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Sustainability disclosure and a legitimacy crisis. Insights from two major cruise companies

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Abstract

The main aim of this paper is to analyse company sustainability disclosure in case of a legitimacy crisis. This work sets out to investigate how the negative externalities of an event reported widely in the media, such as the sinking of the Costa Concordia class cruise ship, have affected sustainability communication, for not only Carnival Corporation & PLC (the parent company of Costa) but also its most direct competitor Royal Caribbean Cruises Ltd. The paper relies on text analysis focusing on the sustainability reports of the two major companies (in terms of market share) in the cruise sector. Authors compared the reports of Carnival Corporation & PLC and its most direct competitor for a five-year period using text mining techniques. Results indicate that such an event with social and environmental negative externalities, dominating international media and capable to bring discredit in the eyes of stakeholders engenders a change in the sustainability communication of both the involved company and its competitor. Thus, repercussions are larger than one might suppose. Moreover, both companies reduced the amount of information disclosed as a strategy to influence the perception of their audience, demonstrating that the provision of justifications, explanations and announcements of new sustainable policies (which increase the quantity of information) is not a predictable reaction. This paper undertakes empirical research on the sustainability reports of cruise line companies - which have been largely overlooked - and contributes to better understand company sustainability reporting praxis after an industrial disaster.

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Keywords: Cruise lines, Sustainability reports, Text mining, Legitimacy theory, Tourism, Industrial Disaster.

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Introduction

The cruise sector is one of the fastest growing and most dynamic segments of the entire

tourism and leisure travel market (Cruise Market Watch, 2015; Xiao Dong, Xiao Rong, &

148 RESEARCH PAPER

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Xue Gang, 2015). However, cruise holidays are labelled as a unsustainable typology of tourism (Butt, 2007). The growth of the cruise sector (for example, the European cruise market grew from 3.4 million passengers in 2006 to 5.5 million passengers in 2010 according to CLIA Europe Statistics 2014) highlights a serious problem of sustainability in terms of negative environmental and social impact-because the growing demands from new passengers requires the construction of increasingly large ships, which in turn have increasing impacts on the marine environment and the cruise destinations (Bonilla-Priego, Font, & Pacheco-Olivares, 2014; Brida & Zapata, 2009; Johnson, 2002; Klein, 2011; Wood, 2000).

The categories of eco-justice and ecoefficiency (Bebbington & Gray, 2001; Young & Tilley, 2006) are hard to apply to the cruise context, when we consider that, during navigation, a ship stops in a port for a limited period to load goods and offload waste. A pay-off is therefore negative generated between the resources taken and the waste producing inefficiency in sustainability. Moreover, local communities perceive a worsening of their own quality of life when they encounter affluent tourists that waste the local scarce resources (Jordan, Vogt, & DeShon, 2015), Actually, cruise tourists and owners are located in countries in the north of the world, while the most popular routes are those of the southern seas (i.e. Caribbean islands), giving rise to further disparity in the distribution of wealth and negative externalities. Additional social concerns relate to changes to indigenous value systems, traditional lifestyles and behaviours at ports of call, to food safety and health for passengers and to working conditions for crew members (Jones, Hillier, & Comfort, 2016).

In response to the increasingly strict environmental regulations and the social and political pressure concerning these topics, cruise companies have enhanced the level of voluntary reporting on topics relating to social, environmental and economic responsibility, starting to produce reports dedicated to social responsibility and sustainability, which are usually available on corporate institutional websites (Jones et al., 2016; Morhardt, 2010),

As explained by Bebbington, Larrinaga, and Moneva (2008) and in line with the theoretical basis of the legitimacy theory (Adams, Hill, & Roberts, 1998; Deegan, 2002), voluntary reporting on sustainability topics is driven by the aim of managing corporate reputation and legitimacy, as well as the risk linked to negative events. Thus, sustainability reports can be used as a managerial tool and their content changed according to the companies' specific purposes. For the above-mentioned reason, it is worthwhile to understand what happens to sustainability communication when a company is responsible for an event with highly negative repercussions on both the environment and the society. Previous studies have attempted to describe this situation (Harlow, Brantley, & Harlow, 2011; M. R. Lee & Blanchard, 2012; Matacena, 2010; Michelon, 2012; Sorensen, 2012; Volo & Pardew, 2013) but there are no common conclusive findings. Thus, this work aims to contribute to existing research using the case of a huge event with negative externalities and widely reported in the media, such as the sinking of the ship named Costa Concordia, to analyse possible changes occurred in the sustainability communication of its holding company Carnival Corporation & PLC (CCL) and its most direct competitor Royal Caribbean Cruises Ltd (RCL).

The analysis of the sustainability praxis, before and after, the wrecking of Costa Concordia is pointed out to answer the following questions:

- RQ1: Does the sustainability disclosure of CCL change after the occurrence of the industrial disaster of Costa Concordia?
- RQ2: (To what extent) does the industrial disaster affect the sustainability disclosure of CCL's main competitor?

The research focuses on RCL and CCL because these two companies alone control around two thirds of the worlds' passenger capacity. According to Cruise Market Watch (2015), CCL has the majority of the market shares with 48% of passengers and 42% revenues, while RCL ranks second with 17% of passengers and 14% of revenues worldwide.

The wrecking of the Costa Concordia is an important event for the legitimacy of the whole

sector because it is not just a service failure (Skaalsvik, 2011); it is a tragic event affecting both the passengers and the environment and which implies the responsibility of the crew and management inadequate organisational procedures of navigation and human and environmental safety. The episode represents the paradigm of the crises and it had a huge media impact on the cruise sector due to the way in which it occurred. We have therefore hypothesised the need for managers to re-establish the trust in the ability of these companies and their personnel to manage social and environmental sustainability matters а modified communication sustainability documents.

The theoretical basis of this research is presented in the second paragraph. The third paragraph introduces the concept of text mining, a text analysis method used to automatically detect hidden information in data (Tan & Lambrix, 2009) to create interpretations or analytical models that explain trends in text data (Romero, Espejo, Zafra, Romero, & Ventura, 2013; Romero, Ventura, & García, 2008). The results of the analysis are presented in paragraph 4. The final paragraph examines the evidence obtained from data analysis, the implications, limitations and possible future developments of the research.

Literature Review

Sustainability concerns and sustainability reporting of cruise companies

As predicted by Page (1987) in the late 1980s. academic research on the cruise sector has seen rapid development over the past few years, in step with the growth of the sector itself. Among others, a topic gaining in importance is the relationship between the cruise business and society (Papathanassis & Beckmann, 2011). The impact of cruise lines on people and the society is becoming a relevant issue because the relative increase in the size of the ships and the volume of visitors crowding the ports and the nearby tourist destinations, has brought new demands on infrastructure (Jones et al., 2016). The local authorities and port management authorities are faced with the need to tackle a situation which generates not only economic problems (e.g. assessing the costs and benefits of port modernisation projects), but also has huge social and environmental repercussions.

The cruise ship is not a closed system. When it docks, it exchanges resources and waste with local operators, causing various environmental and social problems (Brida & Zapata, 2009; Butt, 2007; Cloesen, 2003). Its arrival implies an over-use of water and other scarce resources, which are supplied to the ship and thus taken from the local population (Bonilla-Priego et al., 2014; Jordan et al., 2015). Often the ship transit corridors are created to the detriment of the coral reefs, the destruction of which leads to a reduction in marine life and therefore damages the local fishing and other connected economies (Erftemeijer, Riegl. Hoeksema. & Todd. 2012). The socioenvironmental impact of cruises is huge, above all when the itineraries cover small islands and places marked by a delicate ecosystem (Cloesen, 2003; Dale & Robinson, 1999). Moreover, the presence of the ship and its passengers can trigger psychological and social problems for the local communities. which encounter wealthy tourists wasting resources and may perceive a worsening of their own quality of life due to the increase in this kind of tourism (Jordan et al., 2015). Lastly, cruise tourism is not always economically viable for the destinations it reaches. As demonstrated by the case of the Caribbean (Bresson & Logossah, 2011), this type of tourism reduces the number of visitors staying locally, and therefore replaces (rather than integrates) traditional tourism which usually has greater positive externalities on the local context. Equally important is the danger deriving from the creation of asymmetric power structures, where local operators and the government authorities of the countries of destination, often with scarce financial resources, depend on the cruise operators and other foreign suppliers to create infrastructure and develop local tourism (Jordan et al., 2015; D. Lee. Hampton. & Jevacheva. 2015: Lester & Weeden, 2004).

Cruise companies seem to be quite aware of the impact of their activities on the society, environment and economy of the countries of destination as well as the countries of origin. For example, in their analysis of materiality, several issues are acknowledge by RCL and CCL (Jones et al., 2016). However, to tackle the demands for closer attention to social aspects, these companies are more prone to running philanthropic projects, funding schools and hospitals, aiming to ensure the social legitimacy of their activities rather than to implement long-term sustainable policies (Weeden, 2015). With reference to the whole sector, the general level of sustainability disclosure is still low (Font, Guix, & Bonilla-Priego, 2016). The study carried out by Bonilla-Priego et al. (2014) on 29 cruise companies indicates that less than half of these produce a sustainability report. The major international willing brands are more to publicly communicate the adoption of CSR policies in specific reports, while the other companies mainly use their own website, where the information transmitted is however quite scarce (De Grosbois, 2016b). There is therefore a significant gap between the majority of cruise operators and the few best in class (i.e. RCL and CCL), who follow the Global Reporting Initiative (GRI) guidelines in drafting their reports (Jones et al., 2016) and have received awards and recognitions, such as the inclusion in the Dow Jones Sustainability Index (DJSI).

As regards the topics covered, the reports focus on environmental aspects, such as water and fuel consumption and gas emissions, aiming primarily to identify cost reduction practices. Information regarding the company relationship with society mainly refers to compliance with international rules, while there is little attention to the local communities where ships run. The aspects concerning shareholders receive attention, while reports scarcely consider other stakeholders' demand. The categories of weaker stakeholders do not seem able to exert sufficient pressure on the companies surveyed. For example, issues of employment quality and diversity and accessibility are reported to a much lesser extent (De Grosbois, 2016a, 2016b).

Legitimacy theory and changes in the level of disclosure after a crisis

Cruise company sustainability reporting appears to be interpretable mainly in the light of the *legitimacy theory* (Bonilla-Priego et al., 2014). The *legitimacy theory*, while quite similar

and often used in a complementary manner to stakeholder theory (Deegan, 2002). the ascribes the disclosure of socio-economic information to the will of managers to activate communication strategies in order to acquire, maintain or regain the legitimacy of their business in society (Cho & Patten, 2007). Legitimacy and stakeholder theory are both socio-political, as they are linked to the relationship between companies and members of the external society (Freeman, Rusconi, Signori, & Strudler, 2012). They contrast purely economic theories, such as the agency theory and the resource-based view theory, according to which information is disclosed because it is economically rational (Cormier, Magnan, & Van Velthoven, 2005).

Used above all from the 1970s to the present (Dowling & Pfeffer, 1975; Sethi, 1979), the roots of the legitimacy theory lie in the works of Weber and Parsons (Suchman, 1995). This theory represents one of the most common perspectives used in corporate social responsibility accounting and reporting literature to explain the adoption of social reporting practices by organizations (Hopwood, Mahadeo. Oogarah-Hanuman, 2009: Soobaroven, 2011; Monfardini, Barretta, & Ruggiero, 2013), although some authors have underlined the need for further study (Deegan. 2002; Tilling, 2004). The underlying idea is that companies need to establish congruity between the social values associated to their activities and the commonly accepted rules of conduct in the broader social system they belong to (Cho & Patten, 2007). To run their business, companies conclude a kind of "social contract". When there is a lack of congruity because society's expectations are not satisfied, there is a problem of legitimacy for the companies' activities, which could compromise the abovementioned contract and consequently make it impossible for the company to obtain the financial, human and environmental resources which it needs (Summerhavs & De Villiers. Following the strategic 2012). approach (Dowling & Pfeffer, 1975; Tregidga, Milne, & Kearins, 2006), which conceives legitimacy as an aspect which can in some way be controlled by the managers, it is assumed that companies can alter their status of legitimacy, mainly which affects through disclosure, the perception of the parties targeted by the disclosure itself (Aerts & Cormier, 2009).

When an accident, event or critical situation occurs, which may generate a problem of legitimacy, managers try to respond to the solicitations of external society - or those raised by the media (Brown & Deegan, 1998; Gillet-Monjarret, 2015; Islam & Deegan, 2010; Prokofieva & Clark, 2014) - by introducing specific communication strategies. Various events can generate a legitimacy gap, from an environmental accident with or repercussions (Deegan, Rankin, & Voght, 2000), to the demand or pressure from government authorities to adopt new social standards and practices (Ahmed Haji, 2013; De Villiers & Van Staden, 2006; Deegan & Rankin, 1996), from a legal action taken against the company, to specific activities undertaken by NGOs (Deegan & Islam, 2014; Deegan et al., 2000). Studies that relate socio-environmental disclosure to a critical event concern mainly companies in the Oil & Gas sector (Cho. 2009; Islam & Islam, 2011; Summerhays & De Villiers, 2012) as well as sectors that are more vulnerable to environmental risk such as utilities and the chemical sector, or again companies exposed to reputational risk, such consumer goods manufacturers financial corporations (Gillet-Moniarret, 2015). Equally relevant is the research in the mining (De Villiers & Van Staden, 2006) and clothing sectors (Islam & Deegan, 2010), whose operations usually located in developing countries are criticised for their poor working conditions which do not always guarantee the respect of human rights.

Applying the legitimacy theory to analysing corporate reports (mainly annual reports and sustainability reports) suggests that in the event of an accident or other negative event, company involved reacts to repair legitimacy either providing explanations or excuses to what happened or denving the problem and its responsibility for the event (Suchman, 1995). In the first case, the company opts for an image enhancement strategy translating into the increase in information on the positive results achieved and company's social values. In the last case, the company opts for a disclaimer strategy,

which consists in stating that the company is not responsible for the accident or event and therefore for its negative consequences. In both cases, the response usually leads to an increase in the amount of information produced (Cho. 2009; De Villiers & Van Staden, 2006; O'Donovan, 2002; Summerhays & De Villiers, 2012). The underlying idea is that the greater the concern expressed by the community, the more extensive company disclosure about social and environmental aspects will be (Brown & Deegan, 1998). Studies often use quantitative measures to evaluate disclosure. such as the number of sentences or words concerning social and environmental issues, calculating the percentage increase information provided compared to the total number of pages in the corporate reports (Cho. 2009; Hooks & van Staden, 2011; Islam & Deegan, 2010). Modifications to corporate disclosure do not however concern only the company that caused the accident, as its direct competitors and all businesses in the sector tend to disclose more social and environmental information (Summerhays & De Villiers, 2012). According to Islam and Deegan (2010), all major players of the sector can suffer the negative consequences of the incorrect conduct of a single company.

Methodology

The increasing spread of non-structured corporate reporting (like the diffusion of social reports, reporting for intangible assets and the publication of greenhouse gas emissions reports) has led to the development of several methods that extract information on the meaning of the disclosure documentation. In relation to sustainability reporting, different methods for textual analysis were applied in previous work, with a large preference for content analysis (Aureli, 2017; Cho, 2009; Cho & Patten, 2007; De Villiers & Van Staden, 2006). Differently, this paper applies a newer and emergent technique of analysis named *text mining*.

On one hand, content analysis helps investigate not only the quantity but also the quality of corporate communication, providing indications on the type of legitimacy strategy adopted by companies (Michelon, 2012). Moreover, using content analysis it is possible

to distinguish between general information and specific information, and understand the possible interactions between the different topics covered bν socio-environmental communication (De Villiers & Van Staden, 2006). On the other hand, this technique involves one important limitation: the difficulty in comparing studies. Authors often use different coding schemes, adapting them to the different research objectives and the various aspects of corporate communication they aim to analyse (Cho. 2009; Cho. Patten, & Roberts, 2006). Adaptations are also made to take into account the special features of the investigated sector, which implies different interlocutors and sustainability practices (Bonilla-Priego et al., 2014). Even when the construction of key concepts starts from previous studies or previously used indices (De Villiers & Van Staden, 2006), the ability to generalise the results is very limited because the presence of human coders (i.e. the authors) may involve some subjectivity.

Text mining, instead, is an automated text analysis method (i.e. performed by a software) researching and extracting indications, trends and rules in non-structured texts, such as text documents, HTML files, chat messages and e-mails (Feldman & Dagan, 1995: Fuller, Biros, & Delen, 2011: He, 2013: Özyurt & Köse, 2010). Text mining can be used systematically to highlight, extract, manage, integrate and exploit the information, which can be taken from text documents to measure hidden information in data (Fu-Ren, Lu-Shih, & Fu-Tai, 2009; Loh, Wives, & de Oliveira, 2000). Text mining, started in 1960s, became popular in 1990s, when it was included the primary field of Information System (Dörre, Gerstl, & Seiffert, 1999). This technique takes out knowledge from text documents in two different stages: text pre-processing and knowledge extraction. In the text pre-processing phase, software converts unstructured data into a documentterm matrix, while the knowledge extraction involves data mining. Pre-processing a corpus of textual data consists in tokenization, stop words removal and stemming, followed by the formulation of a document-term matrix, as proposed by Salton and McGill (1986); this stage is fundamental in text mining, because high-quality of pre-processing produces highquality knowledge (Uysal & Gunal, 2014). Text mining application could be summarized in five activity categories (Kumar & Ravi, 2016): Classification, Clustering, Association Rule Mining (ARM), Text summarization and Topic detection/ identification. Textual data are classified and codified by a software. The introduction of Machine Learning algorithms for text mining reduces human intervention and time to process the text. Compared to content analysis the absence of human coder increases the reliability of results (Milne & Adler, 1999) and the quality of mining.

Although *text mining* is an emergent technique in the companies' report analysis, it has already been applied in the past. Kloptchenko et al. (2004) analysed the information in the annual report and reached the conclusion that the text contents can predict variations in the financial performance of companies. Liew, Adhitya, and Srinivasan (2014) applied *text mining* to investigate topics of sustainability disclosure in the chemical sector, while (Aureli, Medei, Supino, & Travaglini, 2016) used *text mining* to search for changes in the sustainability reports of six companies involved in industrial disasters.

In the present study, text mining is used to analyse the content of sustainable reports of two cruise companies after the sinking of Costa Concordia on January 12, 2012. This fact represents a striking example of an industrial disaster that created a legitimacy crisis for the whole sector (as demonstrated by the worldwide media attention) and is likely to affect external corporate communication.

The impact of the Costa industrial disaster on CCL's and RCL's sustainability reports was analysed preparing a wordlist of terms relating to sustainability and highlighting if and how the relative frequency of the vocabulary compared to the total number of words changed over the vears. The wordlist was constructed based on the Global Reporting Initiative (GRI) guidelines, version 3, to which the analysed reports expressly refer. The GRI document underlines seven relevant aspects or dimensions for corporate sustainability disclosure: Economic (EC), Environmental (EN), Labour Practices (LA), Human Rights (HR), Product Responsibility (PR), Society (SO) and Strategy (ST). The wordlist was then structured on the same distribution, and was constructed by extracting from the GRI document the paragraphs relative to each dimension and subjected to analysis, in an unequivocal manner including the words and strings in each section for which the probability of random inclusion in the document is less than 10%. The wordlist (with a total of 130 terms) was enriched with synonyms, considered most suitable by the researchers according to the specific objectives of the research, from those given in the on-line dictionaries Thesaurus.com and Oxforddictionaries.com.

The corpus consisted of five sustainability reports for CCL and five for RCL. They were downloaded from the companies' web sites, and refer to the five-year period from 2009 to 2013. The first three reports of each series were disclosed before the disaster, the remaining two ones refer to the two-year period after the disaster. All the reports were certified by the GRI and are written in English. Sustainability reports from other companies were not included in the corpus, in fact only CCL and RCL regularly produced reports during the considered period.

The *text mining* application to the corpus was organised into two stages. During the first stage, the documents were pre-processed, converted from PDF to plain text format to facilitate acquisition and reading by the software R and the temis application (Bouchet-Valat & Bastin, 2015). The text documents imported into the software were automatically processed to render the corpus uniform. In detail, all the words in lower case were converted to make them equivalent, and were then filtered to remove the "stop words", i.e. all the "functional" words with no meaning, such pronouns, adverbs as articles. and conjunctions. Thereafter the documents were cleaned of all punctuation, numerical values. graphic symbols and hypertext links. Finally, the words were stemmed, i.e. reduced to their root; the stemming process is used to trace variations of the same word to a stem, increasing the precision of the analysis and reducing variability and costs (Feldman & Sanger, 2007; Weiss, Indurkhya, Zhang, &

Damerau, 2010). Having ensured the uniformity of the single elements of the corpus, the text was converted into a word terms matrix, which summarises the occurrences of each word in the text. In the second stage, the number of times the words in the wordlist occurred was extracted from each report, calculating the relative frequency of each word. To reduce the risk of distortion due to the different lengths of the documents, the absolute frequencies were related to the total number of words in the document, excluding the stop words.

Data analysis

Based on the above-described explanations, this paragraph aims to compare the sustainability information produced by CCL and RCL in the years preceding and immediately following the Costa Concordia shipwreck. Table 1 shows the measurement of relative presence of the wordlist, for both companies, referring to the time period between 2009 and 2013, identified according to the decomposition of the concept of sustainability in the categories described in the previous paragraph.

If we consider all the categories of the wordlist, we can see that in the five-year period considered, the average value for CCL (16.02%) is much higher than that of RCL (11.06%), even though the value recorded in the last year (13.16%) could lead us to think of possible progressive decrease in this deviation. The same thing happens also referring to the single sustainability categories, with the exception of the Human Rights section, for which both values are around 0.5%. and the Society section, in which the average value of RCL (1.03%) is higher than CCL's one (0.74%). The average values and other important parameters of the distributions presented in Table 1 are shown in Table 2. They can be useful in order to better evaluate the central tendency and the variability of the proposed relative disclosure measures with reference to their total level and the categories by which they were decomposed.

A first reflection on the level of sustainability disclosure can be done considering the totals obtained by summing all categories. Figure 1 shows overall trends of the relative presence of the wordlist for the two companies in the five-

Table 1. Relative presence of the wordlist

Company	Year	EC	EN	HR	LA	PR	so	ST	Total
CCL	2009	0.94%	3.79%	0.64%	4.97%	3.15%	0.81%	0.85%	15.14%
	2010	1.36%	5.43%	0.50%	3.47%	3.09%	0.70%	1.65%	16.21%
	2011	1.59%	6.21%	0.41%	3.04%	3.23%	0.57%	1.78%	16.83%
	2012	1.27%	4.77%	0.52%	3.48%	3.04%	0.68%	1.52%	15.28%
	2013	1.24%	4.20%	0.77%	3.75%	3.86%	0.92%	1.91%	16.66%
RCL	2009	0.58%	3.81%	0.38%	1.42%	2.84%	1.01%	0.84%	10.87%
	2010	0.44%	3.11%	0.52%	1.94%	2.90%	0.87%	0.76%	10.53%
	2011	0.75%	3.27%	0.62%	2.21%	1.62%	0.99%	0.88%	10.34%
	2012	0.67%	3.35%	0.53%	2.24%	1.75%	1.03%	0.83%	10.39%
	2013	1.27%	2.66%	0.57%	2.18%	2.97%	1.27%	2.24%	13.16%

Legend: Economic (EC), Environmental (EN), Labour Practices (LA), Human Rights (HR), Product Responsibility (PR), Society (SO), Strategy (ST)

Table 2. Parameters of the wordlist relative presence distributions

Company		EC	EN	HR	LA	PR	so	ST	Total
	Min	0.94%	3.79%	0.41%	3.04%	3.04%	0.57%	0.85%	15.14%
	Q1	1.24%	4.20%	0.50%	3.47%	3.09%	0.68%	1.52%	15.28%
	Median	1.27%	4.77%	0.52%	3.48%	3.15%	0.70%	1.65%	16.21%
CCL	Q3	1.36%	5.43%	0.64%	3.75%	3.23%	0.81%	1.78%	16.66%
	Max	1.59%	6.21%	0.77%	4.97%	3.86%	0.92%	1.91%	16.83%
	Mean	1.28%	4.88%	0.57%	3.74%	3.27%	0.74%	1.55%	16.02%
	Std. Dev.	0.23%	0.97%	0.14%	0.73%	0.34%	0.13%	0.41%	0.78%
RCL	Min	0.44%	2.66%	0.38%	1.42%	1.62%	0.87%	0.76%	10.34%
	Q1	0.58%	3.11%	0.52%	1.94%	1.75%	0.99%	0.83%	10.39%
	Median	0.67%	3.27%	0.53%	2.18%	2.84%	1.01%	0.84%	10.53%
	Q3	0.75%	3.35%	0.57%	2.21%	2.90%	1.03%	0.88%	10.87%
	Max	1.27%	3.81%	0.62%	2.24%	2.97%	1.27%	2.24%	13.16%
	Mean	0.74%	3.24%	0.52%	2.00%	2.42%	1.03%	1.11%	11.06%
	Std. Dev.	0.32%	0.42%	0.09%	0.34%	0.67%	0.15%	0.64%	1.19%

Legend: Economic (EC), Environmental (EN), Labour Practices (LA), Human Rights (HR), Product Responsibility (PR), Society (SO), Strategy (ST)

year period. In the three-year period 2009-2011 the two series show contrasting trends. The relative presence of the sustainability wordlist tends to increase in the information produced by CCL, while it falls progressively in that of RCL. In the reports referring to 2012, the first year following the shipwreck, an inversion of trends is recorded for both companies. The relative presence of the identified terms falls drastically in the information produced by CCL while, referring to RCL, an (albeit slight) increase is recorded. Finally, in 2013, the differences appear to settle to a clear increase in the proposed indicator, thus highlighting a similar conduct by both companies.

Further considerations can be made by analysing the trend of the relative presence of the specific wordlist linked to the environment. for the two companies in question (Figure 2). In relative presence 2009. the of environmental wordlist in the reports of the two companies coincides. In following years, up to 2012, the two patterns diverge: the indicator increases in the information produced by Carnival Corporation & PLC, while for Royal Caribbean Cruises Ltd it does not seem to suffer serious oscillations, even though the trend does fall slightly. For both companies, in 2013 (the second report after the disaster), the relative presence of sustainability terminology

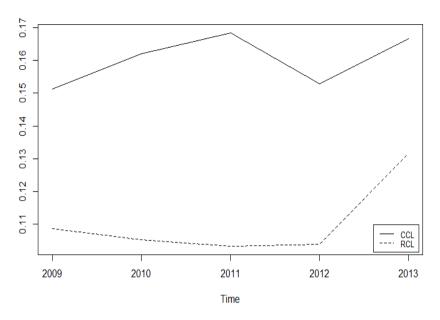


Figure 1. Overall trends of the wordlist relative presence

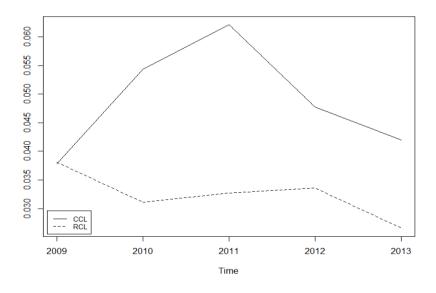


Figure 2. Relative presence of the environmental wordlist

drops, representing the lowest value in the last four years.

Discussions

Empirical data indicate that the sinking of Costa Concordia disaster affects the sustainability disclosure of the two analysed cruise companies. Even if CCL and RCL had a different disclosure behaviour before this negative event (the presence of the wordlist

increases in CCL while it decreases in RCL from 2009 to 2011), both companies changed their level of disclosure in 2012 towards opposite directions.

The holding company of Costa Concordia (CCL) shows a significant drop, especially when compared to RCL, in the presence of the sustainability wordlist in the year of the disaster. Observed changes in the frequency of

the wordlist suggest that managers of CCL use sustainability reports to handle company legitimacy issues in a different way from what suggested by mainstream academic studies on legitimacy theory. In fact, results indicate that CCL does not react to a legitimacy threat, such as an industrial disaster, with an increase in the quantity of information disclosed. Moreover, a closer look into our results indicates that the decrease in company disclosure is mainly due to the reduction in environmental information. which represents the most relevant dimension. The categories or aspects of sustainability disclosure receiving more attention in order of importance are: environment, labour practices and product responsibility. With reference to CCL's main competitor, results indicate that the disaster is also linked to a change in the sustainability disclosure of this company. Since 2012, RCL begins using more terms of the relevant vocabulary (although to a limited extent), which then continue increasing in 2013.

On one hand, findings are in line with the strategic approach of legitimacy theory that considers reporting as a strategic tool used by managers to regain or maintain the legitimacy and reputation of a company. The changes in the level of disclosure of both CCL and RCL confirm that managers manipulate company disclosure in the attempt to affect recipients' perceptions. On the other hand, findings provide empirical evidence that regaining legitimacy does not automatically result in greater social and environmental disclosure.

With reference to this, the cruise context seems to differ from what previous studies have found in the case of oil & gas companies, the airline industry and the mining sector. The energy company Total S.A., for example, tried to repair its legitimacy by increasing the sustainability disclosure in both 1999 and 2001 disasters (Cho, 2009). Likewise, three different airline companies have responded to separate airline disasters with considerable increases in CSR disclosure (Vourvachis, Woodward, Woodward, & Patten, 2016) and the entire South African mining industry has evidenced an increase in disclosure levels following two major mining accidents (Coetzee & van Staden, 2011).

Conclusions

From a theoretical point of view, this study contributes to the existing literature examining corporate disclosure reactions following threats to their social legitimacy, offering a detailed picture of what happens to sustainability disclosure of cruise companies when an industrial disaster occurs. The analysis provided highlights that, in this less investigated sector, legitimization may entail different disclosure behaviours. Thus, this study contributes to the existing literature confirming that reporting is a tool of legitimacy, but it also indicates that regaining legitimization after a disaster may be searched through a decrease in transparency of the company.

In addition, the great interest in environmental aspects and the relative scarce attention to social issues in the analysed companies in 2012 and 2013 reveal that cruise companies consider the institutional pressure environmental authorities more important than the issues usually raised by the society and the local communities even in the case of an industrial disaster that involved a major loss of lives. The predominance of the environmental dimension in social reports is similar to that indicated by (Bonilla-Priego et al., 2014) with reference to cruise companies operating in normal conditions.

From a practical point of view, the results of this study can be useful for managers having to tackle similar situations. The observed corporate behaviours can be considered as an illustration for managers deciding whether to adopt a strategy based on the reduction of information or to react by increasing disclosure, where necessary providing details on the consequences of the event and on the corrective actions taken. Important implications also emerge for stakeholders who represent users of sustainability reports. reduction in the wordlist concerning the socalled triple bottom line suagests that stakeholders may not find adequate responses to their demand of transparency in the sustainability reports of companies facing with disastrous events. The behaviour of CCL is a clear warning in this sense. Similarly, findings advise international bodies and standard setters of sustainability reporting like the GRI

that companies facing a legitimacy crisis might be tempted to reduce their transparency. In order to avoid this possibility, standard setters may evaluate to propose additional information requirements (like an add-on) or specific guidelines to be applied in the case of an industrial disaster caused by the organization.

This explorative research is not exempted from some limitations. First, it is not a statistical study but it just compares the practices of two companies, although they represent 65% of the cruise market. Another limit may lie in the objects of the analysis. The focus only on sustainability reports does not permit to understand if there is a general reduction in the wordlist presence considering all media (i.e. websites, social networks and press releases). Furthermore. self-produced wordlist according to GRI guidelines does not consider some specific, sector-related terms. Future research may include an improved wordlist by inserting terms from other guidelines and a larger number of cases, also referring to other sectors affected by a similar industrial disaster, with the aim to generalise the conclusions of this study.

Possible explanations of the specific cruise companies' behaviour to be investigated in the future may relate to differences in the magnitude of the disasters investigated or to the fact that cruise companies are not generally considered to operate in environmentally sensitive industries. Thus, they are not exposed to social and ethical pressures like mining and oil companies. It is also possible that the market dominance of just two companies (i.e. duopoly) makes the cruise sector less sensitive to the need to repair their legitimacy.

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