
http://www.uoc.es/in3

DIFFUSION AND USES OF INTERNET IN CATALONIA AND IN SPAIN
A Commented Summary of Available Evidence, as of 2001.

Manuel Castells
María Isabel Díaz de Isla
Researchers, IN3-UOC

December 2001

PROJECT INTERNET CATALONIA (PIC)
PIC Working Paper Series
PICWP/1201
http://www.uoc.es/in3/wp/picwp1201

|  |  | WORKING PAPER |
| :--- | :--- | ---: |
| TITLE | DIFFUSION AND USES OF INTERNET IN CATALONIA AND IN SPAIN <br> A Commented Summary of Available Evidence, as of 2001. <br> RESEARCHERS <br> Manuel Castells <br> María Isabel Díaz de Isla <br> Researchers, IN3-UOC <br> December 2001 <br> PATE <br> PROJECT |  |
| PIC Working Paper Series |  |  |$\quad$ PICWP/1201 |  |
| :--- |

## KEYWORDS

Internet, Catalonia, Spain, statistics, diffusion, Internet uses, socio-demographic characteristics.


#### Abstract

This working paper summarizes and analyzes the statistics provided by available studies on the spread and uses of Internet in Catalonia, in Spain, and in selected Spanish regions circa 2001. A data base was established by collecting and evaluating studies and surveys from various sources. Their methodology is described in the study. Relevant variables are identified, and tables are built for each variable bringing together data from various sources. An analytical commentary highlights the main findings concerning the relationships between Internet and society in Catalonia, in Spain, and in the Spanish Regions. A number of hypotheses on these relationship are suggested.


## SUMMARY

## 1. INTRODUCTION

2. THE CATALAN NETWORK SOCIETY. A commented summary of the evidence on the uses of Internet in Catalonia, 1999-2001.
2.1. Tables on Catalonia (Organized by Variables)
2.1.1. Internet use variables
2.1.2. Demographical and sociological variables of Internet users
3. THE SPANISH NETWORK SOCIETY. A commented summary of the evidence on the uses of Internet in Spain, 20002001.
3.1. Tables on Spain (Organized by Variables)
3.1.1 Internet use variables
3.1.2. Demographical and sociological variables of Internet users
4. THE NETWORK SOCIETY IN THE SPANISH REGIONS. A commented summary of the evidence on the uses of Internet in Spanish Regions, 2000-2001
4.1. Tables on Spanish Regions (Organized by Variables)
4.1.1. Internet use variables
4.1.2. Demographical and sociological variables of Internet users

## 5. METHODOLOGICAL NOTE

5.1. Procedure followed in the elaboration of this analytical summary
5.2. Description of Studies \& Surveys included in the Data Base
5.2.1. List of Studies
5.2.2. Characteristics of each study
6. APPENDICE: LISTING OF VARIABLES ANALYZED
6.1. Internet use variables
6.2. Demographical and sociological variables of Internet users

## 4. THE NETWORK SOCIETY IN THE SPANISH REGIONS.

## A commented summary of the evidence on the uses of Internet in Spanish Regions, 2000-2001

The data for the Spanish Regions are very similar to those reflected in the Spanish summary, but every Region has certain peculiarities.

The percentage of households connected to the Internet vary for every Region, being the differences among them quite significant. While in Navarra the studies reported $14.5 \%$ of households connected to the Internet for 2000, in Euskadi, the reported percentage is $23 \%{ }^{142}$ for 2001 . This difference is also reflected in the number of Internet users: in Navarra $18.5 \%$ of the population uses Internet, while in Euskadi the percentage of Internet users is $20.7 \%$. The Region with the lowest percentage of Internet users is Castilla La Mancha (11,2\%) (See Fig 9). The evolution of Internet users for the period 1997-2001 shows that there has been a high growth rate of Internet users ${ }^{143}$. However, the current percentage of Internet users in every region is quite different. We could think the causes for these differences are the amount of population for each region or the technical development of it.

Fig 9 - \% Persons connected to the Internet (\% over total population)

|  | EGM (2001) | AIMC (2001)* |
| :--- | :--- | :--- |
| Region | \% Persons connected to the Internet | \% Persons connected to the Internet |
|  |  |  |
| Andalucía | $16.6 \%$ | $11.8 \%$ |
| Aragón | $13.5 \%$ | $2.8 \%$ |
| Asturias | $19.1 \%$ | $3.3 \%$ |
| Baleares | $20.3 \%$ | $1.8 \%$ |
| Canarias | $17.5 \%$ | $3.8 \%$ |
| Cantabria | $15.6 \%$ | $1.2 \%$ |
| Castilla y León | $14.3 \%$ | $5.6 \%$ |
| Castilla La Mancha | $11.2 \%$ | $2.8 \%$ |
| Catalunya | $24.8 \%$ | $21.1 \%$ |
| Comunidad Valenciana | $20.1 \%$ | $9.1 \%$ |
| Extremadura | $13.7 \%$ | $1.8 \%$ |
| Galicia | $12 \%$ | $4.7 \%$ |
| Madrid | $22.8 \%$ | $19.8 \%$ |
| Murcia | $14.8 \%$ | $2 \%$ |
| Navarra | $18.5 \%$ | $1.4 \%$ |
| País Vasco (Euskadi) | $20.7 \%$ | $5.9 \%$ |
| La Rioja | $22.9 \%$ | $0.7 \%$ |
| Ceuta y Melilla |  | $0.2 \%$ |
| Doesn't know or doesn't answer |  | $0.4 \%$ |
| Total | - | $100 \%$ |

* Percent distribution of the surveyed people. For this reason total is $100 \%$

Taking a snapshot of one particular city, the study reporting data about a town in Murcia, Cieza, referring to the percentage of Internet users according to household dimension are very similar to Spain: the highest percentage of Internet users belongs to households where four people live (39\%), while the lowest percentage refers to households with eight people ( $2 \%)^{144}$. In addition, the household income clearly defines the percentage of Internet users: in La Rioja households with 210,000-420,000 show the highest percentage of users $(25.5 \%)^{145}$, which represent the medium class. The age of Internet users also follows the trend in Spain: $48.8 \%$ of users in La Rioja are between 18 and 31 years old, and in Navarra $28 \%$ of users are between 15 and 24 years old ${ }^{146}$.

[^0]The gender distribution in the regions is also similar to Spain: in La Rioja 66.5\% of Internet users are men, and $33.5 \%$ are women ${ }^{147}$, while in Navarra the percentage for men is $61 \%$ and $39 \%$ for women ${ }^{148}$. Regarding the educational level, the highest percentage of Internet users belongs to Internet users with an University degree: in Euskadi, $43.4 \%$ of the population ${ }^{149}$ and La Rioja, $48.1 \%$ of Internet users ${ }^{150}$. The exceptions are Navarra and Cieza (Murcia), where the percentage of Internet users with secondary education is the highest ( $41 \%$ of users in Navarra and $37 \%$ of the users in Cieza) ${ }^{151}$

Once the socio-demographic features of Internet users have been stated, we have to study the typology of uses of the Internet. There is not much information about the Regions in this field in the several surveys. We only have data from Navarra and they are surprising because they do not show the general trend of the uses of the Internet in Spain. While in Spain the most important activity of Internet users is the search for information, in Navarra it is chat ( $44.8 \%$ of Internet users who connect from home do it), followed by the search for information ( $40.8 \%$ of Internet users who connect from home). We would like to have more information about what is the main activity of the Internet of users who connect from other places to check the importance of the Internet as an informational tool. It is also important the leisure/entertainment typology : 32.1\% of Internet users in Navarra download music, which is similar to the situation in Spain (39.4\% of Internet users) ${ }^{152}$

Another relevant data is the percentage of mobile phone users. While in Navarra $43.6 \%$ of the population use a mobile phone, in Catalonia $77.3 \%$ of the population use it ${ }^{153}$. It could be hypothesized that there is a positive correlation between the percentage of mobile users and the percentage of Internet users. However we need more information about the rest of the regions to check the hypothesis.

Place of connection and frequency of connection of Internet users have also to be taken into account. Like in Spain, the place where most Internet users connect is their household ( $21 \%$ of population in Euskadi and $55.9 \%$ of Internet users in Catalonia), followed by the place of work ( $15 \%$ of population in Euskadi and $36.6 \%$ in Catalonia). However, Navarra shows the opposite trend: the percentage of population who connect to the Internet from work is higher than the percentage of population who connect from household $(9.8 \%$ the former and $14.9 \%$ the latter) ${ }^{154}$. Regarding the frequency of connection, Internet users prefer to connect weekly both in Euskadi and in Murcia ${ }^{155}$. In addition, the favourite days of the week for users to connect in Navarra are Saturday ( $64.2 \%$ of users) and Sunday $(62.5 \%)^{156}$. We could think that there is an increase of Internet use on the weekends due to the higher amount of free time of the user. However, it has to be pointed that the increase of Internet use in weekends does not necessarily mean that the Internet is mostly used as a leisure tool.

The information about use of on-line education by Internet users is very scarce. We only know the number of IT PhD and IT Degrees by Region. Catalonia offers the highest number of courses (133), while Extremadura, Cantabria and Navarra offer the lowest number of courses (2 courses every Region). We don't know the percentage of these IT PhD and IT Degrees which are offered on line ${ }^{157}$.

Let's consider now the Public Administration sector. The percentage of Public Administration regional institutions with an accessible website report that the lowest percentage belongs to Cantabria (66.7\%) and the highest belongs to Navarra ( $100 \%$ ). However, we need to go further, because not all Regions have the same number of institutions, so the percentages may be a little tricky: it's easier for a Region to have a higher percentage if the number of institutions is lower (See Fig. 10 to have a clearer idea of the actual situation)

Fig 10-\% of Public Administration institutions with an accessible website by Region

[^1]| eEspaña 2001 |  |  |  |
| :--- | :--- | :--- | :--- |
| Region | Total Public <br> Administration <br> institutions | Total Public Administration <br> institutions with an <br> accessible website | \% of Public Administration <br> institutions with an accessible <br> website (\% over the total) |
| Andalucía | 79 | 58 | $73.4 \%$ |
| Aragón | 7 | 5 | $71.4 \%$ |
| Asturias | 10 | 7 | $70 \%$ |
| Baleares | 13 | 12 | $92.3 \%$ |
| Canarias | 25 | 17 | $68 \%$ |
| Cantabria | 6 | 4 | $66.7 \%$ |
| Castilla-La Mancha | 19 | 15 | $78.9 \%$ |
| Castilla y León | 24 | 18 | $75 \%$ |
| Catalunya | 86 | 77 | $89.5 \%$ |
| Ceuta | 2 | 2 | $100 \%$ |
| Comunidad Valenciana | 49 | 41 | $83.7 \%$ |
| Extremadura | 11 | 9 | $81.8 \%$ |
| Galicia | 23 | 18 | $78.3 \%$ |
| La Rioja | 3 | 2 | $66.7 \%$ |
| Madrid | 30 | 22 | $73.3 \%$ |
| Melilla | 2 | 1 | $50 \%$ |
| Murcia | 15 | 8 | $86.7 \%$ |
| Navarra | 6 | 6 | $100 \%$ |
| País Vasco (Euskadi) | 22 | 18 | $81.8 \%$ |
|  |  |  |  |

The immediate question which arises is : what kind of e-information is available for the citizen on the Public Administration institutions websites? Of course, every institution has its own information, but in general $67 \%$ of the websites display information about public competition, followed by $63 \%$ of websites containing information about subventions. On the contrary, $34 \%$ of the websites display information about proceedings and only $32 \%$ about taxes (See Fig 11). What is curious is that if the second highest percentage of IT use inside Public Administration institutions is set in the tax management area ( $90 \%$ of IT use) ${ }^{158}$, how can it be possible that the tax area is the one in which the citizen has the least possibilities of using IT?. It could be hypothesized that Public Administrations institutions use IT as an informational tool rather than an instrumental tool, maybe because the use of IT is not so much spread over the population or that the possibilities of reducing bureaucracy with IT are still unknown.

Fig 11-\% of e-information available for the citizen in the Public Regional Administrations

| eEspaña 2001 |  |
| :--- | :--- |
| Competition for a job | $67 \%$ |
| Subsidies | $63 \%$ |
| Contest | $62 \%$ |
| General information | $60 \%$ |
| Application forms | $57 \%$ |
| Publications | $45 \%$ |
| Claims | $38 \%$ |
| Proceedings | $34 \%$ |
| Taxes | $32 \%$ |

As far as business firms are concerned, by 2000, the highest percentages of firms with Internet access was set in Madrid (68\%), and Catalonia (64\%), and the lowest in Extremadura (40\%) ${ }^{159}$. If we look at the percentage of Internet users by region, we see that there is a positive correlation between the percentage of Internet users and the percentage of firms with Internet access by region. It could be hypothesized that the higher use in firms the higher use in particular users and viceversa. Regarding the kind of use of Internet in firms, it is very similar to the use of particulars: the main purpose of Internet is the search for information

[^2](74.2\% of firms with Internet access in Navarra) and the use of e-mail (78\% of firms with Internet access in Cieza and $91 \%$ of firms with access in Baleares). E-bank is also an important firm's use in Navarra, much more important than the particular's use ( $53.1 \%$ of firms use e-bank versus $24.5 \%$ of e-bank particular users in Navarra). However, the lowest percentage of Internet use of firms refer to e-commerce: $6.9 \%$ of firms in Navarra with Internet access purchase goods and services by the Internet, and only $3.9 \%$ of firms sale products ${ }^{160}$. However, it should be interesting to have data concerning the incomes of e-commerce to hypothesize properly about the situation of e-commerce in every region. The data for the Regions show that the percentage of firms with e-commerce is still not very high, although the data for a region from different studies are significantly different (see Fig 12). The possible causes for the low percentage of firms with ecommerce, as in the Spain case, could be the few customers ( $43 \%$ of firms with e-commerce in Baleares report this statement as a medium problem for e-commerce) ${ }^{161}$ and the lack of security of Internet ( $21 \%$ of firms without e-commerce report this statement as a big barrier for e-commerce) ${ }^{162}$. However, it is very difficult to elaborate statements with so few data for Regions, but it could be said that e-commerce is still less spread than particular use, so firms should trust more in IT or there could be a digital divide between particular users and business firms regarding IT use.

Fig 12 - \% of business firms with e-commerce by Regions

|  | eEspaña 2001 |  | Tecnologías SSI (2000) |  |
| :--- | :--- | :--- | :--- | :---: |
| Region | \% of business firms with <br> e-commerce over firms <br> with Internet presence | \% of business firms with e- <br> commerce over the total of <br> business firms | of business firms with e- <br> commerce over the total <br> business firms |  |
| Andalucía | $33.9 \%$ | $10.5 \%$ | $8 \%$ |  |
| Aragón | $22.6 \%$ | $9.6 \%$ | $12 \%$ |  |
| Asturias | $36.3 \%$ | $11.9 \%$ | $13 \%$ |  |
| Baleares | $42 \%$ | $16.5 \%$ | $7 \%$ |  |
| Canarias | $40.9 \%$ | $8.2 \%$ | $10 \%$ |  |
| Cantabria | $29.7 \%$ | $8.6 \%$ | $16 \%$ |  |
| Castilla-La Mancha | $28.4 \%$ | $5.1 \%$ | $15 \%$ |  |
| Castilla y León | $8.5 \%$ | $2.2 \%$ | $10 \%$ |  |
| Catalunya | $33 \%$ | $10.9 \%$ | $14 \%$ |  |
| Comunidad Valenciana | $28.8 \%$ | $9.6 \%$ | $15 \%$ |  |
| Extremadura | $41.4 \%$ | $7.8 \%$ | $5 \%$ |  |
| Galicia | $25.4 \%$ | $9.3 \%$ | $14 \%$ |  |
| Madrid | $46 \%$ | $20.4 \%$ | $23 \%$ |  |
| Murcia | $51 \%$ | $13.7 \%$ | $13 \%$ |  |
| Navarra | $18.6 \%$ | $4.9 \%$ | $4 \%$ |  |
| País Vasco (Euskadi) | $20.5 \%$ | $4.9 \%$ | $25 \%$ |  |
| La Rioja | $25.5 \%$ | $5.6 \%$ |  |  |

In sum, the situation in Spanish Regions is quite similar to the situation in Spain at large, specially concerning the sociological features of particular users or the situation of e-commerce. However, the regions show significant differences in aspects such as the penetration rate. It has to be taken into account that every region has certain cultural, economic, and geographical peculiarities which make them different one from another, and these may also affect the use of the Internet. Indeed, we observe a difference in the rate of penetration between regions, and this difference is closely correlated with the level of economic development, and with the educational status of the population. In the Baleares the rate of penetration of Internet is lower than would correspond to their status as the wealthiest region of Spain. However, this is because of the fact that average income in the Baleares is inflated by the high concentration of income in the top $20 \%$ of the population of the islands. Overall, Catalonia and Madrid continue to signal their economic and educational preeminence, while the less developed regions of Spain (the Castillas, Galicia, Extremadura) lag in the diffusion of the Internet as they lag in most other indicators of development. Since the learning curve in the use of the Internet is dependent on the time of its adoption, it seems necessary a deliberate regional policy that would have the diffusion of Internet as an important feature of the strategy to reduce regional inequality in the information economy. An interesting example of this kind of regionally-based initiatives is the

[^3]policy of the Comunidad de Murcia concerning the Ciez@net program for the city of Cieza. Otherwise there could be a danger of a growing digital divide between the Spanish Regions.

### 4.1. Tables on Spanish Regions (*)

(Organized by Variables)
(*) We have organized the tables according to the variables we have studied on the basis of available data. We have numbered the variables, given one number to each variable, as per the list of variables shown in the appendice of this working paper.
Thus, tables do not have numbers, variables do. Each number is unique for each variable. All data concerning the variable from various sources are included in the table characterizing each variable. However, since our study concerns three different contexts: Catalonia, Spain, and Spanish Regions, tables are presented in three different blocks at the end of each section of the paper. For each context, we continue to identify the variables by their unique number, but naturally the data for the same variable are different in each one of the three contexts, and so are the tables that share the same number of the end of the three sections.

In each table we have indicated the specific source for each one of the statistics displayed in the table. Statistics may differ and usually do. This is exactly the purpose of our study: to show the diversity of estimates for the same variable, referring the reader to the methodological note in appendice for her/him to evaluate the reliability of each one of the sources presented.

### 4.1.1. Internet use variables (Spanish Regions)

## Access to Internet and use by households and persons in Spanish Regions

1. a) \% Households in País Vasco connected to the Internet

| OSIE (2001) |  |
| :--- | :--- |
| \% Households in País Vasco connected to the Internet | $23 \%$ |

1. b) \% Households in La Rioja connected to the Internet

| Fundación Riojana (2001) |  |
| :--- | :--- |
| \% Households in La Rioja connected to the Internet | $19.1 \%$ |

1. c) \% Households in Navarra connected to the Internet

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| \% Households in Navarra connected to the Internet | $14.5 \%$ |

1. d) \% Households in Catalunya connected to the Internet

|  | Estadístique <br> s SI (2001) | Ómnibus <br> Municipal <br> (2001) | Encuesta metropolitana <br> $(2000)$ |
| :---: | :---: | :---: | :---: |
| \% Households in Catalunya connected to the Internet | $27.1 \%$ | $37.1 \%$ | $23.2 \%$ |

3. a) \% Persons connected to the Internet (\% over total population)

|  | EGM (2001) | AIMC (2001) ${ }^{164}$ |
| :--- | :--- | :--- |
| Region | \% Persons connected to the Internet | \% Persons connected to the Internet |
|  |  |  |
| Andalucía | $16.6 \%$ | $11.8 \%$ |
| Aragón | $13.5 \%$ | $2.8 \%$ |
| Asturias | $19.1 \%$ | $3.3 \%$ |
| Baleares | $20.3 \%$ | $1.8 \%$ |
| Canarias | $17.5 \%$ | $3.8 \%$ |
| Cantabria | $15.6 \%$ | $1.2 \%$ |
| Castilla y León | $14.3 \%$ | $5.6 \%$ |
| Castilla La Mancha | $11.2 \%$ | $2.8 \%$ |
| Catalunya | $24.8 \%$ | $21.1 \%$ |
| Comunidad Valenciana | $20.1 \%$ | $9.1 \%$ |
| Extremadura | $13.7 \%$ | $1.8 \%$ |
| Galicia | $12 \%$ | $4.7 \%$ |
| Madrid | $22.8 \%$ | $19.8 \%$ |
| Murcia | $14.8 \%$ | $2 \%$ |
| Navarra | $18.5 \%$ | $1.4 \%$ |
| País Vasco (Euskadi) | $20.7 \%$ | $5.9 \%$ |
| La Rioja | $22.9 \%$ | $0.7 \%$ |
| Ceuta y Melilla |  | $0.2 \%$ |
| Doesn't know or doesn't answer |  | $0.4 \%$ |
| Total | - | $100 \%$ |

3. b) \% Persons connected to the Internet in La Rioja (\% over total population)

|  | Fundación Riojana (2001) |  |
| :--- | :--- | :--- |
| $\%$ Persons connected to the Internet | $22.3 \%$ |  |

[^4]3. c) \% Persons connected to the Internet in Navarra (\%over total population ${ }^{165}$ )

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| \% Persons connected to the Internet in Navarra | 28.9 \% |

4. \% Persons connected to the Internet in Catalunya over total population ${ }^{166}$ (distributed by frequency of use.)

| Estadístiques SI (2001) |  |
| :--- | :--- |
| Occasionally | $42.9 \%$ |
| Once or more times per month | $35.4 \%$ |
| Once or more times per week | $29.8 \%$ |
| Daily | $14.4 \%$ |

[^5]Diffusion and uses of Internet in Catalonia and in Spain

|  | Andalu |  | Arago |  | Astuias |  | Baleas |  | Snaias |  | Canabria |  | Casila |  | ${ }_{\text {Eam }}^{\text {Coma }}$ | Oon1/ Espl | araol) | Telefericic | (2007) ${ }^{\text {max }}$ |  | Extemat |  |  |  | Madid |  | Murcia |  | Navara |  | Pais Vasa |  | La |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\underset{\substack{\text { Yeary } \\ \text { gopow } \\ 0.0}}{\substack{0}}$ | $\begin{aligned} & \text { \% of } \\ & \text { Intemet } \\ & \text { users } \end{aligned}$ | $\begin{aligned} & \text { Yeary } \\ & \text { gory } \\ & \text { Qoput } \end{aligned}$ | $\begin{aligned} & \text { \% of } \\ & \text { Internet } \\ & \text { users } \end{aligned}$ | $\underset{\substack{\text { Yearly } \\ \text { goput } \\ 8001}}{\substack{\text { col }}}$ |  |  |  | $\underset{\substack{\text { Yeary } \\ \text { grown } \\(00)}}{\substack{\text { con }}}$ |  | $\begin{aligned} & \text { Yearly } \\ & \text { goput } \\ & \text { ono } \end{aligned}$ |  |  |  |  |  | $\begin{gathered} \substack{\text { Yeary } \\ \text { goput } \\ \text { Qopo } \\ \hline 0.0} \end{gathered}$ |  |  | $\begin{aligned} & \text { \% of } \\ & \text { Internet } \\ & \text { users } \end{aligned}$ |  | $\begin{array}{\|l\|l\|} \hline \text { ainciad } \\ \text { intent } \\ \text { Intenet } \\ \text { users } \end{array}$ | $\left.\begin{array}{c} \text { Yearly } \\ \text { gove } \\ \text { gow } \\ \hline 0.0 \end{array}\right)$ |  |  | $\begin{aligned} & \text { \% of } \\ & \text { Internet } \\ & \text { users } \end{aligned}$ |  | $\begin{aligned} & \text { \% of } \\ & \text { Intemet } \\ & \text { users } \end{aligned}$ |  | $\begin{gathered} \text { Palsvase } \\ \substack{\text { Pitent } \\ \text { nienet } \\ \text { usess }} \end{gathered}$ | $\begin{gathered} \substack{\text { yearly } \\ \text { grown } \\ \hline(0)} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { \% of } \\ & \text { Internet } \\ & \text { users } \end{aligned}$ | $\underset{\substack{\text { Yearly } \\ \text { gopun } \\(000)}}{\substack{\text { on }}}$ |
| 1997 | ${ }^{1.5}$ |  | 22 |  | ${ }_{3}{ }^{4}$ |  | ${ }_{4}{ }^{3}$ |  | 1.9 |  | 1.2 |  | 1.6 |  | 1.7 |  | 4.8 |  | 28 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1998 | ${ }^{26}$ | ${ }^{73,3}$ | 5.8 | ${ }^{1636}$ | 3.9 | ${ }^{14.7}$ | 5.2 | 20.9 | 4.7 | ${ }^{177.3}$ | 4.1 | ${ }^{241.6}$ | 3.9 | ${ }^{143.7}$ | 1.2 | ${ }^{20.4}$ | ${ }^{8.2}$ | ${ }^{70.8}$ | 4.9 | ${ }_{5}^{75}$ | 2.9 | ${ }^{7} 0.5$ | 2.5 | ${ }^{56.2}$ | ${ }^{5.7}$ | ${ }^{46.1}$ | ${ }_{6}$ | ${ }^{135.2}$ | ${ }_{5}^{5.5}$ | ${ }^{37.5}$ | 4.5 |  |  | ${ }^{25}$ |
| 1999 | ${ }^{4.6}$ | ${ }^{76.9}$ | 8 | $\frac{37.9}{525}$ | ${ }^{5.3}$ | ${ }^{35.8}$ | ${ }^{6.6}$ | ${ }^{26.9}$ | ${ }^{6.2}$ | ${ }^{31.9}$ | ${ }^{6.1}$ | ${ }^{48,7}$ | 4.9 | ${ }^{25.6}$ | ${ }^{3.7}$ | ${ }^{208.3}$ | ${ }^{11.5}$ | ${ }^{40.2}$ | ${ }^{7.5}$ | ${ }_{5}^{53}$ | ${ }_{6}^{4.8}$ | $\frac{655}{437}$ | ${ }_{4}^{4.4}$ | ${ }_{86}^{76}$ | ${ }^{9.7}$ | ${ }^{70.1}$ | ${ }^{6.6}$ | ${ }^{6} 12$ | ${ }^{566}$ | ${ }_{1.8}^{1.864}$ | ${ }^{6.5}$ | ${ }_{4}^{44.4}$ | ${ }^{7.2}$ | ${ }_{44}^{402}$ |
| 2001 | ${ }^{10.6}$ | ${ }_{64,3}$ | ${ }_{1}^{12.5}$ | ${ }^{20.6}$ | ${ }^{19.1}$ | 78.5 | ${ }^{20.3}$ | ${ }_{48.1}$ | ${ }^{17.5}$ | ${ }^{89.5}$ | ${ }^{9.3} 5$ | ${ }_{6}^{67.7}$ | ${ }_{14.3}^{8.8}$ | ${ }_{62.5}^{9.5}$ | ${ }^{\text {¢ }} 1.2$ | ${ }^{\text {24.9 }}$ | ${ }_{24}^{18.8}$ | ${ }^{63.3}$ | ${ }^{12.1}$ | ${ }_{60.8}^{60.6}$ | ${ }_{1}^{13.7}$ | ${ }^{48,5}$ | ${ }^{12}$ | ${ }_{46.3}^{86.3}$ | ${ }^{228}$ | ${ }_{39}^{69}$ | ${ }^{14.8}$ | ${ }_{2}^{2.2}$ | ${ }_{18,5}^{18.5}$ | ${ }^{164}$ | ${ }^{20.7}$ | 47.8 | ${ }_{2} 2.9$ | ${ }_{32,3}^{420.2}$ |
| Total |  | 1006.6 |  | 513.6 |  | 461.7 |  | 372 |  | ${ }^{821}$ |  | 1200 |  | ${ }^{793.7}$ |  | 556.8 |  | 416.6 |  | ${ }^{617.8}$ |  | 705.8 |  | ${ }^{650}$ |  | ${ }^{484.6}$ |  | ${ }^{70.5}$ |  | ${ }^{362.5}$ |  | ${ }^{728}$ |  | 472.5 |

${ }^{167}$ Both eEspaña 2001 and Telefonica (2001) report data from the EGM (2001) source
© 2001 Manuel Castells and María Isabel Díaz de Isla
6. Evolution of percentage of persons connected to the Internet ${ }^{168}$ in Catalunya (distributed by frequency of use. ) (2000-2001)

| Estadístiques SI (2001) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Occasionally |  | Once or more times per month |  | Once or more times per week |  | Daily |  |
|  | \% of persons connected to the Internet over total population | Growt h rate (\%) | \% of persons connected to the Internet over total population | Growt $h$ rate (\%) | \% of persons connected to the Internet over total population | Growth rate <br> (\%) | \% of persons connected to the Internet over total population | Growth rate (\%) |
| 2000 | 33.3\% | - | 24.8\% | - | 20.6\% | - | 10\% | - |
| 2001 | 42.9\% | 28.8 | 35.4\% | 42.7 | 29.8\% | 44.6 | 14.4\% | 44 |
|  |  |  |  |  |  |  |  |  |
| $\begin{array}{l\|} \hline \text { Total } \\ 2000- \\ 2001 \end{array}$ |  | 28.8 |  | 42.7 |  | 44.6 |  | 44 |

9. a) \% Households in la Rioja with a computer

|  | Fundación Riojana (2001) |
| :--- | :---: |
| \% Households with a computer | $46.1 \%$ |

9. b) \% Households in Navarra with a computer

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| $\%$ Households in Navarra with a computer | $42.9 \%$ |

9. c) \% Households in Catalunya with a computer

|  | Estadístiques SI <br> $(2001) /$ Fundación <br> Riojana (2001) | Ómnibus <br> Municipal (2001) | Encuesta metropolitana (2000) |
| :---: | :---: | :---: | :---: |
| \% Households with a computer | $45.7 \%$ | $57.9 \%$ | $49.1 \%$ |

14. a) \% of mobile phone users in Navarra over total population

| $\%$ of mobile phone users in Navarra | Instit. Estad. Navarra (2000) |
| :--- | :---: |
|  | $43.6 \%$ |

14. b) \% of mobile phone users over Catalan population

| Estadístiques SI (2001) |  |
| :--- | :--- |
| $\%$ of mobile phone users over Catalan population | $77.3 \%$ |

16. a) Distribution of Internet users according to their frequency of connection to the Internet in Cieza (Murcia) (\% over Internet users)

|  | Cieza (2000) |  |
| :--- | :--- | :--- |
| Less than once a month | $4 \%$ |  |
| Once a month | $2 \%$ |  |
| Several times per month | $12 \%$ |  |
| Several times per week | $36 \%$ |  |

[^6]| Less than once a day | $11 \%$ |
| :--- | :--- |
| More than once a day | $35 \%$ |
| Doesn't know/ doesn't answer | $1 \%$ |

16. b) Distribution of Internet users according to their frequency of connection to the Internet in País Vasco (\% of persons over total surveyed people)

|  |  |
| :--- | :--- |
| Daily | $10 \%$ |
| Every two or three days | $8 \%$ |
| Once a week | $12 \%$ |
| Never | $7 \%$ |
| Doesn't know or doesn't answer | $63 \%$ |

19. a) \% of Internet users by place of Internet connection in País Vasco (over total population)

|  | OSIE (2001) |
| :--- | :--- |
| Household | $21 \%$ |
| Work | $15 \%$ |
| University / Centre of studies | $14 \%$ |
| Other / Doesn't know or doesn't answer | $11 \%$ |

19. b) \% of Internet users by place of Internet connection in Navarra (over total population)

|  | $\quad$ Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Household | $9.8 \%$ |
| Work | $14.9 \%$ |
| University / Centre of studies | $52.1 \%$ |

19. c) \% of Internet users by place of Internet connection in Catalunya (over total Internet users) ${ }^{169}$

|  | Estadístiques SI (2001) | Ómnibus Municipal (2001) | Terrassa (1999) |
| :--- | :--- | :--- | :--- |
| Household | $55.9 \%$ | $77.7 \%$ | $46 \%$ |
| Work | $36.6 \%$ | $42.6 \%$ | $23 \%$ |
| University / Centre of studies | $21.4 \%$ | $14.7 \%$ | $13 \%$ |
| Public places /Administration | $12.5 \%$ |  |  |
| Other places | $23.9 \%$ | $3.6 \%$ |  |

23. Monthly average time of connection to the Internet in Navarra (Measured in days /month)

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Monthly average time of connection to the Internet | 16.2 days/month |

24. Intensity of Internet use by day of the week in Navarra (\% of Internet users over Internet users) ${ }^{170}$

|  |  |
| :--- | :--- |
| Monday | $43.5 \%$ |
| Tuesday | $43.3 \%$ |
| Wednesday | $49.4 \%$ |
| Thursday | $45.5 \%$ |
| Friday | $52.5 \%$ |
| Saturday | $64.2 \%$ |
| Sunday | $62.5 \%$ |

26. Distribution of Internet users in Navarra according to their kind of activity in the Internet (\% of Internet users over Internet user who connect from home)
[^7]|  | $\quad$ Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Bank services | $24.5 \%$ |
| Newsgroups | $24.5 \%$ |
| Search for information | $40.8 \%$ |
| Chat | $44.8 \%$ |
| Download music | $32.1 \%$ |
| Download software | $10 \%$ |

38. \% of Internet users in Navarra with a personal website (\% over Internet users)

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| \% Internet users in Navarra with a personal website | $8.6 \%$ |

## E-business related uses by persons and households in Spanish Regions

40. Distribution of Internet shoppers in Navarra according to the product they shop on the Internet

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Books / Magazines | $6 \%$ |
| Cd's | $7 \%$ |
| Journeys /Entertainment / Spare time / | $5 \%$ |
| Hardware | $4 \%$ |
| Software | $3 \%$ |
| Electronic items | $4 \%$ |
| Video /DVD | $3 \%$ |
| Sportive clothes | $1 \%$ |
| Information | $1 \%$ |
| Financial services | $2 \%$ |
| Tickets | $7 \%$ |

44. Distribution of Internet shoppers in Navarra according to the mode of payment on the Internet

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Credit card | $51.7 \%$ |
| Debit card | $4.6 \%$ |
| Payment upon reception | $19.9 \%$ |
| Bank charge | $2.7 \%$ |
| Other | $21.2 \%$ |

Internet access and uses by business firms in Spanish Regions
53. a) \% of business firms with Internet access

| Tecnologías SI (2000) |  |
| :--- | :--- |
| Region | $\%$ business firms connected to the Internet |
|  |  |
| Andalucía | $45 \%$ |
| Aragón | $45 \%$ |
| Asturias | $43 \%$ |
| Baleares | $54 \%$ |
| Canarias | $63 \%$ |
| Cantabria | $44 \%$ |
| Castilla y León | $42 \%$ |
| Castilla La Mancha | $52 \%$ |


| Catalunya | $64 \%$ |
| :--- | :--- |
| Comunidad Valenciana | $61 \%$ |
| Extremadura | $40 \%$ |
| Galicia | $52 \%$ |
| Madrid | $68 \%$ |
| Murcia | $52 \%$ |
| Navarra | $52 \%$ |
| País Vasco (Euskadi) | $41 \%$ |
| La Rioja | $61 \%$ |

53. b) \% of business firms in Baleares with Internet access

| IBIT (2001) |  |
| :--- | :--- |
| $\%$ of business firms in Baleares with Internet access | $60 \%$ |

53. c) \% of business firms in Navarra with Internet access

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| $\%$ of business firms in Navarra with Internet access | $46.1 \%$ |

53. d) \% of business firms in Catalunya with Internet access ${ }^{171}$

|  | Estadístiques SI (2001) ${ }^{172}$ | Tecnologías SI (2000) | Terrassa 1999 |
| :--- | :--- | :--- | :--- |
| Access to the Internet | $83.8 \%$ | $64 \%$ | $40.9 \%$ |
| Not access to the Internet | $16.2 \%$ | $36 \%$ | $59.1 \%$ |

55. Distribution of business firms in Baleares connected to the Internet by year of website presence

| IBIT (2001) |  |
| :--- | :--- |
| Less than a year | $31 \%$ |
| 1 year | $30 \%$ |
| 2 years | $22.5 \%$ |
| 3 years | $11.5 \%$ |
| $>3$ years | $5 \%$ |

56. a) Distribution of business firms in Navarra with Internet connection according to the kind of use of the Internet

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| Sales of goods and services | $3.9 \%$ |
| I+D | $12.5 \%$ |
| Chats / Newsgroups | $12.5 \%$ |
| Training | $13 \%$ |
| Automatisation of production / distribution | $20 \%$ |
| Purchase of goods and services | $6.9 \%$ |
| Deal with Public Administration | $16 \%$ |
| Access to data base of customers | $20 \%$ |
| Advertising and marketing | $29 \%$ |
| Downloading programs | $31 \%$ |
| Access to data base of purveyors | $33 \%$ |
| Information of business firms | $41.9 \%$ |
| Get information from Public Administration | $44.6 \%$ |
| e-bank | $53.1 \%$ |
| Search for information | $74.2 \%$ |

[^8]56. b) Distribution of business firms in Cieza (Murcia) with Internet connection according to the kind of use of the Internet

| Ciezanet (2001) |  |
| :--- | :--- |
| e-mail | $78 \%$ |
| Information | $56 \%$ |
| Read digital press | $18 \%$ |
| Relation with the customer | $50 \%$ |
| e-commerce sales | $12 \%$ |
| Banks. Treasure | $56 \%$ |

56. c) Distribution of business firms in Baleares with Internet connection according to the kind of use of the Internet

| IBIT (2001) |  |
| :--- | :--- |
| e-mail | $91 \%$ |
| Surfing the Internet | $49.5 \%$ |
| B2C commerce | $14.5 \%$ |
| B2B commerce | $4 \%$ |

59. a) \% of business firms in Baleares connected to the Internet with a website

|  | IBIT (2001) |
| :--- | ---: |
| $\%$ of business firms with a website | $30.5 \%$ |

59. b) \% of business firms in Navarra connected to the Internet with a website

| $\%$ of business firms with a website | Instit. Estad. Navarra (2000) |
| :--- | :--- |

59. c) \% of business firms in Catalunya connected to the Internet with a website ${ }^{173}$

|  | Estadístiques SI (2001) | Terrassa 1999 |
| :--- | :--- | :--- |
| With a website | $49.9 \%$ | $17.5 \%$ |
| Without a website | $50.1 \%$ | $82.5 \%$ |

60. a) Distribution of business firms in Baleares with a website according to the kind of use of their webpage

| IBIT (2001) |  |
| :--- | :--- |
| Intranet | $3 \%$ |
| Extranet | $1 \%$ |
| B2B commerce | $4 \%$ |
| B2C commerce | $14.5 \%$ |
| Product information | $28 \%$ |
| Business firm's information | $35 \%$ |

60. b) Distribution of business firms in Catalunya with a website according to the kind of use of their webpage

| Bellmore Consulting (2000) |  |
| :--- | :--- |
| Give information of their products / services | $81.6 \%$ |
| Interact with the customer | $39.3 \%$ |
| Transactions | $20.9 \%$ |

[^9]65. \% of business firms with e-commerce by Regions

|  | eEspaña 2001 |  | Tecnologías SSI (2000) |
| :--- | :--- | :--- | :--- |
| Region | \% of business firms with <br> e-commerce over firms <br> with Internet presence | \% of business firms with <br> e-commerce over the <br> total of business firms | \% of business firms with e- <br> commerce over the total of business <br> firms |
| Andalucía | $33.9 \%$ | $10.5 \%$ | $8 \%$ |
| Aragón | $22.6 \%$ | $9.6 \%$ | $12 \%$ |
| Asturias | $36.3 \%$ | $11.9 \%$ | $13 \%$ |
| Baleares | $42 \%$ | $16.5 \%$ | $7 \%$ |
| Canarias | $40.9 \%$ | $8.2 \%$ | $10 \%$ |
| Cantabria | $29.7 \%$ | $8.6 \%$ | $16 \%$ |
| Castilla-La Mancha | $28.4 \%$ | $5.1 \%$ | $15 \%$ |
| Castilla y León | $8.5 \%$ | $2.2 \%$ | $10 \%$ |
| Catalunya | $33 \%$ | $10.9 \%$ | $14 \%$ |
| Comunidad Valenciana | $28.8 \%$ | $9.6 \%$ | $15 \%$ |
| Extremadura | $41.4 \%$ | $7.8 \%$ | $5 \%$ |
| Galicia | $25.4 \%$ | $9.3 \%$ | $14 \%$ |
| Madrid | $46 \%$ | $20.4 \%$ | $23 \%$ |
| Murcia | $51 \%$ | $13.7 \%$ | $13 \%$ |
| Navarra | $18.6 \%$ | $4.9 \%$ | $4 \%$ |
| País Vasco | $20.5 \%$ | $4.9 \%$ | $4 \%$ |
| La Rioja | $25.5 \%$ | $5.6 \%$ | $25 \%$ |

66. Distribution best sold products on the Internet by Regions (\% of business firms which sale every kind of product)

| Eespaña $2001{ }^{175}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region | Food | Drinks | Domestic shopping | Electronic | Learning | Hardware | Books | Spare time | Software | Accommodation booking | Trip booking | Clothes | Other products |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Andalucía | 26.6\% |  |  |  |  |  |  |  |  | 27.3\% |  |  |  |
| Aragón | 24\% |  |  |  |  |  |  |  |  |  | 27.9\% |  |  |
| Asturias |  |  | 22.5\% |  |  |  |  |  | 12.7\% | 72.1\% |  |  |  |
| Baleares |  |  |  |  |  |  |  |  |  | 37.8\% | 55.1\% |  |  |
| Canarias |  | - |  | 53.2\% | - |  |  |  |  |  |  |  | 44.6\% |
| Cantabria |  |  |  |  |  |  |  |  |  | 19.5\% |  |  | 26.9\% |
| Castilla-La Mancha |  |  |  | 19.5\% |  |  |  |  |  |  |  |  |  |
| Castilla y León |  | 52.1\% |  | 41.7\% |  |  |  |  |  |  |  |  |  |
| Catalunya |  |  |  |  | 25.8\% |  | $\begin{aligned} & 25.8 \\ & \% \end{aligned}$ |  |  |  |  |  |  |
| Comunidad Valenciana | 41.6\% |  |  |  |  |  |  |  |  |  |  | 12.5\% |  |
| Extremadura |  |  |  |  |  |  |  |  | 16.6\% |  |  |  | 58\% |
| Galicia | 30.4\% |  |  |  |  |  |  |  |  | 37\% |  |  |  |
| Madrid |  |  |  | 29.4\% |  |  |  |  |  |  |  |  |  |
| Murcia |  |  |  |  |  | 76.9\% |  |  | 76.9\% |  |  |  |  |
| Navarra |  |  |  |  |  |  |  | $\begin{aligned} & 29.7 \\ & \% \end{aligned}$ |  | 29.7\% |  |  |  |
| País Vasco |  |  |  |  |  |  | $\begin{aligned} & 32.6 \\ & \% \end{aligned}$ |  | 32.6\% |  |  |  |  |
| La Rioja | 14.5\% |  |  | 20.5\% |  |  |  |  |  |  |  |  |  |

[^10]69. Percent distribution of business firms in Baleares with a website according to the total annual costs of the maintenance of their B2C

| IBIT (2001) |  |
| :--- | :--- |
| $<250.000$ ptas | $28.5 \%$ |
| $251.000-500.000$ | $14.5 \%$ |
| $500.001-1.000 .000$ pts | $7 \%$ |
| $1.000 .001-5.000 .000$ pts | $14.5 \%$ |
| 5.000 .000 pts | $5 \%$ |
| Doesn't know or doesn't answer | $31 \%$ |

72. Distribution of business firms in Baleares with B2C e-commerce according to the main problems they have to sell their products on the Internet (Distributed by evaluation of the problem)

| IBIT (2001) |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | Big problem | Medium problem | No problem | Doesn't know |
| Transport | $0 \%$ | $5.5 \%$ | $63 \%$ | $31.5 \%$ |
| Cash | $0 \%$ | $8.5 \%$ | $83 \%$ | $8.5 \%$ |
| Few customers / demand | $0 \%$ | $43 \%$ | $51.5 \%$ | $6.5 \%$ |
| High costs | $3 \%$ | $17 \%$ | $71.5 \%$ | $8.5 \%$ |
| Technology | $0 \%$ | $23 \%$ | $71.5 \%$ | $5.5 \%$ |
| Communication network | $5.5 \%$ | $37 \%$ | $51.5 \%$ | $5.5 \%$ |
| Technical security | $3 \%$ | $23 \%$ | $65 \%$ | $8.5 \%$ |
| Legal security | $0 \%$ | $3 \%$ | $88.5 \%$ | $8.5 \%$ |
| Purveyor | $0 \%$ | $20 \%$ | $74.5 \%$ | $5.5 \%$ |

73. Distribution of business firms in Baleares connected to the Internet according to their main barriers for e-commerce (Distributed by size of the problem)

| IBIT (2001) |  |  |  | Medium problem |
| :--- | :--- | :--- | :--- | :--- |
|  | Big problem | No problem | Doesn't know |  |
| Internet is not secure | $21 \%$ | $28 \%$ | $32 \%$ | $18.5 \%$ |
| Few customers use Internet | $18.5 \%$ | $33 \%$ | $31 \%$ | $17.5 \%$ |
| Lack of knowledge / qualification | $15.5 \%$ | $32.5 \%$ | $48 \%$ | $4 \%$ |
| My products are difficult to classify | $8.5 \%$ | $12 \%$ | $77 \%$ | $2.5 \%$ |
| Transport problems | $6 \%$ | $11 \%$ | $59.5 \%$ | $24 \%$ |
| Not good service providers in Baleares | $7.5 \%$ | $15.5 \%$ | $23.5 \%$ | $53.5 \%$ |
| Expensive implementation | $4.5 \%$ | $13.5 \%$ | $65 \%$ | $17 \%$ |
| Ineed partners | $3.5 \%$ | $18.5 \%$ | $62 \%$ | $16.5 \%$ |

75. Distribution of business firms in Navarra which do not sell their products on-line according to their reasons for not selling their products on-line

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| Preference for the current model | $60.6 \%$ |
| The customers are not ready | $28.8 \%$ |
| It is not necessary | $23.3 \%$ |
| The employees are not trained | $19.3 \%$ |
| Lack of incentives | $18.1 \%$ |
| Lack of public finance | $17 \%$ |

Internet uses of Public Administration \& Health Organizations in Spanish Regions
97. \% of Public Administration institutions with an accessible website by Region

| eEspaña 2001 |  |  |  |
| :--- | :--- | :--- | :--- |
| Region | Total Public <br> Administration <br> institutions | Total Public Administration <br> institutions with an accessible <br> website | \% of Public Administration <br> institutions with an accessible <br> website (\% over the total) |
| Andalucía | 79 | 58 | $73.4 \%$ |


| Aragón | 7 | 5 | $71.4 \%$ |
| :--- | :--- | :--- | :--- |
| Asturias | 10 | 7 | $70 \%$ |
| Baleares | 13 | 12 | $92.3 \%$ |
| Canarias | 25 | 17 | $68 \%$ |
| Cantabria | 6 | 4 | $66.7 \%$ |
| Castilla-La Mancha | 19 | 15 | $78.9 \%$ |
| Castilla y León | 24 | 18 | $75 \%$ |
| Catalunya | 86 | 77 | $89.5 \%$ |
| Ceuta | 2 | 2 | $100 \%$ |
| Comunidad Valenciana | 49 | 41 | $83.7 \%$ |
| Extremadura | 11 | 9 | $81.8 \%$ |
| Galicia | 23 | 18 | $78.3 \%$ |
| La Rioja | 3 | 2 | $66.7 \%$ |
| Madrid | 30 | 22 | $73.3 \%$ |
| Melilla | 2 | 1 | $50 \%$ |
| Murcia | 15 | 13 | $86.7 \%$ |
| Navarra | 6 | 6 | $100 \%$ |
| País Vasco (Euskadi) | 22 | 18 | $81.8 \%$ |

98. \% of IT use in the different management areas of the Public Regional Administrations

| eEspaña 2001 |  |
| :--- | :--- |
| Accountant / Financial | $91 \%$ |
| Tax/public finance | $90 \%$ |
| Human Resources | $87 \%$ |
| Economy | $85 \%$ |
| Social welfare | $78 \%$ |
| Employment | $78 \%$ |
| Agriculture. Fishing | $76 \%$ |
| Health | $76 \%$ |
| Education | $76 \%$ |
| Public attention | $73 \%$ |
| Transport | $72 \%$ |
| Public works | $71 \%$ |
| Urbanismo y vivienda | $68 \%$ |
| Environment | $68 \%$ |
| Commerce | $65 \%$ |
| Shopping | $60 \%$ |
| Tourism | $58 \%$ |
| Culture and sports | $52 \%$ |

99. \% of e-information available for the citizen in the Public Regional Administrations

| eEspaña 2001 ${ }^{177}$ |  |
| :--- | :--- |
| Competition for a job | $67 \%$ |
| Subsidies | $63 \%$ |
| Contest | $62 \%$ |
| General information | $60 \%$ |
| Application forms | $57 \%$ |
| Publications | $45 \%$ |
| Claims | $38 \%$ |
| Proceedings | $34 \%$ |
| Taxes | $32 \%$ |

100. Evaluation of the effectiveness of the IT impact in the Public Regional Administrations
$\qquad$
[^11]| Better public attention | $73 \%$ |
| :--- | :--- |
| Better internal communication | $71 \%$ |
| Better external knowledge of the AC $^{17}$ | $68 \%$ |
| Reduction of time spent in the management and resolution of proceedings | $64 \%$ |
| Better management of the AC competences | $64 \%$ |
| Better quality of the social services offered by the AC Administration | $62 \%$ |
| Better information about citizens | $58 \%$ |
| Better information about purveyors | $54 \%$ |
| Better tax collection | $53 \%$ |
| Expenses reduction | $50 \%$ |
| Promotion of employment in the Public Administration | $44 \%$ |
| Self-learning | $40 \%$ |

101. Evaluation of the importance of the barriers to IT penetration in the Public Regional Administrations

| eEspaña 2001 |  |
| :--- | :--- |
| Problems derived from the organisational structure of the AC | $46 \%$ |
| High purchasing costs | $43 \%$ |
| High maintenance costs | $40 \%$ |
| Quickly old fashioned equipment | $38 \%$ |
| It is not strategical for the AC | $33 \%$ |
| Distrust in IT | $28 \%$ |
| Lack of employee qualification | $28 \%$ |
| Difficult use of the hardware/software | $27 \%$ |
| Refusal of the employees | $25 \%$ |
| Language problems | $25 \%$ |
| Problems with the IT purveyors | $23 \%$ |
| Network limitations | $22 \%$ |
| Lack of information about equipment. services and possibilities | $16 \%$ |

106. \% of town halls of towns with more than 20.000 inhabitants according to the accessibility of their webpage (Distributed by Regions)

| eEspaña 2001 |  |  |  |
| :--- | :--- | :--- | :--- |
| Region | Total town halls | Total town halls with <br> an accessible website | $\%$ <br> over the total) |
| Andalucía | 62 | 42 | $67.7 \%$ |
| Aragón | 3 | 1 | $33.3 \%$ |
| Asturias | 8 | 5 | $62.5 \%$ |
| Baleares | 9 | 8 | $88.9 \%$ |
| Canarias | 16 | 9 | $56.3 \%$ |
| Cantabria | 3 | 1 | $33.3 \%$ |
| Castilla-La Mancha | 13 | 9 | $69.2 \%$ |
| Castilla y León | 14 | 39 | $64.3 \%$ |
| Catalunya | 45 | 1 | $86.7 \%$ |
| Ceuta | 1 | 34 | $100 \%$ |
| Comunidad Valenciana | 42 | 5 | $81 \%$ |
| Extremadura | 7 | 13 | $71.4 \%$ |
| Galicia | 18 | 1 | $72.2 \%$ |
| La Rioja | 1 | 16 | $100 \%$ |
| Madrid | 24 | 1 | $66.7 \%$ |
| Melilla | 1 | 10 | $100 \%$ |
| Murcia | 12 | 3 | $83.3 \%$ |
| Navarra | 3 | 13 | $760 \%$ |
| País Vasco (Euskadi) | 17 |  |  |

[^12]Access and use of on-line education by Internet users in Spanish Regions
116. Number of IT PhD. IT masters degrees and IT professional degrees by Region

| eEspaña 2001 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Region | $\begin{array}{l}\text { Number of } \\ \text { institutions }\end{array}$ | Number of PhD |  |  | \(\left.\begin{array}{l}Number of <br>

Masters\end{array}\right)\)

### 4.1.2. Demographical and sociological variables of Internet users (Spanish Regions)

## Persons and households

127. Distribution of Internet users in Cieza (Murcia) according to household dimension (\% over all households with access to the Internet)

| Ciezanet (2000) |  |
| :--- | :--- |
| Households with 1 person | $0 \%$ |
| Households with 2 persons | $6 \%$ |
| Households with 3 persons | $12 \%$ |
| Households with 4 persons | $39 \%$ |
| Households with 5 persons | $28 \%$ |
| Households with 6 persons | $9 \%$ |
| Households with 7 persons | $4 \%$ |
| Households with 8 persons | $2 \%$ |

126. Distribution of Internet users in La Rioja according to income levels per household (\% over all Internet users)

| Fundación Riojana (2001) |  |
| :--- | :--- |
| Households with income levels of less than 125,000 ptas/month | $1 \%$ |
| Households with income levels of 125.001-210,000 ptas./month | $11.5 \%$ |
| Households with income levels of 210.001-420,000 ptas./month | $25.5 \%$ |
| Households with income levels of more than 420,000 ptas/month | $2.9 \%$ |
| Doesn't know or doesn't answer | $59.1 \%$ |

128. Distribution of Internet users in Navarra according to city / town dimension

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| Less than 1.000 inhabitants | $3 \%$ |
| Between $1,000-5,000$ inhabitants | $16 \%$ |
| Between 5,001 $-20,000$ inhabitants | $8 \%$ |
| More than 20,000 inhabitants | $3 \%$ |
| Pamplona and surrounding towns | $71 \%$ |

130. a) Distribution of Internet users in Navarra according to their gender (\% over Internet users)

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Male | $61 \%$ |
| Female | $39 \%$ |

130. b) Distribution of Internet users in La Rioja according to their gender (\% over Internet users)

|  | Fundación Riojana (2001) |
| :--- | :--- |
| Male | $66.5 \%$ |
| Female | $33.5 \%$ |

130. c) Distribution of Internet users in Cieza (Murcia) according to their gender (\% over Internet users )

|  | Ciezanet (2000) |
| :--- | :--- |
| Male | $50 \%$ |
| Female | $49 \%$ |

131. a) \% of Internet users in País Vasco according to their gender (\% over total population)

|  | Osie (2001) |  |
| :--- | :--- | ---: |
| Male | $33.2 \%$ |  |

## Female

131. b) $\%$ of Internet users in Catalunya according to their gender (\% over total population)

|  | Estadístiques SI (2001) | Ómnibus municipal (2001) |
| :--- | :--- | :--- |
| Male | $38.3 \%$ | $48.7 \%$ |
| Female | $21.8 \%$ | $31.4 \%$ |

134. a) Distribution of Internet users in País Vasco by their age (Distributed by frequency of use) (\% over Internet users)

| Osie (2001) |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Daily | Every two or three days | Once a week |
| Between $18-24$ years old | $16.7 \%$ | $18.9 \%$ | $23.7 \%$ |
| Between $25-34$ years old | $12.4 \%$ | $11.6 \%$ | $19.6 \%$ |
| Between 35 - 49 years old | $12.9 \%$ | $7.7 \%$ | $12 \%$ |
| Between 50 - 64 years old | $6.2 \%$ | $3.4 \%$ | $4.7 \%$ |
| $>65$ years old | $1.6 \%$ | $0.6 \%$ | $0.9 \%$ |

134. b) Distribution of Internet users in Navarra by their age (\% over Internet users)

|  | Instit. Estad. Navarra (2000) |
| :--- | :--- |
| Between $15-24$ years old | $28 \%$ |
| Between $25-34$ years old | $25 \%$ |
| Between $35-44$ years old | $26 \%$ |
| Between $45-54$ years old | $12 \%$ |
| Between $55-64$ years old | $6 \%$ |
| $>65$ years old | $2 \%$ |

134. c) Distribution of Internet users in La Rioja by their age (\% over Internet users)

|  | $\quad$ Fundación Riojana (2001) |
| :--- | :--- |
| Between $18-31$ years old | $48.4 \%$ |
| Between $32-45$ years old | $28.8 \%$ |
| Between $46-59$ years old | $17.3 \%$ |
| $>60$ years old | $5.4 \%$ |

134. d) Distribution of Internet users Cieza (Murcia) by their age (\% over Internet users)

|  | Ciezanet (2000) |
| :--- | :--- |
| $<17$ years old | $23 \%$ |
| Between $18-29$ years old | $30 \%$ |
| $>30$ years old | $47 \%$ |

135. \% of Internet users in Catalunya by their age (\% over total population)

|  | $\quad$ Estadístiques SI (2001) ${ }^{181}$ |
| :--- | :--- |
| Between $15-24$ years old | $64.8 \%$ |
| Between $25-39$ years old | $44.4 \%$ |
| Between $40-54$ years old | $20.6 \%$ |
| $>55$ years old | $3.4 \%$ |


|  | Ómnibus municipal (2001) |
| :--- | :--- |
| Between $16-24$ years old | $73.9 \%$ |
| Between $25-34$ years old | $66.1 \%$ |
| Between $35-44$ years old | $53.6 \%$ |
| Between $45-54$ years old | $44.2 \%$ |

[^13]| Between $55-64$ years old | $19.4 \%$ |
| :--- | :--- |
| $>65$ years old | $3.5 \%$ |

139. a) \% of Internet users in País Vasco according to their educational level (\% over total population)

| OSIE (2001) |  |
| :--- | :--- |
| No studies | $2.4 \%$ |
| Primary education (EGB / ESO) | $5.5 \%$ |
| Secondary education (BUP / FP) | $25.2 \%$ |
| University degree | $43.4 \%$ |

139. b) \% of Internet users in Navarra according to their educational level (\% over total Internet users)

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| No studies |  |
| Primary education (EGB / ESO) | $22 \%$ |
| Secondary education (BUP / FP) | $41 \%$ |
| University degree | $38 \%$ |

139. c) \% of Internet users in La Rioja according to their educational level (\% over total Internet users)

| Fundación Riojana (2001) |  |
| :--- | :--- |
| No studies | $0 \%$ |
| Primary education (EGB / ESO) | $11.6 \%$ |
| Secondary education (BUP / FP) | $40.3 \%$ |
| University degree | $48.1 \%$ |

139. d) \% Internet users in Cieza (Murcia ) according to their educational level (\% over Internet users)

| Ciezanet (2000) |  |
| :--- | :--- |
| No studies | $3 \%$ |
| Primary education (EGB / ESO) | $30 \%$ |
| Secondary education (BUP / FP) | $37 \%$ |
| University degree | $30 \%$ |

139. e) \% Internet users in Catalunya according to their educational level (\% over total population)

|  | Estadístiques SI (2001) ${ }^{182}$ | Terrassa 1999 |
| :--- | :--- | :--- |
| No studies | $5.3 \%$ | $0 \%$ |
| Primary education (EGB / ESO) | $10.8 \%$ | $7 \%$ |
| Secondary education (BUP / FP) | $50.9 \%$ | $23 \%$ |
| University degree | $60.5 \%$ | $52 \%$ |

143. Distribution of Internet users in Navarra according to their cultural / geographical origin

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| Pamplona | $73 \%$ |
| North | $7 \%$ |
| Center | $7 \%$ |
| South | $12 \%$ |

144. \% of weekly Internet users in Catalunya according to their cultural / geographical origin (\% over total population)

|  | Estadístiques SI (2001) |
| :--- | :---: |
| Barcelona | $32.4 \%$ |

[^14]| Girona | $18 \%$ |
| :--- | :--- |
| Lleida | $21.3 \%$ |
| Tarragona | $24.9 \%$ |

145. Distribution of Internet users in Navarra according to their job

| Instit. Estad. Navarra (2000) |  |
| :--- | :--- |
| Work in his /her own business | $14 \%$ |
| Work for a firm / organisation | $48 \%$ |
| Student | $21 \%$ |
| Unemployed | $7 \%$ |
| Doesn't work | $1 \%$ |
| Housewife | $6 \%$ |
| Retired | $2 \%$ |
| Other situations | $1 \%$ |

146. \% of weekly Internet users in Catalunya according to their job (\% over total population)

| Estadístiques SI (2001) |  |
| :--- | :--- |
| Work in his /her own business | $39.9 \%$ |
| Work for a firm / organisation | $39.9 \%$ |
| Student | $70.4 \%$ |
| Unemployed | $20.5 \%$ |
| Housewife |  |
| Retired |  |

## Business firms

148. \% of business firms in Baleares with a website according to their dimension (over the total of business firms)

| IBIT (2001) |  |
| :--- | :--- |
| Between 6-10 employees | $17 \%$ |
| Between 11-25 employees | $28 \%$ |
| Between 26-50 employees | $44 \%$ |
| Between 50-250 employees | $50 \%$ |

150. \% of business firms in Baleares with a website according to their activity

| IBIT (2001) |  |
| :--- | :--- |
| Food | $23 \%$ |
| Shoes / Leather / Fashion | $35 \%$ |
| Pearls / Jewelry | $33.5 \%$ |
| Wood | $15 \%$ |


[^0]:    ${ }^{142}$ See V.1c and V.1a
    ${ }^{143}$ See V. 5
    ${ }^{144}$ See V. 124
    ${ }^{145}$ See V. 126
    ${ }^{146}$ See V.134a and V.134b

[^1]:    ${ }^{147}$ See V.130b
    ${ }^{148}$ See V.130a
    ${ }^{149}$ See V.139a
    ${ }^{150}$ See V.139c
    ${ }^{151}$ See V.139b and V.139d
    ${ }^{152}$ See V. 26
    ${ }_{154}^{153}$ See V.14a and V.14b
    ${ }^{154}$ See V.19a, V.19b and V.19c
    ${ }^{155}$ See V.16a and V.16b
    ${ }^{156}$ See V. 24
    ${ }^{157}$ See V. 116

[^2]:    ${ }^{158}$ SeeVT. 98
    ${ }^{159}$ See V. $53 a$

[^3]:    ${ }^{160}$ See V.56a,V.56b and V.56c
    ${ }^{161}$ SeeV. 72
    ${ }^{162}$ See V. 73

[^4]:    ${ }^{163}$ All the surveyed pople in the Òmnibus Municipal study live in Barcelona
    ${ }^{164} \%$ Distribution of the surveyed people. For this reason total is $100 \%$

[^5]:    ${ }_{165}$ Population aged 15 or more
    ${ }^{166}$ Population aged 15 or more

[^6]:    ${ }^{168}$ Over total population aged 15 or more

[^7]:    ${ }^{169}$ The total sum of percentages is higher than $100 \%$ because many of the surveyed persons marked two or more answers
    ${ }^{170}$ The total sum of percentages is higher than $100 \%$ because many of the surveyed persons marked two or more answers

[^8]:    ${ }^{171}$ In the Bellmore Consulting (2000) study the percentage is $100 \%$ because this study is made to business firms with e-commerce
    ${ }^{172}$ The data refer to business firms of 10 or more employees

[^9]:    ${ }^{173}$ In the Bellmore Consulting (2000) study the percentage is $100 \%$ because this study is made to business firms with e-commerce

[^10]:    ${ }^{174}$ Original source (AECE 2000)
    ${ }^{175}$ Original source: AECE (2000)

[^11]:    ${ }^{176}$ Original source: Paloma Sánchez \& others
    ${ }^{177}$ Original source: Paloma Sánchez \& others
    ${ }^{178}$ Original source: Paloma Sánchez \& others

[^12]:    ${ }_{180}^{179}$ AC stands for Autonomous Communities
    ${ }^{180}$ Original source: Paloma Sánchez \& others

[^13]:    ${ }^{181}$ The data refer to weekly Internet users

[^14]:    ${ }^{182}$ In the Estadístiques SI (2001) study the Internet users are weekly Internet users

