ESG evaluations given that it largely originates from the screening of media outlets, and thus is considered as more objective than information disclosed and therefore controlled or influenced by the companies. Ideally, controversies information would help to reduce information asymmetry between the firm and its stakeholders. For this to happen, however, the controversies data would need to be largely free from bias. Using the literature on divergence of interests between investors and firms and on media agenda setting, this research applies a mixed method design to the ESG controversies data of one well-known data provider, Vigeo-Eiris. This research discovers significant selection bias in the media sources underlying the ESG controversies data, both in geographical and language terms. For example, the odds of being covered as part of a controversy are five times higher for companies headquartered in English-language countries than for companies in other language regions. The research discusses the implications of the findings for practitioners and policymakers and opens possible further research into this field.

#### I - Introduction

Sustainable investment is becoming an important trend and most actors of the financial market are developing Environmental, Social and Governance (ESG) strategies. This trend is changing the information needs of the market. Although many companies or rating agencies/information providers are producing or disclosing ESG related information to answer the needs of this sustainable investment turn, little attention has been given to the sources of information and how they influence the success of sustainable investments. This study intends to show how a poor use of information sources can lead to misinforming investors.

Most information used by investors is produced by companies themselves through legal disclosure and financial communication. ESG information is also mostly produced by companies' disclosures and communication, but a growing attention has been given by

responsible investors to controversies implicating companies in media sources. Controversies are supposed to verify whether company's communication on ESG corresponds to the actual reality on the ground. This is possible because media sources are independent from the company and enable to cross information from two different sources (the company and an outside source: media).

For investors, media information is far from their preferred information sources, which is companies themselves. The amount of information to treat and process is already huge and growing, and media information sources are numerous and can seem to be a bit wild from the point of view of investors. The media sources are not all written the same way, the quality of the information sourcing and checking of these media sources is of varying degrees, and it is very difficult for investors to approach, know and use all these media sources.

This difficulty has two concrete consequence. First, investors use a few well-known and reputable media information sources such as Bloomberg, or Reuters, which aggregate companies' disclosures, financial communication and media sources. Often investors pay large subscription fees to get these media information, associated with various other services. The second consequence is that investors buy subscription for database collecting these media information, ordering this information in an easy and fast way to consume. Especially for ESG and controversies information are these information providers, which are often also rating agencies, needed by responsible investors. These last ones, the information providers, are supposed to provide investors the entire diversity of media sources, as they are paid to watch these, know them and select the reliable information. This is the reason why in order to look at the media information source of the financial sector, the best is to look at how information providers use media sources.

This is the reason why this study will focus on studying the database on controversies of one of the largest information providers, recently merged with a rating agency, Vigeo-Moodys. By looking at the media sources used to collect the controversies about companies, this study intends to show that, in a similar way as investor use a few sources of media information, information providers use mainly a very small set of media source. The study will further

show that this concentration of media sources is an under addressed threat for investor, as it drives them to make decisions based upon uncomplete information.

The tendency of investors and more widely of the financial sector to rely on a few information sources, especially when it comes to media pushes towards a centralization of the production of information and therefore to a reduction of the diversity of information consumed by investors. What is more worrying is that this tendency is doubled by the fact that investors and the financial sector spend important amounts of money for information, leading to further concentration of the media landscape. While the media sector is in crisis for the past 20 years, with a problem of revenue, the fact that a few media sources providing information for the financial sector receive large revenue, intensifies the media concentration even more. This has negative consequences not only for investors, but also for the society, as media sources become fewer and don't have the resources to continue doing a serious journalistic work of finding and verifying information. Press freedom has been and still is an important freedom for a working democratic society, but what happens when no media is able to use this freedom, because it has no resources to do so?

#### **II – Literature Review**

So far, the literature about information in finance has not focused much on the issue of concentration of media sources and how it can affect investors. Although information in finance is a central thematic that has been studied and debated since the 1950s, the emergence of non-financial information, known as ESG information is relatively new, and has mostly been studied under the angle of materiality for investors as well as how to format this information for a usage that would be the same as financial information. Controversies, which are largely used in the ESG investment sector nowadays, has not been studies under the angle of media sources. Therefore, the following literature review is an attempt to pull together the different angles of the literature that can bring an understanding of the impact of media sources and their concentration to the responsible investment sector. The

peculiarity of this thematic is that it has been touched by many different literatures in some ways, but not directly yet.

#### II.1 - The CSR/ESG information quality issue

Most of the criticism about ESG based investments has been focused on the poor quality of ESG information or data. This is highlighted by multiple recent asset management company research reports such as the Deutsche Bank "Big data shakes up ESG investing" (2018). ESG information is portrayed as "very difficult to quantify and time" referring to the core issue of companies' social responsibility (CSR) identified by Votaw and Sethi (1973) as "mean(ing) something, but not always the same thing, to everybody".

Indeed, the concept of Corporate Social Responsibility, which is at the center of today's ESG or sustainable investing, dates back from the 1950s. Bowen (1953) and later Heald (1957) describe very vaguely CSR as a firm's "obligation to the society". Later, Davis (1960) described these "obligation" as being "decisions and actions" of businesses "taken for reasons at least partially beyond the firm's direct economic or technical interest". Frederick (1960) added that CSR should aim at "an economic system that fulfils the expectations of the public". The lack of precision of the CSR concept comes from its moral origin, as Acquier, Gond & Igalens (2005) underline. CSR is primarily a moral concept, and pushes what they call "entrepreneurs of moral", incarnated by the very creator of the concept, H.R. Bowen, a businessperson branding himself as "responsible" and propagating the duty to be moral. As this moral is taken from larger moral systems, such as religions, but no one is able to set the standards for good, every business can brand itself as "responsible" in a different way, but still compatible to the core of the business. This is precisely the challenge that stays today at the heart of CSR or ESG.

In other words, the main challenge to the quality of ESG information is the tendency of companies to "greenwash" their image through ESG information disclosures. Indeed, by changing the measurement of ESG KPIs often, the overall data becomes impossible to follow over time and among different companies.

As Fatemi, Glaum & Kaiser (2018) demonstrated, ESG disclosure by companies tend to increase the firm value. Therefore, companies have a strong interest in disclosing more ESG information, which is confirmed by the current ramp-up of firms' spending for reinforcing Financial Communication Directions with ESG specialists. The link between CSR/ESG and advertising/communication is key to understand the fundamental issue of the information quality. As Servaes & Tamayo (2013) highlights, CSR spending and firm (financial) value "are positively related for firms with higher customer awareness, as proxied by advertising expenditures. For firms with low customer awareness, the relation is either negative or insignificant". As Du, Bhattacharya & Sen (2010) explained, CSR communication is key to maximizing its business returns, even more than implementing CSR policies. As a consequence companies are heavily tempted to view CSR/ESG as purely communication tools and not as real hard management KPIs, explaining why the perimeter of the ESG KPIs used by firms can vary over time in a same firm: for communication reasons.

However, markets intrinsically value ESG information, as ESG has become an efficient tool to market active asset management, which is under pressure from passive tracking fund. However, the need for evaluating these firms' disclosures is crucial in order not to lose the benefits of investing into a socially responsible firm. In other words, the investing sector needs quality and reliability of ESG information. Hence, the need for checking and assessing claimed CSP.

#### **II.2** - The need for evaluating/checking the information

The academic debate around the assessment of the performance of companies' corporate responsibility is not new. Carroll (1979) opened the debate proposing a three-dimensional conceptual model of assessment of the corporate social performance. Wood (1991) proposed some of the key concept to evaluate this corporate social performance (CSP) among them, environmental assessment, stakeholder management, or issues management, opened a new field of research. Clarkson (1995) defined CSP as the capacity for a company to manage and satisfy its stakeholders and proposing a new conceptual framework to analyze and

understand CSP. Wood & Jones (1995) showed the limits of CSP measurement as being valid and reliable, partly because of the variety and poor quality of the data.

Later some research focused more on proposing concrete empirical procedures for measuring CSP of firms (Mitnick, 2000; Igalens & Tahri 2012; Aguda Valiente, Ayerbe & Figueras, 2012). Some of their works were used by Rating Agencies such as Vigéo Eiris, MSCI, Oekom, Sustainalytics, to construct their way of measuring CSP in an understandable and fashionable way for investors. These Rating agencies and how the perform CSP have been debated (Igalens, Déjean, El Akremi, 2008; Ben Labri, Lacroux, Luu, 2018, Wood, 2010) and controversial, as they focus on the link between societal performance and financial performance.

As Ben Labri, Lacroux & Luu (2011) explain, the availability of CSR/ESG data is not an issue anymore, as many companies produce some. Now the issue is to read and use this data. It is precisely for this reason that more and more, as Garvey, Kazdin, Nash LaFond & Safa (2016) showed, CSR/ESG data produced by companies actually expose more these companies to potential ESG problems (versus companies not disclosing this data and policies).

Indeed, the only way for investors to read and use efficiently CSR/ESG data in order to rate a company is to compare what the company claims with what they really do. This is why ESG investors give more and more attention to "controversies" in their investing process.

#### II.3 - The importance of controversies to check CSP/ESG data

All the societal rating agencies mentioned above have created controversies databases as part of their rating services for investors. The use of controversies checking in investment is not new but has been systematized by the sustainable investors.

As De Franco (2018) defines it, controversies are for the investing industry, "the measure of specific, well identified weaknesses of a company that can potentially have a significant impact on its business and, by transmission, on its financial performance". Defined by

Aouadi & Marsat (2018), controversies are "news stories (...) that place a firm under the media spotlight". Moreover, "controversies are a measure of CSR concern (...)", that are "(...) not controlled by firms since (they) are disclosed by media outlets (...)". Many researches focused on the impact of media coverage and controversies on asset prices and on investments and corporate decisions (Dyck & Zingales, 2003; Baloria & Heese, 2018; Liu & McConnell, 2013, De Franco, 2018). There is a large consensus over the literature of the negative materiality of controversies (earlier understood as "reputation") on the shareholder's wealth/performance (Weigelt & Camerer, 1988; Fombrun & Shanley, 1990; Klassen & McLaughin, 1996; Fombrun, 1996; Frooman, 1997; Adams, 2002; Oiknomou, Brooks & Pavelin, 2012; Kang & Kim, 2014; Krüger, 2014; Chollet & Sandwidi, 2016). This proves the importance for investors of checking controversies in order to check ESG data, but not only: indeed, any investor should care about the controversies as they have a material impact companies' value. on

Even if some studies (Zyglidopoulos, Georgiadis, Carroll & Siegel, 2012; Hoffman, 2001; Barnett, 2012; Di Giuli & Kostovetsky, 2014; Cho, Lee & Pfeiffer, 2013; Servaes & Tamayo, 2013; Surroca, Tribo & Waddock, 2009) tend to show that controversies are not always systematically and directly linked with firms' value, controversies are now key to any investment process. Indeed, there is no exact science and direct mathematical relationship between firm value and controversies, simply because it all depends on the controversy.

The debate on how information influences markets is key to understand how crucial information sourcing is for ESG investing. As Aouadi & Marsat (2016) advance it the relation between controversies and market values is probably not direct and depends more on firm visibility. Indeed, a controversy will be much more heard by the markets if the company is well known. What has been understudied though, is how much a controversy will be heard by the market if it comes from a small media outlet with low visibility? Moreover, how many controversies do never get out in the news? This is the key question about information access influence on markets.

#### **II.4** - The information access influence on markets and the information gap

Information access impact on investment and financial markets is a long-standing concern and debate (Akerlof, 1970; Fama 1971; Loss, 1983; Merton, 1987; Loss and Seligman, 2001; O'Hara, 2003; Easley and O'Hara, 2004; Lambert, Leuz & Verrecchia, 2006). This debate gave birth to several regulations aiming at increasing companies' disclosures and equalize information access across markets. Disclosure regulations were thought as a way to correct an imperfection of the market (Leftwich, 1980; Watts and Zimmerman, 1986; Beaver, 1998). Attention has mostly been given to the impact of information access on the capital cost, arguing that a better and more equal access to information will decrease the overall cost of capital for companies. This approach defines information as being composed solely on companies' disclosures and reporting, essentially of financial and accounting statements.

The rise and generalization of the use of Environmental, Social and Governance (ESG) criteria to make investment decisions pushed a new debate on ESG related information need for the markets (Ullman, 1985; Waddock, 2004; Daub, 2007; Buniamin, Sharifah Ahmad, & Nazli, 2015; Ho, 2017). This approach again focuses on the need for companies' disclosures and reporting on ESG strategies and performance. A major problem of ESG information on companies for investors is that it is still largely heterogeneous because it is unregulated, unlike financial disclosure and reporting. The quality and the quantity of ESG information are continuously questioned, and its materiality for investors still unclear. Nevertheless, the question of regulation might not be the ultimate solution to ESG information rarity and lack of quality.

Indeed, as McGee & Prusak (1993) stated, in the information economy we are living in, organizations unable to master the information competition will quickly disappear. This information competition pushes organizations to be able to customize information about product and services in order to serve their interest. In this perspective, every piece of information produced can be suspected of serving someone's interests (here companies' interests). The ability of ESG investors to understand this and to select information

accordingly is a key to their success, but this also produces an information gap, as underlined above, there is a need to check the ESG information produced by companies.

However, so far, investors and companies in which they invest prefer information coming from within their business community. As André Orléan (2012) underlined, the formation of the price on financial markets is a self-referential process of shared beliefs. Applied to information selection, on which prices are formed, this concept allows us to better understand how information coming from actors sharing the same believes is preferred over information coming from outside of this business community, as Chambost (2018) showed through the role of financial analysts in the construction of financial value. Nevertheless, this preference of investors for information coming from like-minded people and organizations is not rational as interests inside of this community diverge.

# **II.5** - The divergence of interests between companies and investors at the heart of the information problem

The divergence of interests between investors and firms, underlined by the Agency problem (Jensen & Meckling, 1976; Smith & Warner, 1979) allowed to question the bias of financial and accounting reporting and disclosure requirements, as being potentially twisted in different ways to favor the interest of firms (Verrecchia, 2001; Dye, 2001; Lambert, 2001). Companies tend to restrict free speech as Soley showed (2002) which is another way of questioning the transparency of companies' actions, pointing at the potential dissimulation of information. Disclosure and reporting are the result of regulations, but as Posner (1974) showed, regulators can tend to be captured by those they regulate. Investors are therefore in a precarious situation where they have to rely mostly on biased information to make their investment decision.

So far, investors (institutional investor and asset managers) developed a collection of arrangements with companies in which they invested, as Tadjeddine (2018) describes. However, this collection of arrangements, which are targeted at forming a consensus around their common interests despite the divergence we highlighted, only targets short to medium-

term purely financial objectives. These short to medium term objectives exclude any social, environmental or political utility from the social construction of investment.

Sustainable investment goal is to invest on the long term, which is a very risky move as uncertainty mechanically increases on the long term, and therefore requires an increased amount of information. Also transforming the slightest bias, or lack of information in a potentially dangerous misinformed move that will have serious consequences on the longterm return on investment.

The scale and scope of information required for a long-term investment taking into account ESG factors, is therefore much larger than for a traditional investment relying solely on financial and economic factors. This increases the information risk for investors. So far, this has pushed companies to issue voluntary reporting on ESG factors, and market intermediaries (auditors, credit risk agencies, and analysts) to propose new ESG adapted products. However, the bias of these sources already pointed out by the literature for financial and accountancy information can only increase with the larger scale and scope of ESG information. Moreover, ESG information is not regulated like financial and accountancy informatios. Even if regulation were to be passed, the bias highlighted by Posner (1974) still generates a too important risk for long-term investors to rely solely on information produced almost only by companies.

#### II.6 - The problem of the concentration of information production

The need of long-term investors for independent information is becoming the main challenge to sustainable investment strategies. As Dyck, Moss & Zingales (2013) showed, profitable and then fragmented media in the beginning of the 20<sup>th</sup> century in the US were able to counterbalance specific interest groups such as companies by providing counter information to firm communication. This is the traditionally defined role of journalism as a "fourth estate" or as a watchdog to the different powers and interests. However, the later media concentration notably pushed by the digitalization of media and the abortion of most of the

traditional source of revenues for media, advertising, by a handful of companies (Google, Facebook, etc), is threathening the existence of this mechanism.

Political scientists have highlighted the threat created by the concentration of media ownership (Herman & Chomsky, 1988) and of the information and knowledge production overall (Rifkin, 2000) enabling the manipulation of the public opinion. Although nuances shall be brought to these theories as many media still play the role of watchdogs. The parallel with the investment world where companies massively control information production enabling the manipulation of investor's opinion can be easily made. The introduction of ESG factors in investment strategies implies that the information problem shall no more be taken as a one to one relationship between the investors on one side and the companies on the other, but rather as a multifactorial system. Indeed, understanding the ESG risk of one company implies to take into account how this company interacts with its environment and the human society it acts in.

Herman and Chomsky highlight the issue of the concentration of media ownership; applied to the sustainable investment world, the issue is similar with the concentration of information production. Indeed, the ESG information, as well as the financial information used to decide on investments is produced by the companies' reporting and disclosures or by very few market intermediaries, themselves mostly relying on companies' information. As in the political studies field, this concentration of the production of key information can lead to the manipulation of the opinions of the investors, not in their advantage.

This is the reason why the information sourcing of market intermediaries is important to be researched. Indeed, does their information sourcing from journalist and media is answering the needs of investors for independence and quality of information? This is why it is important to look at the sources in a critical way. The sociological study of journalism sources literature is helpful to understand how to characterize sources.

#### **II.7** - The necessity to study the sociology of sources

The issue of information sources concentration, especially in the case of "controversies", can be better understood through the sociology of journalism. The sociology of journalism literature has not focused heavily on the need for a better understanding of sources as sociological groups, Philip Schlesinger (1992), in his book "Rethinking the sociology of Journalism" in 1990, make the case for a deeper study of sources and finds in earlier work of Herbet Gans (1979) the roots of this research:

"To understand the news fully, researchers must study sources as roles and as representatives of the organized or unorganized groups for whom they act and speak, and thus also as holders of power. Above all, researchers should determine what groups create of become sources, and with what agendas; what interests they pursue in seeking access to the news and in refusing it. Parallel studies should be made of groups that cannot get into the news, and why this is so. And researchers must ask what effect obtaining or failing to obtain access to the news has on the power, the interests, and the subsequent activities of groups who become or are represented by sources."

For Schlesinger, when looking at sources, one shall look at the relationship between the media and the source (often an institution or a company, but also a powerful individual or a group) "which seek to define and manage the flow of information in a contested field of discourse" (p. 62).

The only way to define whose interest it is to disclose information is to search for what Hall & al (1978) define as the "primary definers". It is not only the source, but also the person/institution/organization shaping and defining the "primary interpretation" of an information. Going further, the media does not always "create the news", but follows the interpretation of the news given by the source (or primary definers). However, as Schlesinger tempers, media can also be through investigative journalism, "primary definers" and set the news. However, this depends, as Hall & al notes, "on the existence of organized and articulate sources which generate counter-definitions of the situation". Indeed, not all media are able to check the news sources, contact the sources directly, and contact other groups that are able to produce a different framing of the information. This is crucial in the approach

of information sourcing, more you know your source, more you are able to frame the information, but also to frame what information you potentially miss.

#### II.8 - International, National, Local Media

As Nielsen (2015) explained, local media dominate journalistic production in quantity, but also in quality, as they are "the most important source of independently produced information about local affairs". They are actually key primary definers or sources of information, as they are physically close to the events. They report on a daily basis on matters that no other regional, national or international media would. However, as Lund (2012) noted, local media tend to be more single sources than national media, as their coverage of local news is often relying on local authorities and businesses.

However, as Nielsen puts it (p.3), "business models that local newspapers have been based on are under tremendous pressure today as readership is eroding, advertising declining, and overall revenues plummeting." This is creating a "news desert" in some region, as the local newspapers have disappeared due to economic difficulties mostly created by digital news as Currah (2009) explained. This is crucial as it means that some information will not be reported on what is happening on the ground of these localities.

Therefore, controversies are key to diversify the sources of information. However, concentrated media landscapes trends, fueled by the lack of self-financing ability of media, is also reducing the number of sources.

#### **III** - Research hypothesis and methodology

Investors tend not to take sufficiently into account low signal information especially when produced by independent media sources, and to over valuate information produced by companies (reporting and disclosure) and market intermediaries (such as Vigeo-Moodys notations), as well as certain media (specialized financial and business press). This tendency pushes towards a centralization of the production of information and therefore to a reduction of the diversity of information consumed by investors. This is an unaddressed threat for investors. This research intends to demonstrate this hypothesis through first a quantitative analysis of an information provider database on controversies, and then through a case study of one company in one given country.

First, in order to verify this hypothesis, we will analyze the data set of controversies provided by Vigeo-Moodys, focusing on the sources of the controversies listed. This will show the concentration of media sources used by a major information provider and enable to further analyze how media sources are used.

Secondly, in order to further precise the issues linked to the media usage of financial intermediaries such as Vigeo-Moodys, and more generally in the financial sector, we will analyze the controversies and their sources linked to one company in one country, namely Arcelor-Mittal in Kazakhstan. Focusing on one company in one country will enable to look more precisely at the media sources used and at their content and analyze the national media landscape and understand how information is misused or misrepresented because of the larger bias demonstrated in the first analysis of the entire data set.

This will also enable to compare the Vigeo-Moodys data set on one company and one country with other information providers data on this specific company and country.

#### IV – Research

#### IV.1 - Part 1 - Vigeo-Moodys controversies' data quantitative analysis

#### IV.1.1 - Methodology

Vigeo-Moodys provided their complete set of controversies' data. The goal is to better understand how they source their controversies and what these sources reveal of the information provided to their customers as controversies are shaping investment decisions of investors. The analysis of sources of an information provider has not been done yet, therefore the steps of the methodology is thoroughly described step by step below. This methodology is mostly the outcome of the specificities of the provided database and might be very differently realized with another database from another information provider.

#### IV.1.1.1 - Description of the data set and analysis challenges

Vigeo-Moodys data set collects all the controversies for the companies followed by Vigeo-Moodys. Within the data set, only the "details" sheet provides the sources of the controversies. All the other sheets of data are focused either on the companies, or on counting the controversies per companies such as the "overview" sheet. Unfortunately, there are many incoherencies between the different data sheets (for example, some companies, such as "Crestwood Midstream Partners" are mentioned in the "details" sheet which are not mentioned in the "overview" sheet). This is the reason why the present data analysis will solely focus on the "details" sheet, referred further as "the data".

The data is made out of the list of controversies updates. Updates are used by Vigeo-Moodys to add new information to the same controversy. The data set is composed of first the initial controversy and if needed the update on this same controversy, which can happen years later. The following tab shows an example of the way the data set is built. The first line is the initial controversy (EDF nuclear power plant leaking), and the second is the update on this same controversy about a justice court decision.

Tab 1 – Example of data from Vigeo-Moodys controversy database

### MSc in Corporate & Sustainable Finance - Anatole Douaud – 2018-2019 – Kedge Business School – Master Thesis "ESG controversies' media sources concentration as a threat to responsible investors"

		Controversy	Controversy Controversy			Controversy	
Updates	Title	Country	Updates	Events	Description	Sources	Responsiveness Comment
	Electricite de				In April 2015, environmental groups, campaigning for the closure of the nuclear power plant Fessenheim, filed a complaint against EDF and the manager of the nuclear plant. The complaint seeks alleged violations of the French Environmental Code. "Sortir du nucléaire" and four other associations blame the company for "largely playing down" the water leak which occurred on February 28 in the plant, and of having "lied" to the French Nuclear Safety Authority (ASN). The complaint also	- "Incident à Fessenheim : les anti-nucléaires portent plainte contre EDF" - Le Monde - 20/04/2015 - "Des antinucléaires portent plainte contre EDF sur Fessenheim" - ATS - Agence Télégraphique Suisse - 21/04/2015 - "Fessenheim : les antinucléaires portent plainte contre EDF	The company is non communicative: the company
30/08/2016	France	France	30/08/2016	20/04/2015	highlights that EDF took three days to notify the ASN about this event.	après un incident" - Le Parisien - 20/04/2015	does not appear to be transparent on this case.
					On November 21, 2018, Agence France Presse, a paris based international News agency, reported that the Court of Appeal of Colmar confirmed the conviction of EDF for mismanagement of a water leakage in 2015 at the Fessenheim nuclear power plant, in the Haut Rhin region. EDF is sentenced to a EUR 7,000 fine. The Company is also ordered to pay EUR 2,500 to each of the five anti-nuclear associations that brought the case to court.	d'EDF pour la mauvaise gestion d'un incident à Fessenheim" - Europe 1 - 21/11/2018 - "Fessenheim : la condamnation d'EDF confirmée par la Cour	detailed way on its position to the case The Company states that there were no negative impact on safety or the environment. Local authorities in France and Germany have been informed of this incident the same day it occurred.
	Electricite de					d'appel de Colmar" - Dernieres Nouvelles D'Alsace -	The event does not change our assessment of the
15/03/2019	France	France	15/03/2019	21/11/2018	The event does not change our assessment of the severity of the case.	21/11/2018	Company's reactiveness.

The data set is sorted by companies, and then by dates of occurrence. The order of ranking of the data set places first the companies with the latest update. The entire data set is composed of 21 201 lines, so 21 201 controversies updates.

#### IV.1.1.2 - Treatment and data sampling

Out of the 21 201 lines, almost half of them were analyzed in this study, so 10 000 controversies updates. The automatic analysis of the sources is not possible due to the lack of standardization of the sources data. The source column seems to shall be entered the following way, as per the majority of the data: Title of the article under "" – Name of the source — Date of the publication. Although, as shows the examples below, many sources were not entered this way (around 10% to 20%, the count is approximative). Some just completely forgot to mention the name of the source, some mentioned the source by copy-pasting the hyperlink of the source (not the precise one), and some would mention the sources at the beginning and at the end (sometimes even different ones).

#### Tab 2 – Example of mis-entered data (source)

Sweden	20/10/2014	15/10/2011	Mr. George Mao, General Manager of a company with which Ericsson had an agency agreement, has been accused of bribing Mr. Shen Changfu, a former deputy of Chinal's National Peoplel's Congress (NPC) and former president and board chairman of China Mobile Group Chongqing Co. Ltd, by Chongqing s (China) Intermediate Peoplel's Court. The Esmerk Swedish News reported that Ericsson is accused of paying a 2% commission to Shen Changfu in 1996, when he was head of Chongqing Telecom Bureau.	<ul> <li>"China says Ericsson, Huawei paid bribes; Government procurators say kick-backs went to China Mobile exec" (October 2011)</li> <li>"China: Ericsson and Huawei accused of bribery in Shen Changfu trial" (october 2011)</li> </ul>
Sweden	17/10/2014	15/02/2012	In February 2012, the Romanian Times reported that over 860 employees of Electrolux, in Satu Mare (northern Romania) went on a general strike. The employees were discontent with the management of the plant, which refused to sign a new collective labour contract and reduced the employees' rights, according to the union ls leader. The unionists were asking for a wage increase.	<ul> <li>Electrolux employees on strike over 50 Euros wage hike, 24/01/2012, www.romaniantimes.at</li> <li>Company's feedback on allegation (23/03/2012) "Romania - Strike at Electrolux ends, most claims won" - 24/02/2012 - http://www.wageindicator.org/</li> </ul>
United States of			On April 25, 2019, the press reported that Los Angeles County sued Southern California Edison (a subsidiary of Edison International), alleging that the company's damaged electrical equipment may have sparked the Woolsey fire. The lawsuit filed by the country seeks approximately USD 100 million in damages related to the incident.	<ul> <li>"L.A. County sues Southern California Edison over Woolsey fire</li> <li>-LA Times" - Reuters - 26/04/2019</li> <li>"Edison sued by Los Angeles County over wildfire damage" - Seeking Alpha - 26/04/2019</li> <li>"L.A. County sues Edison over devastating Woolsey fire, citing</li> </ul>
America	30/04/2019	25/04/2019	This new event does not change our opinion on the severity of the case.	\$100 million in losses" - Los Angeles Times - 25/04/2019
5	Sweden United States of	Sweden 17/10/2014 United States of	Sweden 17/10/2014 15/02/2012 United States of	agency agreement, has been accused of bribing Mr. Shen Changfu, a former deputy of Chinals National Peoplels Congress (NPC) and former president and board chairman of China Mobile Group Chongqing Co. Ltd, by Chongqing (China) Intermediate Peoples Court. The Esmerk Swedish News reported that Ericsson is accused of paying a 2% commission to Shen 20/10/2014         Sweden       20/10/2014       15/10/2011       Changfu in 1996, when he was head of Chongqing Telecom Bureau.         In February 2012, the Romanian Times reported that over 860 employees of Electrolux, in Satu Mare (northern Romania) went on a general strike. The employees were discontent with the management of the plant, which refused to sign a new collective labour contract and reduced the employees' rights, according to the union ls leader. The unionists were asking for a wage increase.         On April 25, 2019, the press reported that Los Angeles County sued Southerm California Edison (a subsidiary of Edison International), alleging that the company's damaged electrical equipment may have sparked the Woolsey fire. The lawsuit filed by the country seeks approximately USD 100 million in damages related to the incident.

On top of this, many similar sources would be written in various different ways, making it impossible to treat the data automatically. For example, the Los Angeles Times would be written sometimes as such, sometime LAT, or even LA Times. Many typing mistakes were also noted during the analysis of the data.

This is the reason why the data as had to be treated and analyzed manually, which is the reason why a sampling of roughly 50% of the entire data set was operated. Thanks to the large amount of data included in the data set, we believe that basing the analysis on 10 000 entries is representative of the entire data set and will not change radically the final conclusion of this analysis.

#### **IV.1.1.3 - Description of the sample**

The sample on which the following analysis will be based is composed of the first 10 000 lines of controversies updates from the "details" sheet of the Vigeo-Moodys controversies database.

Why the first 10 000 lines? As per the construction of the "details" sheet, explained above, the data is ranked by the most recent controversy update, and by company. This means that selecting the 10 000 first lines, selects the companies with the most current controversies, but also the companies with the most controversies (more controversies will produce more

controversy updates). Therefore, this does not only select the most recent controversies, but the companies with the most controversies. This is illustrated by the timeframe of the sample, with the oldest controversy dating back from October 2000 and the most recent from June 2019.

Selecting the most controversy-productive companies over the past 19 years to conduct this study enables to focus on a more diverse set of sources, as these controversies are much diverse and complex in nature.

The sample is composed of 538 companies, out of 3 013 companies in the entire data set. For the sample each company has in average 18,5 controversy updates, whereas for the rest of the data set (the other 50%) it is an average of 4,5 controversy updates per company.

The countries of origins of the companies are covered at 78% by the data sample. Indeed 42 countries of origin of the companies are covered in the sample, while 54 countries are represented in the entire dataset. It shall be noted here that the country of origin of the companies is not very representative of the countries of operation of the companies, as the country of origin is where the headquarters are located. This is important because controversies are often not limited to the country of origin of the companies, but rather to the countries of operation.

	Number of	Number of companies	Average controversy	Countries of origin of
	controversy updates		updates / company	the companies
Dataset	21 201	3 013	4,52	54
Sample	10 000	538	18,58	42

*Tab 3 – Comparative data on the database and the sample* 

#### IV.1.1.4 - Extraction of the sources from the sample

As mentioned above, the goal of the sampling was to make possible to treatment of the sources of each line of controversy update. This has been done manually, source by source, in order to verify each source and make sure that they are correctly counted in.

For each controversy update, we extracted the names of the sources mentioned and reported them on a separated sheet. And then counted their frequency of the data sample.

#### IV.1.1.5 - Suppression of non-media sources and non-verifiable sources and regroupees

As Vigeo-Moodys database uses various sources for its controversies, including direct question/answers with the company, NGO reports, Company reports, Administrative or Court reports, which are often used all together and reported together (without a priority or a hierarchy), we decided to focus only on media sources. The following analysis is therefore only based on the media sources of the dataset. NGOs with their main purpose being information were kept as media. Further, when mentioned "sources" it means "media sources".

The imprecision of the names of media sources in the data, and the impossibility to verify the existence of this media led to the suppression of the media source from the count. For example, the source "Daily News" was mentioned as such 45 times throughout the data sample. There are about a dozen of media all across English speaking countries named 'Daily News" (from Zimbabwe, to New York).

Many media were named differently although they are part of the same organization. For example, the media "Business Journal" has numerous sub-edition for almost each town in the USA, but they are part of the same media organization, hosted on the same website. The same goes for USA Today and its sub-editions in US towns. The frequency of these media were collected under the main media name.

This process of checking the double sources and NGO or governmental sources, was done two times, first when extracting data from the Vigeo-Moodys files and then after having checked the sources. This second process led to a suppression of 27% of the unique sources first extracted. Although many were NGO or governmental sources mistakenly taken for media during the extraction of data, the largest part were unverifiable source's names and multiple names for the same media. This shows the poor entry system of sources in the Vigeo-Moodys database. Also, it is strange that they did not enter the full hyperlink of their sources and preferred to only write the names of the sources, which is much less precise.

#### IV.1.1.6 - Checking the sources and adding some information on the media

As mentioned above, after the extraction of source's names and frequency directly from the Vigeo-Moodys database, each single source name was checked through Google research. The goal of this research phase was first to check the existence of the source and be able to give a source link directly to the website of the named source, or at least a link proving its existence.

The goal was also to add some information on each source, to add a layer of precision to better understand the profile of the sources used by Vigeo-Moodys to track controversies.

This first Information researched is the country where the media is headquartered. In a universe of companies largely internationally headquartered and with operation in even more countries, this will give an understanding on where the information used by Vigeo-Moodys is produced.

To research this information, the website of the media is the resource, with the 'about us' page or the 'contact' page where the location information was most of the time written. For some media sources, official LinkedIn pages were used as well to determine the headquarter country.

The second information researched is the language of the media source. This research was done in two times. Indeed, as many media are available in two or more languages, determining the language of the media can be a challenge. The goal here is to determine which language of these media was used in the database. In order to do that, all the languages encountered during the phase of extraction of the data from Vigeo-Moodys database, were noted. This was possible thanks to having the titles of the articles used in the original

language. Only seven languages were encountered during the phase of extraction of the data. The second step was during the media source by source check and research to verify in which language(s) the media was available and enter for each of them the language. If more than one language was available, the language encountered during the extraction phase was preferred and reported on the data sheet. This enabled to first double check if some languages were missed and well reported, and secondly to precise the frequency of languages of the media sources throughout the database.

For example, the Chinese news agency Xinhua is available in Chinese language, but also in English. As no title of article in Chinese was encountered in the extraction phase, the Xinhua was attributed the English language on the data.

The third information researched is the type of media. This is the most delicate phase, as media landscapes are very different from one country to the other and many media have a unique editorial line, focus, and format. This is why only five very large types of media will be differentiated: generalist media, news agency, business media, specialized media, local media.

Generalist media are media covering all kinds of topics, they are targeting a large public audience, most of the time at the national level. Some typical examples of this type of media are The New York Times, Le Monde, El Pais.

News agencies are also covering all kinds of topics, but they target a smaller audience, which are other media, which are paying to use their content usually. News agencies are primary sources of information most of the time at the national but also for a few of them at the international level, as they check each information before publishing them. Some typical examples of this type of media are Reuters, the AFP, AP or TASS.

Business media are covering business topics and they target people interested in these businesses. This can be business in general, or one sector or sub-sector. This category of media is relevant here as Vigeo-Moodys is tracking controversies touching businesses. Some typical examples of this type of media are The Financial Times, Les Echos, or Mining.com, or FiercePharma.

Specialized media are covering very specific topics targeting one specific audience. Business media are specialized media, but as explained above, it seems important to differentiate them clearly because of the nature of the information in the Vigeo-Moodys database. Some typical examples of this type of media are The Scientific American with a focus on sciences for a large audience, or Devdiscourse with a focus on the non-for-profit development sector for professional of this field, or ELLE with a focus on woman.

Local media are covering all kinds of topics such as generalist media, but focus on a very specific local geography, and target the population living in this geography. It seems important here to differentiate local media from the others as the bring a different type of information, more local, following more closely topics that national or international media would not follow. Some typical examples of this type of media are The Chicago Tribune, or Le Parisien.

These five categories enable to classify all types of media and allow to better understand the landscape of media sources used within the database.

The final information added, is whether the media source is free or paid. As many media have a freemium, it was decided to use a very restrictive criteria to classify the media as a paid resource. Only media sources fully unavailable for free users are classified as "paid media". This information enables to better understand what Vigeo-Moodys is paying for.

#### IV.1.1.7 - Comments on the use of sources in the Vigeo-Moodys database

Before going through the analysis of the collected data, the extraction and the manipulation of the sources used by the Vigeo-Moodys database enable to draw a few comments on how they use sources.

The following example of a controversy update detail about the company Apple is interesting from the point of view of the sources used.

Tab 4 – An example of a control	oversy uses of sources, Apple
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			In January 2013, Apple reported discovering, through an in	ternal audit, multiple
			cases of child labour in its supply chain, including one Chin	ese company that "Children working at Apple's suppliers" - Kazinform - 27/1/2013
	United States of		employed 74 children under 16 at Guangdong Real Faith F	ingzhou Electronics - "Child labour uncovered in Apple's supply chain" - The Guardian -
Apple	America	01/07/2015	5/01/2013 factory in China.	25/1/2013

This controversy update is about child labor in China in Apple subcontractors. Two sources are quoted, one from the British generalist newspaper The Guardian, and another from the Kazakhstan news agency, Kazinform. Both sources are dated back to 2013. Only the Guardian source has been possible to retrieve<sup>1</sup>. The Kazinform source is no more online. But it is very surprising to use a source from a country that is not connected to the controversy at all (Kazakhstan), and that will anyway take back the same information as the other source (The Guardian).

In fact, the media sources in the database, which are always multiples, seems not to be collected in order to find the most accurate, or the primary source, or the most detailed one. It seems more to be a collection of sources found through the web, sometimes randomly, like this example shows. Even if it could be argued that putting as many sources as possible shows the importance of the controversy in the public debate by showing that many different media are talking about it, it seems difficult to argue that because the Kazakh news agency writing about it. that it makes the controversy more important. is Actually, the fact that it is difficult to explain such a situation, which is reproduced all over the database, can be correlated with the lack of uniformity of the database, and the amplitude of non-verifiable source (almost 27%) as described above, to conclude that not much attention has been given to the sources by Vigeo-Moodys.

In average there is 2 media sources per controversy update in the database. Some controversy updates have zero media sources, as it can be NGO, Governmental, company

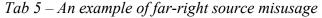
<sup>&</sup>lt;sup>1</sup> The Guardian, « Child Labor Uncovered in Apple's supply chain" 25/01/2013, consulted on November 5 2019,

https://www.theguardian.com/technology/2013/jan/25/apple-child-labour-supply

communications, and some can have up to 20 media sources. The typical controversy update with media sources is therefore composed of much more than 2 media sources.

As mentioned above, this can be understood as the will to show the extent of the controversy in media, beyond just trying to find a reliable source for the information leading to the controversy. Although, looking at the sources and how they match with the controversy they are supposed to be the source of, this is not verified. Moreover, the sources are sometimes themselves pretty controversial. Indeed, among the sources in the database, some far-right media are quoted, such as Breitbart, or even some media conveying conspiracy theories such as "Infowars".

The following controversy update from the database shows a Breitbart source that does not bring anything else, but clearly aggressive stance towards migrants.



				On April 15, 2015, Channel4 has diffused a documentary in which it shows how migrants employed by two Spanish suppliers of a number of British retailers including Tesco, Marks and Spencer, and Asda (a subsidiary of Walmart) are mistreated, cheated out of wages and exposed to pesticides and overtime. The British politicians demanded an urgent investigation confirming that the evidence was appalling and appeared to show effectively slave labour producing food <sup>1</sup> . The Ethical Trading Initiative (an alliance of companies, trade unions and NGOs that promotes respect for workers' rights) reported in April 15th, 2015 to be following up with supermarket companies to understand how the actions they take will deliver positive change for these migrant workers in Spain.	
				The Daily Mail has published a story on April 14th, 2015 alleging the same human and labour rights' violations.	What's the real cost of your fresh salad?'-Channel4-15/04/2015 'How migrant farmworkers picking vegetables for major stores are treated like 'slaves' and live in filthy conditions'- mailonline-15/04/2015 'Have you washed your hands? Hopefully migrant workers who
				Investigation by Channel 4 News was based on direct contact and interviews with employees picking vegetables for the Spanish suppliers which use an employment	pick our veggles will answer Yes'-Breitbart-15/04/2015 'ETI responds to story on salad pickers in Spain' - Ethical Trading
				agency called Integra Empleo to provide casual staff to pick the products in its fields.	Initiative - 15/04/2015
				According to some workers revelations, the firm forces them to work on weekends paying	You will never want to buy a bag of supermarket salad again: How
				them less. Moreover, workers are exposed to pesticides and workplace lacks basic health	migrant farmworkers picking vegetables for major stores are treated
Tesco	United Kingdom	14/02/2016	15/04/2015	and safety standards.	like 'slaves' and live in filthy conditions - Daily Mail - 14/04/2015

The title of the Breitbart article is in bold characters on the far-right box. The controversy update is about the British retailer Tesco in the UK. The controversy update (in the middle box) starts quoting Channel 4 as the source of the controversy, it is also indicated in the source box on the right. The controversy is about how Tesco suppliers are mistreated by some of its suppliers. The title of Breitbart article about this controversy clearly indicates the tone of the article: "Have you washed your hands? Hopefully migrant workers who pick our veggies will answer Yes"<sup>2</sup>. What does this source bring to the controversy? From an

<sup>&</sup>lt;sup>2</sup> Breitbart, « Have you washed your hands? Hopefully migrant workers who picj our veggies will answer Yes", 15/04/2015, opened on November 5, 2019,

American based far-right media about a UK controversy, this is unclear. This shows, at best, that the sourcing policy of Vigeo-Moodys database is loose, ending up in a collection of sources brought from a quick google search. If this is not the case, then it is worrying to include such sources. Breitbart is used as a source 4 times, Infowars 5 times, Natural News 3 times, and Sputnik 59 times. Is this only because they are well referenced on Google? We will prefer to believe it.

Beyond the controversial usage of these sources, this tells how the database has been sourced, with probably little attention, and a will to diversify the number and the types of sources. Compared to other database, which include only the primary source or the most reliable source possible, Vigeo-Moodys took the path of diversity and quantity of sources. This actually makes it more interesting to analyzes, as it means that the results of the quantitative analysis on the sources will be much more diluted, and the largest trends are insured to be the same for the other data providers.

#### IV.1.1.8 - Analysis methods

Based on the data extracted and complemented with the researched information as explained above, some quantitative analysis was conducted with the goal to highlight the characteristics of the sources for each of the aspects researched : Country of headquarter of the media source, language of the media source used, type of media source, and if the media needs to be paid to get access to.

The data about the country where the media sources are headquartered can be broken in two sets of data. First the frequency of appearance of the country where the media sources are headquartered, and the number of unique sources per country. Crossed, these two data also give an idea about the concentration of sources per country. First the frequency will give an idea about the importance of each country as a place for information production. This information can be compared with the data on the country of

https://www.breitbart.com/europe/2015/04/15/have-you-washed-your-handshopefully-migrant-workers-who-pick-our-veggies-will-answer-yes/

headquarters of the companies' subject to the controversy updates. Even if controversies do not always happen in the country where the company is headquartered, media will cover topics concerning companies that are from their countries.

In order to add a layer of understanding to this data on countries, the data set will be divided between OECD countries and non-OECD countries. The OECD is composed of 38 of the most developed economies. Dividing the data set between OECD and non-OECD countries will therefore enable to analyze how media sources from developed economies are used versus media sources from less developed economies.

The data about the type of media (Business, local, specialized, generalist or news agency) can also be broken in two sets of data. First the frequency of appearance of each type of media sources, and the number of unique sources per type. Crossed, these two data also give an idea about the concentration of sources per media category.

First the frequency will give an idea about the importance of each type of media for the production of controversies. Then this information can be broken country per country and give a more precise idea of how and where information is produced and where controversies are more likely to be found in media sources.

The data about language will also be looked through the frequency of appearance of each identified language in the data set. In details, the language data will also be looked country per country, in order to better understand how media sources from certain countries are selected.

Finally, the data about paid media use will be analyzed to understand what kind of media Vigeo-Moodys is paying for. The data is much smaller in amount than the others, which will enable to look more in detail at each source, crossing the paid data with the other data described above.

#### IV.1.2 - Results and analysis

This section intends to present the results, to analyze and comment them. The results will be presented by the following data category one by one first: Country of headquarter of the media source, language of the media source used, type of media source, and if the media needs to be paid to get access to.

Then these data will be crossed to add a layer of understanding and produce more analysis and hypothesis that will be tested in the case study.

#### IV.1.2.1 - Country of headquarter of the media source

The countries where the media sources used in the Vigeo-Moodys database are headquartered has first been analyzed through the frequency of the sources in the dataset. Countries are presented by their percentage of media sources appearances on the total media source appearances in the data set in the Tab 6 below.

Tab 6 – Media sources frequency per country of headquarters (1)

Countries of sources	Frequency	Percentage
Algeria	19	0,094%
Argentina	9	0,045%
Armenia	3	0,015%
Australia	578	2,869%
Austria	1	0,005%
Azerbaijan	2	0,010%
Bahrain	1	0,005%
Bangladesh	10	0,050%
Belgium	109	0,541%
Botswana	2	0,010%
Brazil	59	0,293%
Brunei	1	0,005%
Bulgaria	42	0,208%
Cambodia	42	0,208%
Cameroon	2	0,050%
Canada	703	3,490%
Canada	16	
China	96	0,079%
Colombia	90	
		0,045%
Croatia	1	0,005%
Cyprus	2	0,010%
Czech	3	0,015%
Danemark	16	0,079%
Dominican Republic	1	0,005%
Egypt	3	0,015%
Estonia	3	0,015%
Ethiopia	1	0,005%
France	1381	6,856%
Gabon	6	0,030%
Germany	92	0,457%
Ghana	12	0,060%
Greece	8	0,040%
Guatemala	4	0,020%
Guyana	1	0,005%
Hong Kong	43	0,213%
Hungary	7	0,035%
Iceland	1	0,005%
India	591	2,934%
Indonesia	31	0,154%
Iran	12	0,060%
Iraq	7	0,035%
Ireland	80	0,397%
Israël	78	0,387%
Italia	106	0,526%
Japan	152	0,755%
Jordan	12	0,060%
Kazakhstan	19	0,094%
Kenya	15	0,074%
Korea	479	2,378%
Kuwait	1	0,005%
Liberia	2	0,010%
Luxembourg	20	0,099%
Lybia	3	0,015%

Tab 7 - Media sources frequency per country of headquarters (2)

Malawi	2	0,010%
Malaysia	34	0,169%
Mali	2	0,010%
Marocco	53	0.263%
Mexico	13	0,065%
Monaco	2	0.010%
Myanmar	2	0,010%
Netherland	101	0,501%
New Zealand		
	60 42	0,298%
Nigeria		0,208%
Norway	24	0,119%
Oman	1	0,005%
Pakistan	19	0,094%
Panama	1	0,005%
Papua New Guinea	2	0,010%
Peru	8	0,040%
Philippines	13	0,065%
Poland	2	0,010%
Portugal	1	0,005%
Qatar	22	0,109%
Romania	25	0,124%
Russia	148	0,735%
Saudi Arabia	7	0,035%
Senegal	3	0,015%
Serbia	1	0,005%
Singapore	147	0,730%
Slovakia	6	0,030%
Slovenia	3	0,015%
South Africa	137	0,680%
Spain	94	0,467%
Sri Lanka	2	0,010%
Sweden	38	0,189%
Switzerland	164	0,814%
Taiwan	21	0,104%
Tajikistan	1	0,005%
Tanzania	2	0,010%
Thailand	7	0.035%
Togo	1	0,005%
Trinidad & Tobago	3	0,015%
Tunisia	9	0,045%
Turkey	19	0,094%
UAE	8	0,040%
Uganda	5	0,025%
UK	5548	27,542%
Ukraine	2	0.010%
Uruguay	4	0,020%
USA	8429	41,844%
Venezuela	14	0,069%
Vietnam	17	0,084%
Zambia	2	0.010%
Zimbabwe	8	0,010%
Zinioduwe	0	0,040%
Total		100.000%
i vidi		
Total Countries	20144	100,000%

The media sources of the data set are headquartered in 104 different countries, the countries above 1% of the frequencies are highlighted in yellow. These 7 countries are presented in detail in the Tab 8 below.

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Tab 8 – Countries of headquarters of media sources concentrating more than 1% of the

Countries representing more than 1%	Frequency	Percentage of total sources
USA	8429	41,844%
UK	5548	27,542%
France	1381	6,856%
Canada	703	3,490%
India	591	2,934%
Australia	578	2,869%
Korea	479	2,378%
Other (less than 1%)	2435	12,088%
Total frequency countries more than 1%	17709	88%
Total countries countries more than 1%	7	6,7%

appearances in the data set

These 7 countries actually concentrate together more than 88% of the entire media sources frequency throughout the data set. 6,7% of the countries concentrate more than 88% of the media sources.

This shows that information sources back to only a few countries. The concentration of media sources in these 7 countries show the dependency for news on a very restricted geography. Naturally, the geographic concentration of the media sources shall be compared to the geographic concentration of the companies about which these media sources are.

#### IV.1.2.2 - Geographic concentration of companies and media sources

The data about the countries of headquarters of the media sources can be compared to the data on the country of headquarters of the company about which the controversies update of the data set are. The data set contains controversies updates about 538 different companies. These 538 companies are headquartered in 42 different countries. The data about the companies and their countries of headquarter also contains the frequency of companies per country. This data is presented in the tab 9 below.

Tab 9 – Countries of companies' headquarters and their frequency

Countries of companies in the data set	Number of company occurrences/country	Percentage of company occurrences/country
Netherlands	5	0,93%
Canada	17	3,16%
United States of America	195	36,25%
Belgium	4	0,74%
Austria	4	0,74%
France	34	6,32%
Australia	20	3,72%
Italy	12	2,23%
India	18	3,35%
Israel	6	1,12%
Spain	5	0,93%
Luxembourg	3	0,56%
China	8	1,49%
Russia	5	0,93%
Brazil	10	1,86%
Germany	22	4,09%
Japan	27	5,02%
United Kingdom	39	7.25%
Chile	1	0.19%
Switzerland	9	1,67%
Finland	2	0.37%
South Korea	28	5,20%
Denmark	4	0,74%
South Africa	10	1,86%
Hong Kong	6	1,12%
Malaysia	3	0,56%
Ireland	2	0.37%
Sweden	10	1,86%
Norway	5	0,93%
Thailand	1	0,19%
Morocco	2	0,37%
Taiwan	4	0,74%
Singapore	5	0,93%
Turkey	1	0,19%
Greece	1	0,19%
Portugal	1	0,19%
Peru	1	0,19%
Colombia	1	0,19%
Mexico	4	0,74%
Czech Republic	1	0,19%
Ivory Coast	1	0,19%
United Arab Emirates	1	0,19%
Total	538	100,00%

The data in tab 9 above is compared with the data in the tab 6 and 7 above in tab 10 below. As there are fewer countries in the countries of companies' headquarters data, only the matching data from the media sources headquarters data has been kept in the following tab.

Tab 10 – Comparison	of frequencies	of companies'	appearances	per	country	of
headquarters with frequen	ncies of media som	urces' appearanc	ces per country	, of he	eadquarte	ers

Countries of companies in the data set	Number of company occurrences/ country	Percentage of company occurrences/co untry	Countries of sources	Frequency of source occurrences /country	Percentage of source occurrence s/country	
United States of	105	00.000	United States of	0.400		
America	195	36,25%	America	8429		
United Kingdom	39	7,25%	United Kingdom	5548	27,542%	
France	34	6,32%	France	1381	6,856%	
Korea	28	5,20%	Korea	479	2,378%	
Japan		27 5,02% Japan		152	0,755%	
Germany	22	4,09%	Germany	92	0,457%	
Australia		20 3,72% Australia		578	2,869%	
India	18	3,35%	India	591	2,934%	
Canada	17	3,16%	Canada	703	3,490%	
Italy	12	2,23%	Italy	106	0,526%	
Brazil	10	1,86%	Brazil	59	0,293%	
South Africa	10	1,86%	South Africa	137	0,680%	
Sweden	10	1,86%	Sweden	38	0,189%	
Switzerland	9	1,67%	Switzerland	164	0,814%	
China	8	1,49%	China	96	0,477%	
Israel	6	1,12%	Israël	78	0,387%	
Hong Kong	6	1,12%	Hong Kong Netherland	43	0,213%	
Netherland	5	0,93%		101	0,501%	
Spain	5	0,93%	Spain	94	0,467%	
Russia	5	0,93%	Russia	148	0,735%	
Norway	5	0,93%	Norway	147	0,119%	
Singapore	4	0,93%	Singapore Belgium	147	0,730%	
Belgium Austria	4	0,74%	Austria	109	0,041%	
Denmark	4	0,74%	Danemark	16	0,005%	
Taiwan	4	0,74% 0,74%	Taiwan	21	0,079%	
Mexico	4	0,74%	Mexico	13	0,065%	
Luxembourg	3	0,56%	Luxembourg	20	0,003%	
Malaysia	3	0,56%	Malaysia	34	0,055%	
Finland	2	0,37%	None	0	0,103/0	
Ireland	2	0,37%	Ireland	80	0,397%	
Morocco	2		Marocco	53		
Chile	1	0,19%	Chile	16	0,079%	
Thailand	1	0,19%	Thailand	7	0,075%	
Turkey	1	0,19%	Turkey	19	0,000%	
Greece	. 1	0,19%	Greece	8	0,034%	
Portugal	1	0,19%	Portugal	1	0,005%	
Peru	1	0,19%	Peru	8	0,000%	
Colombia	1	0,19%	Colombia	9	0,045%	
Czech Republic	1	0,19%	Czech	3	0,045%	
Ivory Coast	1	0,19%	None	0	0,010,0	
United Arab				Ŭ		
Emirates	1	0,19%	UAE	8	0,040%	
Total	538		Total	19614		

The 42 countries of headquarters of the companies covered in the data set represent more than 97% of the frequency of appearances of the media sources. This seems logical as media headquartered in the same country as a given company will follow it more closely if the company is headquartered in the same country, thus being of interest to its readers, which are also located in the same country. This also explains the concentration of media sources in a few countries.

The seven countries representing more than 88% of the media sources frequency are highlighted in yellow, as in tab 6 and 7 above. All these 7 countries are present in the countries of companies' headquarters data. If the weight of the countries for company's headquarters and for media sources headquarters matches almost perfectly, a few discrepancies are to be noted.

The percentage of companies' occurrences in the data set for the United States of America (USA) is 36%, while media sources occurrences for the USA are more than 5% higher, up to 41%. The USA is the number one in both categories. The difference is even larger for the second, the United Kingdom (UK), where the percentage of companies' occurrences in the data set is 7%, when media sources occurrences for the UK are more than 20% higher, up to 27%. France is number 3 in both data which are almost similar at 6% both. Korea is number 4 for both data set; but this time it is the media sources that are lower by 3 percent to the companies' weight. Then Japan and Germany are respectively number 5 and 6 in the number of companies headquartered on their territories, but significantly lower by the media sources. Also, two countries have companies headquartered on their territory, namely Finland and Ivory Coast, but have no media sources headquartered on their territory.

This data comparison shows that the media used are not always from the same country as the company they cover. This also shows that media sources are even more concentrated than the companies in a few countries, namely the UK and the USA. And also, that some countries (Japan, and Germany) have many companies, but their media are not used to follow them. The fact that all the 538 companies are concentrated in 42 countries, but media used are in 104 different countries, also shows that the places of controversies are not always where the companies are headquartered, since there is a need to look for media sources outside of these countries.

#### IV.1.2.3 - Languages of the media sources

The languages of the media sources used by Vigeo-Moodys have been analyzed through the frequency of their usage throughout the data set. Only 6 different languages have been identified throughout the 20 144 media sources occurrences of the data set.

The tab 11 below presents the frequency of appearances of the media source in the different languages and their relative weight in the data set.

Language	Frequency	Percentage		
English	18575	92,2%		
French	1262	6,3%		
Spanish	135	0,7%		
Italian	68	0,3%		
German	60	0,3%		
Portuguese	44	0,2%		
Total	20144	100,0%		

Tab 11 – Media source by languages of the source used

All the languages used in the data set are European languages. English language represents more than 92% of the media sources occurrences. French is the only other significative language used, with 6% of the occurrences. Spanish, Italian, German and Portuguese together represent less than 1,5%.

This shows the extreme linguistic concentration of the use of media sources in the data set. This interrogates whether using almost only one language, namely English, enables to find all the possible controversies about one given company. Especially if the company is working in a country where English is not an official language, and is therefore not widely spoken by the population, neither is the language in which media are writing. Is it possible that some controversies are not reported because they do not appear in English language media sources?

In order to show that this is an important question for anyone following controversies linked to one country, we looked compared countries media sources profiles, between English speaking countries and non-English speaking countries.

Korea, Turkey, China, and Kazakhstan are countries represented in the data set having media sources headquartered on their territory. All these media sources are exclusively in English, although these countries do not speak much English. They are compared with English speaking countries such as South Africa, UK and USA in the tab 12 below.

Tab 12 – Comparison of media source profile of English-speaking countries and non-English-speaking countries.

	Selected countries	Official language(s)	Single language used in the database	Frequency	Percentage of the country in the database	Unique sources
Non-	Korea	Korean	English	479	2,38%	15
english	Turkey	Turkish	English	19	0,09%	6
speaking	China	Chinese	English	96	0,48%	13
countries	Kazakhstan	Russian/Kazakh	English	19	0,09%	7
English-	South Africa	English	English	137	0,68%	23
speaking	UK	English	English	5548	27,54%	160
countries	USA	English	English	8429	41,84%	669

Tab 12 shows the frequency of media sources from the respective countries, and the number of unique media sources per country. Non-English-speaking countries have a much small number of unique media sources than English-speaking countries. Even if, the size of their respective economies and of the number of companies covered can influence the number of unique media sources used, this is not confirmed by the fact that China, the second largest economy in the world also has a smaller number of unique media sources than all the other English-speaking countries in the sample.

Therefore we can emit the hypothesis that the number of sources used and of occurrences (frequency) is directly limited in the context of a non-English Speaking country, such as China, Kazakhstan, Turkey or Korea, because there is a limited number of media sources available in English language and that not every media report is available in English language.

Therefore, language access is one way of explaining the high concentration of media sources in a few countries, mostly English-speaking ones. In order to verify the hypothesis that using only English sources in a non-English-speaking country can lead to miss controversies, a case study on one non-English speaking country will be proposed further in this study.

#### IV.1.2.4 - Type of media sources

The type of media sources used in the Vigeo-Moodys data set have been categorized in 5 different categories:

- Business Media
- Generalist Media
- News Agencies
- Local Media
- Specialized Media

Each of these categories will be analyzed through the frequency of appearance in the data set and through the number of unique media sources for each category. Moreover, by dividing the number of appearances by the number of unique sources, we can analyze how many times in average each unique source is used. This is an indicator of the concentration of sources, or how many times one single media source is used for each category. This same indicator will be used further to add a layer of understanding on how concentrated media sources are.

Tab 13 below presents the results of media sources frequency, unique sources, concentration as explained above per each type of media.

Type of media	Frequency	Percentage	Number of unique source	Percentage	Frequency / Unique sources
Business Media	7338	36,4%	433	27,0%	16,9
Generalist Media	7008	34,8%	425	26,5%	16,5
News Agency	3397	16,9%	54	3,4%	62,9
Local Media	1625	8,1%	432	26,9%	3,8
Specialised Media	776	3,9%	261	16,3%	3,0
Total	20144	100,0%	1605	100,0%	12,6

*Tab 13 – media sources per type of media* 

The most used type of media throughout the data set with more than 36% of the media sources are Business media sources. This is not very surprising as controversies focus on companies and their businesses. Though, Business media are usually depending on companies and business communities to exist, so the importance of Business media is also a sign of concentration of the media sources. This will be further detailed through crossing this data with the data about countries of headquarters of the media sources.

The second type of media in the data set are generalist media with almost 35% of the frequency of media sources. This is not surprising either to find generalist media almost as important as Business media. Indeed, generalist media are among the largest media organizations, and are often the most reliable sources of most information at the national level of each country.

Then, with almost 17% of the frequency of media sources comes News Agencies. News agencies are the main provider of information to all the other type of media. So, this is not surprising that news agencies are among the main sources of information throughout the data set. What is interesting though it the high concentration of news agencies, indeed with only 54 unique media sources in the data set, but 3397 times they are used, it is the most concentrated type of media source, with in average each news agency being used 64 times throughout the data set. This is to be compared with the average for generalist and business media which is around 16 times per unique sources.

The two last types of media, local and specialized with respectively 8% and 3% of the media sources frequency, are the most diverse types of sources, with a very low concentration of

around 3 times per unique source. Local media are especially diverse, as they are almost as numerous in unique sources as generalist and business media. This is logical, as local media cover small geographies and are relevant only on very precise cases of controversies.

In order to refine the analysis of the type of media and better understand the concentration of media sources in the data set, we crossed the media type data with the data on the 7 largest countries of headquarters of media sources, representing more than 88% of the entire data set. The results presented in tab 14 below will enable to understand where the different types of media are based.

		Ge	neral		Business Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources / country	Average frequency/sou rce	Frequency Business Media	% to the country	Number of unique sources / BM	Average frequency/s ource
USA	8429	41,844%	669	12,6	4785	57%	196	24,4
UK	5548	27,542%	160	34,7	998	18%	71	14,1
France	1381	6,856%	133	10,4	262	19%	29	9,0
Canada	703	3,490%	58	12,1	207	29%	7	29,6
India	591	2,934%	64	9,2	271	46%	17	15,9
Australia	578	2,869%	42	13,8	126	22%	8	15,8
Korea	479	2,378%	15	31,9	91	19%	7	13,0
Other (less than 1%)	2435	12,088%	464	5,2	712	29%	98	7,3
Total frequency	20144	100%			7452			
Total Sources			1605	12,6			433	17,2

Tab 14 (1) – Media sources types per countries (Business media)

Tab 14 (2) – Media sources types per countries (Generalist media)

		Ge	neral		General Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources / country	Average frequency/sou rce	Frequency Generalist Media	% to the country	Number of unique sources / GM	Average frequency/s ource
USA	8429	41,844%	669	12,6	1785	21%	54	33,1
UK	5548	27,542%	160	34,7	2023	36%	19	106,5
France	1381	6,856%	133	10,4	632	46%	32	19,8
Canada	703	3,490%	58	12,1	343	49%	14	24,5
India	591	2,934%	64	9,2	257	43%	34	7,6
Australia	578	2,869%	42	13,8	286	49%	9	31,8
Korea	479	2,378%	15	31,9	227	47%	6	37,8
Other (less than 1%)	2435	12,088%	464	5,2	1341	55%	257	5,2
Total frequency	20144	100%			6894			
Total Sources			1605	12,6			425	16,2

		Ge	neral		News Agencies			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources / country	Average frequency/sou rce	Frequency News Agency	% to the country	Number of unique sources / NA	Average frequency/s ource
USA	8429	41,844%	669	12,6	290	3%	3	96,7
UK	5548	27,542%	160	34,7	2366	43%	1	2366,0
France	1381	6,856%	133	10,4	245	18%	1	245.0
Canada	703	3,490%	58	12,1	58	8%	1	58,0
India	591	2,934%	64	9,2	41	7%	4	10,3
Australia	578	2,869%	42	13,8	0	0%	0	0,0
Korea	479	2,378%	15	31,9	161	34%	2	80,5
Other (less than 1%)	2435	12,088%	464	5,2	236	10%	42	5,6
Total frequency	20144	100%			3397			
Total Sources			1605	12,6			54	62,91

*Tab 14 (3) – Media sources types per countries (News agencies)* 

Tab 14 (4) – Media sources types per countries (Local Media)

		Ge	neral		Local Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources / country	Average frequency/sou rce	Frequency Local Media	% to the country	Number of unique sources / LM	Average frequency/s ource
USA	8429	41,844%	669	12,6	1098	13%	277	4,0
UK	5548	27,542%	160	34,7	49	1%	28	1,8
France	1381	6,856%	133	10,4	199	14%	47	4,2
Canada	703	3,490%	58	12,1	83	12%	30	2,8
India	591	2,934%	64	9,2	3	1%	2	1,5
Australia	578	2,869%	42	13,8	136	24%	22	6,2
Korea	479	2,378%	15	31,9	0	0%	0	0,0
Other (less than 1%)	2435	12,088%	464	5,2	57	2%	26	2,2
Total frequency	20144	100%			1625			
Total Sources			1605	12,6			432	3,8

Tab 14 (5) – Media sources types per countries (Specialized Media)

		Ge	neral		Specialised Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources / country	Average frequency/sou rce	Frequency Specialised Media	% to the country	Number of unique sources / SM	Average frequency/s ource
USA	8429	41,844%	669	12,6	471	6%	139	3,4
UK	5548	27,542%	160	34,7	112	2%	41	2,7
France	1381	6,856%	133	10,4	43	3%	24	1,8
Canada	703	3,490%	58	12,1	12	2%	6	2,0
India	591	2,934%	64	9,2	19	3%	7	2,7
Australia	578	2,869%	42	13,8	30	5%	3	10,0
Korea	479	2,378%	15	31,9	0	0%	0	0,0
Other (less than 1%)	2435	12,088%	464	5,2	89	4%	41	2,2
Total frequency	20144	100%			776			
Total Sources			1605	12,6			261	3,0

Breaking down the data on type of media per country, namely the 7 countries concentrating the most media sources having their headquarters on their territories, enable to highlight from which countries are the different types of media sources.

The first result is that Business media sources are highly concentrated in the USA, 57% of all media sources occurrences in the data set based in the USA are Business media. 45% of the Business media unique sources are based in the USA. Overall it is not even 10% of the rest of the world (not the 7 most represented countries), where business media are headquartered. This shows clearly a double concentration, geographic and of type of media in the USA and in a few geographies. Each of the USA business media sources are in average appeared more than 24 times, which is much more than the general average for all business media sources which is only 12 times, two times less. This shows the high concentration of the Business media sources.

About general media sources, the high concentration of frequencies of occurrences per unique sources for the USA and for the UK, the two largest countries, show that a few generalist sources are used a lot to source information by Vigeo-Moodys. This is the case for the Guardian (UK) and the New York Times (USA), which are two of the top ten most used single sources throughout the data set. The concentration is very important with more than 106 times per unique sources in average for the UK and 33 times per unique sources for the USA, way above the average for both countries (34 and 12 respectively).

When it comes to news agencies, it is even more concentrated. The UK alone represents 70% of the total frequencies of occurrences of news agencies in the data set. And there is only one news agency based in the UK: Reuters. The same goes for France with the AFP, which is much less frequent throughout the data set, but it still very concentrated, as one single source represents 18% of all sources from France.

Local media sources are also very concentrated in one country. More than 67% of the local media sources frequency are headquartered in the USA. When only 3,5% of these are outside

of the seven largest country of the data set. About unique local sources it is 94% headquartered in the seven largest countries. Local media are only for the countries with the most sources and attention.

The same goes for the specialized media which are also very concentrated in the USA, with more than 60% of the frequency of specialized media sources headquartered in the USA. And more than half of the unique specialized media sources headquartered in the USA.

All these data precision, confirm the high concentration of the media sources in a few countries, especially in the USA and in the UK. But why is that? We could think that it is the richest countries concentrating the most media sources. In order to verify this hypothesis, we will divide the data using OECD countries and non-OECD countries in order to better understand what the reason of this concentration is.

#### IV.1.2.5 - OECD countries and concentration of media sources

OECD countries represent the 38 most developed economies. 27 countries of the 38 are represented in the data set. The data set on media sources has been reorganized to regroup countries where media sources are headquartered in OECD countries and non-OECD countries in order to better understand the influence of the development of an economy with the selection of media sources. The results are presented in the Tab 15 below.

Tab 15 – OECD vs Non-OECD headquartered media sources per type of media (1) – Business media

		Ge	neral		Business Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources	Average frequency/sou rce	Frequency Business Media	% to the region	Number of unique sources / BM	Average frequency/s ource
OECD countries	18335	91,020%	1282	14,3	6891	38%	366	18,8
Non OECD countries	1809	8,980%	323	5,6	561	31%	67	8,4
Total	20144	100%	1605	12,6	7452	37%	433	17,2

Tab 15 – OECD vs Non-OECD headquartered media sources per type of media (2) –

#### Generalist media

	General				General Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources	Average frequency/sou rce	Frequency Generalist Media	% to the region	Number of unique sources / GM	Average frequency/s ource
OECD countries	18335	91,020%	1282	14,3	5882	32%	240	24,5
Non OECD countries	1809	8,980%	323	5,6	1012	56%	185	5,5
Total	20144	100%	1605	12,6	6894	34%	425	16,2

Tab 15 – OECD vs Non-OECD headquartered media sources per type of media (3) – News

agencies

	General				News Agencies			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources	Average frequency/sou rce	Frequency News Agency	% to the region	Number of unique sources / NA	Average frequency/s ource
OECD countries	18335	91,020%	1282	14,3	3245	18%	21	154,5
Non OECD countries	1809	8,980%	323	5,6	152	8%	33	4,6
Total	20144	100%	1605	12,6	3397	17%	54	62,9

Tab 15 – OECD vs Non-OECD headquartered media sources per type of media (4) – Local

media

		Ge	neral		Local Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources	Average frequency/sou rce	Frequency Local Media	% to the region	Number of unique sources / LM	Average frequency/s ource
OECD countries	18335	91,020%	1282	14,3	1597	9%	421	3,8
Non OECD countries	1809	8,980%	323	5,6	28	2%	11	2,5
Total	20144	100%	1605	12,6	1625	8%	432	3,8

Tab 15 – OECD vs Non-OECD headquartered media sources per type of media (5) – Specialized media

	General				Specialized Media			
Countries representing more than 1%	Frequency	Percentage of total sources	Number of unique sources	Average frequency/sou rce	Frequency Specialised Media	% to the region	Number of unique sources / SM	Average frequency/s ource
OECD countries	18335	91,020%	1282	14,3	720	4%	234	3,1
Non OECD countries	1809	8,980%	323	5,6	56	3%	27	2,1
Total	20144	100%	1605	12,6	776	4%	261	3,0

Looking at all the data set and dividing it between OECD and non-OECD economies show the concentration of media sources in OECD countries, more than 91% of the frequency of media sources are headquartered in OECD countries. Showing that there is a clear concentration of media sources used in the most developed economies. What is even more surprising is that the concentration of frequency per unique media source is 3 times higher in OECD countries. Each unique media source appears in average 5 times for media sources based in non-OECD countries, while it is 15 times when the media sources are based in OECD countries.

The same goes for Generalist and Business media sources which are overrepresented among OECD countries, and also much more concentrated per unique media source. News agencies are also highly concentrated in OECD countries.

All these results show that information on controversies largely depends on media sources based in the most developed economies. A few media sources based in very few countries produce the information needed by the financial sector. This will be shown by analyzing the most used (frequency) unique media sources further in this study. But first we will focus on paid media used by Vigeo-Moodys in the data set.

#### IV.1.2.6 - Paid media sources

Why focus on paid media sources? These media are not accessible without paying for them. The media source was classified as "paid" only if no content at all was available for free. The only exception is Bloomberg, as through the data base it was written several times that it was on Bloomberg terminal, which is paid, and which most financial actor use, which is the reason why it was included in the "paid" category, although some content is available through a freemium model online.

Paid media data set was compared to the rest of the data set and per categories of media and countries of headquarters, as well as per languages. The results are shown in the following Tab 16, 17 and 18 below.

#### Tab 16 – Paid media sources by media types

Type of Media	Number of media	% of unique media sources	Frequency of media	% of frequency	Concentration of media source
Business media	27	73%	1633	95%	60,5
Specialised media	10	27%	88	5%	8,8
Total	37	100%	1721	100%	46,5
Database	1605	2,3%	20144	8,5%	12,6

Tab 17 – Paid media sources by country of headquarters of media

Type of Media	Number of media	% of unique media sources	Frequency of media	% of frequency	Concentration of media source
Cambodia	1	2,7%	1	0,1%	1,0
Czech	1	2,7%	1	0,1%	1,0
France	3	8,1%	5	0,3%	1,7
Hungary	1	2,7%	3	0,2%	3,0
India	1	2,7%	3	0,2%	3,0
Kazakhstan	1	2,7%	2	0,1%	2,0
Netherland	1	2,7%	70	4,1%	70,0
Romania	1	2,7%	12	0,7%	12,0
UAE	1	2,7%	2	0,1%	2,0
UK	5	13,5%	73	4,2%	14,6
USA	21	56,8%	1549	90,0%	73,8
Total	37	100,0%	1721	100,0%	46,5

Tab 18 – Paid media sources by languages of the media source

Language	French	English
Frequency of media	5	1716
% of total	0,29%	99,7%
Number of media	3	34
% of total	8,1%	91,9%
Concentration	1,7	50,5

As per the results of Tab 16 above, compared to the entire data set, paid media sources are only a very small portion of the media sources with only 2,3% of the unique media sources. But their frequency of appearances in the data set, is much higher, representing 8,5% of the entire occurrences in the data set. The concentration of paid media sources is therefore almost 4 times higher than the average of the data set, with one unique paid media source appearing in average 46 times, while the average for the data set is 12 per unique source. This shows that a few paid media sources are much more used than the rest of media sources, hence the importance of these sources. Indeed, paid media sources are supposed to bring information that are not available elsewhere, exclusivity is the reason why these media are not free of charge.

This is therefore not surprising that only two types of media are present in the paid media category, namely business media and specialized media sources. As shown in Tab 16, 73% of the frequency of paid media sources appearances are business media sources. This is mainly due to the presence of Bloomberg, which is one of the two most used media sources throughout the data set, but not only, even without Bloomberg, business media make the most of paid media sources. This shows that Vigeo-Moodys considers that some information is only available in these paid media sources, that are specialized in business or in other sectors or geographies.

The concentration of paid media sources is pretty similar to the rest of the data set when it comes to countries. Indeed, as shown in Tab 17, 90% of the paid media source frequency are coming from media sources headquartered in the USA, and almost 60% of unique paid media sources based in the USA. This is therefore not surprising that 99,7% of the frequency of paid media sources are in English language, as shown in Tab 18.

The fact that all paid media sources are based in the USA and even more are in English languages also questions the ability for non-English media sources, not based in the USA or in the UK, and willing to research on local companies, to finance themselves. Indeed, can a media sources based in the USA follow and monitor closely a controversy in Kazakhstan, in China or in Burkina Faso? The value of such an information can be high, but it would also cost money to be produced. Therefore, looking at paid media sources also tells us how these media can finance their activities. The high concentration of these paid sources shows a structural problem of information sourcing financing. No financing for a media, no information.

What is most surprising looking at the entire set of countries where paid media are based, is that it seems that Vigeo-Moodys understand this problem, as some very little countries (in size of media frequency, and company that are based there) media sources, such as Kazakhstan, Cambodia, or Romania, are present in the paid media source data set, as show in Tab 17. Although they represent very little unique sources and frequency of appearances,

this shows the need for exclusive, researched information on these geographies, that can be accessed only through paid media.

#### IV.1.2.7 - The most used media sources

In order to conclude on the quantitative analysis of the data set provided by Vigeo-Moodys, this following part will focus on the 100 most frequently used media sources. Indeed, as the previous steps of the study showed, the media sources are highly concentrated. Looking closely at the first 100 sources then makes sense in order to better understand which media are the main source of the information about controversies.

The general data about these 100 unique sources the most frequent throughout the data set are presented in Tab 19 below.

	Frequency	% of the total frequency	% of their respective sub- total frequency	Unique sources	Frequency/U nique source
Total of 100 Media Sources the most frequent	13982	69,4%	69,4%	100	139,8
		Details			
Headquartered in the USA	5940	29,5%	70,5%	42	141,4
Headquartered in the UK	4929	24,5%	88,8%	14	352,1
Business Media	5374	26,7%	73,2%	43	125,0
Generalist Media	5101	25,3%	72,8%	41	124,4
News Agencies	3153	15,7%	92,8%	8	394,1
Local Media	289	1,4%	17,8%	6	48,2
Specialized Media	65	0,3%	8,4%	2	32,5
Paid Media	1489	7,4%	86,5%	9	165,4

Tab 19 – The 100 most frequent unique media sources of the data base

The first finding is that indeed, the 100 most frequent unique media sources, which represent only 6% of the total unique media sources of the data set, concentrate almost 70% of the frequency of appearances as a source of a controversy throughout the data set.

The concentration is very high, more than 100 times higher than the average of the data set. The 100 unique sources appear in average 140 times each, compared to the 12 times per unique source for the entire data set. If we look at the media sources based in the USA and in the UK as shown in Tab 19 above, the hundred first sources per frequency represent 70% of all the sources from the USA, and more than 88% of all the sources from the UK. The concentration is very high as well, much more than for the rest of the data set for the UK and the US.

The same goes for Business media and generalist media, for both, more than 70% of the frequency of their respective type of media are in the hundred firs unique sources. It is even higher, up to 86% for paid media sources.

All this show how concentrated the main types of media, and per country of headquarters are in the first 100 unique media sources.

If we look at the first five most frequent unique media sources, as shown below in Tab 20, we see that only UK and USA is represented and only Business and Generalist media.

Name of the Media source	Frequency	% of total frequency	Country of headquarters	Type of Media
Reuters	2366	11,7%	UK	News Agency
Bloomberg	1045	5,2%	USA	Business Media
The Guardian	731	3,6%	UK	Generalist Media
The Wall Street Journal	609	3,0%	USA	Business Media
Financial Times	476	2,4%	UK	Business Media
Total	5227	25,9%		

Tab 20 – The five largest unique media sources per frequency in the data set

The first five unique sources by their frequency are some of the most well-known name for sourcing information, especially for businesses. Namely, Reuters, Bloomberg, The Guardian, The Wall Street Journal and The Financial Times, are the 5 most used unique sources throughout the data set. Together they represent more than 25% of all the appearances of media sources of the data set. Reuters alone representing almost 12% of the appearances of media sources of the data set.

# IV.1.3 - Final comments on the quantitative analysis of Vigeo-Moodys controversies' data

The quantitative analysis of Vigeo-Moodys database on controversies enabled to look closely at the media sources used by them to find out controversies linked to various companies, mostly listed companies. The initial research hypothesis was that media used by investors were very limited in numbers and diversity. This study enabled to validate this hypothesis and show the high degree of concentration of media sources used by a specialized information provider such as Vigeo-Moodys. Furthermore, this quantitative study enabled to specify what were the features of this concentration, in a geographic, economic, and sectorial way. It also gave insights about the issues of media financing by showing a high degree of concentration among paid media.

This quantitative analysis show that only 6% of the total unique media sources of the data set are used in more than 70% of the media sources used throughout the data set to source controversies. This validates the hypothesis that the financial sector actors, such as Vigeo-Moodys, specialized in information, use a very reduced number of media to source their information.

These media sources are not only concentrated in a few sources, but also geographically. Using the country where the media sources are headquartered, this study showed that only 7 countries constituted more than 1% each of the entire number of media sources used. This shows that the concentration of media source is also due to geographical reasons. Why are certain countries concentrating more of the media sources used in the financial world? The answer is that most of the economic activity is happening in these countries, but this is not the only reason, as controversies don't always happen in the richest or most developed countries. More than 91% of the frequency of media sources are headquartered in OECD countries. Showing that there is a clear concentration of media sources used in the most developed economies.

Media sources used are also concentrated by their type, indeed business media are the favorite type of media used in the data set. This finding shows that the financial sector relies mostly on media specialized in business, these media are also very concentrated and very often owned by people having business interests. Moreover, these business media are even more concentrated geographically than the rest of the data set, namely in the USA and in the UK.

The preeminence of the USA and the UK as countries of headquarters of the media sources is astonishing. Indeed, these two countries concentrated almost 70% of the media sources used in the data set. The fact that media sources are concentrated in the UK and in the USA, also point to another feature of the concentration of media used in the financial sector: the language. Indeed, we have been able to show that English language is used in more than 92% of the media sources in the data set. And that overall only 6 different languages are used to read media sources. This poses serious questions: are financiers able to reach an information that would not be in English, or one of the few languages they use on the side? Especially if the company is operating in a country where English or one of these 6 languages are not used. This will be the objective of the qualitative case study in the second part of this study.

Last important finding of this quantitative study is the fact that Vigeo-Moodys use mostly free media, and therefore they don't pay for the information they use. When they use paid media, these ones are only business or specialized media, and mostly based in the USA. This clearly confirms that the financial sector, probably one of the major users of information as a sector, is not contributing significantly to a diversified media landscape.

#### IV.2 - Part 2 - Qualitative Analysis: Arcelor Mittal in Kazakhstan

The quantitative analysis part of this study showed the issues of the concentration of media sources and how they are used in the Vigeo-Moodys database of controversies. The geographic and linguistic concentration of sources raised some questions about the ability of such database to fully cover companies doing businesses in countries that are not English-speaking and that are not the most developed. The hypothesis is that investors following closely one company and what this company is doing around the world, will not get all the information on controversies about this company if it has operations in non-English-speaking countries.

In order to test this hypothesis, we will conduct a case study on a given country with a given company, and check if all the controversies present in the local-language media sources are covered by the Vigeo-Moodys database.

#### IV.2.1 - Methodology of the case study

This case study intends to look in a closer way at the data on controversies provided by Vigeo-Moodys. Indeed, the size of the data set is such that looking individually at each controversy would not be possible, hence the need for sampling some of this data and looking at it in details in order to understand how controversies are selected.

The goal of this study is to look at the influence of media sources on controversies. After having demonstrated that these media sources are highly concentrated in various ways, the question is now to know if this concentration has a concrete influence on the controversies appearing on the screen of information providers such as Vigeo-Moodys and in fine on the screen of investors trying to invest in a responsible way.

Our hypothesis is that because of the geographic and linguistic concentration of the media sources used, some controversies will be missed out in the data set.

In order to verify this hypothesis, it requires to look in details at each controversy. In order to do that we will select one company. This will enable to look through all the controversies of this company. In order to make sure that one given company will have enough controversies we choose one company involved in a sector where controversies are usually numerous: mining and metallurgy. We have therefore chosen one of the main companies of this sector in the data set given by Vigeo-Moodys: Arcelor Mittal, headquartered in Luxembourg. With activities all over the world, Arcelor Mittal is a perfect fit for this case study.

Indeed, the second step, is to choose in the controversy data of this company one single country where it has activities and controversies associated with it. As Arcelor Mittal is active in numerous countries, we decided to look for a country where media sources are not considered very free. Indeed, one of the main reasoning behind the concentration of media sources in rich and developed countries, is that in these countries press freedom is higher than in many others, therefore these media sources are more reliable and should provide better and more information. By choosing a country where press freedom is considered at a low level, we will intend to show that this is not a valid argument for information providers to use.

Kazakhstan, number 158 out 180 in the 2019 ranking of press freedom per country of Reporter Without Borders<sup>3</sup>, is a perfect candidate. Moreover, Arcelor Mittal has one of its largest metallurgic plant associated with multiple mines in the central region of Karaganda in Kazakhstan.

Once the company and the country of activities of the focus is chosen, we need to select one media source headquartered in the country and publishing in one of the local official languages, in order to research in this media sources all the occurrences of the company's name. Indeed, the goal is to check whether the controversies in the Vigeo-Moodys data set

<sup>&</sup>lt;sup>3</sup> Reporter Without Borders, Kazakhstan, 2019, <u>https://rsf.org/fr/kazakhstan</u>

match with the controversies that can be found in a local language and locally based media source.

Tengrinews is a web-based media, legally registered in Kazakhstan, it is a generalist media in the sense that they cover everything that is relating to Kazakhstan, from sport to politics.

Then, based on Tengrinews website a research of all the occurrences of "Arcelor" was conducted, enabling to find all articles published by this media source mentioning the company. Out of these articles, were selected the ones directly about Arcelor Mittal in Kazakhstan. Then many of these articles were about the same subject (or controversy), so these "updates" were grouped, in order to be able to match them with the data as formatted by Vigeo-Moodys and other information providers. This constitutes the Tengrinews data set.

The matching process between controversies found in Vigeo-Moodys data set and Tengrinews data set, enables to check what was missing in Vigeo-Moodys data set. Of course, one of the arguments why not all the data would be matching is that not all controversies are of the same importance for investors (the final destinations of the information in the database of information providers). In order to show that this is not the reasoning leading to the matching or not of controversies found in Tengrinews data set and in Vigeo-Moodys data set, two control data set about Arcelor Mittal in Kazakhstan from two other anonymous information providers largely used by investors, which we will call "R" and "S", have been used. The data selection process for "R" and "S" was the same as for the data selection process for Vigeo-Moodys: First the data about Arcelor Mittal and then the selection only about Kazakhstan. In order to be able to compare all these data, the time frame of all data set were based on the time frame of the controversies updates found in Vigeo-Moodys database for Arcelor Mittal in Kazakhstan : starting in November 2012 to the end of June 2019.

Then using the three information providers' data set and Tengrinews data set, a comparison of the types of controversies was conducted. Two types of controversies that are very material and should logically be present in the information providers database about controversies were focused on. First on controversies including violent work incidents like blasts, fire, and injuries of workers. And then, all the controversies including the death of at least one worker. This intends to show whether information providers are able to provide all the important information and report all the controversies happening on the ground. And as a consequence, shows whether there is a need to focus or not on local media in local languages such as Tengrinews for Kazakhstan.

#### IV.2.1.1 - Description of the data selection on Arcelor Mittal in Kazakhstan

As explained above data was selected from Vigeo-Moodys database on controversies, from data provider "R" and "S" and finally from the Kazakhstan based media source Tengrinews. The process of selection of these 4 data sets are explained below.

#### IV.2.1.2 - Data from Vigeo-Moodys

Concretely we first selected the data from Vigeo-Moodys database, from the "details" sheet, matching for Arcelor Mittal. This "details" sheet contains the controversies updates. So, there were 72 controversies updates for Arcelor Mittal in the "details", for 22 single controversies. For Kazakhstan there were only 15 updated and 12 single controversies in the data set.

The profile of the media sources used for these controversies is as shown in Tab 21 below.

Tab 21 – Media source profile for the Vigeo-Moodys Kazakhstan/Arcelor Mittal data set

Sources	number of time used	Country of origin of the Media	language of the source	Type of media
Interfax	4	Russia	English	News Agency
Kazakhstan Press Club	1	Kazakhstan	English	Business media
Mining.com	1	Canada	English	Business Media
Kazakhstanskaya Pravda	2	Kazakhstan	English	Generalist Media
Kazakh Telegraph Agency	1	Kazakhstan	English	News Agency
Kazinform	2	Kazakhstan	English	News Agency
Ferghana News	1	Russia	English	News Agency
Reuters	1	UK	English	News Agency
BBC News	2	UK	English	Generalist Media
UPI	1	USA	English	Generalist Media
IndustriAll	3	Swiss	English	Business Media
Kazakhstan General Newswire	5	Kazakhstan	English	Business Media
Kazakhstan Newsline	1	Kazakhstan	English	Business Media
Total	25			

The media sources were described using the same categories as in Part 1 of this study. Namely, the country of headquarter of the media source, the frequency of occurrences of one unique media source, the language used for this media source, and the type of media source.

In total 25 media sources are used for the 15 controversies' updates of the data set on Arcelor Mittal in Kazakhstan, of which only 12 contained media sources. The most used media sources are headquartered in Kazakhstan, with 12 times, or 48% of the total frequency, media sources from Kazakhstan seem to be the first information sources on controversies about Arcelor Mittal in the country. Although it shall be highlighted that all of these sources, may they be headquartered in Kazakhstan, are all used in their English-speaking version. This is actually a perfect situation to teste whether the language of usage of media sources has influence on the number of controversies found relevant for the given company in a given country.

Then, only having the title of the article, the name of the source and the date of the article, a research was conducted through Google in order to find back the original article and the link to it. The results are presented in Tab 22 below.

Tab 22 – Precision on each controversy update and media sources on Arcelor Mittal in Kazakhstan from Vigeo-Moodys

Update	Title	Source name	Date	Hyperlink to the article
	Kazakh mining company ArcelorMittal Temirtau pays KZT21 mln fine and			
	KZT1.4 bln damages for air and water discharges	Interfax	27/03/2019	not able to find
1	No title	Kazakhstan Press Club	27/03/2019	not able to find
	ArcelorMittal Temirtau expects production back on target in late Jan-early Feb	Interfax	11/01/2019	not able to find
	Fire at ArcelorMittal Temirtau caused by pipe system overload - ad-hoc			
	commission	Interfax	10/01/2019	not able to find
				https://www.mining.com/arcelormittal-needs-one-month-
2	ArcelorMittal needs one month to restore Kazakh output	Mining.com	12/11/2018	restore-kazakh-output/6274
	ArcelorMittal Temirtau fined close to KZT 1.4bn	Kazakhstanskaya Pravd	24/09/2018	https://newsline.kz/article/763633/
	AMT may be fined over 1.3 bn tenge for environment pollution in Kyzylorda			https://kaztag.kz/en/news/amt-may-be-fined-over-1-3-bn-
1	region	Kazak Telegraph Agenc	19/07/2018	tenge-for-environment-pollution-in-kyzylorda-region
				https://kazpravda.kz/en/news/incidents/arcelormittal-
	ArcelorMittal Temirtau worker died	Kazakhstanskaya Pravd	23/02/2018	
		,		https://www.inform.kz/gz/arcelormittal-temirtau-worker-
3	ArcelorMittal Temirtau worker dies in unclear circumstances	KazInform	03/01/2018	
				https://enews.fergananews.com/news.php?id=3722&mode
	ArcelorMittal Temirtau Miners to Get 30% Pay Rise	Ferghana News	19/01/2018	
				https://www.reuters.com/article/arcelormitta-kazakhstan-
				strike/arcelormittal-coal-miners-widen-strike-in-kazakhstan-
4	ArcelorMittal coal miners widen strike in Kazakhstan	Reuters	12/12/2017	idUSL8N1OC4RE
	Black snow troubles pollution-weary Kazakhs in Temirtau	BBC News	11/01/2018	https://www.bbc.com/news/world-asia-42653738
		UPI (quotes the BBC		News/2018/01/11/Black-snow-blankets-Kazakhstan-city-
5	Black snow' blankets Kazakhstan city believed to be polluted	above)	11/01/2018	believed-to-be-polluted/3941515693236/
	COAL: Investigation into deaths of three mines in August gas blast puts blame			
6	on employer	Interfax	29/09/2017	not able to find
				http://www.industriall-union.org/kazakhstan-industriall-
	Kazakhstan: IndustriALL demands safety improvements after three killed at			demands-safety-improvements-after-three-killed-at-
	ArcelorMittal	IndustriALL Union	01/09/2017	arcelormittal
				https://www.inform.kz/en/mining-accident-in-karaganda-
7	Mining accident in Karaganda region claims three lives	KazInform	31/08/2017	
8	Kazakh trade unions sue ArcelorMittal for not respecting collective agreement	IndustriALL Union	20/09/2017	http://www.industriall-union.org/kazakh-trade-unions-sue-
	Damage caused by accident at ArcelorMittal Temirtau's Saransk exceeds 118	Kazakhstan General		
	mIn tenge	Newswire	23/11/2016	not able to find
	Industrial accident commission puts blame on ArcelorMittal Temirtau for	Kazakhstan General		
	Saransk mine accident	Newswire	23/11/2016	Not able to find
				https://www.inform.kz/en/3-die-in-coal-mine-accident-in-
9	3 die in coal mine accident in Karaganda region	KazInform	10/11/2016	karaganda-region_a2968348
				http://www.industriall-union.org/kazakhstan-arcelormittal-
10	Kazakhstan: ArcelorMittal debts lead to unpaid wages	IndustriALL Union	22/03/2016	debts-lead-to-unpaid-wages
	Devaluation to benefit Kazakh miners but could worsen social tensions	Kazakhstan Newsline	26/03/2014	Not able to find
	Human Rights Ombudsman in Kazakhstan concerned about social tensions in	Kazakhstan General		
	ArcelorMittal Temirtau	Newswire		Not able to find
11	Kazakh ombudsman concerned over tension at steel company	BBC News	27/03/2014	Not able to find
		Kazakhstan General		
12	Court orders Arcelor Mittal Temirtau to employ additional workers	Newswire	13/11/2012	Not able to find

One of the first thing that this research revealed is that it was impossible to find back the article 11 times out of 25 times, or in 44% of the cases. This is of course a worrying result, as these controversies are therefore very complicated to be verified. This is very difficult to understand why hyperlinks are not provided in Vigeo-Moodys database.

A strange use of media sources can also be noticed in this very small sample of the entire database. For the Update number 5 in Tab 22 above, two media sources are used, an article from the BBC and an article from UPI. When looking at the article from UPI, it is actually linking in the first paragraph as the main source of information to the article from the BBC, presented as one of the two sources of this controversy update. This is one more example

that media sources are not carefully looked at and entered in the database in a very strange way by Vigeo-Moodys.

#### IV.2.1.3 - Data from Information Provider "S"

Information provider "S" is one of the largest information providers on the market. It sells a product that is entirely similar to the controversy database of Vigeo-Moodys.

Information provider "S" data set is very similarly constructed as Vigeo-Moodys data set. Although the main difference is that it uses only media sources and no NGO, company or governmental sources, and that it also uses only one source per controversy update.

About the data set of "S" for Arcelor Mittal in Kazakhstan, only 9 controversy' updates were found for the timeframe based on Vigeo-Moodys timeframe for Arcelor Mittal and Kazakhstan.

The profile of sources of "S" are shown in Tab 23 below.

Name of the source	Number of times used	Country of origin of the media	Language	Type of Media
Central Asia & Caucasus Business Weekly	1	Russia	English	Business Media
Kazinform	1	Kazakhstan	English	News Agency
Russia & CIS General Newswire	1	Russia	English	Business Media
IndustriALL	3	Swiss	English	Specialized Media
Reuters	1	UK	English	News Agency
ввс	1	ик	English	Generalist Media
Tengrinews.kz	1	Kazakhstan	English	Generalist Media
Total	9			

Tab 23 - Media sources profile for "S" about Arcelor Mittal in Kazakhstan

Only 7 unique media sources are used for the data set, while Vigeo-Moodys uses 13 unique sources. The sources are all in English language as for Vigeo-Moodys. The 9 controversies' update of "S", which cover only 5 controversies are presented in Tab 24 below.

Tab 24 - Precision on each controversy update and media sources on Arcelor Mittal in Kazakhstan from provider "S"

Update	Title - description	Source name	Date	Hyperlink t the article
	Company fined over pollution in Kazakhstan - The Kazakhstan prosecutors fined ArceloMittal KZT 21 million (USD 55,000) for non-compliance with environmental regulations at the company's Termirtau plant. Among the violations were air pollution, wastewater discharges, poor waste management and harmful operations of boilers. The Department of Environment 1 also fined the company KZT 1.4 billion (USD 3 million) over environmental damages.	Central Asia & Caucasus Business Weekly	27-Mar-19	No link
:	Fatality at Termitau plant after furnace blast, A worker at ArcelorMittal's Termitau plant was found dead following the blast of a furnace shop. The company stated that the circumstances of worker's death were yet to be determined. Furthermore, the company assembled a special commission to investigate the matter.	Kazinform	03-Jan-18	form.kz/en/an lormittal- temirtau- worker-dies-in
	Fatalities and injuries at Termitau mine after a methane release, Three miners died and another four were injured after a sudden methane explosion at the Termitau mine in Kazakhstan. There were 136 workers in the mine at the moment of the explosion. The mine stopped its operations, while the staff proceeded to eliminate the methane, whose concentration was 70%, compared to 3 the 4% permitted limit. A special commission started investigating the accident.		31-Aug-17	No link
	Update: Company files lawsuit against unions after strike at Termitau According to IndustriALL, an international NGO, ArcelorMittal filed a lawsuit against two unions and a worker's rights organization following an underground strike at company's operations in Termitau that occurred from 11 to 15 December, 2017. Among the defendants were the Metallurgical Workers' Union Zhaktau, the Trade Union of Mining & Metallurgy Workers of Respublic of Kazakhstan and the organization Miner's Farmily. The company claimed that the defendants prevented the strike from ending, destabilized operations at the mine, blocked workers from returning to surface and impeded negotiations between company tepresentatives and employees. According to the Mineworkers' Union Korgau, the company dismised four employees immediately after the strike was over. Furthermore, after the negotiations to end the strike, the company stated in a letter to the regional prosecutor that the company would not retailate or sanction the striking workers.	Industriall Union	09-Feb-18	http://www.i dustriall- union.org/arc ormittal- prosecutes- kazakh-worke after- underground- protest
	Update: Workers stop strike after company threatens with lawsuit - More than 600 workers at ArcelorMittal's whelly-owned subsidiary, ArcelorMittal Termitau, in Kazakhstan ended a week old strike after the company o threatened them with legal action but maintained 30% pay raise proposed initially. After the workers started the underground strike the company filed a complaint and a local court declared the strike illegal. Subsequently, the state prosecutors proposed that the workers end the strike or face legal charges.	Reuters Africa	15-Dec-17	https://af.reu s.com/article nergyOilNew idAFL8N1O
4	Workers launch underground strike in Kazakhstan over work conditions and pay Termitau, in Kazakstan, entered an underground strike on December 11 over work conditions and overdue past salaries. The workers also asked for a 100% pay raise. According to the Labour Minister, 684 workers participated at the strike in the first two nights, but after the intervention of the region's governor, 154 workers climbed out of the mines. The local media denied the claims of the Minister. The company also offered the workers a 30% raise, but the miners refused. The company also offered the workers a 30% raise, but the miners refused. The terms at all its eight mines due to the situation. ArcelorMittal declared the strike illegal and took legal action against the worker unions that organized the strike.	BBC	14-Dec-17	https://www bc.com/news world-asia- 42356797
	Update: Labor dispute over collective agreement negotoation delays Worker unions from ArcelorMittal's Termitau plant appealed to Kazakh authorities to solve their labor dispute with the company. The workers had filed a lawsuit with the Karaganda Court against ArcelorMittal, claiming that the firm deliberately delayed negotiations for a new collective agreement. On August 31 the court ruled in favor of the workers and it also ordered the company to respect the 2014 expired collective agreement until a new one was released. However, according to the unions, the company continues to delay negotiation, whilst engaging in pressuring employees to withdraw from the unions. A new hearing related to the case was scheduled for the end of September in the Karaganda Court.	IndustriAll	25-Sep-17	No link
	Update: Contract workers from Termitau plant complain over unpaid wages Approximately 2000 subcontract workers from ArcelorMittal's Temirtau plant in Kazakhstan complained that they did not receive their wages, and that the company had extensive debts to its contractors. Reportedly, the company had trouble paying its 24 contractors since 2013 and by February 2016 its debts had reached approximately KZT 903,5 million (USD 2.61 million), which resulted in contractors delaying wage payments to their employees. Trade unions urged the company to pay its contractors.	IndustriALL Global Union	22-Mar-16	No link
	Update: Prosecutor's Office of Karaganda fines Temirtau plant over wages cuts , The prosecutor's Office or Karaganda and the Labor Inspection imposed a KZT 594,600 (approximately USD 1,720) fine on ArcelorAlittal's Temirtau plant, after it deemed the company's intention to cut wages by 25% illegal. The regulator previously conducted an investigation into the company's operations and concluded that the company's action violated the Labour Code in Kazaksthan. Moreover, the authority stated that the firm should comply with the laws regulating salaries payment to workers from now on. The firm stated that it implemented the wages cuts due to the overall slowdown of the region's economic growth and the unfavorable situation on the foreign markets, which led to financial difficulties for the			
5	firm.	Tengrinews.kz	06-Feb-15	No link

The controversies' updates of provider "S" are not well sources either, with almost no hyperlink and therefore no possibility to check the source and the details.

#### IV.2.1.4 - Data from Information Provider "R"

Information provider "R" is also one of the largest information providers on the market. It sells a product that is entirely similar to the controversy database of Vigeo-Moodys. It is different in the way it presents the data about the source. Indeed, it only presents media sources to the controversy and not company or NGO sources such as in Vigeo-Moodys. It also only present one source per controversy update. It also always provides a hyperlink to the source.

About the data set of "R" for Arcelor Mittal in Kazakhstan, 28 controversy' updates were found for the timeframe based on Vigeo-Moodys timeframe for Arcelor Mittal and Kazakhstan. The profile of sources of "R" are shown in Tab 25 below.

Name of the Source	Number of time used	Country of origin of th Media	Language	Type of Media
Azattyq Radio	3	Czech	Russian	Specialized Media
BNews.kz	1	Kazakhstan	Russian	Business Media
Caravan	1	Kazakhstan	Russian	Generalist Media
Fergananews	1	Russia	Russian	Specialized Media
IndustriALL	1	Swiss	English	Specialized Media
Informburo.kz	1	Kazakhstan	Russian	Generalist Media
Interfax-Kazakhstan	2	Russia	English	Business Media
Internet-gazeta ZonaKZ	1	Kazakhstan	Russian	Generalist Media
Kazakhskoe Telegrafnoe	2	Kazakhstan	Russian	News Agency
Kazakhstan Press Club	2	Kazakhstan	Russian	Business Media
Kazinform	4	Kazakhstan	Russian	News Agency
Megapolis	1	Kazakhstan	Russian	Generalist Media
Novyi Vestnik	1	Kazakhstan	Russian	Business Media
Rosbalt	1	Russia	Russian	Business Media
Sputnik	3	Russia	Russian	Generalist Media
Tengrinews	1	Kazakhstan	Russian	Generalist Media
The Diplomat	2	Japan	English	Specialized Media
Total	28			

Tab 25 – Media sources profile for "R" about Arcelor Mittal in Kazakhstan

The main difference of "R" media sources profile is that they are more numerous than Vigeo-Moodys with 17 unique sources, while Vigeo-Moodys data set only has 13 unique sources. Then the second main difference, probably the most important is that "R" uses other languages than English. Here it massively uses Russian languages sources.

This is supported by the fact that "R" gives the hyperlink to the source and even warns that it is in this or that language directly in the database. In this data set, 23 of the 28 times media sources occurred are in Russian language, or 82% of the data set. This will enable to further check and confirms that looking at local sources in local language provides better information.

The 28 controversies' updates of "R" are presented in the Tab 26 below.

Tab 26 - Precision on each controversy update and media sources on Arcelor Mittal in Kazakhstan from provider "R"

Update	Title - description	Source name	Date	Hyperlink to the article
1	ArcelorMittal Temirtau fined for air and water pollution in Karaganda, Kazakhstan	Informburo.kz	September 22, 2018	https://informburo.kz/novosti/na-14-mlrd-tenge-oshtrafovali-amt-za- zagryaznenie-okruzhayushchey-sredy.html
2	ArcelorMittal Temirtau charged with causing environmental damages estimated at KZT 1.395 billion in Kazakhstan	BNews.kz	August 08, 2018	https://bnews.kz/ru/news/isk_na_14_mlrd_tenge_podal_na_amt_departa ment_ekologii_karagandinskoi_oblasti
3	Employee of ArcelorMittal Temirtau dies in a workplace accident in Kazakhstan	tengrinews	April 09, 2018	https://tengrinews.kz/events/na-arselormittal-temirtau-pogib-rabochiy- 341661/
4	Aktobe, Maximus, Akbulak, and others accused of systematic air pollution in Kazakhstan	Fergananews	February 12, 2018	http://www.fergananews.com/article.php?id=9798
5	ArcelorMittal Temirtau worker dies in workplace accident while past incidents at the company are recounted in local media	Sputnik Kazakhstan	January 03, 2018	https://ru.sputniknews.kz/incidents/20180103/4187708/telo- rabochego- obnaruzheno-v-cekhu-arselormittal-temirtau.html
6	Workers strike against ArcelorMittal Temirtau due to alleged poor working conditions citing previous deaths at Saranskaya mine	The Diplomat	December 15, 2017	https://thediplomat.com/2017/12/miners-strike-in-central-kazakhstan- protesting-bad-work-conditions-and-pay/
7	Fatalities at ArcelorMittal Temirtau's Kazakhstanskaya Coal Mine mentioned as part of industrial accidents	Sputnik Kazakhstan	November 28, 2017	https://nu.sputniknews.kz/society/20171128/3875675/o-chisle-zhertv- neschastnyh-sluchaev-na-proizvodstve-rasskazal-kasymbek.html
8	Six workers injured following gas explosion at ArcelorMittal Temirtau while one worker killed in separate incident at the company's subcontractor Tekhol Montazh	Azattyq Radio	October 12, 2017	https://rus.azattyq.org/a/28788232.html
9	Arcelor/Mittal Temirtau criticized for poor working conditions after methane leak killed three coal miners	The Diplomat	September 11, 2017	https://thediplomat.com/2017/09/working-conditions-and-ethnic- relations-ignored-in-kazakhstan/
10	Methane release at ArcelorMittal Temirtau's Kazakhstanskaya mine leaves three workers dead	Rosbalt	August 31, 2017	http://www.rosbalt.ru/world/2017/08/31/1642513.html
11	Case related to death of three workers at ArcelorMittal Temirtau's Kazakhstanskaya Mine to be heard by multiple governmental bodies	Kazinform	August 31, 2017	http://www.inform.kz/ru/sformirovana-goskomissiya-po-faktu-gibeli- gornyakov-v-shahtinske_a3060228
12	Three executives of ArcelorMittal Temirtau's Saranskaya Mine in court for fatal accident in November 2016	Kazinform	April 17, 2017	http://www.kazinform.kz/ru/rabotniki-shahty-saranskaya-predstali- pered- sudom_a3017766
13	ArcelorMittal Temirtau found guilty of violating the Labor Code related to fatal accident at 8 Saranskaya Mine	Caravan	November 25, 2016	http://www.caravan.kz/gazeta/tragediya-na-shakhte-saranskaya- vinovat- rabotodatel-386520/
14	Four ArcelorMittal Temirtau workers dead and four hospitalized after accident in Saranskaya Mine	sputnik Kazakhstan	November 13, 2016	http://ru.sputniknews.kz/regions/20161113/1011519/akim- karagandinskoj-oblasti-posetil-semi-pogibshih-shahterov.html
15	ArcelorMittal Temirtau accused of failing to pay wages to 2,000 contract workers due to debts to contractors	IndustriALL Global Union	March 22, 2016	http://www.industriall-union.org/kazakhstan-arcelormittal-debts-lead- to- unpaid-wages
16	ArcelorMittal Temirtau criticized over 25 percent salary cut plan	Kazinform	July 29, 2015	http://www.inform.kz/rus/article/2801472
17	ArcelorMittal Temirtau criticized for using surveillance against employees	Internet-gazeta ZonaKZ	June 08, 2015	https://zonakz.net/view-kompanija-mittala-vedet-tajjnuju-slezhku-v- temirtau.html
18	ArcelorMittal Temirtau suspected of classifying occupational injuries as domestic	kazinform	May 29, 2015	http://www.inform.kz/rus/article/2781249
19	Salary cuts initiated by ArcelorMittal Temirtau ruled illegal	Kazakhskoe Telegrafnoe Agentstvo	April 27, 2015	https://zonakz.net/view-kompanija-mittala-sud-po-zarplate-proigrala- no-khochet-otygratsja-na-tarifakh-cherez-okzhetpes.html
20	ArcelorMittal Temirtau accused of labor law violation	azattyq Radio	February 04, 2015	http://rus.azattyq.org/archive/news/20150204/360/360.html?id=2682 9040
21	ArcelorMittal Temirtau criticized over workplace safety conditions after two workers die in accidents	Megapolis	April 28, 2014	http://www.megapolis.kz/art/Chyorniy_apreldlya_ArselorMittal_Temit au
22	ArcelorMittal Temirtau cited for alleged pay discrimination, health and safety requirements and working hours violations	Interfax-Kazakhstan	March 26, 2014	https://www.interfax.kz/?lang=eng∫_id=expert_opinions&news_id=6 884
23	ArcelorMittal Temirtau and Alliance Policy sued for failing to pay back wages and insurance payments	azattyq Radio	November 19, 2013	http://rus.azattyq.org/content/regressniki-sud-strakhoviye- vyplaty/25172409.html
24	Protest by former employees of Arcelor Mittal Temirtau leaves one protester dead	Interfax-Kazakhstan	November 06, 2013	
25	ArcelorMittal Termirtau accused of understating safety data submitted to insurance company	Kazakhskoe Telegrafnoe Agentstvo	March 05, 2013	http://news.headline.kz/chto_v_strane/arselormittal_temirtau_operiruet_ nedostovernyimi_dannyimi_o_neschastnyih_sluchayah.html
26	Arcelor/Mittal Temirtau and Kazakhmys named as main polluters in Kazakhstan's Karaganda region	Kazakhstan Press Club	November 21, 2012	http://forbes.kz/news/2012/12/22/newsid_13552
27	ArcelorMittal challenges views that accident at its Kazakhstanskaya actually affected workers	Novyi Vestnik	November 20, 2012	http://www.nv.kz/2012/11/20/46602/
28	Kazakhmys, ArcelorMittal, Kazzine, and ENRC criticized for poor working conditions and safety standards at mines in Kazakhstan	Kazakhstan Press Club	November 02, 2012	

The main difference with Vigeo-Moodys data set, is here again, that controversies updates are more numerous, with 28 controversies' update for "R" compared to only 12 for Vigeo-Moodys.

#### IV.2.1.5 - Data from Tengrinews

As explained above, in order to find out whether information providers are able to cover fully the controversies linked to one single company, Arcelor Mittal, in one country, namely Kazakhstan, we will compare the controversy data of different information providers, as explained above, with the data from one large national media source, Tengrinews.kz.

The data from Tengrinews comes from all the results matching "Arcelor" in its internal research tool. From 11/2012 to 06/2019, it is 234 different articles that were found using this research tool. Many of these articles were not directly about Arcelor Mittal but mentioned the name in some ways inside of the article. Therefore, a selection was conducted in order to keep only the article which are directly about Arcelor Mittal in Kazakhstan. This was done through the analysis of the titles and first paragraph of each articles one by one. This process enabled to remove 52 articles from the 234 articles that were not directly about Arcelor Mittal in Kazakhstan, or 22% of the initial findings.

The second step was to group these articles that were about the same events. This had to be done in order to be able to match these news articles with the controversy data of the three information providers. Indeed, information providers formatted their controversy data so that controversy events appear as one event, and then updates. So, we can consider that all the articles of Tengrinews are controversy updates in the sense of information providers. This process enabled to regroup these 182 Tengrinews articles, or controversy updates, into 60 unique controversies. All of these articles are in Russian language.

The Tengrinews articles in Russian and with the title of each controversy in English are presented in Tab 27 below.

Tab 27 – Tengrinews articles about Arcelor Mittal and associated single controversies (1)

Title of the controversy	Controversies	Updates	Articles and date
Social services of Arcelor in			18.06.2019 02:46 Новости Казахстана В Караганде поликлиника переехала в здание бани Жители района ЖБИ в Караганде пожаловались на
Temirtau being critisized	1	1	условия в новом помещении Центра семейного здоровья
Kazakh company will modernize some facilities of Arcelor Temirtau	2	2	28.05.2019 16:06 Новости Казахстана Предприятия Казахстана будут задействованы в модернизации объектов "АрселорМиттал Темиртау" Об этом стало казестно в ходе подписания соглашения между отечественными промышленными производителями и Подольским машиностроительным заводом.
	-	3	12.02.2019 10:56 Новости Казахстана Сагинтаев высказался об аварии на "АрселорМиттал Темиртау" Премьер-министр Бакытжан Сагинтаев высказался об аварии на АО "АрселорМиттал Темиртау", передает корреспондент Tengrinews.kz.
			10.01.2019 10:58 События Озвучены итоги расследования аварии на "АрселорМиттал Темиртау" Итоги расследования аварии на АО
		4	"АрселорМиттал Темиртау" огласили в Министерстве индустрии и инфраструктурного развития
		5	17.12.2018 18:21 Новости Казахстана На восстановленном после пожара газопроводе в Темиртау вновь произошло ЧП На "АрселорМиттал Темиртау" произошел разрыв участка азотопровода, восстановленного после покара, передает корреспондент Tengrinews.kz.
		6	12.11.2018 12:43 Новости Казахстана В "АрсепорМиттал Темиртау" рассказали о последствиях пожара В АО "АрсепорМиттал Темиртау" рассказали о последствиях пожара на комбинате, передает корреспондент Tengrinews.kz.
		7	11.11.2018 10:07 Новости Казахстана ЧП на металлургическом комбинате в Темиртау: начато расследование Министерством по инвостициям и развитию РК создана комиссия по расследованию аварии на металлургическом комбинате в Темиртау, передает корреспондент
		8	11.11.2018 01:22 События Пожар на металлургическом комбинате в Темиртау ликвидирован Пожар на металлургическом комбинате АО "АрселорМиттал Темиртау" ликвидирован, передает корреспондент Tengrinews.kz со ссылкой на официального
Incident in Arcelor Temirtau - Fire	3	9	10.11.2018 22:01 События ЧП на металлургическом комбинате в Темиртау: загорелся газопровод Покар вспыхнул на металлургическом комбинате АО "АрселорМиттал" в Темиртау, передает корреспондент Tengrinews.kz со ссылкой на пресс-службу
Arcelor Temirtau will raise			
salaries of employees from 1st January	4	10	26.10.2018 19:46 Новости Казакстана "АрселорМиттал Темиртау" увеличит зарплату работникам с 1 января 2019 года АО "АрселорМиттал Темиртау" в числе первых из крупных промышленных предприятий поддержало инициативу Президента страны о повышении заработной
		11	25.10.2018 10:44 Новости Казахстана По поручению Президента в Темиртау решат вопросы с нехваткой детских садов, поликлиник и перебоями тепла По поручению Президента в Темиртау решат вопросы с нехваткой детских садов, поликлиник и перебоями тепла.
			07.09.2018 13:33 Новости Казахстана Назарбаев напомнил руководству "АрселорМиттал Темиртау" о социальной ответственности Глава государства посетил одно из крупнейших предприятий Карагандинской области - АО "АрселорМиттал Темиртау", специализирующееся на
Control of Arcelor Mittal by KZ		12	производстве
authorities (ecology, social		13	06.09.2018 20:43 Новости Казахстана "Думаете, просто так работаете?" - Назарбаев "передал привет" Митталу Президент Казахстана Нурсултан Назарбаев в ходе визита в Карагандинскую область высказался о мощностях Темиртауской ТЭЦ, передает корреспондент
services, conditions of work) - fines	5	14	23.08.2018 16:20 Новости Казахстана Аким Карагандинской области встретился с горняками Аким Карагандинской области Ерлан Кошанов спустился в шахту имени Костенко, чтобы при личной встрече с горняками обсудить улучшение условий
Destruction of monument of			24.07.2018 21:04 События Вандалы разбили памятник погибшим шахтерам в Караганде Вандалы разбили памятник погибшим шахтерам в
Arcelor Mittal Work conflict between	6	15	Караганде ради медных букв 10.07.2018 11:47 События Осужденная Анна Адом уволена из "АрселорМиттал Темиртау" Экс-директор по персоналу. АО "АрселорМиттал
employees and HR director		16	Темиртау" Анна Адом уволена из компании, передает корроспондент Tengrinews.kz. 27.06.2018 11:59 События Осужденную Анну Адом из "АрселорМиттал Темиртау" депортируют из Казахстана По решению суда директор по
(justice) Work blocked at Kazakhstan	7	17	персоналу компании "АрселорМиттал Темиртау" - специалист из Украины Анна Адом должна быть депортирована за пределы
Arcelor facilities due to Ukraine strikes	8	18	19.05.2018 00:35 Компании и банки Забастовка охватила один из комбинатов "АрселорМиттал" В Украине из-за забастовки рабочих парализована работа крупнейшего металлургического предприятия страны – "АрселорМиттал Кривой Рог" 2
Work conflict between			8.04.2018 13:22 События Осужденной сотруднице "АрселорМиттал Темиртау" стало плохо перед началом процесса Отстраненная от работы по
employees and HR director	7	19	решению суда директор по персоналу компании "АрселорМиттал Темиртау" - специалист из Украины Анна Адом госпитализирована 09.04.2018 15:03 События На "АрселорМиттал Темиртау" погиб рабочий На "АрселорМиттал Темиртау" погиб рабочий, передает корреспондент
Work Incident - 1 dead	9	20	Tengrinews.kz. 01.04.2018 16: 13 События На "АрселорМиттал Темиртау" разорвало трубопровод ЧП произошло вечером 31 марта
Work Incident no casuality	10	22	26.03.2018 11:40 События Обрушение плит произошло на ТЭЦ "АрселорМиттал Темиртау" На ТЭЦ "АрселорМиттал Темиртау" произошло
work incluent no casuality	10		обрушение плит, передает корреспондент Tengrinews.kz. 12.03.2018 11:28 События Покар на угольной шахте в Караганде: названа предварительная причина На текущий момент продолжаются работы по
Fire in a coal mine of Arcelor		23	локализации очага возгорания, угольная шахта имени Костенко в Караганде работает в режиме жизнеобеспечения, передает 11.03.2018 09:19 События Пожар на угольной шахте в Караганде. В "АрселорМиттал Темиртау" сообщили подробности Возгорание произошло на
Temirtau	11	24	шахте имени Костенко в Караганде, передает Tengrinews.kz со ссылкой на пресс-службу АО "АрселорМиттал Темиртау".
Arcelor Temirtau and competition with Russian metal	12	25	15.02.2018 15:14 Новости Казакстана МНЭ РК о жалобе металлургов РФ: Казакстан добросовестно выполняет обязательства В Министерстве национальной экономики РК прокомментировали появившуюся в СМИ информацию о том, что российские металлурги оспаривают льготные
Fire in the heating system of the			
town managed by arcelor temirtau	13	26	07.02.2018 21:53 События На ТЭЦ-2 в Темиртау произошел пожар Пожар произошел на ТЭЦ-2 в Темиртау утром 7 февраля
Problem of pollution due to the			05.02.2018 17:28 Новости Казахстана "АрселорМиттал Темиртау" привлекли за недогрев на ТЭЦ АО "АрселорМиттал Темиртау" привлечено к
activity of the heating system managed by Arcelor Temirtau	14	27	озодово в 20 повости казакствия креспортиттал темртор привлекии за переревна тод но креспортиттал темртор привленено к административной ответственности за недогрев
Black snow in Temirtau -	14	21	25.01.2018 00:27 Новости Казахстана В Темиртау ломают голову над причиной появления черного снега В Темиртау в очередной раз обсудили
pollution by Arcelor	15	28	экологическую ситуацию в городе, в частности возможные причины появления черного снега 22.01.2018 17:17 Новости Казахстана Батареи почти холодные. Жители Темиртау мерзнут в своих квартирах Жители Темиртау мерзнут в своих
Heating problem in Temirtau	16	29	квартирах
Arcelor raises salaries of miners in Temirtau	17	30	17.01.2018 12:03 Новости Казахстана Шахтерам "АрселорМиттал Темиртау" повышают зарплату АО "АрселорМиттал Темиртау" объявило о повышении заработной платы шахтерам, передает корреспондент Tengrinews.kz со ссылкой на пресс-службу
		31	16.01.2018 18:02 Новости Казахстана Жители Темиртау передали Алие Назарбаевой письмо с жалобами на черный снег Жители Темиртау написали обращение по поводу черного снега и передали его в Астану председателю президиума Ассоциации экологических
		32	15.01.2018 18:10 Новости Казахстана Черный снег в Темиртау: появились снимки со спутника В распоряжении редакции Tengrinews.kz появились снижки со спутника в день, когда в Темиртау появился черный снег.
		33	11.01.2018 18:55 Новости Казахстана Мы задыхаемся от дыма: карагандинцы жалуются на едкий смог в городе Едкий смог и черный снег беспокоят жителей Караганды. Особенно страдают частный сектор и жилые дома, расположенные рядом с ним
		34	11.01.2018 12:08 Новости Казахстана Черный снег в Темиртау: пробы отправили на экспертизу Эксперты-экологи выясняют, чем именно загрязнен черный снег в Темиртау
			09.01.2018 22:31 Новости Казахстана "АМТ" отреагировал на черный снег, появление которого назвали "экологической катастрофой" "АрселорМиттал Темиртау" отреагировал на появление черного снега в Темиртау 09.01.2018 14:23 События Черный снег в Темиртау: Экологи
Black snow in Temirtau - pollution by Arcelor	15	35	проверят все предприятия города Акиматом Карагандинской области создана рабочая группа, которая будет выяснять причину появления черного снега в Темиртау. Об этом корреспонденту Tengrinews.kz сообщили
Work incident - one worker hurt	16	36	привосные и словные портову облакат "АрселорМиттал Темиртау" провески расследование скрытия ЧП Шактинский городской суд обязал АО "АрселорМиттал Темиртау" провести служебное расследование по поводу травмирования рабочего, передает корреспондент Tengrinews.kz.
One Arcelor worker dead in a			03.01.2018 17:15 Новости Казахстана Рабочий скончался при загадочных обстоятельствах в "АрселорМиттал Темиртау" Тело рабочего
strange way	17	37	"АрселорМиттал Темиртау" обнаружено в районе железнодорожных путей на территории предприятия 22.12.2017 20:11 Новости Казахстана Обрушение произошло на одной из шахт "АрселорМиттал Темиртау" На шахте имени Тусипа Кузембаева
Work incident - one worker hurt	16	38	произошло обрушение, пострадал один человек, передает корреспондент Tengrinews.kz.



			21.12.2017 15:59 Новости Казахстана Забастовка в "АрселорМиттал Темиртау": Комиссия завершила работу Как урегулировали трудовой спор
		39	шахтеры и "АрселорМиттал Темиртау", передает Tengrinews.kz со ссылкой на пресс-службу акима Карагандинской
		40	20.12.2017 14:01 Новости Казахстана Забастовку шахтеров прокомментировал гендиректор АО "АрселорМиттал Темиртау" АО "АрселорМиттал Темиртау" (АМТ) не выполнит производственный план на этот год из-за произошедшей забастовки шахтеров, заявил генеральный директор
		41	20.12.2017 11:18 Новости Казахстана Повлияла ли забастовка шахтеров на работу "АрселорМиттал Темиртау", рассказал министр "АрселорМиттал Темиртау" должно выполнить заявленные проектные объемы по добыче и производству металла до конца года, заявил министр по инвестициям
		42	16.12.2017 22:17 Новости Казахстана "АрселорМиттал Темиртау" опубликовал прайс-лист с ценами в своих столовых Пресс-служба "АрселорМиттал Темиртау" опубликовала в своем Facebook прайс-лист столовых компании, где питаются шахтеры.
		43	15.12.2017 23:08 Новости Казахстана Провокаторы пытаются дестабилизировать ситуацию в Карагандинской области - прокурор Прокурор Карагандинской области Марат Сексембаев призвал не поддаваться провокациям и доверять только официальным источникам по поводу
		44	15.12.2017 15:51 Новости Казахстана АрселорМиттал Темиртау отозвал иски к шахтерам АО "АрселорМиттал Темиртау" отозвало иски к шахтерам, передает Tengrinews.kz со ссылкой на пресс-службу компании.
		45	15.12.2017 11:36 Новости Казахстана 4 шахты продолжили работу - АрселорМиттал Темиртау Четыре шахты возобновили работу после забастовки шахтеров в Карагандинской области, передает корреспондент Tengrinews.kz со ссылкой на
		46	15.12.2017 09:05 Новости Казахстана О чем договорились бастующие шахтеры и АрселорМиттал Темиртау Прекративших бастовать шахтеров пообещали не наказывать, передает корреспондент Tengrinews.kz со ссылкой на акимат Карагандинской области.
		47	15.12.2017 01:36 Новости Казахстана Шакта "Саранская" приступила к работе На шакте "Саранская" восстановлен рабочий процесс, передает корреспондент Tengrinews.kz.
		48	15.12.2017 00:38 Новости Казахстана Все бастующие горняки поднялись из шахт - АрселорМиттал Темиртау Все бастующие горняки в Карагандинской области поднялись из шахт, сообщает корреспондент Tengrinews.kz со ссылкой на пресс-службу "АрселорМиттал
		49	14.12.2017 20:31 Новости Казахстана Суд обязал горняков в Шахтинске приостановить забастовку и выйти на поверхность Шахтинский городской суд приостановил забастовку в шахтах "Казахстанская", "Шахтинская", имени В.И Киза 2021 общивания и приостановила в состанования в приостановить забастовку и выйти на поверхность Шахтинский
		50	14.12.2017 18:41 Новости Казахстана Под землей остаются 400 шахтеров - "АрселорМиттал Темиртау" АО "АрселорМиттал Темиртау" прокомментировало снтуацию на шахтах угольного департамента, передает корреспондент Телгіпечсках со осылкой
		51	14.12.2017 15:11 Новости Казахстана Дарига Назарбаева прокомментировала забастовку шахтеров Депутат Сената Дарига Назарбаева прокомментировала ситуацию с шахтерами в Карагандинской области, передает корреспондент Tengrinews.kz.
		52	14.12.2017 13:07 Новости Казахстана "АрселорМиттал Темиртау" через суд пытается признать забастовку шахтеров незаконной Юристы компании "АрселорМиттал Темиртау" написали заявления о признании забастовки шахтеров незаконной, передает корреспондент Tengrinews.kz.
		53	14.12.2017 01:37 Новости Казахстана Гендиректор "АМТ" обратился с важным заявлением к бастующим шахтерам Генеральный директор АО "АрселорМиттал Темиртау" Парамжит Калон призвал шахтеров сесть за стол переговоров, передает корреспондент Tengrinews.kz.
		54	13.12.2017 20:13 Новости Казахстана Забастовка в "АрселорМиттал Темиртау": одному из шактеров потребовалась помощь Горняка, участвовавшего в забастовке на шахте "Казахстанская", подняли на поверхность из-за проблем со здоровьем, передает корреспондент Tengrinews.kz.
		55	1.3.12.2017 18:49 Новости Казахстана "Нет никаких войск и спецназа". Тиникеев встретился с семьями бастующих шахтеров Новый заместитель председателя Федерации профскизов РК Мухтар Тиникеев встретился с женами и семьями бастующих шахтеров, передает корреспондент
		56	13.12.2017 17:58 События Окранник шахты скончался в Караганде Скончался охранник шахты имени Костенко в Караганде 13.12.2017 17:54 Новости Казахстана Бастующие шахтеры просят не приялекать их к уголовной ответственности Бастующие горняки шахты
		57	13.12.2017 17.37 повскл подах гано во гурищие шахтеры просят не привлежать их кулонению повсто вестурищие торники шахты Казахстанская "АрселерМиттал Темиртау" просят не привлежать их к уголовий ответственности 13.12.2017 12:43 Новости Казахстана "Ни одного представителя там нет", Депутат раскритиковал правительство из-за ситуации с шахтерами
		58	Мажилисмен Владислав Косарев подверг критике работу министров из-за ситуации с шахтерами в Карагандинской области, передает корреспондент
		59	13.12.2017 12:23 Новости Казахстана "Эмоции здесь не нужны" - Нигматулин о ситуации с шахтерами Спикер Мажилиса Нурлан Нигматулии попросил общественность дождаться результата переговоров по ситуации с шахтерами в Карагандинской 13.12.2017 12:03 Новости Казахстана "Задержаний нет". В МВД прокоммытировали забыстовку шахтеров Задержаний шахтеров в Карагандинской
		60	обпасти не проводилось 13.12.2017 10:46 События Несколько горняков поднялись из шахт из-за плохого самонувствия Несколько горняков поднялись из шахт
		61	"АрселорМиттал Темиртау" из-за плохого само-изствия, передает корреспондент Tengrinews.kz. 12.12.2017 20:52 Новости Казахстана Урезали все, что могли - бастующие шахтеры "АМТ" о своих зарплатах Бастующие шахтеры из
		62	Карагандинской области рассказали о своих зарплатах, передает корреспондент Tengrinews.kz. 12.12.2017 19:54 Новости Казахстана Настрой очень серьезный - Тиникев о забастовке шахтеров Новый заместитель председателя Федерации
		63 64	профскоюзов РК Мухтар Тиникеев прокомментировал корреспонденту Tengrinews.kz ситуацию с бастующими 12.12.2017 19:31 Новости Казахстана Требования горняков справедливые - член "Атамекен" о забастовке Требования горняков справедливые
		65	12.12.2017 19:25 Новости Казахстана Ждем самого Лакшим Миттала - бастующие шахтеры начали видеофлешиюб В Сети появилось видео с участием сотрудников добывающего предприятия, на котором шахтеры требуют прибытия миллиардера Лакшим Миттала, владеющего "АрсепорМиттал
		66	анадеоцей о простоятиятая 12.12.2017 14:27 События "Нас не устраивает то, что предлагает "АрселорМиттал Темиртау" - Глава профскоза угольщиков Вторые сутки идут переговоры между шахтерами в Шахтинске и руководством "АрселорМиттал Темиртау", сообщает корреспондент Tengrinews.kz
		67	12.12.2017 12:46 Новости Казахстана Более 600 шахтеров "АрселорМиттал Темиртау" остаются под землей - министр Министр труда и социальной защиты населения Тамара Дуйсенова прокомментировала ситуацию с шахтерами "АрселорМиттал Темиртау", передает
Worker strike - condemnation by		68	12.12.2017 09:55 Новости Казахстана Шахтеры "АрселорМиттал Темиртау" продолжают оставаться под землей Шахтеры "АрселорМиттал Темиртау" продолжают оставаться под землей, передает Tengrinews.kz.
the go and Arcelor Work conflict between	18	69	11.12.2017 12:47 События Шахтеры "АрселорМиттал Темиртау" после смены не поднялись на поверхность Более 200 горняков четырех шахт города Шахтинск остаются под землей, сообщает корреспондент Tengrinews.kz.
employees and HR director	7	70	08.12.2017 03:40 Новости Казахстана В Темиртау начался громкий процесс над "всемогущей" начальницей из Украины В Темиртау начался громкий судебный процесс над директором по персоналу АО "АрселорМиттап Темиртау" - специалистом из Украины Анной Адом
Kazakh authorities push for more attention to Arcelor Temirtau problems (syndicates)	20	71	28.11.2017 11:26 Новости Казахстана Сагинтаев поручил обратить внимание на ситуацию в "АрселорМиттал Темиртау" Премьер- министр Казахстана Бакытжан Сагинтаев поручил министерствам и профсоюзам обратить внимание на ситуацию в "АрселорМиттал Темиртау",
6 workers injured - 3 in serious		72	12.10.2017 16:14 Новости Казахстана Врачи рассказали о состоянии пострадавших при взрыве на "АрселорМиттал Темиртау" Три человека доставлены в реанимацию центральной городской больницы Темиртау
condition - explosion at arcelor Temirtau	21	73	12.10.2017 14:29 События Взрыв на "АрселорМиттал Темиртау": 6 человек пострадали Шесть человек пострадали в результате взрыва на предприятии "АрселорМиттал Темиртау" в Карагандинской области, передает корреспондент Tengrinews.kz
			28.09.2017 16:25 Новости Казахстана Оглашены результаты экспертизы по выявлению причин аварии на шахте "Казахстанская" Оглашены результаты государственной экспертизы по выявлению причин внезапного выброса угля и газа на шахте "Казахстанская", передает
3 miners dead in a work incident	22	74	корреспондент 25.09.2017 15:25 Новости Казахстана По миллиону тенге попучат семьи горняков, погибших на шахте "Казахстанская" По одному миллиону тенге
in Kazkhstanskaya mine - Arcelor On dead in a work incident	22	75	получат семыи шахтеров, погибших в результате внезапного выброса метана на шахте "Казакстанская", передает корреспондент 10.09.2017 16:03 События Работник КАZ Minerals скончался от удара током на шахте в ВКО Работник группы компаний КАZ Minerals скончался от
involving a sub contractor of Arcelor temirtau	23	76	10.05.2017 во 05 Собития Разонии коже минетаю Комчанскот удара током на шакте в вког Разонии пруппы компании коже минетаю Комчанскот удара током на Иртышской шахте, передает Tengrinews.kz со ссылкой на официальное
		77	05.09.2017 11:31 Новости Казахстана "Чтобы не повторилась прошлогодняя ситуация". Сагинтаев потребовал отчет по Темиртау и Шахану Премьер- министр Казахстана Бакытжан Сагинтаев потребовал отчитаться от акимата Карагандинской обпасти, чтобы избежать прошлогодних
		78	02.09.2017 15:18 Новости Казахстана В Карагандинской области простились с погибшими на шахте "Казахстанская" В Карагандинской области простились с погибшими на шахте "Казахстанская", передает корреспондент Tengrinews.kz.
		79	01.09.2017 15:26 Новости Казахстана По 10 годовых зарплат выплатят семьям погибших на шахте "Казахстанская" По десять годовых зарплат выплатят семьям погибших на шахте "Казахстанская", передает Tengrinews.kz со ссылкой на пресс-службу АО
		00	01.09.2017 13:28 Новости Казахстана О состоянии троих шахтеров после ЧП на шахте "Казахстанская" рассказали в "АрселорМиттал Темиртау" О состоянии троих шахтеров после ЧП на шахте "Казахстанская" рассказали в АО "АрселорМиттал Темиртау", передает городого повити Телоновичи
		80	корреспондент Tengrinews.kz. 31.08.2017 19-40 Новости Казахстана Аким Карагандинской области посетил семьи потибших на шахте "Казахстанская" Аким Карагандинской области Елоди Кишима постии сомы и потибших на шихте "Казахстанская" использоп репактамита АО "АлорогоМиттел Темитеи"
		81	области Ерлан Кошанов посетил семыи полибших на шахте "Казакстанская" угольного департамента АО "АрселорМиттал Темиртау". 31.08.2017 17:07 Новости Казахстана Уголовное дело начато по факту ЧП на шахте "Казахстанская" По факту ЧП на шахте "Казахстанская" начато досудебное расследование, передает корреспондент Tengrinews.kz.
		83	посудение раследование, передает корреспондент тепритехьх. 31.08.2017 16:03 Новости Казахстана Родные и близкие рассказали о погибших на шахте "Казахстанская" Родные и близкие рассказали о погибших на шахте "Казахстанская", передает корреспондент Tengrinews.kz.
		84	13.08.2017 12:15 Новости Казахстана После ЧП на шахте "Казахстанская" три шахтера доставлены в больницу Трое горняков госпитализированы в областной медицинский центр Караганды, передает корреспондент Tengrinews.kz.
		85	З1.08.2017 10:28 Новости Казакстана Названы имена погибших на шахте "Казакстанская" Названы имена погибших при аварии на шахте Казакстанская" в Карагандинской области, передает Тепугіпемька со ссылкой на пресс-службу Министерства
3 miners dead in a work incident in Kazkhstanskaya mine - Arcelor	22	86	31.08.2017 07:34 События НП на шахте "Арселор Миттал Темиртау": Три человека погибли НП произошло рано утром 31 августа в городе Шахтинск Карагандинской области на шахте "Казажстанская", принадлежащей компании "Арселор Миттал

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Problem of heating in Temirtau due to Arcelor	24	87	27.12.2016 11:01 Новости Казакстана Сагинтаев акиму: Когда будет тепло в домах Темиртау? Холод в жилых домах Темиртау вызвал критику премьер-министра Казакстана.
Conflict with a worker due to			20.12.2016 21:07 Преступность Жительница Карагандинской области решила заминировать шахту из-за зарплаты 14 декабря в акимат города
absence of paiement of salaries Work Incident no casuality in a	25	88	Сарань позвонила женщина и сообщила о запоженном взрывном устройстве на шахте имени Кузембаева. 10.12.2016 11:25 События На шахте "АрселооМиттал Темиртау" произошла авария ЧП произошло примерно в 23.35 9 декабоя на шахте имени
work incident no casuality in a mine	26	89	10.12.2016 11:25 События На шахте "АрселорМиттал Темиртау" произошла авария ЧП произошло примерно в 23.35 9 декаоря на шахте имени В.И.Ленина
		90	23.11.2016 13:50 События Названа причина ЧП на шахте в Караганде В данный момент принято решение отстранить от работы 16 человек, в том числе и директора шахты Саранская Сергея Мустивко.
			14.11.2016 12:53 События По 10 годовых зарплат выплатят семьям погибших в Караганде шахтеров Об этом сообщил министр по инвестициям и
		91	развитию Женис Касымбек. 13.11.2016 14:17 Новости Казахстана Аким Карагандинской области пообещал семьям погибших шахтеров всестороннюю помощь Глава региона
		92	Нурмухамбет Абдибеков посетил семьи погибших горняков шахты "Саранская" 11.11.2016 20:22 События Названа предварительная причина ЧП на шахте в Караганде В АО "АрселорМиталл Темиртау" заявили, что погибшие и
		93	пострадавшие горняки пренебрегли правилами техники безопасности.
		94	<ol> <li>11.11.2016 16:57 Новости Казахстана В Караганде скончался четвертый горняк, пострадавший при ЧП на шахте Второй пострадавший, находившийся в реанимации, уже переведен в обычную палату</li> </ol>
3 miners dead in a work incident in Saranskaya mine - arcelor	27	95	10.11.2016 17:37 События Трое шахтеров погибли в Караганде По предварительным данным, на шахте произошел обрыв подвесной дороги, на которой находилось транспортировочное устройство с людьми.
Work conflict between	7		11.10.2016 12:14 Компании и банки Специалист из Украины стала директором по персоналу компании "АрселорМиттал Темиртау" Анна Адом
employees and HR director Attack of the head of	7	96	входит в число лучших директоров по персоналу Украины.
communication of Arcelor			<ol> <li>07.2016 18:34 События В Темиртау разыскивают напавшего на главу PR-службы "АрселорМиттал" По словам потерпевшей, ей угрожали ножом, избили и пытались душить.</li> </ol>
Temirtau	28	97	
Strange declaration of the head of Arcelor Temirtau	29	98	01.06.2016 03:00 Компании и банки Новый босс "АрселорМиттал Темиртау" очаровал казахстанских журналистов "У меня практически нет животика, только кубики".
Arcelor Temirtau reserve taken by			18.04.2016 23:24 Преступность Четверо мужчин в масках ограбили склад "АрселорМиттал Темиртау" Ограбление было совершено в ночь на 17
4 thieves	30	99	апреля
			06.10.2015 17:06 Компании и банки Девальвация тенге не решает проблем - директор "АрселорМиттал Темиртау" По его словам, регулирование валюты не влияет на уменьшение разницы в производительности казахстанских предприятий по сравнению с российскими конкурентами.
		100	13.08.2015 16:31 Компании и банки "АрселорМиттал Темиртау" опротестует приказ о запрете на понижение зарплаты рабочим В компании
Problems due to lowering		101	продолжают считать понижение оплаты труда рабочим более предпочтительной мерой, чем сокращение численности персонала. 12.08.2015 19:44 Новости Казахстана Новый приказ о понижении заоплаты на "АрселооМиттал Темиотау" признан недействительным Документ
salaries and devaluation of KZT	31	102	12.08.2015 19:44 новости казахстана новыи приказ о понижении зарплаты на крселормиттал темиртау признан недеиствительным документ признали недействительным в соответствии с требованиями Трудового кодекса.
			07.00 2015 M/00 Happensy Kappyersys Cycury and provide Television (Automa Farmer Farmer)
Change of governor of the region - linked to the situation in Arcelor	32	103	07.08.2015 14:00 Новости Казахстана Сменился аким Темиртау Им стал Галым Ашимов
Poisening of kids due to food			01.08.2015 14:57 События Информацию о массовом отравлении детей прокомментировали в "АрселорМиттал Темиртау" Между тем, санврачи
given by Arcelor Temirtau	33	104	продолжают свою работу в лагере, результаты анализов отобранных проб будут известны в установленные сроки. 28.07.2015 20:32 Компании и банки "АрселорМиттал Темиртау" не сможет сократить зарплату работникам без согласования с профсоюзами В
		105	соответствии с действующим законодательством РК, АО "АрселорМиттал Темиртау" не может изменить условия коллективного договора.
		106	28.07.2015 14:56 Личные финансы "АрселорМиттал Темиртау" сокращает сотрудникам зарплату на 25 процентов По информации компании, такое решение было принято в связи с "беспрецедентными условиями рынка".
		107	13.07.2015 19:15 Новости Казахстана "АрселорМиттал Темиртау" отрицает планы продажи активов в Казахстане Сообщение появилось в ответ на
		107	обнародованную в СМИ информацию о таких планах. 23.04.2015 12:54 Новости Казахстана Суд признал незаконным приказ "АрселорМиттал Темиртау" о частичной отсрочке выплаты 25 процентов
Problems due to lowering salaries and devaluation of KZT	31	108	зарплаты шахтерам и металлургам Темиртауский городской суд признал незаконным приказ директора АО об удержании 25 процентов зарплаты сотрудников.
			11.03.2015 19:13 Новости Казахстана Около 300 работников принадлежащей "АрселорМиттал Темиртау" компании готовят иски в суд против
Arcelor attacks unions in justice Arcelor Temirtau sells some	34	109	профсоюза Работники компании требуют выплатить им компенсации за увольнение 10.03.2015 15:11 Компании и банки "АрселорМиттал Темиртау" передает часть цехов в целях снижения затрат На тендер выставлены
facilities to face losses	35	110	шлакоперерабатывающий участок доменного цеха, газонаполнительная станция, автоцех и другие предприятия
Kz gov reimburses taxes to			08.03.2015 03:39 Компании и банки "АрселорМиттал Темиртау" вернули еще один миллиард тенге НДС Это уже второй перевод долга государства перед предприятием
Arcelor Temirtau	36	111	07.03.2015 21:29 Новости Казахстана Шахтеры и металлурги "АрселорМиттал Темиртау" получили зарплату в полном объеме Как отметил
		112	председатель профсоюза угольщиков "Коргау" Марат Миргаязов, опасение в "урезании" зарплаты в дальнейшем сохраняется.
		113	04.03.2015 19:08 Новости Казахстана Инспекция труда подала встречный иск против гендиректора "АрселорМиттал Темиртау" Инспекция требует исполнить предписание и отменить приказ об удержании 25 процентов зарплаты металлургов и шахтеров.
Problems due to lowering			04.03.2015 13:10 Компании и банки Гендиректор "АрселорМиттал Темиртау" проиграл суд областной инспекции труда Гендиректор компании
salaries and devaluation of KZT	31	114	обязан аннулировать приказ об удержании 25 процентов зарплаты рабочих и должен выплатить государству штраф в размере 594 тысяч тенге.
Kz gov reimburses taxes to Arcelor Temirtau	36	115	<ol> <li>19.02.2015 19:39 Компании и банки "АрселорМиттал Темиртау" вернули 4 миллиарда тенге НДС Оставшуюся часть 12-миллиардного долга, как ожидается, выплатят после проверки.</li> </ol>
Problems due to lowering			18.02.2015 12:16 Компании и банки Работникам "АрселорМиттал Темиртау" зарплата выплачена в полном объеме Руководство компании сообщило,
salaries and devaluation of KZT	31	116	что 17 февраля работникам выплачены все имеющиеся начисления по зарплате за январь 2015 года в стопроцентном объеме. 10.02.2015 22:26 Компании и банки Государство вернет "АрселорМиттал Темиртау" 4,1 миллиарда тенге НДС Налоговый департамент по
Kz gov reimburses taxes to			Карагандинской области проверяет наличие государственного долга по НДС в размере 12 миллиардов тенге перед компанией "АрселорМиттал
Arcelor Temirtau	36	117	Темиртау". 09.02.2015 19:30 Новости Казахстана Рабочим "АрселорМиттал Темиртау" выплатят зарплату в полном объеме До 17 февраля руководство
		118	компании обязалось выплатить зарплату металлургам и шахтерам в полном объеме. 06.02.2015 16:43 Новости Казахстана "АрселорМиттал Темиртау" будет обжаловать решение прокуратуры Виджай Махадеван сообщил, что не
		119	будет отменять приказ об удержании с зарплаты шахтеров и металлургов 25 процентов январской зарплаты.
Problems due to lowering			06.02.2015 13:49 Новости Казахстана "АрселорМиттал Темиртау" просит у своих рабочих разрешения на удержание четверти зарплаты Соответствующее письмо с просьбой войти в положение компании металлургам и шахтерам разослал гендиректор предприятия Виджай
salaries and devaluation of KZT	31	120	Махадеван.
Arcelor Temirtau send coal to ukraine	37	121	06.02.2015 07:21 Новости Казахстана "АрселорМиттал" поставляет уголь из Казахстана на Украину для своих предприятий Об этом сообщил источник в Министерстве энергетики РК
			04.02.2015 16:05 Компании и банки Прокуратура признала незаконным сокращение зарплаты в "АрселорМиттал Темиртау" Компания
		122	оштрафована на 300 МРП за нарушение трудового законодательства. 04.02.2015 12:16 Компании и банки Сокращение зарплат в "АрселорМиттал Темиртау" прокомментировала Дуйсенова Министр здравоохранения и
		123	социального развития подчеркнула, что после проверки станет ясно, нарушил ли договор работодатель. 04.02.2015 11:28 Компании и банки Инспекция труда начала проверки в "АрселорМиттал Темиртау" из-за снижения зарплаты Проверка начата по
		124	поручению прокуратуры Карагандинской области.
		125	03.02.2015 13:32 Новости Казахстана Снижение зарплат в "АрселорМиттал Темиртау" профсоюз оспорит в прокуратуре Как отмечает глава профильного профсоюза, решение о сокращении заработной платы руководством компании было принято в одностороннем порядке.
		126	03.02.2015 12:10 Компании и банки Нефтяная компания задолжала сотрудникам более 20 миллионов тенге в Актюбинской области Сотрудники
		120	ТОО "Лайнс Джамп" жалуются на то, что с октября 2014 года не получают заработную плату. 03.02.2015 11:12 Новости Казахстана "АрселорМиттал Темиртау" лишат государственных льгот в случае сокращения зарплаты работникам
		127	Заместитель премьер-министра Казахстана заявил, что если компания будет нарушать трудовые права своих работников, то ее лишат мер государственной поддержки.
Kz gov reimburses taxes to Arcelor Temirtau	31	128	02.02.2015 14:50 Компании и банки Сотрудники "АрселорМиттал Темиртау" недополучат четверть зарплаты Руководство компании также просит
Arcelor Temirtau Employee of Arcelor Temirtau	31	128	правительство РК вернуть 12 миллиардов НДС, невыплаченных государством с 2010 года. 28.01.2015 11:35 Преступность Сотрудников "АрселорМиттал Темиртау" обвинили в краже стали на 30 миллионов тенге Всего разоблачены 11
involved in mafia	38	129	членов преступной группировки
Discussion of the president about			12.12.2014 14:47 Новости Казахстана Металлурги и шахтеры могут пожаловаться Назарбаеву напрямую В ходе встречи были обсуждены основные
			направления деятельности компании в Казахстане.
the workers situation in Arcelor Temirtau	31	130	
the workers situation in Arcelor	31		28.10.2014 19:27 Преступность Стрельбу в машину сотрудника "АрселорМиттал Темиртау" сочли попыткой запутивания В "АрселорМиттал Темиотау" выразили обеспокомнисть иншилентои со стрельбой.
the workers situation in Arcelor Temirtau Mafia intimidation of the head of		131	Темиртау" выразили обеспокоенность инцидентом со стрельбой. 28.10.2014 17:35 Преступность В машину начальника цека "АрселорМиттал Темиртау" выстрелил неизвестный Неизвестный парень, подойдя к
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau	31 39		Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:35 Преступность В машину начальника цеха "АрсеорФиттал Темиртау" выстрепил неизвестный Неизвестный парень, подойдя к передней паскамирской двери, направил на 83-летнего водителя пистолет и выстрепил.
the workers situation in Arcelor Temirtau Mafia intimidation of the head of		131	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:25 Проступность в машину назальника цоза "АреспорМиттал Темиртау" выстрелил некавестный Некавестный парень, подойдя к передней пассажирской двери, направил на 38-летнего водителя пистолет и выстрелил. 24.10.2014 13:27 бутбол Акин Карагандинской области объеснил причены долгов по зарплате ФК "Шактер" По его словам, уровень зарплаты игроков половлят ин выдерживать 3-4 настяда.
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Kz gov reimburses taxes to	39	131 132 133	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:35 Преступность В машину началынка цеха "АрсепорМиттап Темиртау" выстрепил неизвестный Неизвестный парень, подойдя к передней пассамирской двери, направил на 38-летнего водителя пистолет и выстрепил. 24.10.2014 13:27 Футбол Аким Каратандинской области объяснил причины долгов по зарплате ФК "Шактер" По его словам, уровень зарплаты игроков позволяет им выдерживать 3-4 месяца. 8.10.2014 04:01 Новости Казатастна С начала года из "АрсепорМиттап Темиртау" уволились более 700 человек Правозащитники заявляют, что
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Rz gov reimburses taxes to Arcelor Temirtau Arcelor Temirtau fires in mass	39 31	131 132 133 134	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:35 Преступность В машину назальника цеза "АскепорМиттап Темиртау" выстрепил неизвестный Неизвестный парень, подойдя к передней пассамирской двери, направил на 38-летнего водителя пистолет и выстрепил. 24.10.2014 13:27 Футбол Акии Карагандинской области объяснил причины долгов по зарплате ФК "Шактер" По его слован, уровень зарплаты игроков повозолят им выдеранивать 3-4 нестаца. 18.10.2014 04:01 Новости Казакстана С начала года из "АрселорМиттап Темиртау" уволились более 700 человек Правозвщитники заявляют, что инстраниве спациалисты "хабавляются" от шактеров в связи с их возрастом. 41.10.2014 13:11 Новости Казакстана С начала года из "АрселорМиттап Темиртау" уволились более 700 человек Правозвщитники заявляют, что инстранные спациалисты "хабавляются" от шактеров в связи с их возрастом.
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Kr gov reimburses taxes to Arcelor Temirtau Arcelor Temirtau fires in mass employees	39	131 132 133	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 J7:25 Проступность в машину начальника цоза ХарсепорМиттап Темиртау" выстрепил ноизвестный Неизвестный парень, подойдя к перацией пассамирской двери, направил на 38-летиего водителя пистолет и выстрепил. 24.10.2014 J7:27 Футоб лижи Нарагидинской области объекнил причины долгов по зарллате ФК "Шактер" По его словам, уровень зарплаты игрожев позволяет им выдерживать 3-4 месяца. 18.10.2014 04:01 Новости Казакстана С начала года из "АрсепорМиттап Темиртау" уволились более 700 человек Правозацитники заявляют, что инстранные спициалиста" либавляются" от цаватеров в связи с их возрастся Казакстанцев переманивают на работу в Россию Как сообщил вице инистр 13.1 Новости Казакстана С виданток из "СреспорМиттап Темиртау" казакстанцев переманивают на работу в Россию Как сообщил вице инистр 13.1 Новости Казакстана С вещаниста и сим козрастся казакстанцев переманивают на работу в Россию Как сообщил вице
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Rz gov reimburses taxes to Arcelor Temirtau Arcelor Temirtau fires in mass	39 31	131 132 133 134	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:35 Преступность В машину назальника цеза "АскепорМиттап Темиртау" выстрепил неизвестный Неизвестный парень, подойдя к передней пассамирской двери, направил на 38-летнего водителя пистолет и выстрепил. 24.10.2014 13:27 Футбол Акии Карагандинской области объяснил причины долгов по зарплате ФК "Шактер" По его слован, уровень зарплаты игроков повозолят им выдеранивать 3-4 нестаца. 18.10.2014 04:01 Новости Казакстана С начала года из "АрселорМиттап Темиртау" уволились более 700 человек Правозвщитники заявляют, что инстраниве спациалисты "хабавляются" от шактеров в связи с их возрастом. 41.10.2014 13:11 Новости Казакстана С начала года из "АрселорМиттап Темиртау" уволились более 700 человек Правозвщитники заявляют, что инстранные спациалисты "хабавляются" от шактеров в связи с их возрастом.
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Kr gov reimburses taxes to Arcelor Temirtau Arcelor Temirtau fires in mass Fire incident in offices due to employee - justice court Arcelor Temirtau fires in mass	39 31 40 41	131 132 133 134 135 136	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 281.02014 17:35 Проступность в машину макалыника цоза "АрссепорМиттап Темиртау" выстрепил ноизвестный Неизвестный парень, подойдя к передней пассажирской двери, направил на 38-летието водителя пистолет и выстрепил. 24.10.2014 13:27 Футбол Акии Карагандинской области объясния причины долгое по зарплате ФК "Шактер" По его словам, уровень зарплаты игроков позволяет им выдерживать 3-4 местца. 18.10.2014 04:01 Новости Казакстана С начала года из "АрсепорМиттап Темиртау" уволились более 700 человек Правозащитники заявляют, что инстранение специалисты "забавляются" от шактеров в свиси си кводъстоя. 14.10.2014 18:31 Новости Казакстана Воленных из "АрсепорМиттап Темиртау" казакстанцев переманявают на работу в Россию Как сообщил вице- министр оничес специалисты "завитию, этик и сециалистая перемота. 14.10.2014 18:31 Новости Казакстана Воленники из "АрсепорМиттап Темиртау" казакстанцев переманявают на работу в Россию Как сообщил вице- министр ониче всидиисти Казакстана У воленных из "АрсепорМиттап Темиртау" казакстана, в Казакстана. 10.07.2014 10:15 Новости Казакстана Устроившего покар в офисе "АрсепорМиттап Темиртау" шактера в простили Уголовное дело в отношении него было прекращено. 0.07.5.2014 04:42 Компании и банки Массовые увольнения сиковараст "АрсепорМиттап Темиртау" в течение этого года на предприятии планируют
the workers situation in Arcelor Temirtau Mafia intimidation of the head of Arcelor Temirtau Kr gov reimburses taxes to Arcelor Temirtau Arcelor Temirtau fires in mass employees Fire incident in offices due to employee - justice court	39 31 40	131 132 133 134 135	Темиртау" выразили обеспокоенность инцидентом со стрепьбой. 28.10.2014 17:53 Проступность в машину на-мальника цога "АрксопорМиттал Темиртау" выстрепил неизвестный Неизвестный нарень, подойдя к перацией пассакирской двери, направил на 38-летиего водителя пистолет и выстрепил. 24.10.2014 13:27 Футобл окак И Каранзидинской области объекнил причины долгов по зарплате ФК "Цактер" По его словам, уровень зарплаты игроков поволяет ин выдерхивать 34-месяца. 18.10.2014 04/01 Навости Каранстанис Самара на "АрсспорМиттал Темиртау" изопились более 700 человек Правозащитники заявляют, что индистранные специалисты "избавляются" от шактеров в сияхи с их возрастом. 14.10.2014 18:31 Новости Каракстана Укронении на "АрсспорМиттал Темиртау" изопились более 700 человек Правозащитники заявляют, что инистр по инвестицияти и развитию, этик специалистая предлагают лучшие позиция, че в Казакстанае. 02.07.2014 10:15 Новости Каракстана Устроившего пожар в офисе "АрселорМиттал Темиртау" шактера простили Угловеное дело в отношении него было предокциено.

Tab 27 – Tengrinews articles about Arcelor Mittal and associated single controversies (3)

Tab 27 – Tengrinews articles	about Arcelor Mittal and	associated single controversies (4)

r		1	
		139	26.03.2014 14:06 Новости Казахстана Омбудсмен обеспокоен социальной напряженностью на "АрселорМиттал Темиртау" Уполномоченный по правам человека в Казахстане направил соответствующее обращение в адрес предприятия.
		135	
		140	14.03.2014 13:05 Новости Казахстана Причины трудовых конфликтов в "АрселорМиттал Темиртау" назвали в Мининдустрии По словам первого вице-министра индустрии и новых технологий, предприятие провоцирует своих сотрудников на забастовки своей политикой управления.
			14.02.2014 20:38 Новости Казахстана "АрселорМиттал Темиртау" опроверг информацию о массовых увольнениях Руководство компании решило не
		141	сокращать 2500 человек после разговора с акимом Бауржаном Абдишевым. 14.02.2014 18:35 Новости Казахстана Крупнейшие казахстанские компании заявили о повышении зарплат Компании "Казцинк", ENRC и
			"АрселорМиттал Темиртау" распространили сообщение о том, что поддержали поручение Президента РК и увеличат зарплаты своих работников
		142	с апреля. 14.02.2014 14:19 Новости Казахстана "АрселорМиттал Темиртау" начнет увольнять 2500 сотрудников весной 2014 года 500 будут сокращены по
		143	14.02.2014 14: 19 Новости казахстана "Арселормиттал темиртар" начнет увольнять 2500 сотрудников весной 2014 года 500 будут сокращены по аутсорсингу, 500 - уйдут по схеме добровольного увольнения, и 1500 - будут уволены по сокращению штата.
Arcelor Temirtau fires in mass			23.01.2014 18:25 Новости Казахстана Назарбаев обсудил с главой "АрселорМиттал" сокращение штата рабочих Назарбаев и Миттал рассмотрели
employees	40	144	аспекты участия компании в развитии металлургической отрасли страны, деятельности комбината в Темиртау, а также реализации различных инвестиционных и социальных проектов.
One dead in a fire at the office of Arcelor Temirtau	43	145	09.01.2014 15:31 События Самосожжение в Караганде: "АрселорМиттал" оплатит похороны бывшего сотрудника Предприятие перечислит организаторам похорон 64 тысячи тенге
Arcelor Temirtau Arcelor Temirtau fires in mass	43	145	организаторам похорон оч тысячи тенге 26.12.2013 18:05 Компании и банки Штат "АрселорМиттал Темиртау" может уменьшиться на 2500 человек в 2014 году Одной из причин сокращения
employees	40	146	штата "АрселорМиттал Темиртау" станет закрытие некоторых невостребованных производств.
Areclor against Kz Unions	44	147	19.12.2013 21:14 Компании и банки Лакшми Миттал попросил казахстанских рабочих затянуть пояса Профсоюзы: "Мы в недоумении от такой
_	44	147	наглости". 14.11.2013 13:56 Новости Казахстана Регрессники "АрселорМиттал Темиртау" получат свои выплаты до 1 декабря По словам мажилисмена
Problem with paiement of	45	140	Мухтара Тиникеева, совместными усилиями с созданной по распоряжению премьер-министра рабочей группой также удалось решить проблему
salaries at arcelor temirtau Kz authorities with Arcelor	45	148	разницы в заработных платах у рабочих. 06.11.2013 14:30 Новости Казахстана Исекешев прокомментировал письмо Лакшми Миттала Назарбаеву По словам Асета Исекешева, принят
discussion and problems	46	149	совместный план действий по дальнейшей работе компании "АрселорМиттал Темиртау" в сотрудничестве с госорганами. 0
		450	5.11.2013 22:26 События Скончался пострадавший при пожаре в офисе "АрселорМиттал Темиртау" шахтер Скончался шахтер-регрессник,
		150	пытавшийся потушить возгорание в коридоре угольного департамента АО "АрселорМиттал Темиртау" в Караганде. 25.10.2013 18:52 События Шахтеры-регрессники "АрселорМиттал Темиртау" поддержали поджегшего офис товарища Подчеркивается, что ЧП в
			офисе "АрселорМиттал Темиртау" "произошло по единственной причине - крайне пренебрежительного, если не сказать хамского, отношения к
		151	нуждам инвалидов". 18.10.2013 10:48 События Из-за поджога в офисе "АрселорМиттал Темиртау" возбуждено уголовное дело Наказание предусматривает
		152	исправительные работы до двух лет, ограничение свободы до четырех лет либо лишение свободы на тот же срок.
		153	17.10.2013 14:34 События Два человека пострадали из-за "коктейля Молотова" в офисе "АрселорМиттал Темиртау" Двое охранников получили ожоги рук при тушении пожара, который устроил один из регрессников.
One dead in a fire at the office of			17.10.2013 13:23 События Бутылку с зажигательной смесью бросил регрессник в офис "АрселорМиттал" в Караганде Инвалид утверждает, что
Arcelor Temirtau	43	154	хотел совершить акт самосожжения, так как у него нет денег, чтобы заплатить за кредит. 27.09.2013 15:37 Новости Казахстана Выплаты пособий регрессникам от страховой компании добивается "АрселорМиттал Темиртау" Речь идет о
Specific problem of paiement and		155	сумме в 365 миллионов тенге
insurance paiement of workers by Arcelor	47	156	10.09.2013 17:45 Новости Казакстана На "АрселорМиттал Темиртау" завели дело за невыплату пособий шахтерам-инвалидам Уголовное дело возбуждено за уклонение от исполнения решения суда о выплатах пособий регрессникам.
Incident in Arcelor Temirtau - no		150	02.09.2013 20:55 События Пожар произошел на заводе "АрселорМиттал Темиртау" Произошло возгорание трансформатора на ГПП-9.
injuries - fire	48	157	Пострадавших нет
Specific problem of paiement and insurance paiement of workers by	47	158	<ol> <li>22.08.2013 15:13 События Около 100 регрессников "АрселорМиттал Темиртау" вышли на митинг в Караганде Участники акции требуют выплаты компенсаций.</li> </ol>
Arcelor Temirtau fined for		150	14.08.2013 17:16 Новости Казахстана Суд снизил "АрселорМиттал Темиртау" размер экологического штрафа "АрселорМиттал Темиртау" в суде
ecological problems	49	159	добился снижения суммы штрафа за нанесенный вред окружающей среде с 504 миллионов тенге до 340,5 миллиона тенге
No more medical checks for			09.08.2013 18:14 Компании и банки Шахтеры "АрселорМиттал Темиртау" вынуждены спускаться под землю без медосмотра На восьми угольных шахтах предприятия шахтеры вынуждены спускаться под землю без предеарительного медицинского осмотра из-за того, что работа медлунктов
miners at Arcelor temirtau	50	160	приостановлена.
Work incident - no injuries, but		161	16.07.2013 19:26 Новости Казахстана Ахметов поручил провести технологический аудит на "АрселорМиттал Темиртау" Технологический аудит можно провести в течение 2-3 месяцев.
misfunctionning of material			полно провести в течение 2-3 несяцев. 11.07.2013 17:16 Компании и банки Нарушения при строительстве трубы привели к крупной аварии на "АрселорМиттал Темиртау" Вместо
which is not safe (economies)	51	162	огнеупорного кирпича использовался другой материал.
		163	28.06.2013 10:39 Новости Казахстана На "АрселорМиттал Темиртау" введены в работу 4 коксовые батареи Аким области заверил, что все проблемные вопросы на месте аварии решаются, технические мероприятия идут по плану и будут исполнены в срок.
		164	27.06.2013 11:28 События Причины аварии на "АрселорМиттал Темиртау" объявят через 10 дней На прежний уровень производства предприятие выйдет до 20 июля.
		104	выядет до 20 июля. 27.06.2013 08:20 События На "АрселорМиттал Темиртау" произошла крупная авария По поручению премьер-министра РК Серика Ахметова на
Large incident - no one injured	52	165	место производственной аварии выехал вице-премьер - министр индустрии и новых технологий РК Асет Исекешев. 3
			0.05.2013 13:50 Новости Казахстана АО "АрселорМиттал Темиртау" обязали выплатить страховку своим работникам Минтруда и Генпрокуратура
Arcelor temirtau obliged to pay insurance to workers by Kz courts	53	166	обязали компанию возобновить страховые выплаты рабочим в течение трех дней, предупредив об уголовной ответственности.
			05.04.2013 16:56 Новости Казахстана Родные погибшего на шахте "АрселорМиттал Темиртау" до сих пор ждут компенсацию Страховая компания
3 workers dead in an explosion at arcelor temirtau	54	167	только вчера подготовила документы и обещала ежемесячно выплачивать компенсацию жене и сыну погибшего в размере его месячной зарплаты
Court process between Arcelor		107	03.04.2013 21:17 Компании и банки "АрселорМиттал Темиртау" проиграл суд профсоюзу угольщиков С компании "АрселорМиттал Темиртау"
and unions	55	168	взыскано в пользу профсоюза угольщиков "Коргау" 53,5 миллиона тенге.
Mass lay off workers at arcelor			06.03.2013 16:47 Компании и банки Для 3 тысяч сокращенных работников "АрселорМиттал Темиртау" открыты 122 вакансии Сокращенным
temirtau Court process between Arcelor	56	169	работникам предприятия "АрселорМиттал Темиртау" помогут с помощью городского бюджета и программы "Занятость-2020".
and unions	55	170	06.03.2013 16:40 Компании и банки Профсоюз угольщиков подал в суд на "АрселорМиттал Темиртау" Причиной стало то, что компания не хочет выделять профсоюзу средства на проведение спортивных и культурно-массовых мероприятий.
			26.02.2013 19:03 События На заводе "АрселорМиттал Актау" расследуют причины пожара В результате пожара на трубном заводе 22 февраля
		171	пострадали три человека 23.02.2013 19:45 Новости Казахстана 2,5 миллиона тенге выплатят семье погибшего на заводе "АрселорМиттал Актау" 1,5 миллиона тенге семья 23-
		172	летнего погибшего получит по утере кормильца
		173	23.02.2013 13:29 Новости Казахстана Скончался один из пострадавших при пожаре на заводе "АрселорМиттал Актау" Электрик 1989 года рождения, который был госпитализирован с 95-98 процентов ожогов тела, скончался в реанимации час назад.
			23.02.2013 10:20 События Состояние двух пострадавших при пожаре на "Арселор Миттал Актау" крайне тяжелое Один из пациентов получил ожог
3 workers dead in an explosion at		174	электрической дугой и пламенем. У мужчины обширно термический ожог 98 процентов тела, второй пострадавший получил ожог верхних дыхательных путей
arcelor temirtau	54	174	декательных путен 22.02.2013 14:58 События Три человека пострадали при взрыве на заводе "Арселор Миттал Актау" Инцидент произошел на трубном заводе
Court process between			23.01.2013 17:24 Новости Казахстана "АрселорМиттал Темиртау" прокомментировал обращение шахтеров в суд Шахтеры АО "АрселорМиттал
employees and Arcelor - to		176	Темиртау" не направляли компании предложения о проведении переговоров по коллективному трудовому договору, заявили в компании. 23.01.2013 12:38 Новости Казахстана Шахтеры подали в суд на "АрселорМиттал Темиртау" Сотрудники компании подали исковое заявление в суд,
reduce workers rights	57	177	требуя внести дополнения в коллективный трудовой договор.
70% of pollution in the region comes from Arcelor Temirtau	58	178	22.12.2012 16:33 Новости Казахстана В Карагандинской области скопилась треть производственных отходов Казахстана 70 процентов выбросов вредных веществ в регионе приходится на "АрселорМиттал Темиртау" и "Казахмыс".
Arcelor ends the indexation of	56	1/8	
workers salaries to the inflation			16.11.2012 21:43 Компании и банки "АрселорМиттал Темиртау" отменит ежегодную индексацию зарплаты Правление АО "АрселорМиттал Темиртау" решило прекратить практику обязательной ежегодной индексации заработной платы на уровень инфляции.
rate	59	179	сколиску рампистрафитите практику халанталини алагадния индаксация зарахития плата из урасно инфлация.
Incident in a mine - workers			07.11.2012 13:23 События Оставшиеся под завалом на шахте горняки в Карагандинской обпасти спасены Инцидент произошел утром 7 ноября на шахте "Казахстанская" угольного департамента АО "Арселор Миттал Темиртау" в Шахтинске.
blocked in a mine (saved)	60	180	
Attacks on a local journal of temirtau - arcelor implication ?	61	181	07.11.2012 13:01 События ВИДЕО: По факту поджога редакции газеты в Темиртау возбудили уголовное дело Утром 7 ноября в редакцию газеты "Зеркало" неизвестные забросили две бутылки с зажигательной смесью
Incident in a mine - workers			07.11.2012 09:28 События Четверо горняков остались под завалами на шахте в Карагандинской области По данным спасателей, с горняками
blocked in a mine (saved)	60	182	налажена связь "путем перестукивания по металлическому трубопроводу".
Total	60	182	
Total	00	182	1

The number of controversy update in the Tengrinews data set is much more numerous than in the information provider data set. This is because news articles and media in general follow the situation linked to events (or controversies) day by day or even hours per hours, which is not the case for information provider, which very often include a controversy update days or even weeks after it happened, after having assessed the materiality and the reality of this controversy based on media sources.

# IV.2.2 - Results of the comparison between information providers and local media source

After having presented the data sets and how they were selected and formatted, the comparison between the four data set was conducted. The comparison process was conducted the following way:

Each information providers controversy was matched with Tengrinews identified controversies. This was done by analyzing first the title and the date of the controversy to analyze whether this was matching or not. If necessary, the detailed information provided in the sources given by information providers and by the complete articles of Tengrinews was compared.

The results of this comparison are presented in the Tab 28 below.

Tab 28 – Results of the comparison of controversies between the Kazakh media source Tengrinews, Vigeo-Moodys, "S" and "R" controversy database on Arcelor Mittal in Kazakhstan

	Identified in Tengrinews	Vigeo- Moodys	Database "S"	Database "R"
Number of controversies	60	12	8	16
% of Tengrinews		20,0%	13,3%	26,7%
Number of controversies with employee death	8	3	2	7
% of Tengrinews		37,5%	25,0%	87,5%
Number of controversies on work injuries and incidents (including death)	19	4	2	9
% of Tengrinews		21,1%	10,5%	47,4%

Out of 60 single controversies found through articles of the Kazakh media source Tengrinews, only 12 of these were included in Vigeo-Moodys database, 8 in "S" database and 16 in "R" database. All of the controversies in each of the database were found matching with controversies identified on Tengrinews. This proves a first point: that a Kazakh based media source provides all the information about the controversies. Even if Kazakh press freedom is very low, all the information is provided in its national media system, only looking at one single media source of the country. This confirms that the argument to justify the use of outside (from more developed and "free" countries) media sources by saying that media in one given country is not covering everything, does not hold. Therefore, it seems not justified to use sources based in the UK or the USA to source information about a controversy in Kazakhstan, as each of the information providers reviewed here does.

The low percentage of controversies covered by the different information providers which is not above 26% for any of them compared to the total number of controversies covered by a local media source such as Tengrinews, confirms that information providers miss many controversies. The high concentration of sources that this study described about the Vigeo-Moodys database is therefore a threat for investors willing to make sure that they get all the information about the issues linked with one company into which they are interested to invest. The controversies covered by Tengrinews are not all the most material to Arcelor Mittal, and information providers filter these controversies. This might therefore explain why such a small number of controversies found in Tengrinews data is covered by the three different information providers studied here.

In order to go further into details, and make sure that information providers actually miss material information, that ought to be included as controversies, we looked at two categories of very material controversies. First the controversies which conducted to the death of at least one employee of the company. This is an extreme event showing that the working conditions are dangerous and that the company is failing to protect the basic rights of their employees. Second, the controversies including the incidents such as fire, blasts, or destruction of some facilities in some ways that conducted to workers injuries including death. This second category is less material, but still is linked to employee's safety and are very material to the company.

The results still point to the same conclusion and validate the hypothesis that information providers with their highly concentrated media source usage, miss many important controversies.

Out of 8 controversies including the death of at least one employee identified in Tengrinews data, only 3 were reported by Vigeo-Moodys, 2 by "S" and 7 by "R". When going to work incidents including injuries and death, the gap is even wider between what Tengrinews reports and what information providers report. Out of 19 controversies about work incidents including workers injuries and or death, only 4 were reported by Vigeo-Moodys, 2 by "S" (only the two same as for death), and 9 by "R".

This is interesting to notice that "R", which is the only one of the three using Russian language media sources, is the one with the best result compared to the two others. This actually confirms that not using local language media source leads to miss out controversies.

The hypothesis of this case study that investors following closely one company and what this company is doing around the world, will not get all the information on controversies about this company if it has operations in non-English-speaking countries, is therefore fully validated. Concentration of media sources is a threat for investors, as this leads to miss key information on a company's activities, such as death of personnel or serious work incidents.

# V – Conclusion

This study first showed the concentration of media sources used by an information provider, confirming the initial hypothesis. Not only a concentration in a few media sources such as Reuters or Bloomberg, but also a geographic concentration, with media sources mainly based in the most developed countries. This geographic concentration is also a concentration of language, indeed a staggering majority (more than 90%) of the sources used in the financial sector are in English language, and when not in English in the main European languages such as French, Spanish or German. Languages of the developing world are fully forgotten, and if you are a media writing in another language than these, you can be sure that your information will go nowhere. This is also a concentration in a few types of media, namely business media, which are media targeting precisely the financial sector, made for them, written with their world, with the same views of the world and with the same interests.

This study also showed that there is no logic behind this concentration as it only leads to information losses for information providers and investors. Indeed, by not considering media based outside of the developed world and written in other languages than the few western European languages, many information about companies, never get to the information providers and down to the investor.

This study demonstrated that investors, especially those trying to be responsible, should be aware of the need to diversify their information sources, especially when it comes to media sources. Indeed, the quality of the work of information providers mentioned in this study is rather poor, and leads to missed information, simply because they use a few sources, and are not themselves journalists trying to verify information, being therefore less reliable than many media sources.

Of course, a more comprehensive study of how a financial investor uses different information sources would be further needed in order to confirm the findings of the present study that only focuses on one information providers. This should also include a more detailed study on how an investor spends money for information and where this money goes.

Indeed, the main effect of the media sources concentration in the usage of the financial sector is the financing of the media. In a context of deep crisis of the media sector because there is no more a viable economic model for media, the fact that the financial sector uses and finances only a few media is not only a threat for themselves as they don't get all the information they actually need, but also to the entire society, as media are selected only if they fit for the financial sector, and not for the entire society. This fuels even more the divide between the media and the populations, which is one of the main foundations of the latest populist wave from Europe to the Americas.

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