

# Gender, Science, Technology and Innovation in Argentina: between facts and the mirage of equality 

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## National Assessment on Gender and STI

A collaborative initiative of Women in Global Science and Technology (WISAT), the Organization for Women in Science for the Developing World (OWSD), the Elsevier Foundation, and GenderInSITE
(Gender in science, innovation, technology and engineering).

- What conditions are needed to facilitate women's full participation in the KS in this country?

- What resources do women in each country need to achieve this objective?

Based on the Gender Equality - Knowledge Society (GE\&KS) indicator framework

Restoration of a democratic political system in 1983.

Urban population 92\%

Mobile phone line 79\% (Census, 2010).

Internet users 75\% of population. 50\% women

Poverty rate decreased from 5.7\% in 2011to 4.3\% in 2012 (ECLAC, 2013) No data for 2015.

ARGENTINA 2003-2013


HDI: 49 (World rank)

Since 1884 education has been universal, compulsory, and free of charge from pre school (4 years old) to university.

## Primary school enrollment 124\%

Literacy rates of youth (15-24) reached 99\%.

Universities enrollment rate women 57,5\% Among graduates, represented 61.5\%


Universities 47 public (15 in 2003-2013);

## Women in brief

## GDI (Gender Related Development

 Index). Argentina ranks $\mathbf{4 6}^{\mathbf{t h}_{\mathrm{h}}}$ in the world (out of 155 countries) and third in LA (behind Chile and Uruguay).GEM (Gender Empowerment/ possibility for women to engage in decision making), Argentina stands out at the regional and international levels, ranking $24^{\text {th }}$ out of 109 countries and being the $1^{\text {st }}$ LA country.

- 1991. Quota law for women political participation (30\%).
- 1992. Creation of the governmental gender council.
- 1994. CEDAW acquired constitutional rank. Optional Protocol was ratified in 2007;
- 1996. Convention of Belém do Pará
- Female participation in public and private employment (urban population) 40,4\%
- Women fill the majority of traditionally female positions in the fields of education, health, and service.
- Around $\mathbf{2 0 \%}$ work as domestic workers.
- Women fill 34.2\% of management positions (UNDP, 2011) and as little as $4 \%$ of large private companies are headed by women (ELA, 2010).
- The pay gap has been decreasing over the last decade from $34 \%$ less than men. In 2011, tto 25\% (at the expense of women),
- Since 1983 , the proportion of women in Congress has increased from $4.3 \%$ to $38.1 \%$ in the Lower House and from $6.5 \%$ to $36.1 \%$ in the Senate.


## Of 16 National

Ministries, 4 are headed by women: Culture, Industry, Social Development, and Security. A woman is the current President and is carrying out her second term.

Maternal mortality is not even across the provinces; the indices varied between 0 and 13.3 in 2007 (Ministry of Health).

## Enabling Policy Environment for the Integration of Women into the Science and Technology System

- Ministry of Science, Technology, and Productive Innovation (2007). S\&T budget (2002-2010) +532\%
- CONICET budget: 260 million in 2003 to 2.9 billion pesos in 2013. $50 \%$ salary increase for CONICET researchers.
-     + fellows, researchers, and technicians, as well as infrastructural expansion (2003: 488 scientist (-40 y.); 2012: 2156)
- TEC TV and TECNOPOLIS
- Raices (Roots) Program (more than 1000 scientist return to Argentina)
- LAWS:
- Gender based violence (physical, psychological, sexual, economic and patrimonial, symbolic)
- Gender Identity



## SOCIAL POLICIES \& PROGRAMS:

- Universal Child Allowance (AUH), 2009.
- Law on Technical and Vocational Education.
- CONECTAR -IGUALDAD (One Laptop per Child)
- PROCREAR HOUSING PROGRAM
- PROGRESAR PROGRAM
- Gender studies units in most of the universities.
- Women's NGO working against violence, trafficking and women's rights.


## Women's participation in Science, Technology and Innovation

Argentina, 2001 and 2009: Female participation among undergraduate students by fields of education*

Education

| SCIENTIFIC AREAS* | Disciplines | 2001 |  | 2009 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Both sexes | \% Women | Both sexes | \% Women |
| Agriculture | Agriculture, forestry and fishery | 25.570 | 25,2 | 36.233 | 26,7 |
|  | Veterinary | 18.479 | 28,7 | 22.877 | 36,6 |
| Total |  | 44.049 | 26,6 | 59.110 | 31,6 |
| Engineering, manufacturing and construction | Architecture and building | 80.410 | 26,6 | 104.250 | 32,5 |
|  | Engineering, manufacturing and construction | 78.652 | 15,2 | 93.287 | 17,1 |
| Total |  | 159.062 | 20,9 | 197.537 | 24,8 |
| Humanities and Arts | Arts | 39.043 | 59,5 | 48.609 | 56,9 |
|  | Humanities | 55.901 | 57,3 | 64.959 | 58,0 |
| Total |  | 94.944 | 58,4 | 113.568 | 57,5 |
| Science | Life Sciences | 46.011 | 52,3 | 48.073 | 52,4 |
|  | Physical sciences | 13.399 | 45,7 | 17.449 | 46,6 |
|  | Computing | 88.634 | 26,0 | 81.031 | 19,0 |
|  | Mathematics and statistics | 7.547 | 60,8 | 10.440 | 59,3 |
| Total |  | 155.591 | 46,2 | 156.993 | 44,3 |
| Social sciences, business and law | Social and behavioural science | 234.021 | 38,2 | 268.537 | 45,5 |
|  | Business and administration | 114.995 | 38,4 | 132.992 | 44,8 |
|  | Law | 201.273 | 43,5 | 202.991 | 47,5 |
|  | Journalism and information | 54.997 | 41,9 | 54.149 | 49,1 |
| Total |  | 605.286 | 40,5 | 658.669 | 46,7 |
| Education | Teacher training and education science | 57.436 | 76,0 | 71.123 | 77,1 |
|  | Total |  |  |  |  |
| Health and welfare | Health | 226.416 | 46,4 | 281.327 | 54,7 |
|  | Social Services | 22.499 | 73,4 | 24.491 | 76,9 |
| Total |  | 248.915 | 59,9 | 305.818 | 65,8 |
| Services | Environmental protection | 4.425 | 51,3 | 7.027 | 51,4 |
|  | Security services | 548 | 7,3 | 2.048 | 26,7 |
|  | Transport services | 556 | 22,1 | 1.497 | 17,2 |
|  | Personal services | 22.312 | 64,9 | 43.356 | 67,8 |
| Total |  | 27.841 | 36,4 | 53.928 | 40,7 |
| missing cases |  | 19.875 |  | 33.404 |  |

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## Women's participation in Science, Technology and Innovation

Research


## Women's participation in Science, Technology and Innovation

Research - Public sector

Researchers by Broad Knowledge Area and Gender (2013)


- In 2010, the MINCYT registered 22,839 female researchers (51\%) and 21,715 male (49\%).

Source: Information from December 2013. Source: CONICET Database-Human Resource Management
Researchers by category CONICET

| Categories |  | 2000 |  | 2003 |  | 2006 |  | 2008 |  | 2013 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Both <br> sexes | \% <br> Women | Both sexes | \% <br> Women | Both sexes | \% <br> Women | Both sexes | \% <br> Women | Both sexes | \% <br> Women |
| Leader | Superior | 175 | 13.1 | 192 | 17.2 | 200 | 17.5 | 207 | 19.3 | 158 | 27.2 |
|  | Principal | 482 | 27.0 | 508 | 27.8 | 597 | 29.6 | 698 | 31.7 | 749 | 36.4 |
|  | Independent | 988 | 38.0 | 1,096 | 40.1 | 1,233 | 43.0 | 1,441 | 45.3 | 1,786 | 47.3 |
| Not a leader | Associate | 1,307 | 48.7 | 1,494 | 52.1 | 1,638 | 51.8 | 1,953 | 51.6 | 2,435 | 53.6 |
|  | Assistant | 713 | 51.1 | 466 | 53.2 | 1,091 | 57.0 | 1,337 | 58.0 | 2,774 | 56.3 |
| Total |  | 3,665 | 41.7 | 3,756 | 43.6 | 4,759 | 46.5 | 5,636 | 47.9 | 7,143 | 50.9 |

- Inequalities persist both within different disciplines and within the highest ranking categories.

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## Women's participation in Science, Technology and Innovation

| CONICET BOARD POSITIONS BY GENDER - 2009-2013 |  |  | TABLE \# 1-1 |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Top Positions | 2006 |  | 2009 |  | 2013 |  |
|  | Women | Men | Women | Men | Women | Men |
| TOTAL | 1 | 8 | 3 | 5 | 2 | 6 |
| President |  | 1 | 1 |  |  | 1 |
| Vice-President <br> of Scientific Affairs | 1 | 1 |  | 1 |  |  |
| Vice-President of <br> Technological Affairs <br> Directors | 1 | 5 | 1 | 4 | 1 | 4 |

## Decision-Making Positions

- In 2008, for the first time since Conicet creation, one women became president of this institution.
- 2 women on the Board of Directors: the Vice-President of Scientific Affairs and the Director of Social Sciences and Humanities.

Source: www.conicet.gov.ar

Women account for a third of all employees working in the management and coordination of the MINCYT. The Department of Planning and Policy, both Scientific Advisory Committees, the Committee of Ethics, the National Directorate of International Relations, and the Secretariat of Administrative Coordination are all run by women.

One National Academy of Science (that of Economic Sciences) is headed by a woman.
53 national universities: 8 female rectors; vice-rectors: of 47 , only 9 are women.
$\mathbf{3 7 . 7} \%$ of university deans are women (88 of 233 available positions). The representation of each sex in the total national university faculty body is practically equal.

Senior positions: only $37.4 \%$ of full professors are women while this situation is reversed for junior positions.

## Women's participation in Science, Technology and Innovation

## Private sector



Men comprise the majority of the personnel in the Information and Communication sector $\mathbf{7 2 . 7 6 \%}$ men vs. $\mathbf{2 7 . 2 3 \%}$ women.

Men fill 53\% and women 47\% of positions of "Professional" rank, while in $n$ the "Technical" rank (50\% and 50\%).

## Women's participation in Science, Technology and Innovation

## Policies 2003-2013

- Maternity Leave (including monoparental families, adoption and people with different sexual orientations) : 100 days of leave for both entry-level researchers and those promoted to higher positions. This regulation also provides mothers with the possibility of deferring the productivity report without penalties..
- Age limits for entering research council: extension of application age limits for researchers who have had children.
- Other Regulations: medical coverage associated with fellowships; day care facilities in some science centers (they have not yet been established across the Council's entire network).


## Mirage of the equality



## Privileges vs. Rights

## GenderInSITE

América Latina y el Caribe



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