

ABSTRACT:

Focusing on micro censuses data and national surveys, we examine in detail the households formation according to demographic and economic aspects. To achieve this purpose we explore household situation up to present using factorial analysis and logistic regression. In this respect, there is a bipolarity-shaping household conformation. There is not a single pattern to define the households composition. In short term, Venezuela has been living the demographic transition process; however, there is an economic development lethargy affecting residential patterns. First, the non-nuclear households, especially the extended multigenerational household formation (3 or more generations) as emerge strategies from the most disadvantaged population and, on the other hand, nuclear households where the average size is determined by fertility decline. Under these complexity scenarios, we analyse factors to understand the pace of this changing from socio-demographic point of view.

KEYWORDS: Households composition, extended households, housing, housing demand.

HOUSEHOLDS AND HOUSING IN VENEZUELA

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I. INTRODUCTION

Recent decades have generated significant changes in Venezuelan population dynamics¹. This dynamic is mainly due to the life expectancy prolongation, first union postponement, cohabitation intensification, fertility decrease and in the last decade differential migration. Thereby, all of this affects the structure and pace of population growth, particularly affect the number of households and residential patterns. Therefore, Venezuela households transformation is determined, on the one hand, by demographic trends, and on the other, homes and social dynamic system are affected by multiple economic contingencies. For instance, from nuclear to extensive household transformation has become a survival strategy to optimize revenue and resources. In this regard, multigenerational household conformation (3 or more generations) is related to socio demographic complexity. Unlike industrialized countries where householders living alone had become a common specific household type and during the twentieth century, the number of households has been growing faster than population growth

¹ See Annex

(Coleman & John, 1992), in Venezuela 34% of household population in 2001 was living in extended households. In this mutant scenario arises this research; the interest on households is mainly because, to our knowledge, household demography studies and household projection it is a new topic in the Venezuela research work.

The purpose of this research is divided into three main related parts of which only two are presented here. First, we examine the evolution and current situation of Venezuelan households structure, later we project the number of households to 2016, and finally, we determine the potential housing demand. Three parts clearly linked to demography factors.

II. EVOLUTION AND TRENDSETTERS

The first part is focused on household complexity. We study the households composition evolution using the last three censuses and recently national surveys. We analyse the households structure and size changes focusing on essential features or the underlying meaning to determine whether there are new patterns. In this regard, the objective in this part is examining Venezuelan household conformation since 1971 up to present and analysis of factors leading to extensive households in Venezuela.

Household reference person evolution (1971-2001)

Chart 1: Reference Person Sex. Venezuelan Census 1971-2001.

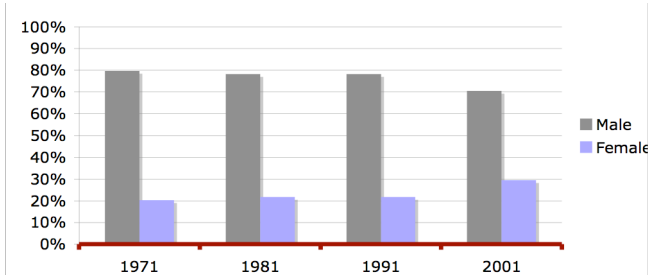


Chart 2: Reference Person Marital Status. Venezuelan Census 1971-2001.

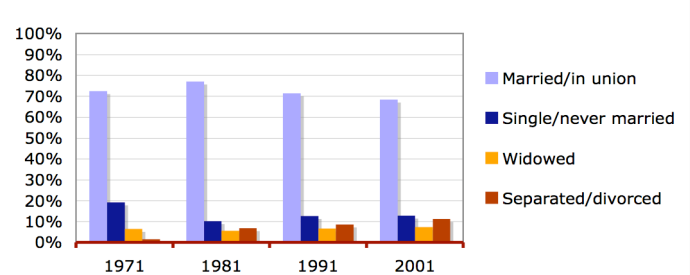
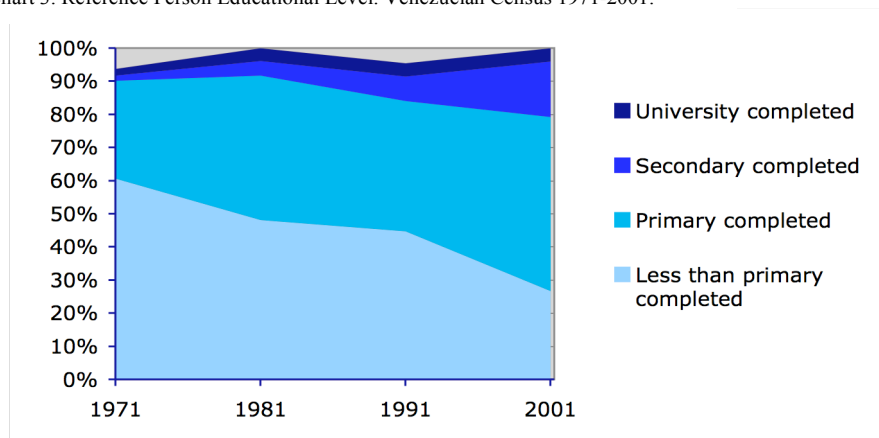
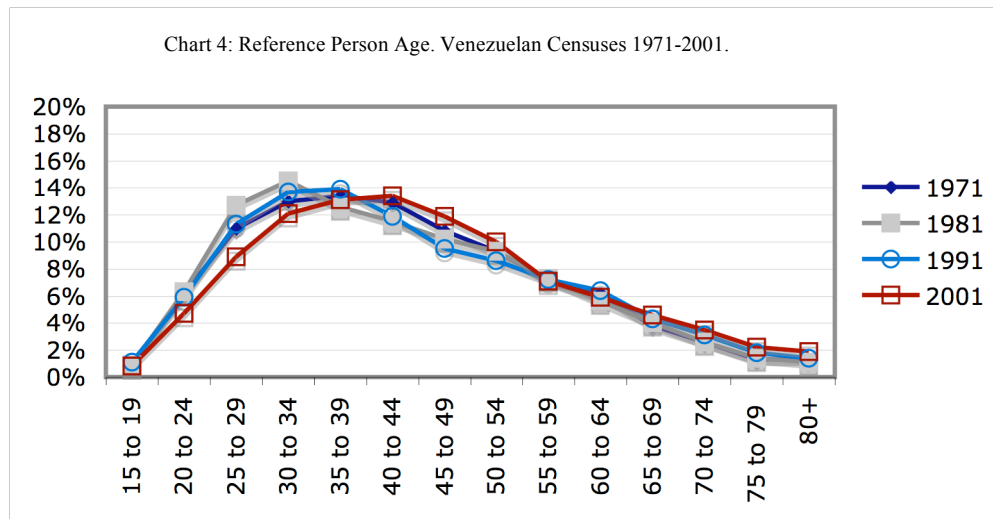


Chart 3: Reference Person Educational Level. Venezuelan Census 1971-2001.



One can observe that reference person have undergone some changes as: reached higher educational level, there has been a considerable increase of female reference person, and households with married heads are falling slowly to introduce a slight increase of reference persons divorced or separated.

All this linked with fertility decline, the household size fall (93% of private households population in Census 2001 live in homes less than 8 persons), the increase in cohabitation, among others, give as result a mixture between first and second demographic transition factors; e.g. without completing the first demographic transition is beginning to observe intrinsic characteristics of the second one. This we called "Among Transitions".

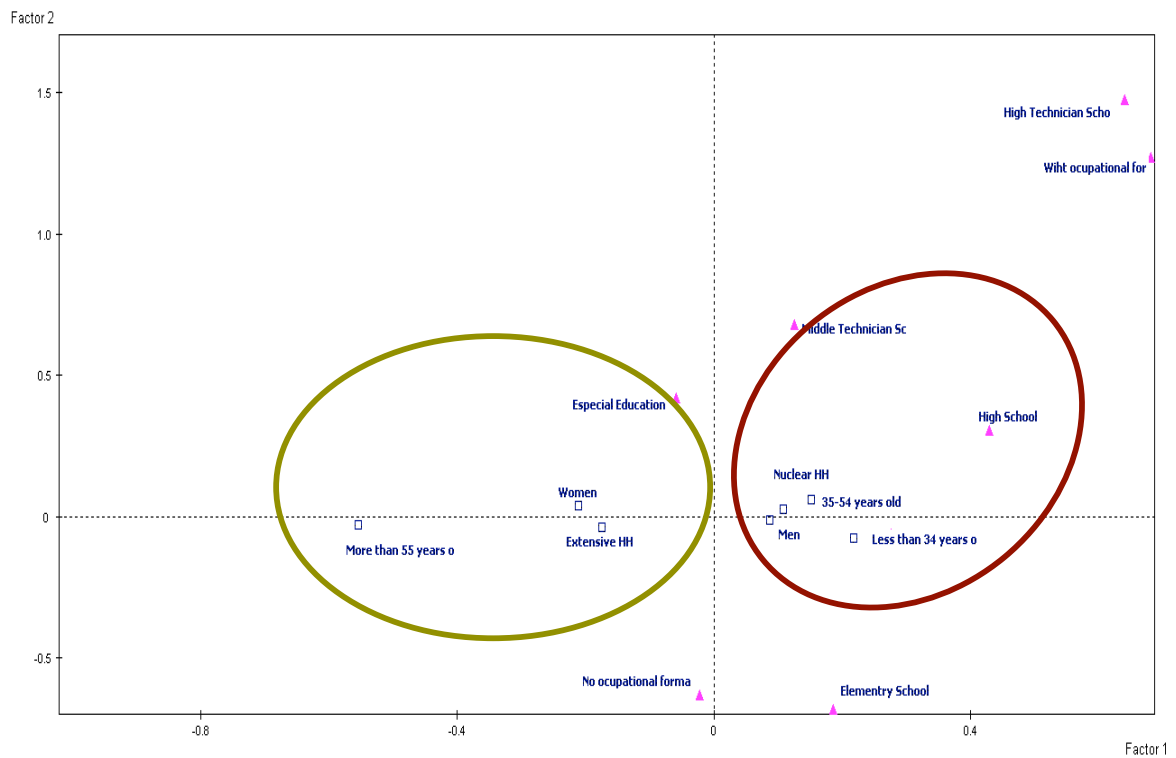


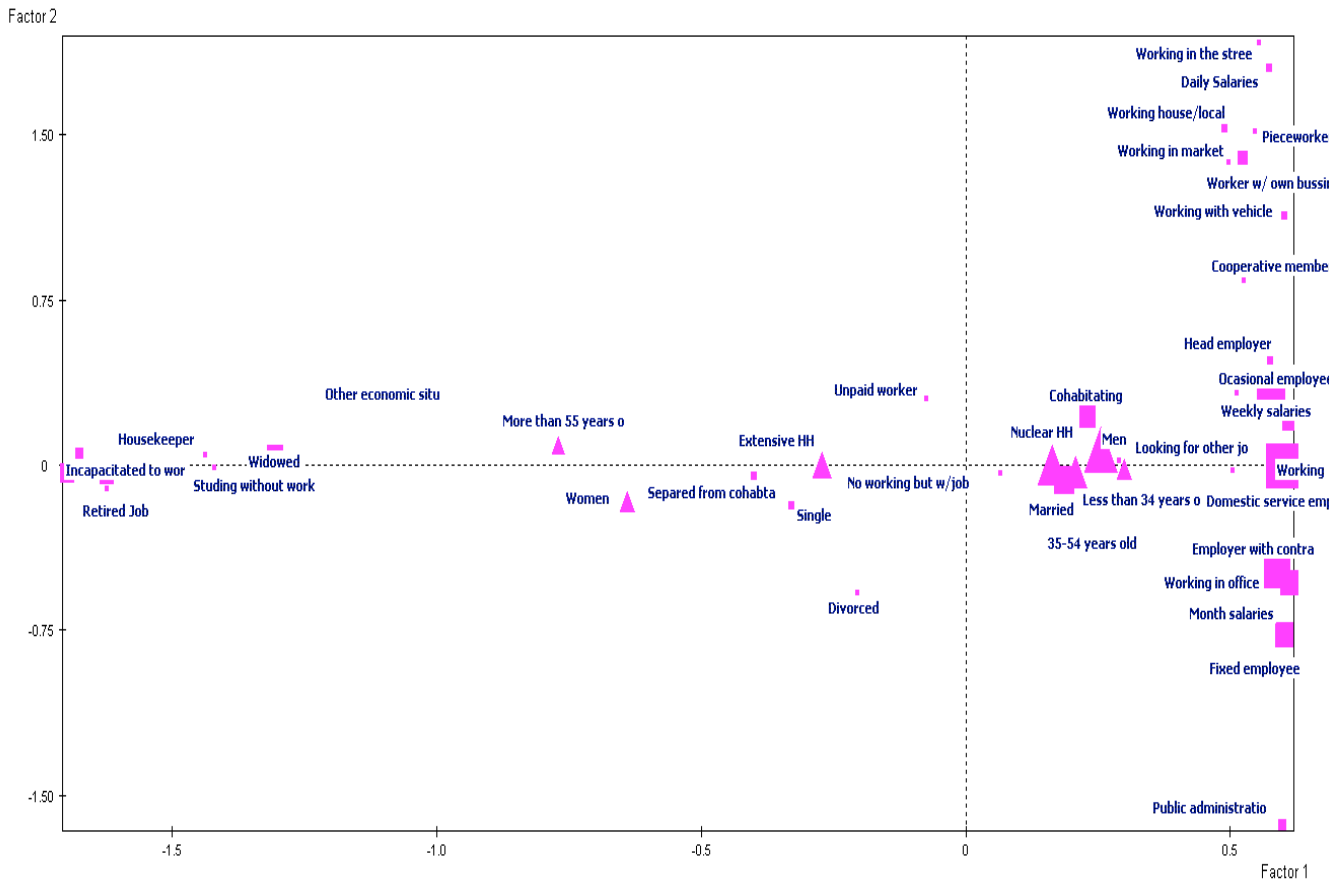
In Census 2001, the reference person households decline under 40 years old and increase in older ages, this situation leads us to believe that there are some factors that influence large homes conformation avoiding the new households formation. Based on this premise, we examine the socioeconomic characteristics in nuclear and extended households.

III. FIRST RESULTS

Hereinafter we identify homes profile using a multivariate data analysis. Specially, using an exploratory technique designed to analyze multiway tables so-called Multiple Correspondence Analysis (MCA). The results allow one to analyze pattern of relationships of numerous categorical variables by exploring the structure of all the variables included in the table, similar in nature to those produced by Factor Analysis techniques. Then, the analysis was conducted by a model that intended to study the guidelines of the extensive households.

Factorial Plane 1. Nuclear Vs. Extensive Households. Educational issues. Venezuela. Census 2001.





From educational point of view (Factorial Plane 1) reference persons in nuclear households are younger and more educated, (less than 54 years old). While, on the opposite side are the extended homes with old women less educated. Same situation happen to the plane refer to socioeconomic characteristic, nuclear households are located around working and economic categories while the extensive homes are more closely to no laboral context.

Taking into account the contributively categories from the explorative analysis we present the logistic regression to study the guidelines of extensive households.

Figure 1. Variables for the Logistic Regression model.

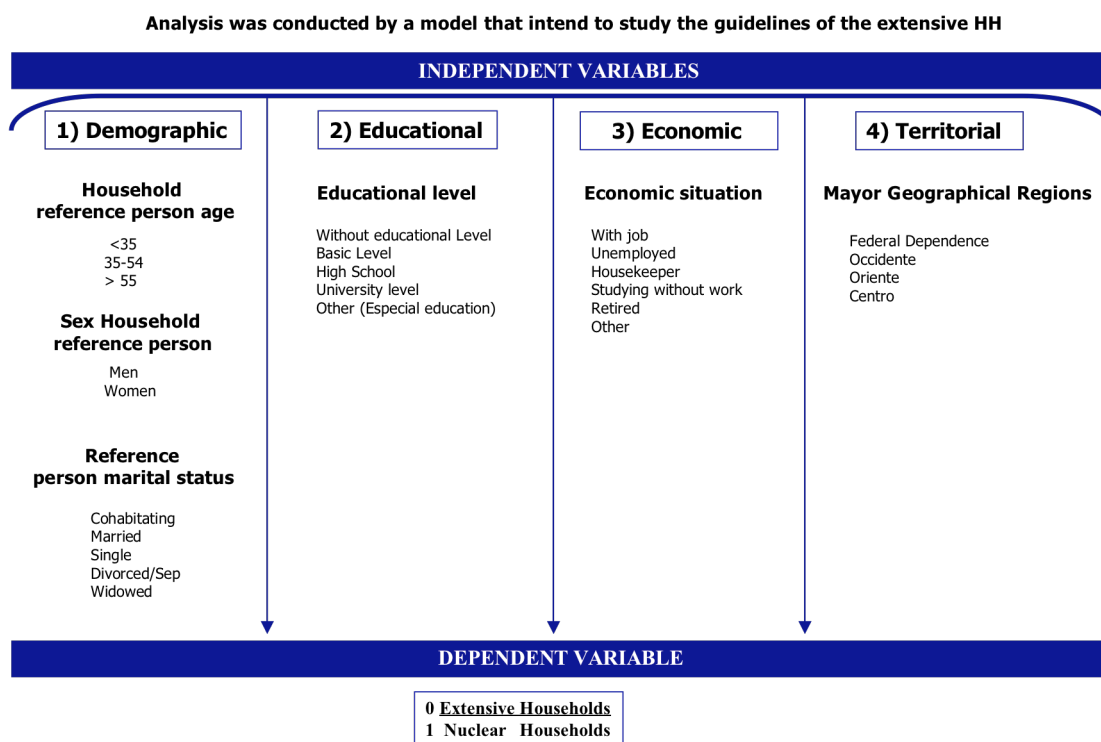


Table 1. Logistic Regression model.

Logistic model to know the guidelines of Extensive HH Households in Venezuela 2001

| Variables in the Equation | Categories | Sig. | Exp(B) |
|-----------------------------------|-------------------------------|-------|--------|
| Sex | Women | | ref |
| | Men | 0,000 | 0,821 |
| Educational Level | Without educational | | ref |
| | Basic School | 0,000 | 0,874 |
| | High School | 0,000 | 0,732 |
| | University Level | 0,000 | 0,637 |
| | Other (Especial education) | 0,000 | 1,270 |
| Marital status | Cohabiting | | ref |
| | Married | 0,000 | 1,037 |
| | Single | 0,000 | 3,650 |
| | Divorced/Seperad | 0,000 | 1,835 |
| | Widowed | 0,000 | 2,252 |
| Economic situation | With job | | ref |
| | Unemployed | 0,000 | 0,954 |
| | Housekeeper | 0,000 | 1,195 |
| | Studying without work | 0,000 | 2,225 |
| | Retired | 0,000 | 1,315 |
| | Other economic situation | 0,000 | 1,247 |
| Reference person age | More than 55 years old | | ref |
| | Less than 35 years old | 0,000 | 0,344 |
| | 35-54 years old | 0,000 | 0,473 |
| Mayor Geographical regions | Federal Dependence | | ref |
| | Occidente | 0,000 | 1,048 |
| | Oriente | 0,000 | 1,056 |
| | Centro | 0,000 | 1,061 |
| | Constant | 0,000 | 1,417 |

Source: INE, Census of Population and Housing (2001)

As reflected in the multiple correspondence analyses, we can notice that reference persons concerned with a low educational level, single or widowed, have more propensities to belong to extensive homes. As well as, reference persons younger are less likely to reside in large households. These results indicate that other models, which include all persons living in households, should be done in order to understating the decline of households in younger ages in 2001.

The last part addressed the household projections. The projections are a key component in the analysis of several socio-economic studies. Forecasting can anticipate changes in number, size and households composition. Families and households are regarded as coexistence basic unit. Therefore, future family arrangements have social, cultural, economic and environmental implications, as well as knowledge of future homes is relevant to the public planning decision. In this sense, we apply the predominantly macro-static model used in recent decades: the headship rate. By the time of this communication we preparing the households projections using a methodology developed by Dalkhat Ediev from Vienna Institute of Demography. The idea is to project households by age of the reference person and household size. The projection of households is base on Venezuelan population projections developed by the United Nations. For the sake of simplicity, the sources for the previous population study and households structure are from the Integrated Public Use Micro data Series (IPUMS). The households projection are based on the Venezuelan Census data 2001. Furthermore, we consider the demographic transition classification established by the Latin American Demographic Centre (CELADE) for internal geographic areas.

Table 2. Venezuela Households Projection 2010.

| YEAR | AGE | POPULATION: | | | Total-Private HHs | | With... persons | | | | | | | | | | 10+ | | |
|------|-------|---------------|-----------------------------|--------------------|-------------------|------------|-----------------|-----------|-----------|-----------|-----------|---------|---------|--------|--------|------------|---------|---|---|
| | | Total Persons | Persons in Institutional HH | Persons Private HH | Head of HH | Persons | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Households | Persons | | |
| | <15 | 8469973 | 29297 | 8440676 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 15-19 | 2706531 | 41199 | 2665332 | 67649 | 191381 | 17231 | 18670 | 18021 | 7110 | 3426 | 1920 | 1730 | 315 | 257 | 969 | 14716 | | |
| | 20-24 | 2675674 | 54024 | 2621650 | 334215 | 1097360 | 45674 | 71810 | 100272 | 58994 | 27405 | 12300 | 9681 | 1556 | 1237 | 4487 | 65506 | | |
| | 25-29 | 2437505 | 29685 | 2407820 | 625446 | 2250224 | 58664 | 106989 | 172637 | 140995 | 74829 | 34254 | 25646 | 2688 | 1924 | 6820 | 97687 | | |
| | 30-34 | 2208729 | 18946 | 2189783 | 813402 | 3143605 | 63738 | 109562 | 188291 | 206533 | 124098 | 59735 | 48610 | 3197 | 2250 | 7388 | 104745 | | |
| | 35-39 | 1898823 | 13004 | 1885819 | 835010 | 3376186 | 63234 | 96766 | 164643 | 213598 | 145170 | 72838 | 66408 | 3127 | 2285 | 6941 | 97786 | | |
| 2010 | 40-44 | 1798505 | 11076 | 1787429 | 894462 | 3692940 | 70257 | 102972 | 163069 | 213107 | 157095 | 85282 | 89473 | 3395 | 2408 | 7403 | 102788 | | |
| | 45-49 | 1646356 | 9496 | 1636860 | 896041 | 3677961 | 78009 | 112932 | 163161 | 195712 | 146890 | 86133 | 100247 | 3302 | 2346 | 7348 | 101453 | | |
| | 50-54 | 1341830 | 7267 | 1334563 | 777972 | 3133912 | 79702 | 111079 | 142258 | 153024 | 115140 | 71592 | 93736 | 2914 | 1993 | 6532 | 90520 | | |
| | 55-59 | 1129946 | 6252 | 1123694 | 680173 | 2661236 | 83335 | 111193 | 123943 | 119202 | 89318 | 58671 | 84185 | 2578 | 1836 | 5913 | 81822 | | |
| | 60-64 | 883619 | 5275 | 878344 | 548130 | 2070219 | 80351 | 100367 | 98751 | 84802 | 64037 | 43966 | 67477 | 1988 | 1527 | 4864 | 67708 | | |
| | 65-69 | 627777 | 4061 | 623716 | 382330 | 1427966 | 64832 | 80517 | 68888 | 55644 | 41250 | 29319 | 45996 | 1447 | 1037 | 3400 | 47816 | | |
| | 70-74 | 436971 | 3577 | 433394 | 262775 | 913226 | 49423 | 59116 | 45294 | 34097 | 25181 | 17993 | 27944 | 889 | 668 | 2170 | 30711 | | |
| | 75-79 | 315366 | 3552 | 311814 | 174312 | 589164 | 35164 | 41221 | 29769 | 21631 | 15502 | 11231 | 17320 | 560 | 415 | 1498 | 21376 | | |
| | 80+ | 256240 | 4999 | 251241 | 113502 | 386754 | 25221 | 27795 | 19385 | 13776 | 9731 | 6528 | 9503 | 383 | 279 | 900 | 12788 | | |
| | Total | 28.833.845 | 241.710 | 28.592.135 | 7.415.416 | 28.592.135 | 814.837 | 1.150.991 | 1.496.384 | 1.518.826 | 1.039.032 | 591.962 | 687.954 | 28.337 | 20.461 | 66.635 | 937.403 | | |

Table 3. Venezuela Households Projection 2020

| YEAR | AGE | POPULATION: | | | Total-Private HHs | | With... persons | | | | | | | | | | 10+ | |
|------|-------|---------------|-----------------------------|--------------------|-------------------|------------|-----------------|-----------|-----------|-----------|-----------|---------|---------|--------|--------|------------|---------|---|
| | | Total Persons | Persons in Institutional HH | Persons Private HH | Head of HH | Persons | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | Households | Persons | |
| | | | | | | | | | | | | | | | | | | |
| | <15 | 8661050 | 29702 | 8631348 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 15-19 | 2807698 | 43296 | 2764402 | 70611 | 182801 | 21288 | 20493 | 15599 | 6266 | 2878 | 1563 | 1334 | 247 | 201 | 763 | 11598 | |
| | 20-24 | 2712500 | 54496 | 2658004 | 339538 | 1011832 | 59600 | 84602 | 101306 | 51363 | 21419 | 9272 | 6779 | 1105 | 878 | 3194 | 46656 | |
| | 25-29 | 2666638 | 32285 | 2634353 | 686511 | 2232984 | 86950 | 144615 | 200887 | 137375 | 63310 | 26558 | 18905 | 1961 | 1400 | 4952 | 70928 | |
| | 30-34 | 2631442 | 22372 | 2609070 | 972171 | 3387196 | 105354 | 168027 | 253079 | 231392 | 117367 | 50215 | 36998 | 2439 | 1706 | 5655 | 78857 | |
| | 35-39 | 2396616 | 16343 | 2379273 | 1055348 | 3840372 | 111030 | 159746 | 242357 | 263552 | 150116 | 65907 | 53024 | 2459 | 1784 | 5373 | 75653 | |
| 2020 | 40-44 | 2166183 | 13284 | 2152899 | 1078412 | 4004149 | 117107 | 161158 | 229600 | 255129 | 159931 | 76286 | 69406 | 2546 | 1792 | 5456 | 75695 | |
| | 45-49 | 1852651 | 10557 | 1842094 | 1009453 | 3727105 | 119851 | 161493 | 210351 | 217840 | 142026 | 74168 | 74568 | 2354 | 1659 | 5145 | 70984 | |
| | 50-54 | 1737924 | 9274 | 1728650 | 1008758 | 3657736 | 137923 | 177120 | 209053 | 193671 | 129613 | 72976 | 82831 | 2466 | 1674 | 5431 | 75196 | |
| | 55-59 | 1565323 | 8508 | 1556815 | 943381 | 3329011 | 150632 | 183295 | 185334 | 159054 | 108273 | 65366 | 81880 | 2413 | 1706 | 5440 | 75220 | |
| | 60-64 | 1242874 | 7302 | 1235572 | 771560 | 2629434 | 143930 | 162716 | 145751 | 113325 | 79088 | 50472 | 68159 | 1947 | 1485 | 4686 | 65188 | |
| | 65-69 | 1004990 | 6476 | 998514 | 627742 | 2064643 | 129921 | 144734 | 113159 | 83488 | 57823 | 38466 | 53527 | 1645 | 1172 | 3807 | 53516 | |
| | 70-74 | 738874 | 6073 | 732801 | 443630 | 1395864 | 102720 | 109610 | 76938 | 53286 | 37036 | 24892 | 34632 | 1067 | 812 | 2616 | 37001 | |
| | 75-79 | 480941 | 5419 | 475522 | 265094 | 812183 | 65227 | 68010 | 45036 | 30188 | 20454 | 13894 | 19458 | 626 | 461 | 1651 | 23541 | |
| | 80+ | 401561 | 7915 | 393646 | 177370 | 520552 | 47459 | 46541 | 29786 | 19530 | 13027 | 8265 | 10971 | 442 | 321 | 1029 | 14686 | |
| | Total | 33.065.965 | 273.302 | 32.792.663 | 9.449.579 | 32.792.663 | 1.388.970 | 1.792.149 | 2.054.233 | 1.815.477 | 1.102.391 | 578.391 | 612.071 | 23.738 | 17.052 | 55.108 | 774.622 | |

Taking into account the previous households composition narrative concerning, we will elaborate the households projections by type of household.

Finally, we will conclude this research with residential demand, dwellings studies has close ties with demographic changes, the proportion of household reference person affects housing establishment. From another point of view, as stated by Cheeseman (1996), the individuals course of life transitions (marriage, divorce, widowhood) does not necessarily affect the total number of households, the household dissolution may turn to other instead creating new households types. However, the relation between demographic variables and housing it is not necessarily established unidirectional, whereby it is also plausible to think that housing accessibility may have implications on demographic changes, especially in the formation of non-family households. The aim of this part (to develop in future) it is a demographic analysis of housing needs, deciphering possible scenarios for future residential demand and housing units estimates for Venezuela states.

IV. FIRST CONCLUSIONS

From a demographic aspect:

.-Age and sex are relevant in the extensive households conformation. However, we still to answer if this situation refers to an age effect or a cohort effect?

From a socioeconomic point of view:

.-Reference persons with low economics situation and less educational background are more likely to live in extensive households.

From a Geographical context:

.-Living in certain Venezuela sub-regions affect the formation of extensive households.

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Annex

Population by sex and age, Venezuela Census 1873-2001

| Census | Total | Men | % | Women | % |
|--------|------------|------------|-------|------------|-------|
| 1873 | 1.437.757 | 686.076 | 47,72 | 751.681 | 52,28 |
| 1881 | 2.075.245 | 1.005.518 | 48,45 | 1.069.727 | 51,55 |
| 1891 | 2.290.228 | 1.119.843 | 48,90 | 1.170.385 | 51,10 |
| 1920 | 2.363.138 | 1.134.262 | 48,00 | 1.228.876 | 52,00 |
| 1926 | 2.890.731 | 1.414.596 | 48,94 | 1.476.135 | 51,06 |
| 1936 | 3.364.347 | 1.652.130 | 49,11 | 1.712.217 | 50,89 |
| 1941 | 3.850.771 | 1.908.545 | 49,56 | 1.942.226 | 50,44 |
| 1950 | 5.034.838 | 2.552.491 | 50,70 | 2.482.347 | 49,30 |
| 1961 | 7.523.999 | 3.821.722 | 50,79 | 3.702.277 | 49,21 |
| 1971 | 10.721.522 | 5.357.157 | 49,97 | 5.364.365 | 50,03 |
| 1981 | 14.516.735 | 7.259.812 | 50,01 | 7.256.923 | 49,99 |
| 1990 | 18.105.265 | 9.019.757 | 49,82 | 9.085.508 | 50,18 |
| 2001 | 23.232.553 | 11.495.270 | 49,48 | 11.737.283 | 50,52 |

Source: Statistical National Institute (INE)

Venezuelan demographic data from 1950 to 2000

| Period | Mortality rate | Global fertility rate | Life Expentancy |
|-----------|----------------|-----------------------|-----------------|
| 1950-1954 | 12,4 | 6,3 | 55,2 |
| 1955-1959 | 10,7 | 6,7 | 58,1 |
| 1960-1964 | 9,3 | 6,5 | 62,2 |
| 1965-1969 | 7,7 | 5,9 | 64,8 |
| 1970-1974 | 6,6 | 5,0 | 66,7 |
| 1975-1979 | 5,9 | 4,5 | 67,7 |
| 1980-1984 | 5,5 | 4,1 | 68,8 |
| 1985-1989 | 5,0 | 3,6 | 70,5 |
| 1990-1994 | 4,8 | 3,2 | 71,8 |
| 1995-2000 | 4,7 | 3,0 | 72,8 |

Source: Statistical National Institute (INE)

Venezuela Households and Households by Basic Unsatisfied Needs (NBI) 2000-2007

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Households | 4.996.523 | 5.217.043 | 5.758.490 | 5.851.911 | 6.004.141 | 6.135.569 | 6.319.445 | 6.423.801 |
| No poverty households (NBS) | 3.482.301 | 3.735.833 | 3.918.899 | 4.027.671 | 4.219.001 | 4.494.069 | 4.842.249 | 4.926.716 |
| (%) | 69,9 | 72,2 | 68,8 | 69,5 | 70,4 | 73,3 | 76,6 | 76,7 |
| Poverty households (NBI) | 1.498.050 | 1.440.959 | 1.777.629 | 1.767.148 | 1.777.126 | 1.638.442 | 1.477.060 | 1.493.850 |
| (%) | 30,1 | 27,8 | 31,2 | 30,5 | 29,6 | 26,7 | 23,4 | 23,3 |
| No extreme poverty | 976.299 | 958.009 | 1.035.697 | 1.033.867 | 1.048.305 | 1.020.737 | 905.351 | 951.891 |
| (%) | 19,6 | 18,5 | 18,2 | 17,8 | 17,5 | 16,6 | 14,3 | 14,8 |
| Extreme poverty | 521.751 | 482.950 | 741.932 | 733.281 | 728.821 | 617.705 | 571.709 | 541.959 |
| (%) | 10,5 | 9,3 | 13,0 | 12,7 | 12,2 | 10,1 | 9,0 | 8,4 |

Source: Statistical National Institute (INE)