In the Name of Allah

Iran’s Population and Housing Census-2016

Statistical Centre of Iran (SCI)

January 2018
Thailand
Quick facts about Iran, 2016 Census

Population: 79,926,270

- Male: 40,498,442
- Female: 39,427,828

Mean Size of Household: 3.3

Percentage of Urban Population: 74%

Literacy Rate:
- Male: 91%
- Female: 84.2%

Annual Growth Rate: 1.24%

1.65 million sq. km
- Designing
  - pilot
  - Training
  - Organization
  - Implementation
  - ICT & Process
  - Dissemination
A Brief look at the Census

**Period of Design**: ≈ two years

**Designing Groups**: ≈ 20 working committees and Groups

**Designing Team**: ≈ 170 staffs

**Number of Activities**: ≈ 700 activities

**Number of Trainers**: ≈ 5200 trainers

**Number of Workforces involved**: ≈ 40000 people
Address Items:

- Province
- Sub-province (Shahrestan)
- County (Bakhsh)
- City/ Urban area
- Rural agglomeration (Dehestan)
- Village
- Avenue
- Street
- Alley / Dead-end
- No.
- Floor number
- Apartment/Unit number
- Postal code
- Household’s fixed telephone number
Identification

- Number of household members
- Name
- Family name
- Citizenship
- National ID number
- Relationship to the head of the household
- Gender
- Year of birth
- Month of birth
- Age

Migration Items:

- Literacy and Education Items:
- Activity Status Items:
- Marital Status Items:
- Fertility Items:
- Housing Items:
Organizational Structure of Population and Housing census 2016
Phases of Census

**Phase 1: Internet Census**
24 September to 21 October

- Visiting the census’ web site and completing questionnaire
- Receiving internet code

**Phase 2: Face to Face Interview**
22 October to 20 November

- Visiting all Places by Enumerators
  - Taking statistical code form the visited household provided by the Internet
- Face to Face interview
  - or
- Sticking “Absent Household Notice Card”
  - or
- Calling to Call Centers

By household:

By Enumerator:
## Questionnaire completion and data processing in the censuses

<table>
<thead>
<tr>
<th>Data Processing</th>
<th>Method</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1867*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1941**</td>
</tr>
<tr>
<td>OMR</td>
<td></td>
<td>1956</td>
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<tr>
<td>OCR</td>
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<td>1966</td>
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<td>ICR</td>
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<tr>
<td>ICR</td>
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<td>2006</td>
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<tr>
<td>OMR</td>
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<td>2016</td>
</tr>
</tbody>
</table>

* Coverage of Census was only consist Tehran (Capita)
**It was incomplete because of the World War II.  

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![Image of people completing a questionnaire]

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![Image of people completing a questionnaire]

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![Image of people completing a questionnaire]

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![Image of people completing a questionnaire]

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![Image of people completing a questionnaire]
- Designing
- **pilot**
- Training
- Organization
- Implementation
- ICT & Processing
- Dissemination
Pilots of the 2016 Census

The first pilot was in 2014

- Evaluation and comparison of the results through self-administration and face to face interview
- Evaluation of address file and household coverage
- Checking data with other administrative sources
- Checking data with agriculture census
- Checking data with 2006 and 2011 censuses
- Field study
- Telephone-assisted survey
- Checking data with targeted subsidies data

The second pilot was in 2015

- Address file
- Internet census
- Tablet Software
- Evaluation of the questions on religion
- Time for completion of the household questionnaire
- Evaluation of access methods to absent households
- Using back up data on the tablets
- Using registers data
- Evaluation of the enumerator’s work load
- Group Organization
• Designing
• pilot
• Training
• Organization
• Implementation
• ICT & Processing
• Dissemination
In person training: Centralized and Decentralized Distance
Distance training: In addition to in person training, distance training was also used during 2nd and 3rd phase of training.
• Designing
• Pilot
• Training
• Organizing
• Implementation
• ICT & Processing
• Dissemination
## Information on Census Enumerator

<table>
<thead>
<tr>
<th>Sex</th>
<th>Level of education</th>
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<tbody>
<tr>
<td></td>
<td>Diploma</td>
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<tr>
<td></td>
<td>Associate’s Degree</td>
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<td></td>
<td>B.A.</td>
</tr>
<tr>
<td></td>
<td>M.A. and Higher</td>
</tr>
<tr>
<td>Male</td>
<td>52.2%</td>
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<tr>
<td>Female</td>
<td>47.8%</td>
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<tr>
<td>Diploma</td>
<td>11.5%</td>
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<tr>
<td>Associate’s Degree</td>
<td>8.7%</td>
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<tr>
<td>B.A.</td>
<td>64.7%</td>
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<tr>
<td>M.A. and Higher</td>
<td>15.1%</td>
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## Number of Executive Categories in the 2016 Census

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Row</th>
<th>Number</th>
<th>Description</th>
<th>Row</th>
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<tr>
<td>451</td>
<td>Deputy for coordination and executive affairs</td>
<td>21</td>
<td>18</td>
<td>Census Headquarters</td>
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<tr>
<td>583</td>
<td>Shahrestan technical deputy</td>
<td>22</td>
<td>149</td>
<td>Groups and committees coordination and Integration council</td>
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<tr>
<td>2647</td>
<td>Urban senior expert</td>
<td>23</td>
<td>75</td>
<td>Members of the headquarters committee</td>
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<tr>
<td>1358</td>
<td>Rural senior expert</td>
<td>24</td>
<td>15</td>
<td>Members of the telephone headquarters</td>
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<tr>
<td>17151</td>
<td>Urban enumerator (reserve-institutional)</td>
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<td>20</td>
<td>Armed forces representatives in the SCI</td>
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<tr>
<td>629</td>
<td>Telephone enumerator</td>
<td>26</td>
<td>41</td>
<td>Supervisor and representative of the headquarters</td>
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<tr>
<td>6159</td>
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<td>31</td>
<td>Governor general</td>
<td>7</td>
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<tr>
<td>462</td>
<td>Director of the administrative and financial affairs</td>
<td>28</td>
<td>31</td>
<td>Executive manager of Ostan</td>
<td>8</td>
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<tr>
<td>453</td>
<td>Liaison officer of security and safeguarding for Shahrestan</td>
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<td>31</td>
<td>Deputy executive manager of the census</td>
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<tr>
<td>31</td>
<td>Director of financial affairs and auditing</td>
<td>30</td>
<td>36</td>
<td>Technical Deputy of Ostan</td>
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<tr>
<td>32</td>
<td>In-charge of administrative, financial and logistics affairs</td>
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<td>10</td>
<td>Director and deputy director of Tehran executive manager</td>
<td>11</td>
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<tr>
<td>46</td>
<td>accountant</td>
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<td>32</td>
<td>Ostan security offices</td>
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<tr>
<td>31</td>
<td>In-charge of logistics affairs (property accountable)</td>
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<td>37</td>
<td>Map senior expert</td>
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<tr>
<td>49</td>
<td>In-charge of Ostan clerical affairs</td>
<td>34</td>
<td>36</td>
<td>IT senior expert</td>
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<tr>
<td>32</td>
<td>In-charge of Ostan’s logistics</td>
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<td>475</td>
<td>IT expert</td>
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<tr>
<td>53</td>
<td>In-charge of motor vehicles affairs</td>
<td>36</td>
<td>409</td>
<td>Map expert</td>
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<tr>
<td>7739</td>
<td>Drivers</td>
<td>37</td>
<td>32</td>
<td>Public relations and disseminations senior expert</td>
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<tr>
<td>40313</td>
<td>Total</td>
<td></td>
<td>40313</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Total**: 40313
Manpower Saving

We would need more than 65000 people for carrying out the National Population and Housing Census if we applied the methods used for the 2011 population census.
- Designing
- Pilot
- Training
- Organization
- Implementation
- ICT & Processing
- Dissemination
First phase: Internet Census

Completion of the questionnaire by households through the internet and receiving Statistical(internet) code

from 24 September to 21 October for all households and from 22 October to 20 November for absent households

www.sarshomari95.com
First page of the Internet-based Census Portal and instructions for filling out e-Questionnaire

2016 National Population and Housing Census

سرشماری عمومی نفوس و مسکن ۱۳۹۵
به سامانه سرشماری اینترنتی خوش آمدید

جهت استفاده از سامانه از نسخه‌های جدید مرورگرهای Firefox یا Chrome یا دکمه Back و بازگردن بخش از یک صفحه مرورگر خودداری کنید.

خواهشمند است پیش از ورود به سامانه، شماره ملی تمام اعضای خانوار و کد پستی محل زندگی معمول خود را در دسترس داشته باشید.

بهره است سرعت خانوار با مطابقت رنگ فرد به سوالات پاسخ دهد.

اطلاع بخش از کیفیت نهایی اطلاعات وارد شده را که از سوی سامانه نمایش داده می‌شود، مرور تمویل و در صورت نیاز آن به اصلاح نمایید.

توجه داشته باشید تبدیل شما زمانی انجام گرفته است که از سیستم کامپیوتری خودت مورد نظر یا در دفاتر نموده و آن را اما دانستید و تعیین در هنگام مراجعه مامور آماده باشید که مورد شما پیامک نیز خواهد شد.

پس از پایان مراحل ثبت نام بر روی دکمه "خروج" کلیک نمایید.

در صورتی که در مراحل ثبت نام مشکلی مواجه شدید، پنجره‌های مرورگر را بسته و از ابتدا مراحل ثبت نام را آغاز نمایید.

به حاوی‌هایی که ثبت اطلاعات آنها تکمیل شده و کامپیوتر دریافت کرده‌اند، به قید زمان‌های تقدیم خواهد شد.
مشخصات عضو خانوار

<table>
<thead>
<tr>
<th>نام</th>
<th>نام خانوادگی</th>
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</table>

<table>
<thead>
<tr>
<th>شماره ملی</th>
<th>بستگی با سرپرست خانوار</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>مرد/پسر  زن/دختر</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>سال تولد</th>
<th>ماه تولد</th>
<th>سن</th>
</tr>
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<tbody>
<tr>
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</table>

وضعیت تحصیلی برای افراد ۶ ساله و بیشتر

<table>
<thead>
<tr>
<th>وضع وضعیت تحصیلی برای افراد ۶ ساله و بیشتر</th>
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</thead>
<tbody>
<tr>
<td>آیا فرد در حال حاضر تحصیل می‌کند</td>
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</table>

وضعیت فعالیت برای افراد ۱۰۰ ساله و بیشتر

وضعیت تأهل برای افراد ۱۰۰ ساله و بیشتر

وضعیت تاهل برای افراد ۱۰ ساله و بیشتر

وضعیت تاهل برای افراد ۱۰ ساله و بیشتر

وضعیت فرزند آوری برای زنان ۱۰ ساله و بیشتر (حداقل یک بار ازدواج گرده)

آیا تاکنون فرزند زنده‌ای به دنیا آورده‌اند؟: بله نه

تعداد کل فرزندان

تعداد فرزندان در حال حاضر زنده

آیا از ۳۶۵ روز گذشته فرزند زنده‌ای به دنیا آورده‌اند؟: بله نه

وضع فعالیت برای افراد ۱۰ ساله و بیشتر

وضع مهاجرت

آیا فرد از آبان ماه ۱۳۹۰ تاکنون شهر یا آبادی محل زندگی جدیدی را گزینیده است؟: بله نه

مدت زندگی در همین شهر یا آبادی محل زندگی قبلاً

استان محل زندگی قبلاً

شهرستان محل زندگی قبلاً

شهر محل زندگی قبلاً

کشور محل زندگی قبلاً
Stages of the implementation of the Internet-based Census in 2016 E_Census

1. Convincing households to implement census through internet

2. Sending statistical code and thank you sms to the mobile number

3. Arriving at census website, inserting national code, security code and mobile number

4. Access to questionnaire for completing it

5. Reception of statistical code

6. Delivery of statistical code to the enumerator when he/she refers to households

7. Access to technical support through a Call Centre

8. Controlling logical relationships of the questions and warning when necessary

9. In case of missing statistical code, it can be delivered again in determined time

10. When necessary, the questionnaire can be edited in determined deadline
Second Stage: Face to Face Interview

Enumerator's Face to Face Interview by Using Tablet

from 22 October to 30 November 2016
Map Display and Correction tools in the SIJAD Map Module

**Statistical Blocks Edition Tools:**
- Creating blocks
- Delete blocks
- Integrating blocks
- Disintegrating blocks

**Functional Tools:**
- Search of blocks
- Selection of blocks
- Map guide
General Processes of the Second stage

- Reviewing working units information
- Allocation of working unit
- Taking the working unit
- Collecting data by enumerators
- Uploading working unit to the tablet
- Sending collected data by internet
- Ready to integrate with the data of the 1st stage
- Data Storage

Diagram:
- Servers
- 2nd stage
- Data Storage
- Loading...
Telephone-based census

Telephone-based Census Portal

User name

Password

Rewrite security code

Enter

91,000 households
270,000 persons

Absent Households

640 Operators
Phases of Census

Phase 1: Internet Census
- Number of Participated Households in Internet Census: 11,700,000
- Average Registration Time: 17 Minutes

Phase 2: Face to Face Interview
- Visiting 30,000,000 Places
  - Taking internet code: 11,400,000 Codes
  - Face to Face interview: 12,439,000 Households
  - Sticking 553,000 “Absent Household Notice Card”

Internet census: 270,000 Households
Phone Census: 91000 Households
192,000 Households Rest absent

By Enumerator: [Light Green]
By household: [Dark Green]
Participation Rate on Internet Census

I.R. Iran: 48.4%

Target: 35%
1. **Outdoor promotion** (designing and publishing Banners, Placards, wall poster, leaflets, use of Census vest and Bag by enumerator, use of official paper on which census logo was printed)
Meeting of Census Officials with Supreme leader and President and Cabinet
Census Assistant Card for primary school student
Census Central Controlling System

Developing web-based monitoring forms with the following specification:

• Online Monitoring of the smallest area at the administrative levels (block and village)
• Online Monitoring of all enumerators
• Online Monitoring of progress
• Online and on-time precise reporting
### Control Room

<table>
<thead>
<tr>
<th>کل کشور</th>
<th>تعداد مکان اقامتگاه معمولی حانوارات</th>
<th>تعداد سالن</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>معامله‌های مکان‌ها</td>
<td>برآورد حانوارات 95</td>
</tr>
<tr>
<td></td>
<td>جنرال‌های شده</td>
<td>جانوار 90</td>
</tr>
<tr>
<td></td>
<td>رست‌برداری شده</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th></th>
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<th>میلیون</th>
<th>میلیون</th>
<th>میلیون</th>
<th>میلیون</th>
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<tbody>
<tr>
<td>آذربایجان شرقی</td>
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<td>135,521</td>
<td>319,855</td>
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<td>1,086,083</td>
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<td>187,099</td>
<td>1,032,194</td>
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<td>21,128</td>
<td>51,986</td>
<td>287,051</td>
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<td>اردبیل</td>
<td>127</td>
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<td>248</td>
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<td>12,726</td>
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<td>یزد</td>
<td>3,938</td>
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<td>-</td>
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<td>29</td>
<td>150</td>
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<td>200</td>
<td>407</td>
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<td>-</td>
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</table>
Developing 32 Software for the Census. for example:

- internet and phone census
- Face to Face interview with Tablet
- Map Module
- Supervising the filed operation
- Post-enumeration
- Workforce Recruitment Portal and CRM (Customer Relationship Management)
- Virtual training
- Editing and imputation
- Monitoring the Census infrastructures
Used browsers

Firefox, 45.44
Chrome, 45.25
IE, 4.9
Safari, 4.08
Others, 0.35
Used devices

Desktop, 77

Mobile, 23
Visit peak hour to the census website

<table>
<thead>
<tr>
<th>Statistical codes</th>
<th>hour</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2114</td>
<td>11.27</td>
<td>18 October 2016</td>
</tr>
<tr>
<td>2128</td>
<td>10.52</td>
<td>18 October 2016</td>
</tr>
<tr>
<td>2129</td>
<td>11.12</td>
<td>18 October 2016</td>
</tr>
<tr>
<td>2136</td>
<td>11.52</td>
<td>18 October 2016</td>
</tr>
</tbody>
</table>

Issuing 1412443 statistical codes (persons 4741010)

36 households per second
### Visit Time to the Website

<table>
<thead>
<tr>
<th>% of household’s visits</th>
<th>Time intervals</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>6 am to 12 pm</td>
</tr>
<tr>
<td>34</td>
<td>12 pm – 18 pm</td>
</tr>
<tr>
<td>35</td>
<td>18 pm - 24 pm</td>
</tr>
<tr>
<td>3</td>
<td>24 pm - 6 am</td>
</tr>
</tbody>
</table>
• Designing
• pilot
• Training
• Organization
• Implementation
• ICT & Processing
• Dissemination
How to have access to census data

Primary results: till the end of March, 2017
Detailed results and preparation of publications: September, 2017

SCI’s website address: www.amar.org.ir
Innovations in the 2016 Population and Housing Census

Using mixed methods in data collection including tablet, internet and telephone

Synchronizing internet-based data and tablet data

Using back up files on the tablets
Innovations in the 2016 Population and Housing Census

Preparing daily reports at district level for informing enumerators and experts through Tablet device

Using internet website and telephone-assisted enumeration for absent households

Checking, coverage control and integration of the results of census via internet and Tablet device

Monitoring and supervising Census operation through designing and establishing control room
Selected Results of the 2016 National Population and Housing Census
Changes trend in population and household 1986-2016

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Male</th>
<th>Female</th>
<th>Sex ratio</th>
<th>Household</th>
<th>Household size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>79926270</td>
<td>40498442</td>
<td>39427828</td>
<td>103</td>
<td>24196035</td>
<td>3.3</td>
</tr>
<tr>
<td>2011</td>
<td>75149669</td>
<td>37905669</td>
<td>37244000</td>
<td>102</td>
<td>21185647</td>
<td>3.5</td>
</tr>
<tr>
<td>2006</td>
<td>70495782</td>
<td>35866362</td>
<td>34629420</td>
<td>104</td>
<td>17501771</td>
<td>4</td>
</tr>
<tr>
<td>1996</td>
<td>60055488</td>
<td>30515159</td>
<td>29540329</td>
<td>103</td>
<td>12398235</td>
<td>4.8</td>
</tr>
<tr>
<td>1986</td>
<td>49445010</td>
<td>25280961</td>
<td>24164049</td>
<td>105</td>
<td>9673931</td>
<td>5.1</td>
</tr>
</tbody>
</table>
Population Age Pyramid 2011-2016

Female

Population growth of 0-4 years old

Male

Born in 1980s

Statistical Centre of Iran
With respect to the accessibility to the existing administrative data in the country and upgrading of statistical system, implementation of register-based census will be the main goal for the next census. To achieve this goal, the following prerequisites are:

1. Improving population information bank,
2. Completing and updating address file,
3. Linking national code to place code.
Thank you for your attention

www.amar.org.ir