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# Reporting on terror. Analysis of the use of infographics in news on the Barcelona terror attacks of 17 August, 2017, by print newspapers from the Basque Autonomous Community

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## Abstract

**Introduction.** This article evaluates the quality of the infographics published in the print general-information newspapers of the Autonomous Community of the Basque Country after the Barcelona terror attacks of 17 August 2017. **Methods.** The study is based on the analysis of all the infographic material used in the news on the Barcelona terror attacks published by Basque print newspapers. The quality of these infographics is measured with the method developed by Spanish scholar Valero Sancho, which provides quality indexes that are determined through a numerical formula. **Results and conclusions.** The results reveal that *El País* newspaper published the largest number of infographics, while *El Mundo* published the best-quality infographics. *El Correo* and *Diario Vasco* also obtained high rates of infographic production, followed by the newspapers published by *Grupo de Noticias*, whose infographic quality is at an incipient stage.

**Keywords:** Infographics; Basque Country; newspapers; local press; terrorism.

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Translation by **CA Martínez-Arcos**  
(PhD in Communication, University of London)

## 1. Introduction

This article proposes an evaluative study of the use of infographics by general-information newspapers available in the Basque Country (Euskadi or Basque Autonomous Community), a Spanish region composed of three provinces, Biscay, Gipuzkoa and Alava, which have administrative autonomy, their own language, and the highest journalistic penetration in the country (Ymedia, 2017: p.6). The interest in reading newspapers in Euskadi, linked for decades to national territorial problems, as well as the important presence of journalistic institutions in Euskadi – since the 1970s, 2 of the 7 newspapers with the largest national circulation were established in Bilbao (*El Correo Español - La Gaceta del Norte*)-, have made this community a space of important interest for the analysis of the press.

Moreover, infographics, the journalistic tool under study in this work, are equipped with powerful visual and informative elements, and have been painstakingly cultivated in the sample of news media under study in this article. This justifies their analysis based on a specific event that is described in the following lines: the 17-A.

The 17-A, an acronym for “17 August”, which refers to the day on which Spain suffered one of the first jihadist fatal attack in its history, which was covered by all national and international newspapers. On that Thursday 17 of August 2017, a van driven by a 22-year-old man run over more than one hundred people in Las Ramblas in Barcelona, leaving 13 people dead and 130 injured (Benítez et. al., 2017). After crashing against a kiosk, the man took a car and wounded another pedestrian and a *mosso d’esquadra* -a member of the Catalan regional police-. The terrorist was intercepted and killed by the Catalan police four days later in the municipality of Subirats – Barcelona -, along with other 7 terror cell members that operated under the command of Abdelbaki Es Satty, an imam in Ripoll (Girona). Of the terrorist killed, 5 were killed by police on the seaside resort of Cambrils (Tarragona) two days before the death of Abouyaaqoub, while they were conducting another terrorist attack (Cadena SER, 2017). The remaining two suspects were shot a day before the 17-A in the small town of Alcanar in Catalonia’s Tarragona, while they were manipulating explosives that were going to be used to carry out a terrorist attack. These tragic events caused the dead of 16 people from 6 different nationalities - in addition to the terrorists killed by police - and more than one hundred wounded (*El País*, 2017). Given the relevance of this tragic event, the Spanish media constantly covered the 17-A throughout August, highlighting pieces of information about the attack as they were revealed.

In the Basque Country, all print newspapers published very striking infographics. This article analyses the informative quality of all of these infographics published since the day of the attack, 17-A, until the end of the month.

### 1.1. Definition of infographics

Infographics (or “information graphics”) can be defined in various ways depending on the discipline from which it is addressed. According to the RAE, its generic definition would be: “technique to generate images using a computer”. Limiting the definition to the journalistic field, the RAE specifies that infographics is a “graphic representation that supports a piece of journalistic information”, which provides a more precise idea for our study.

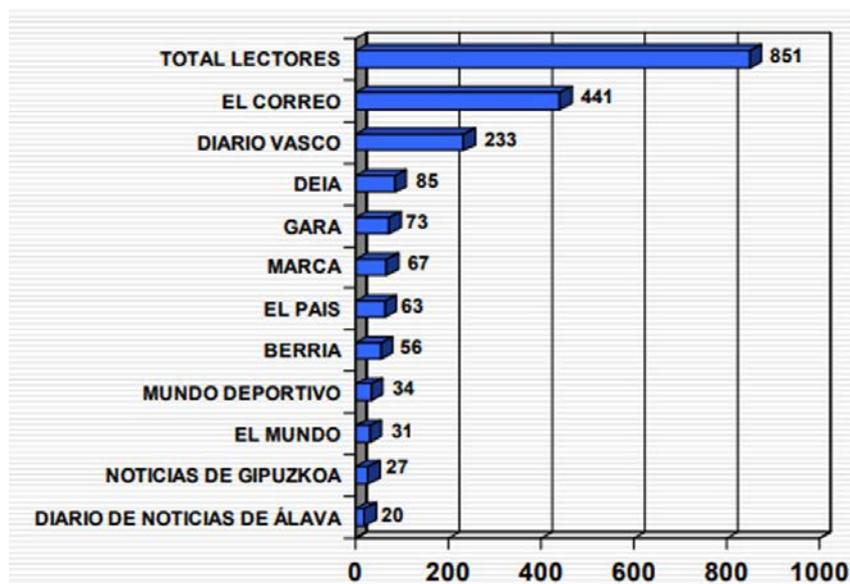
There is no doubt that both definitions are a bit inadequate, given that according to the first definition, any image created through a computer would automatically be an infographic (Valero Sancho, 2001: p.25), which invalidate all infographics produced prior to the existence of computers. Thus, it is understood that “info” does not derive from “computer” but from “information”, -although informatics also derives from “automatic information” (De Pablos, 1998: para. 5)-, or from the English term “information graphics”, as mentioned. Accordingly, all information transmitted through the graphic language would be an infographic. For this reason, De Pablos considers that infographics have always existed [1].

Thus, infographics can be defined as a diagram-based representation of data, being a diagram a “drawing that shows the relationships between different parts of a set or system” (Cairo, 2008: p.21). It combines text and image (De Pablos, 1998: para.1), and relies on symbolic and iconic, forms and may be also accompanied by text, and has the diagram as its core. If infographics are circulated in digital format, they can also contain audio elements (Valero Sancho, 2001: p.201).

Due to its communicative utility to represent information, it is not strange that infographics have almost always been the object of study of journalism, where they has been developed with the greatest potential, sometimes constituting not only a complement to textual information, but the integral articulation of such information (Valero Sancho, 2001: p.57; 2009: p.52). Infographics, thus, can have such an informative potential that they can even replace the conventional newspaper article, although it should not compete with it given that journalistic infographics and text are interdependent (Leturia, 1998: para.4). However, in the increasingly visual context in which the reader is plunged, we should not forget that the audience, sometimes, only reads the infographics and other supplemental visual materials (Curtis, 1991).

## 1.2. Newspapers in the Basque Country

**Figure 1. Newspaper readership in Euskadi**



Source: CIES 2016

As mentioned, in the ranking of the 17 autonomous regions of Spain, Euskadi has the third highest newspaper penetration, with a rate of 38%, which is only surpassed by Madrid and Asturias, with 44%, and the Valencian Community, with 40% (Ymedia, 2017: p.6). Newspaper readership in Navarra and the Basque regions is measured by CIES, which has provided the following infographic.

Euskadi has a total of 11 newspapers, of which 9 are general information and are included in the sample of this study: *El Correo* - since 1938 *El Correo Español-El Pueblo Vasco* (Vocento, 2017) -, *Diario Vasco*, *Deia*, *Gara*, *El País*, *Berria*, *El Mundo del siglo XXI* - or simply *El Mundo* -, *Noticias de Gipuzkoa* and *Diario de Noticias de Álava*.

As we can see, the majority of these newspapers are provincial news media; *El Correo* and *Deia* are deans of Biscay: the first is the most-read newspaper also in Alava and the whole Basque Country. Although we have previously referred to it as national newspaper, since the Transition until today, *El Correo* has become specialised in Euskadi, extending its editorial group, Vocento, to the entire Spanish territory through other regional papers, of which ABC is the national newspaper with the greatest relevance.

For its part, *Grupo de Noticias*, to which *Deia* belongs, competes against Vocento, in Alava with *Diario de Noticias de Álava*, and in Gipuzkoa with *Noticias de Gipuzkoa*.

*Berria* and *Gara* could be define as newspapers “of national Basque scope”. The Basque nation or “Euskal Herria”, a name reclaimed by Basque nationalism since the Spanish Transition, constitutes the space of circulation of these newspapers, namely the Basque Country as a three-provincial regional unity, to which we must add Navarra and the French Basque Country [2]. To do so, both newspapers have editions for each territory.

*Berria*, edited in the Guipuzcoan town of Andoain by Euskal Editorea SM, has specific supplements named *Hitza* -which means “word” in Basque- for the provinces and regions of all its circulation space. In the case of Alava, the supplement is called *Alea* (“copy”), after merging the local edition of *Berria* with the weekly of *Arabako Alea*. It is important to note, however, that the newspaper does not define itself as nationalist, but rather aims to cover information spaces in the Basque language in all the territories where it is spoken, lacking an editorial line and open to all ideologies present in its dissemination space. The province where it is read the most is Gipuzkoa.

On the other hand, *Gara*, published by EKHE SA in San Sebastián and is defined, like its successor, the old *Egin*, as a tool working for the good of the country (Coca and Martínez, 1993: pp.25-26). It produces content in Basque and Spanish. In addition to its presence in the Basque Country and Navarra, it also has a Basque-French edition named *Mediabask* [3].

Finally, *El País* and *El Mundo* are national newspapers, leaders in Spain among general-information newspapers (AIMC, 2017). Their Basque editions, however, do not enjoy great penetration and extend across the entire territory of the Autonomous Community regardless of its provinces.

### 1.2.1. Ideology and language of newspapers in the Basque Country

The sample of newspapers can be divided into two clearly distinct groups: constitutionalists -those that support the Spanish principles of national unity and the Constitution of 1978- and Basque nationalists

-those that consider the Basque people a nation with its own rights-. Thus, and contrary to trend of votes, the most read newspapers of the Community are those published by Vocento: *El Correo* and *Diario Vasco*, which are constitutionalists, like *El País*, of Prisa, and *El Mundo*, of Unidad Editorial. According to their style books, Vocento's manual establishes that the group "is committed explicitly to the democratic legality that under the protection of the Crown define the Constitution of 1978, as well as the laws that develop it and the statutes of autonomy" (De Sousa, 2003: p.19). For its part, *El País* defines itself statutorily as "an independent, national newspaper, with a general information scope, with a clear Europeanist commitment [...] and committed to safeguarding the social and democratic order established by the Constitution" (*El País*, 2002, p.21). Meanwhile, *El Mundo* defines itself as a "progressive, committed to the current democratic system, civil liberties and human rights" (De la Serna, 1996, p.117).

In turn, the nationalist newspapers would be all those published by Grupo de Noticias -*Deia*, *Diario de Noticias de Álava* and *Noticias de Gipuzkoa*-, which are very close to the moderate bases of the Basque Nationalist Party [4], and *Gara*, which is closer to the Abertzale left [5]. As mentioned, and according to the content of its opinion articles and its circulation space, *Berria* could be included in the nationalist group, although it does not define itself as such.

With regards to the particularity of the Basque Language or Euskera, all newspapers use it in certain sections to greater or lesser extent, with the exception of *El País* and *El Mundo*. The rest of newspapers use almost always the Spanish language, despite the Basque words used to name *Deia* ("call") and *Gara* – ("we are"). *Berria* ("news") is, as mentioned, the only one published entirely in Basque, being the main promoter of such language. In this regard, it is important to mention that nearly 40% of the population over two years of age of the Autonomous Community is currently bilingual -speaks Spanish and Basque-, which must be added to the 25% of the population are almost-Basque speakers (Eustat, 2011).

### 1.2.2. Relationship with infographics

According to the literature on Spanish infographics, Valero Sancho speaks of the praising of infographics by international journalistic sources such as Boksebaum, Withey and Gray, who praise their level of quality, despite the fact that up to the 1980s infographics were not employed in the country's newspapers (Valero Sancho, 2001: p.62). According to this author, *El Mundo* was the first to use infographics at the end of the 1980s, although the genre reached our press assiduously through Catalonia, with such relevant exponents as *El Periódico de Catalunya* and *La Vanguardia*. However, we have to mention the graphic quality of *El Mundo*, which was awarded nine times by the Society for News Design, for its layout and infographics (Valero Sancho, 2001: p.69). It is also important to note the contribution of *El País*, which is a newspaper of infographic reference thanks to outstanding professionals such as Clapers, Ondarra and Tascón (Valero Sancho, 2001: p.68).

Local academic studies have also praised the infographic production of *El Correo*. García-González, a researcher at the University of the Basque Country, analyses in his doctoral thesis (2012) such production from 1910 to 2012, from a historical perspective that covers methods, the working routines and conditions of producers of infographics in the newspaper, getting an image that highlights the excellence of the production of this newspaper.

According to the cited sources, we can expect that the best-quality infographics will correspond to those published in *El Mundo*, *El País* and *El Correo*, and that the first one will stand out due to its historical journey and technological resources, despite being one of the least read newspapers in Euskadi.

## 2. Methods

To justify a method to measure the quality of infographics, it is necessary to know how many of these exist today and assess their suitability. According to the available literature, the two best infographic quality measurement methods are the ones developed by Valero Sancho and Colle. Both methods are compared by Chimeno, who measures the effectiveness of infographics through questionnaires applied to focus groups (Chimeno, 2015: pp.47-48). The main difference between Valero Sancho and Colle is that while the latter establishes a pattern of critical analysis that evaluates a series of descriptive criteria between the different parts of an infographic -text, balance of forms, aesthetics, etc.-, the former assigns to each characteristic or property of infographics a numerical value -0 absence, 1 existence of the property-, collects all the obtained values and then calculates an index whose position on a scale will show the quality score of an infographic.

Both methods can be applied to an infographic, taking into account that the first one is primarily qualitative while the second operates with numeric values and indexes. Both methods are also applicable to infographics in print and digital formats.

The method used here is the one proposed by Valero Sancho, which assesses newspaper infographics based on the collection of zeros and ones that are obtained by adding these figures based on previously established characteristics. This method seems to be ideal to compare all the infographics under study in a systematic and orderly way and to extract very accurate values of the quality of infographics. It must be noted, however, that this method is especially designed for printed infographics and some of its sections need to be adapted to be able to apply it for digital infographics.

### 2.1. Methodological strategies

Valero Sancho suggests that all infographics can be classified into a concrete type and performs his own classification while others such as Colle propose their own (Colle, 2004). For Valero Sancho, there are two clearly differentiated types of infographics: individual and collective. The first type refers to those that “have the essential characteristics of a single infographic, and of several infographics that are together, deal with a single subject and [...] do not include double titles or internal boxes” (Valero Sancho, 2001 p.132). Collective infographics are “several infographics that appear together” or “several individual infographics, either simple or complex, that display information with certain important applications” (Valero Sancho, 2001: p.149).

Both types include sub-types, which in the case of the infographics found in this study are: among the individual ones, scene-centred, geographical, documentary and comparative; among the collective ones, geographical and documentary.

In the case of individual and collective infographics, the geographical types aim to place facts in a specific space, using maps, plans and purpose-created spaces to orient the reader (Valero Sancho, 2001: p.147). In the case of collective infographics, some geographical infographics may also be called

documentary, given that such plans or maps can include documentary informative extensions (Valero Sancho, 2001: p.152).

In the case of individual infographics -which is basically all of the infographics included in the sample-, the documentary type aims to explain with details the features of events, actions or things, which tend to be relevant to understand the information (Valero Sancho, 2001: p.139), especially if it is of a technical nature or requires additional extensions - for example, the case of the functioning of machines, the human body or some detailed event encompassing several details-. They have nothing to do with the scene-centred type, although they also aim to document in the most informative sense of the word, they are most commonly used to describe the scene of attacks or complex multi-part events that require scene-by-scene explanations - sometimes similarly to a comic- as if the events had been witnessed by a viewer. The hypothesis is that in the present case, most of the studied infographics will fall in this category.

Finally, the individual comparative infographics are those that aim to “compare several elements or any of their parts through graphic resources, in a way that provides quick visual information of the elements or variables under study” (Valero Sancho, 2001: p.134).

### **2.1.1. Criteria to assess infographics**

Once the typology of the infographics has been identified, it will be necessary to examine whether they have the basic features of infographics, which according to Valero Sancho are the following seven:

-Information (INF [6]). Is the main objective of infographics, as journalistic content that must structure and organise data and ideas, according to a hierarchy of relevance and responding, as any newspaper article, to the well-known 4W: What/Who? When? Where? and Why? It can be said that an infographic is informative when it responds adequately to the 4W.

-Significance (SIG). An infographic will be significant if its information - structured organisation of data and ideas - is relevant, useful and current to the reader. Thus, significance is completed according to the following properties (Valero Sancho, 2001: p.153): clarity of the key issue, making clear what the event shown and described is all about; familiarity of the event with the reading public; identification of the elements, characters and actions that are reported; novelty of the reported events, given that the press basically exists to inform about recent developments.

-Understanding (UND). Is the feature that gives the infographics an organisation in its elements and makes it intelligible to the reader's eyes, because if the elements of the infographic are ambiguous it will be rendered invisible (Valero Sancho, 2001: p.161). Understanding is assessed by taking into account visibility, the proper complementation and structuring of texts and images; readability, which is the absence of spelling mistakes and the use of correct language; clarity, i.e., clear and understandable symbols and texts; and didacticism [7], the data presented should also be easy to memorise and enable the understanding of the narrative.

-Aesthetics (AES). It the feature that covers the infographics with elements that are artistic or provide beauty or grace to the sight. While the absence of aesthetic elements does not diminish the quality of infographics, whose main objective is to inform (Valero Sancho, 2001: p.165), their presence does provide quality. The properties that provide certain aesthetic to the infographic product include the

increasingly less frequent retouch-ups by hand, graphic details to polish the finishing touches and shadows, and dynamism and originality of the arrangement of elements.

-Iconicity (ICO). Includes the degree of contribution of figurative unencrypted messages, which use signs to represent objects and realities and make them recognisable to the reader (Valero Sancho, 2001: p.169). Thus, an infographic is more iconic the bigger its use of photos and drawings that come as close as possible to our perception of reality. Thus, iconicity increases with photographs and 3D figures, and decreases with abstract and flat figures, although one has to observe how these elements are arranged in each case.

-Typography (TYP). Refers to the texts on which the infographics relies to inform, given that infographics are not conceived without written information (Valero Sancho, 2001: p.173). Thus, it is important to understand that an infographic should have a title that identifies it, as well as the signature of its author, which can give prestige to the work. The infographics should also have explanatory texts - not longer than 27 words - and labels that, in the form of small titles, identify the most important aspects of the infographics.

-Functionality (FUN). Refers to the functionality of the infographics as written press text, given that an infographic will be more functional the more understood it is by itself, providing information not contained in the written article - complement - and even replacing the written information with a large infographics or mega-infographics (Valero Sancho, 2001, p.177). In case the infographics summarises the information of the news article, we talk about the capacity of synthesis.

**Table 1. Characteristics and properties of infographics**

INF	Information	What/Who?	When?	Where?	Why?
SIG	Significance	Key issue	Familiarity	Identification	Novelty
UND	Understanding	Visibility	Readability	Didacticism	Clarity and simplicity
AES	Aesthetics	Hand-made details	Beauty	Dynamism	Originality
ICO	Iconicity	Abstraction	Flat figure	3D Figures	Photographs
TYP	Typography	Title	Credits	Explanatory text	Labels
FUN	Functionality	Synthesis	Complement	Information proportion	Page proportion

Source: Valero Sancho, 2001

All of the above features must exist under the prism of concordance, i.e., that property that obeys the rules and minimum elements for the social use of infographics (Valero Sancho, 2001: p.179). Thus, if an infographic provides unreal information or lacks facts there is a lack of concordance. The same thing happens with orthography, since we cannot tolerate errors in the use of the written language.

Taking into account all the parameters stated above around infographics, Valero Sancho proposes the coding of each of these features through a binary system of zeros and ones. Thus, for an infographic to obtain an X level of significance (SIG), it should add 0 or 1 to the clarity section (0, if there is no

clarity; 1, if there is enough clarity); 0 or 1 to the sections measuring familiarity, identification and novelty. Finally, the X value will result from the sum of the zeros and ones derived from each of the properties encompassed in the feature of significance, and so on with all the other features described above.

The analyst must rate, based on their criteria as precise as possible, what number corresponds to each property, and whenever the analyst has doubts about whether an infographic is, for example, “clear” (SIG) or not he should evaluate it with 0 instead of 1. We have to keep in mind that while functionality (FUN) is measured with the binary code based on the variables synthesis and complement, other variables included in the formula: the proportion on the page -proportion of space occupied by the infographic in the newspaper sheet- and the proportion of the information, i.e., the amount of new information that the infographic provides with respect to the written text, which can be a complement or something new. In both cases, the value obtained derives from a 0-1 scale. In the case of mega infographics, or those infographics that occupy the entire page to narrate an event, the functionality value will always be 4, the maximum value (Valero Sancho, 2001: p.185).

Thus, each feature can collect a maximum value of 4, extracted from the sum of each of its 4 properties. Finally, the value of the analysed infographics will result in an index derived from the following formula:

$$\text{Value} = (\text{INF} + \text{UND} + \text{ICO} + \text{TYP} + \text{SIG} + \text{FUN}) \cdot 100 / 28$$

As we can see, by multiply by 100 and dividing by 28 we can obtain a centesimal value from the 28 possible values that can give the result (7 features for 4 properties each). The result will provide the value of the infographics on a scale that will allow us to assess it as: unacceptable, when the obtained value is lower than 40; regular, when the value is between 40 and 49'9; enough, when the value is between 50 and 59'9; remarkable, when the value is between 60 and 69'9; and excellent, when the value is 70 or more.

The analysis also takes into account the following:

- That all the studied infographics are classifiable in their respective types.
- That all the infographics should have concordance. Each miss spelling subtracts 12.5 points from the total.
- That collective infographics are deducted 10 points with respect to the total, since they combine independent infographics that have their own value.
- That no feature can have a value of 0 except the aesthetic one [8].

### 2.1.2. Population and sample

We selected all those infographics that dealt with the 17-A and were published by the printed editions of the sample of newspapers from the same day, 17 August 2017, to the 31<sup>st</sup> of the same month. The sample was composed by a total of 36 infographics, which is an important amount for the little more than two weeks of journalistic production under study.

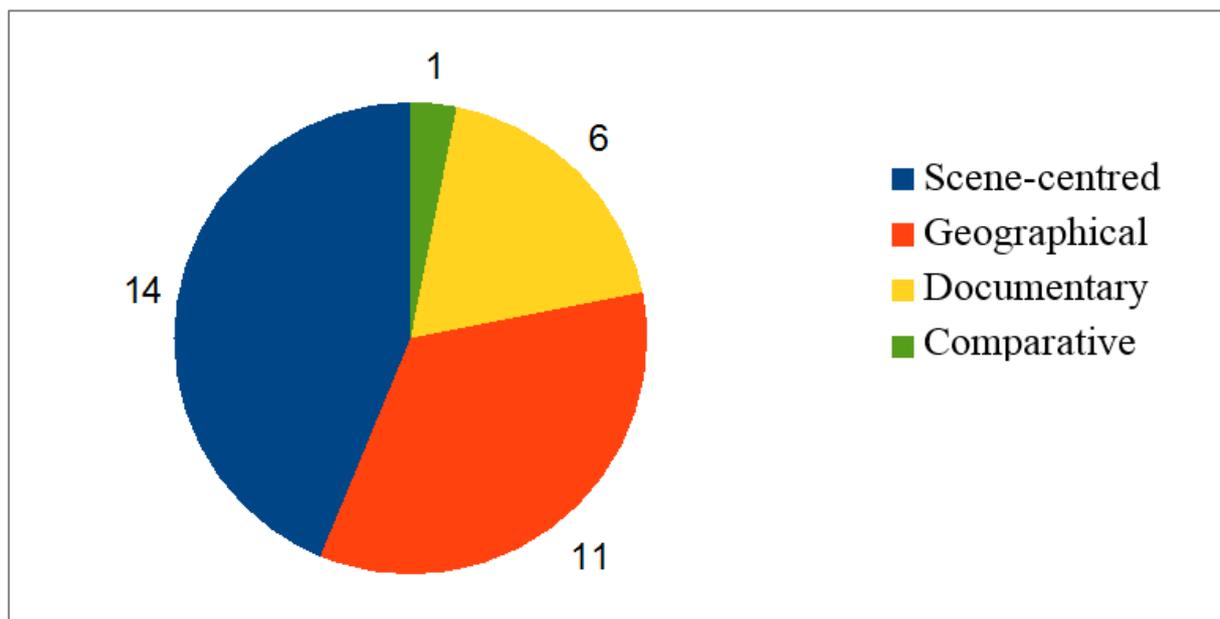
### 2.1.3. Data collection instruments

We examined all the infographics whose titles specified that they provided information about the attack. The sample was obtained from the newspaper library of the Leioa-Erandio Campus of the University of the Basque Country, to which the author belongs. A camera was used for information extraction and a Microsoft Excel file was used as a database, which included the title of each infographic, collection date and page. Subsequently, we created Excel tabs for each newspaper, to create the technical sheet of each infographic and calculate their value, according to the selected formula.

### 3. Results

Of the 36 infographics, only 4 have been collective, and the rest were individual and of all the aforementioned types. The most frequent infographic was the scene-centred individual type, which is used to represent attacks or events of great narrative complexity.

**Figure 2. Amount and type of individual infographics**



Source: Author's own creation

The geographical individual type also abounds, given that in certain cases it was necessary to specify the cities (Barcelona, Ripoll, Cambrils...) in which the acts of terrorism took place, and in the case of Barcelona, it was necessary to specify the streets where the acts occurred. In the case of the 4 collective infographics, 3 of them were also geographical, and one was documentary, namely:

-1 documentary collective infographic in *El Mundo* - day 18, p.9.

-3 geographical collective infographics:

\* "Attack in Barcelona", in *Gara*, day 18, front page.

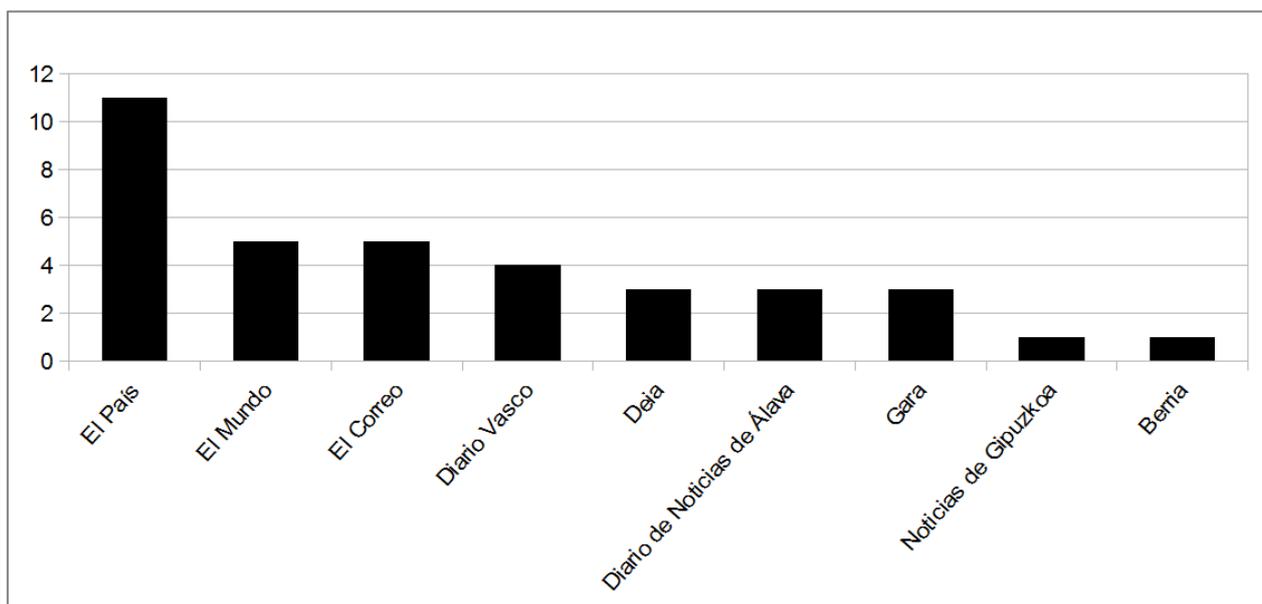
\* "The flight of the jihadist from La Rambla", in *El Mundo*, day 22, p.9

\* “The big demonstration in Barcelona”, in *El Mundo*, day 26, p.8

As the method specifies, 10 points were deducted from all of the above infographics for being collective, being *El Mundo* the most affected in this aspect.

On the other hand, considering the amount of infographics obtained from each newspaper, it is striking that nearly a third were extracted from *El País*, followed in second place by *El Mundo* and *El Correo* with 5 infographics each. In this case, we can see the important work of the Prisa newspaper in the area of infographics, which greatly surpasses the rest, despite the newspapers of Unidad Editorial and Vocento also contribute a considerable amount to the total.

**Figure 3. Number of infographics published by the sample of newspapers**



Source: Author's own creation

Although the figure does not show it, the infographics of *El Correo* and *Diario Vasco* are the same, except the one published on 18 August in the Basque newspaper, “Attack on Las Ramblas”, a scene-centred individual infographic of high quality made by JM (Josemi) Benítez and Izania Olló, with an index of 75.

Moreover, the infographics of *Deia* and *Diario de Noticias de Álava* are the same in all cases, despite being published in different pages. We must remember that in these cases, the newspapers belong to the same companies, and share the same materials. In this sense, *Noticias de Gipuzkoa* is an exception, since it only publishes one infographic, which has significant quality – an index of 60’36 -, that is not found in its sibling newspapers.

Photograph 1.

**Pánico**  
Un grupo de personas socorre a uno de los afectados. La furgoneta embistió terrazas y a viandantes. neuras

**Dolor**  
Cientos de personas fueron evacuadas de las Ramblas en apenas unos minutos. AFP

no testaba  
sa cir-  
los te-  
e color  
ta Tele-  
lonesa  
da, en-  
ir Plaza  
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s de un  
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ta de los

fallecidos y heridos –según los Mossos– ni siquiera se percató de la furgoneta bajaba, ayudada por la inercia a toda velocidad, hasta que la tuvieron encima.

**Contra un quiosco**  
El conductor asesino no puso final a su matanza hasta que finalmente perdió el control del vehículo y fue a estrellarse contra uno de los quioscos turísticos de la zona, situado a la altura del mercado de La Boquería. El terrorista –que no iba armado y que, al parecer, no profirió gritos– logró escapar de la zona, dejando tras de sí un espectáculo dantesco.

Decenas de personas fallecidas y heridas yacían a lo largo del bulevar. Las Ramblas se habían convertido en un inmenso reguero de sangre, por el que corrían despavoridos centenares de turistas tratando de refugiarse en los bares y comercios cercanos. Al cierre de esta edición se había confirmado que entre los fallecidos había una turista belga y tres alemanes, además de varios griegos.

## Atentado en las Ramblas

El conductor de una furgoneta entra en el paseo de las Ramblas atropellando a decenas de personas.

**Furgoneta Fiat**  
Los autores del atropello han utilizado una furgoneta Fiat. Un segundo vehículo, idéntico al primero, y con el que pretendían huir, es encontrado en Vic (a 100 km.)

**16:50 PASEO DE LAS RAMBLAS**  
(1,2 km.) Ha recorrido la mitad

**1** El vehículo ha iniciado su recorrido en la confluencia de las Ramblas con Plaza Catalunya

**2** Recorre los primeros metros sin causar daños hasta llegar a la altura de la Fuente de Canaletas, desde donde avanza en zigzag atropellando a los viandantes

**3** Finalmente choca contra un quiosco y se para sobre el mosaico de Miró

**4** El conductor de la furgoneta consigue huir. Los mossos detienen a dos personas supuestamente implicadas en el atentado

500 metros  
La furgoneta ha recorrido el paseo haciendo zigzags

Área ampliada de las Ramblas (tramo del atentado)

GRÁFICO J.M.BENÍTEZ / IZANIA OLLO

Source: JM Benítez & Izania Ollo. *El Correo*, 18 August, p.19

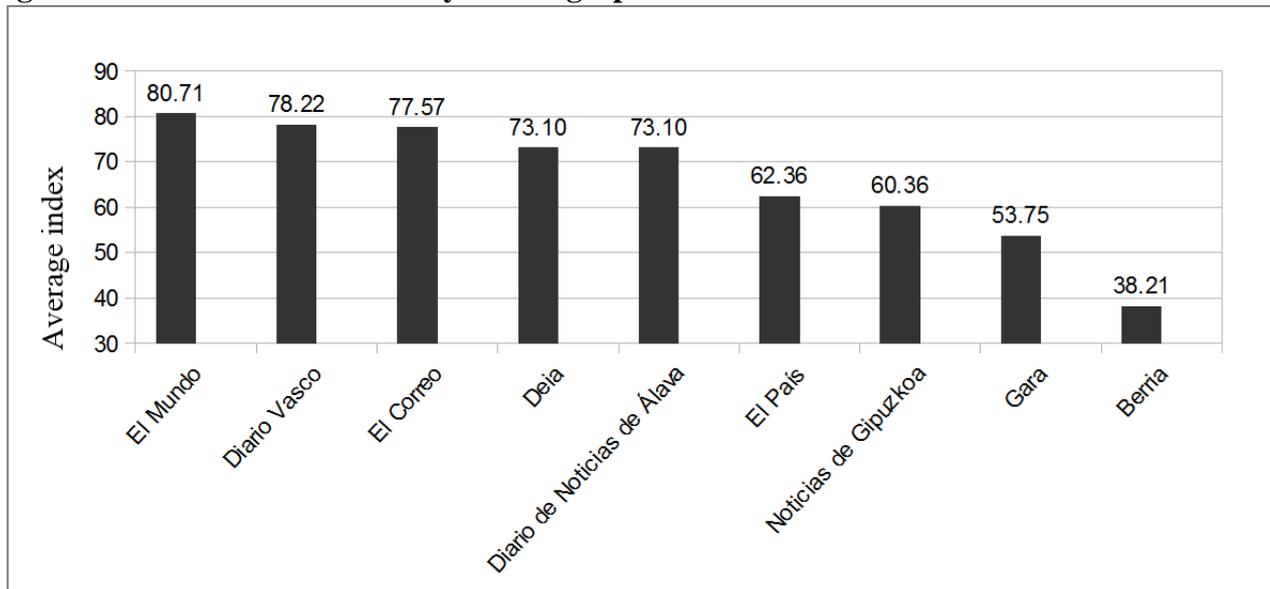
Photograph 2.



Source: *Noticias de Gipuzkoa*, 19 August, p.12

Focusing on the quality of infographics, and considering the indexes, the following figure presents the arithmetic mean of all indexes by newspapers.

**Figure 4. Mean scores of the analysed infographics**



Source: Author's own creation

While in terms of quantity *El País* stood out, with regards to quality, *El Mundo* obtained the best results, relegating Prisa's newspaper to the 6<sup>th</sup> place. The newspapers of Vocento also publish excellent infographics, reaching nearly the average index of the newspaper of Unidad Editorial, the one praised the most for its graphic quality.

With this data in hand, the following sections break down the distinctive features proposed in the method.

### 3.1. Information

In the case of information, *El Mundo* and the newspapers of Grupo de Noticias obtained in all their infographics a value of 4, as all of them answered to the 4Ws correctly. However, *El País* also obtained the highest score in all of its infographics except for one, published on 20 August, which obtained 0 in the item *Why?* and only obtained 3. Such infographic is geographical and shows the town of Ripoll within its region, in Catalonia, and therefore does not have to explain the "how" of a particular event.

Something similar happens with *El Correo* and *Diario Vasco*, which on 23 August published a map of Spain –pages 25 and 28, respectively– which indicates with numbers the exact amounts of Islamic centres of worship in the country by regions, which goes beyond the subject which concerns us here but accompanies a report linked to the 17-A, where Vocento interviews the President of the Spanish Federation of Islamic Religious Entities on the violent discourse of some imams. In this geographical infographic is not necessary to explain the when and how of an event, and so it obtained a score of 2 in this case.

Of the three infographics published by *Gara*, only one obtained the highest value in this feature, a world map published on 28 August (page 4), which shows the number of jihadist attacks around the world, which neither requires explaining the "how" of an event, and therefore obtains a score of 3.

Photograph 3.



Source: Gara, 28 August, p.1

Berria, for its part, published on its front page on 18 August, a map of Barcelona showing the journey of the van and the different events that took place, without mentioning on-site when they occurred, which is surprising given that it is an infographic that accompanies the text.

#### Photograph 4.

# Ekintzaile batek gutxienez hamahiru lagun hil ditu furgonetaz harrapatuta

Bartzelonako Rambletan sigi-saga sartu, eta eraman ditu aurretik • 100 zauritutik gora ere eragin ditu, hamabost larri • El Estatu Islamikoak hartu du bere gain atentatua • Bi pertsona atxilotu dituzte

**Amagola Mujika Tolaretxipi**

Abuztuko arratsalde eguzkitsu batean ohi bezala, turistez beteak zeuden atzo Bartzelonako Ramblak: gora eta behera paseatzen zebiltzan, arratsaldeko bostetan. Baina konturazera ko furgoneta bat sartu zitzaizen Pelai kaletik, abiadura bizian, eta sigi-saga parean suertatu zitzaizkion guztiak harrapatu zituen Liceuraino, 700 bat metroko bidean hildakoak eta zaurituak utziz. Joaquim Forn Generalitateko Barne kontseilariak baieztatu zuenez, hamahiru dira hildakoak, eta 100 zauritutik gora, baina ohartarazi zuen kopurua alda zitekeela denborak aurrera egin ahala, hamabost larri baitaude. El Estatu Islamikoak hartu du bere gain atentatua. Erasoa gertatu zen lekuan kaosa nagusitu zen. Furgoneta utzi eta alde egin zuen gidariak, ustez

**ATENTATUA BARTZELONAN**

armaturik. Poliziak haren atzetik zebiltzan bitartean, jendetza korrika eta oihuka hasi zen, beste batzuk lurrean zaurituen eta hildakoen alboan zeuden. Anbulantziak iristen hasi ziren, eta zaurituak hiru ospitaletera eraman zituzten. Poliziek, berriz, berehala itxi zuten ingurua, ahal zuten jende guztia kanporatu ostean. El Corte Ingles jendez hustu zuten, eta metroko bost geltoki itxi zituzten: bi Katalunia Plazakoak, Liceukoak, Drassanaskoak, eta Paralelekoak. Hesi polizialaren barruan geratu ziren dendetan babestu zirenak, egoera baretu bitartean.

**Testigantzak**

Paseatzen zebiltzan Rambletan Josebe Iturrioz eta Irantzu Varela ekintzaile feministak, eta Santa Diabla dendan sartu berriak ziren erasoa gertatu zenean, zer edo zer

Source: *Berria*, 18 August, front page.

### 3.2. Significance

All the studied infographics obtained the maximum value of significance, except for the one published on 28 August in *Gara* –Photograph 3–, which obtained a score of 0 in familiarity since the subject of the infographic is not familiar to the average reader of the Basque Country, which is not the target of jihadist attacks. However, it can be concluded that all the studied infographics are very significant for the audience.

### 3.3. Understanding

*El País* obtained the highest score in all its infographics in this feature. The only infographic published by *Berria* also obtained a score of 4.

In the case of *El Mundo*, 3 out of its 5 infographics did not achieve the maximum score due to their lack of simplicity and clarity. In the case of the collective and geographical infographic published on Tuesday 22 (p.9), which describes the flight of Abouyaaqoub, it presents many image and text elements in such a way that the information is not perceived clearly, and it is necessary to examine many elements unified by the title. The infographic published on Friday 18 (p.9) and Thursday 26 (p.8) lack dynamism, as they are excessively complex and concentrate many elements which makes it difficult to discern the exposed information and memorise data more or less easily.

Photograph 5.



Source: M Vaquero, J Aguirre, E Amade. *El Mundo*, 26 August, front page.

Similar to the case of *El Mundo*, an infographic of *El Correo* lacks some aspects that hinder its clarity. This infographic, created by Benítez and Ollo –Photograph 1–, it is legible and didactic, since the plurality of text and image elements are presented in an orderly manner that allow reading, by following the route of the central arrow, all the information about the event and retain the information from the top down. However, that plurality of elements –including photos– is what groups together all of these elements in a somewhat confusing way to the sight, and at the same time require an effort to highlight the texts from the graphic base, which decreases visibility, clarity and simplicity.

Photograph 6.



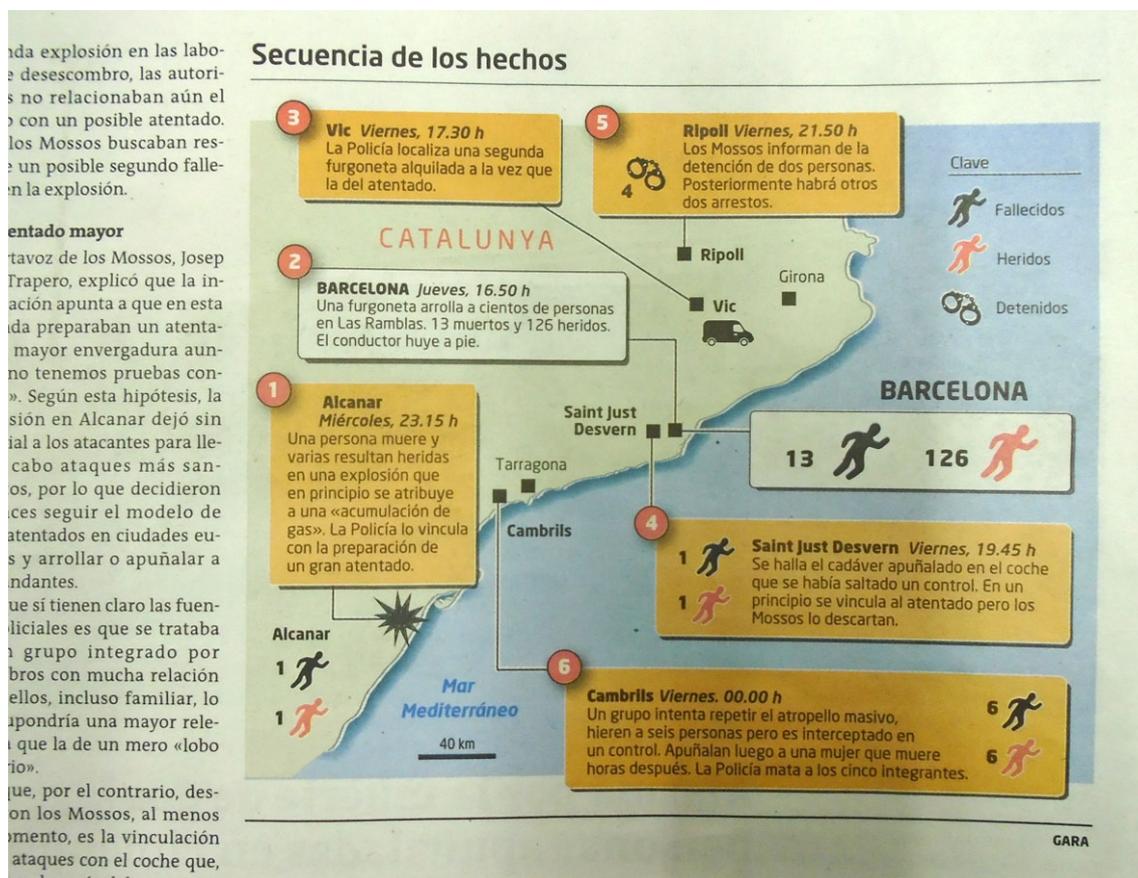
Source: Gara, 18 August, p.2.

On 24 August, *El Correo* and *Diario Vasco*, both edited by Vocento, published (in pages 24 and 25, respectively) a mega-infographic created by Benítez, which shows a map of the Mediterranean coast of Catalonia –including the metropolitan area of Barcelona and Tarragona–, which places and enumerates the different events, accompanied by new information provided by the security services, as well as a diagram showing the relationships of the 12 people involved in the attack. The tangled web of data stacked in the reduced space of the map complicates not so much its reading, but its clarity and its didactics.

With regards to the 3 infographics published in *Gara*, 2 of them are far away from the maximum score due to their lack of clarity; the one from Friday 18 –Photograph 6– is geographical and collective and provides enough data and a significant amount of text boxes.

It could be said that in its majority it is almost a “textual” infographic, which also happens with the one published on 19 August –Photograph 7–, which shows a map of Catalonia that pin-points the different events that took place on the day of the attack, also with heavy text boxes and a composition with symbols and other graphic elements that “dance” over the image.

### Photograph 7.



Source: Gara, on 19 August, p.3

This section ends with two infographics published by newspapers edited by Grupo de Noticias, starting with the only one of *Noticias de Gipuzkoa* –Photograph 2– which obtained the lowest score in understanding, with only one point on readability. Its complex composition, with countless elements in black and white complicate its visuality, annul its didacticism and simplicity. In the case of *Deia* and *Diario de Noticias de Álava*, both published a mega infographic on 22 August (pages 38-39 and 18-19, respectively), which describes the escape route of Abouyaaqoub on a map of Barcelona. It provides much information, with short and well-designed text boxes, even though they are mounted on the map in a bit messy way, which is worsened by the lack of colour and the low contrast between elements, which take two points away from its score in readability and clarity.

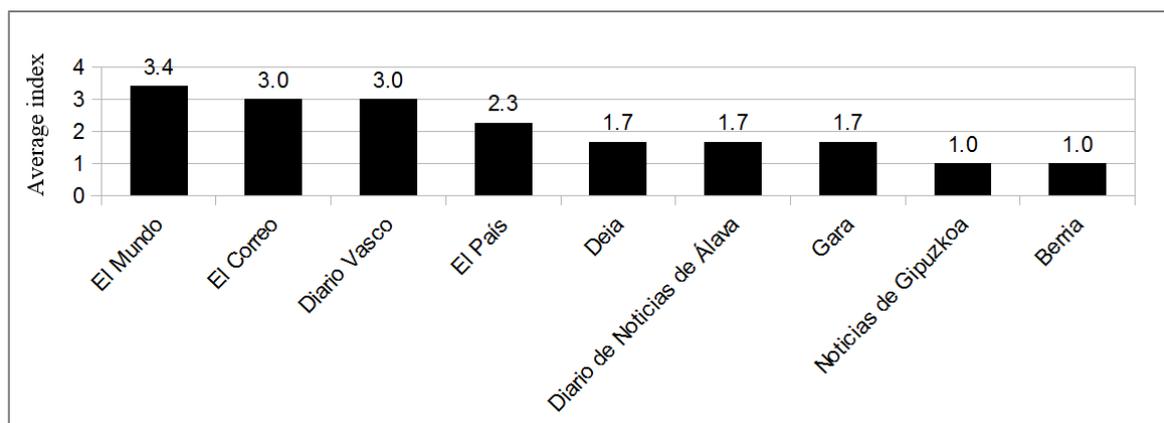
### 3.4. Aesthetics

The selected method overlooks some aspects of modern infographics, which are almost exclusively generated by a computer. Thus, none of the studied infographics has hand-made retouching, nor meets the highest score, ranging between 0 and 2. However, we can highlight some remarkably bright infographics, namely the one published on 18 August in *El País* (p.15), the mega infographic of 19 August in *El Mundo* (pp.8-9), and the infographic of 22 August in the same newspaper (p.9); the one published on 14 August in *Deia* (p.36) and *Diario de Noticias de Álava* (p.22), all of which obtained a score of 3, obtaining 1 in all properties except for “hand-made retouching”.

### 3.5. Iconicity

Based on an arithmetic mean of the scores obtained in the area of iconicity by all newspapers, we can conclude that those with the highest quality index –Figure 4– also have the highest iconicity, primarily because they include photographs and 3D figures in their infographics.

**Figure 5. Average iconicity index of the sample of newspapers**



Source: Authors own creation

The newspapers that obtained a score of 4 are: *El Mundo*: day 19, pp.8-9 and day 26 (p.8, photograph 5); *El País*: day 19, p.19; *El Correo*: day 19, pp.22-23 and day 22, pp.20-21; and *Diario Vasco*: day 19, pp.26-27- and day 22, pp.24-25. As reflected by the pagination, many of them are mega infographics, which encompass a large number of elements that increase their iconic score 4.

### 3.6. Typography

Given that all infographics must have a title that identifies them, as well as signs and explanatory texts accompanying the image, almost all of the studied cases meet the maximum score in typography, with the exception of the credits, because newspapers from the Grupo de Noticias, *Gara* and *Berria*, do not mention the author(s) of the infographics. However, the newspapers of Vocento do mention their remarkable authors, such as Benítez, Izania Olló and Isabel Toledo. For its part, *El Mundo* has infographics artists such as J Aguirre, E Amadé, A Hernández, A Barrado, N Sánchez and M Vaquero.

*El País* also displays the names of the authors, with such outstanding artists as Yolanda Clemente, Nacho Catalán, Carmen Ayuso and Rodrigo Silva.

### 3.7. Functionality

In this case, the proportions -of page and information- vary according to the size and contents of the infographics. On the other hand, and generally, the studied infographics synthesise rather than complement the information they accompany, i.e. they do not tend to provide new data to the texts but reinforce them.

Mega infographics deserve special attention as they always obtain the score of 4 points in this feature. The mega infographics, in descending order of quantity, are:

- In *El Mundo*, the ones published on the days 18 (p.9), 19 (pp.8-9), 24 (pp.10-11) and 26 (p.8, Photograph 5).
- In *El Correo*, the ones published on the days 18 (p.19, Photograph 1), 19 (pp.22-23), 22 (pp.20-21) and 24 (p.24).
- In *Diario Vasco*, the ones published on the days 19 (pp.26-27), 22 (pp.24-25) and 24 (p.25).
- In *El País*, the ones published on the days 18 (p.15), 19 (p.19) and 22 (pp.16-17).
- In *Gara*, the one published on the day 28 (p.1, Photograph 3).

According to the list, it is striking that nearly 42% of the infographics of the studied universe are mega infographics –15 of 36–, making clear the bet of the sample of newspapers on the functionality of these tools. Very remarkable is the case of the newspapers of Unidad Editorial and Vocento, which published a modest number of infographics –5 for *El Mundo*, 5 for *El Correo* and 4 for *Diario Vasco*– but top the ranking in number of mega infographics and in proportion with respect to their total.

### 3.8. Concordance

While all infographics had to be evaluated in the area of concordance, some of them have errors that are generally relating to the use of the language, that is, they present some confusion when it comes to name streets, squares and avenues of the city of Barcelona, whose official names are in Catalan.

It is clear that aside from the linguistic policy of each newspaper, in which for example the newspapers of Grupo de Noticias name the affected region “Catalunya” instead of “Cataluña” out of nationalist solidarity, using the Catalan denomination, the infographics should show idiomatic consistency, or concordance, by writing the names of the affected places in Spanish or Catalan according to the book of style of each newspaper. Thus, there are surprisingly striking cases such as the unique infographic published by *Berria* –Photograph 4– whose errors of concordance –among others– make it unacceptable.

In its book of style, the Basque newspaper specifies that it will use the original language when naming the most emblematic or symbolic streets, buildings and places, and will translate to Euskera the names of generic places (*Berria*, n.d.: *Hiri eta herrietako toponimia*). However, in its infographic, this newspaper mixes the Catalan and Basque languages without any criteria when naming streets. A clear example is the case of Barcelona’s Pelayo street –Catalan: *Carrer de Pelai*–, which is translated as *Pelai kalea*, when the name in Basque would be *Pelαιο kalea*. However, Aragón street –*Carrer d’Aragó*– is translated to the Basque language literally as –*Aragoi kalea*–. The infographic keeps original names such as *Born*, *Barceloneta* and *Gran Vía*, but translates the name of the Gothic Quarter –*Gotiko Auzoa*–. This tangle of terms reduces its clarity in 20 points.

The same happens with the infographic published on 26 August in *El País*, “Demonstration in Barcelona against terrorism” (p.14), which from the beginning seems to prefer the Spanish names, by calling the city council of the capital *Ayuntamiento de Barcelona*, instead of *Ajuntament de Barcelona*, which is its official name [9]. However, the newspaper names the Catalan government *Generalitat de Catalunya*, which mixes two separate terms in Catalan and Spanish –*Generalidad de Cataluña* and *Generalitat de Catalunya*–, which produces some confusion. The mixing of two languages also occurs

when naming Catalonia Square, which is named *Plaza de Catalunya* instead of using the language of Cervantes, or simply using the Catalan denomination: *Plaça de Catalunya*. Amusingly, the newspaper keeps the names of the rest of the streets in the native language, except for the streets of Aragon and Majorca, without any apparent criterion that justifies it.

These errors and another more serious error are present in the infographic of the day 18 in *Gara* – Photograph 6 -, which maintains the street names in the language of Lully, but names Catalonia Square as *Plaza de Catalunya*, in contrast with Saint James's Square, which is labelled *Plaça de Sant Jaume*.

However, apart from spelling errors, it is striking how *Gara* identifies the van of the attacker, pointing out that it is an Opel Vivaro, when the rest of the newspapers published it was a Fiat Talento. This fact does not blur the essence of the event but distorts or ignores a fact that may be relevant to the case.

#### 4. Discussion and conclusions

According to the results presented above, it is important to highlight the confirmation of the hypothesis that proposed that *El Mundo* newspaper publishes the best-quality infographics. However, surprisingly *El País* is not the newspaper that accompanies it in the level of quality, but *El Correo* and *Diario Vasco*, which are owned by Vocento and had also been praised in previous research for the quality of their infographics. However, it is worth highlighting that Prisa's newspaper published the largest number of infographics during the period under study, becoming the first newspaper in trusting this informative material in the exercise of journalism and a reference in this field at the Spanish and Basque levels.

Also worth mentioning is the infographic production of the newspapers of Grupo de Noticias –*Deia*, *Diario de Noticias de Álava* and *Noticias de Gipuzkoa*–, which do not produced a remarkable number of infographics in the period of analysis but obtained outstanding results in quality, which suggests that these newspapers increasingly trust the virtues of the infographic as an information format. In contrast, the infographic production of *Gara* and *Berria* obtained the worse results both in terms of quantity and quality, perhaps linked to the reduced availability of resources due to their smaller audience and relevance of their media companies.

With regards to the research design, it is important to note the virtues of the method proposed by Valero Sancho, who offers a concise and excellently designed formula for the assessment of infographics, which allows for a fast, accurate, and truthful analysis, as well as the comfortable collection of data and a concise and clear presentation of results, which highlights:

- In terms of information, all of the studied infographics scored, with few exceptions, the maximum value, so it can be affirmed that all of them add to their final quality index a high informative level.
- In terms of significance, all of the studied infographics achieve the maximum value, except for *Gara*, and are mostly current and useful for their readers.
- In terms of understanding, it can be said that the studied infographics are very comprehensible, particularly the ones published by *El País* and the only one published by *Berria*, while the rest have one or more infographics that do not reach the maximum score mostly due to a lack of clarity.

- In terms of aesthetics, most of the studied infographics obtained very low scores, which suggests greater interest for other infographic features than for this aspect.
- In terms of iconicity, *El Mundo*, *El Correo* and *Diario Vasco* obtained the highest scores, especially due to their use of pictures and 3D figures, derived from a high level of detail, which is characteristic of a professional development.
- In terms of typography, all of the studied infographics obtained high scores, although only the newspapers owned by Vocento and *El Mundo* and *El País* tend to mention the authors of their infographics, which in the first case usually is Benítez, Ollo and Toledo; in the second, Aguirre, Amade, Hernández, Barrado, Sánchez and Vaquero; and in the third, Clemente, Catalán, Ayuso and Silva.
- In terms of functionality, each infographic obtained different scores based on its features. However, it is important to note the mega infographics which always scored 4 points in *El Mundo* (4 out of 5 mega infographics), *El Correo* (4/5), *Diario Vasco* (3/4), *El País* (2/11) and *Gara* (1/3). Almost 42% of the studied infographics are mega infographics, which makes clear the general bet of the sample of newspapers on the functionality of these tools, especially in the case of the newspapers of Unidad Editorial and Vocento regarding their total amounts.

As a final touch, it can be argued that Basque newspapers produced quality infographics about the tragic event of great international interest and made frequent use of the infographic as informative material, highlighting its value and even more the journalistic and academic interest in future research in this field.

## 5. Notes

[1] “When men began to use [...] writing, their science and skill did not fail to support this emerging form of communication with another form that already dominated, as it was very old. Thus, the liturgy of the first writing was complemented and highlighted with drawings connected to each other, so that the information could be interpreted by the most cult people with access to the signs of the message”. De Pablos, 1998: *La sinergia de la comunicación subrayada* (“The synergy of highlighted communication”), para.1

[2] “Today the limit of the Basque country extends across the Spanish and French border [...]. The Basque linguistic space in northern Spain extends across four provinces: Bizkaia (Vizcaya), Araba (Alava), Gipuzkoa (Guipúzcoa), and Nafarroa (Navarra). The Basque region of France includes the ancient provinces of Labourd (Lapurdi), Basse-Navarre (Nafarroa Beherea), and Soule (Zuberoa) [...]. The seven historic Basque provinces symbolize one of the historic slogans of the Basque movement: Zazpiak bat (The seven are one, that is four Spanish Basque provinces plus three French Basque provinces equals one [...] Basque nation)”. Jacob, 1994: p. XV).

[3] Retrieved on 22 January 2018 from: <https://mediabask.naiz.eus/>

[4] “*Deia* has been since its inception a project [...] that emerged thanks to the impulse of thousands of subscribers who chose to have their own medium that was focused on representing Euskadi and the world from their own perspective, on the identification with culture and on the Basque social idiosyncrasy, and generated on the basis of priorities, concerns and needs of the citizens of this country”. *Deia*, 2017: para.1

[5] In its first issue of 2 January 1999 (p.2), *Gara* stated: “the assertion that *Gara* has been conceived as a newspaper of Euskal Herria (...) is not an advertising slogan (...). It is the basis upon which each page of this newspaper will be built every day (...). This Basque national vision will also permeate the rest of the sections”.

[6] The abbreviations that are used to synthesise the names of the features are the author’s own contribution.

[7] In this regard, the author expands the details about the educational possibilities of infographics in the lecture delivered in the V. Latina Conference of Social Communication (Castañeda Zumeta, 2013).

[8] In this sense, one might think that any infographic that scores 0 in a characteristic not concerning aesthetics would be ruled out of this study, but this did not occur in any of the cases, although one infographic was discarded because it did not have a title, which is essential to consider its content as part of a single properly analysed unit - front page of 18 August in *El País* -.

[9] Retrieved on 28 January 2018 from: <http://ajuntament.barcelona.cat/es/>

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