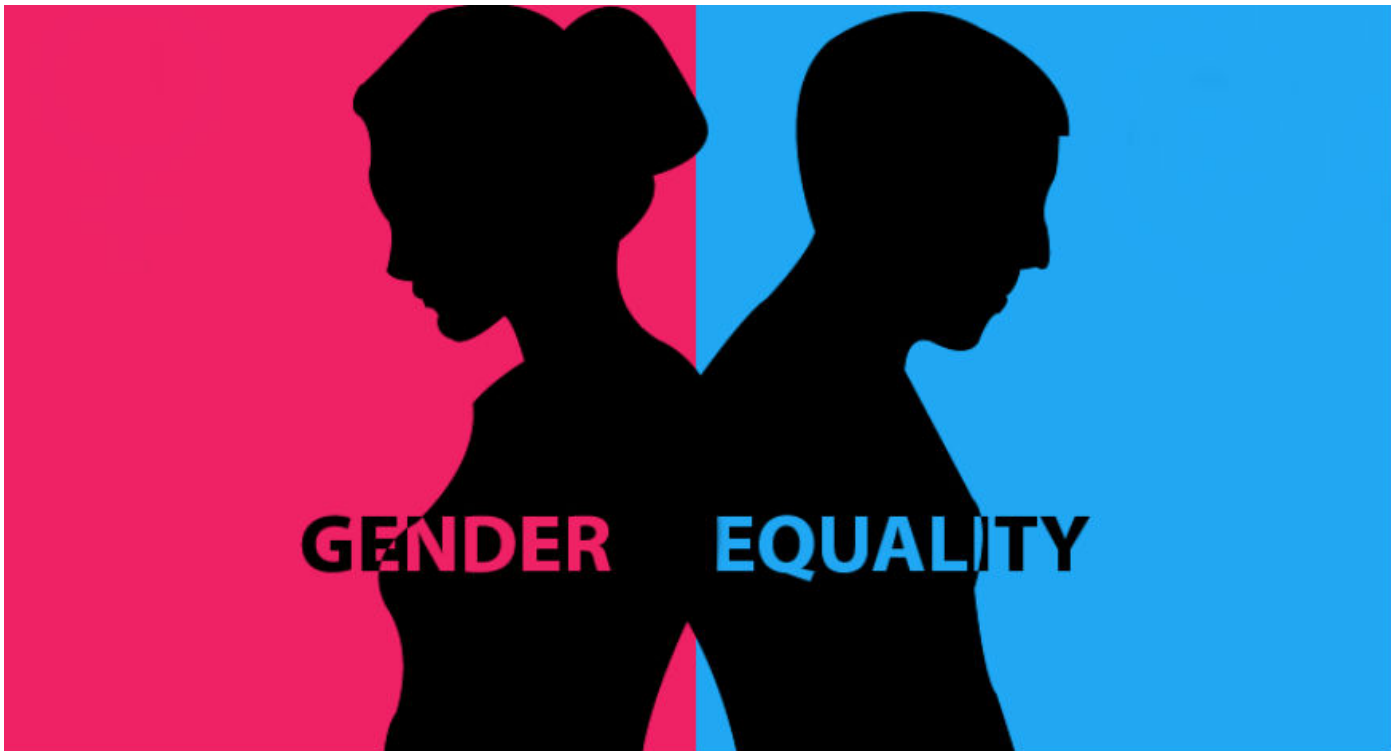


Gender Equality



Tesla

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Project Description

Gender equality occurs when people of all genders have the same rights, responsibilities and opportunities. Women, men, transgender people, diverse genders, children and families are all affected by gender inequality. It affects people of all ages and backgrounds.

Project goal & social problem addressed

TARGET 1: End discrimination against women and girls

End all forms of discrimination against all females everywhere. Whether or not legal frameworks are in place to promote, enforce and monitor equality and non-discrimination on the basis of sex. This means the indicator works towards the legal frameworks which can be applied to promote and enforce non-discrimination on the basis of sex across various measures including hiring, equal pay, marital rape and property rights, among others. Discrimination against women (or sexism) can be measured with a range of indicators such as early marriage, gender-based violence and women's property rights. Child marriage has declined over the past decades yet there is no region that is currently on track to eliminate the practice. If current trends continue, between 2017 and 2030, 150 million girls will be married before they turn 18. Though child marriages are four times higher among the poorest than the wealthiest in the world, most countries need to accelerate progress among both groups in eliminate child marriage by 2030. Cultural belief of child marriage is the foundation in many cases of child marriage that need to be changed. Child marriage is directly related with maternal mortality and pregnancy related complications. A record of 143 countries guaranteed equality between men and women in their constitutions as of 2014. However, another 52 had not taken this step. In many nations, gender discrimination is still woven into the fabric of legal systems and social norms.

TARGET 2: End all violence against and exploitation of women and girls

Eliminate all forms of violence against all females in the public and private spheres including trafficking, sexual and other types of exploitation. -Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months, by form of violence and by age. -Proportion of women and girls aged 15 years and older subjected to sexual violence by persons other than an intimate partner in the previous 12 months, by age and place of occurrence. The rate of constant intentional abuse against females is a widespread form of human rights offense worldwide. Globally, around 7% of women have been sexually abused by someone other than an intimate partner. Another concern is that many of the sex abuse cases are unreported and so data are sub optimal in many countries related to sexual violence.

TARGET 3: Eliminate forced marriages and genital mutilation

Eliminate all harmful practices, such as child, early and forced marriage and female genital mutilation evidence shows that there is no health benefit in the case of female genital mutilation Eliminating harmful practices is a way of ensuring that girls are able to live their full potential lives without any harm. Reducing these risk allows for girls pursue their education, own their bodily autonomy and eventually

become productive members of the social, economic and political processes. Educating women has a direct proportional relation with the development of the community. -Proportion of women aged 20–24 years who were married or in a union before age 15 and before age 18 - Proportion of girls and women aged 15–49 years who have undergone female genital mutilation or cutting In 2019, one in five young women 20 to 24 years of age throughout the world was married in childhood, down from one in four in 2004 and with the highest figure in sub-Saharan Africa, with more than one in three young women. At least 200 million girls and women have been subjected to female genital mutilation, according to recent data from the 31 countries where the practice is concentrated. The harmful practice is becoming less common, but progress is not fast enough to meet the global target of its elimination by 2030.

TARGET 4: Value unpaid care and promote shared domestic responsibilities

Recognise and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate -Proportion of time spent on unpaid domestic and care work, by sex, age and location Unpaid care and domestic work includes cooking and cleaning, fetching water and firewood or taking care of children and the elderly. Women carry out at least two and a half times more unpaid household and care work than men. As a result, women have less time to engage in paid labor, work longer hours, combining paid and unpaid labor. Women's unpaid work subsidizes the cost of care that sustains families, supports economies and often fills in for the lack of social services. Yet, it is rarely recognized as "work". Taking cue from countries like Australia, Italy, Fiji, policies should be put in place to promote equal distribution of paid and unpaid work in households to reduce these gender gaps.

TARGET 5: Ensure full participation in leadership and decision-making

Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life. Advancing global norms and national practices to further women's leadership in politics and public institutions is important for gender equality. -Proportion of seats held by women in national parliaments and local government -Proportion of women in managerial positions As at 1 January 2020, representation by women in single or lower houses of national parliament reached 25 per cent, up slightly from 22 per cent in 2015. Women have better access to decision-making positions at the local level, holding 36 per cent of elected seats in local deliberative bodies, based on data from 133 countries and areas. In 2019, 28 per cent of managerial positions in the world were occupied by women, a small increase from 25 per cent in 2000, while women represented 39 per cent of the world's workers and half of the world's working-age population.

TARGET 6: Universal access to reproductive rights and health

Ensuring universal access to sexual and reproductive health and reproductive rights as agreed in accordance with the Program-me of Action of the International Conference on Population and Development and the Beijing Platform for Action and the outcome documents of their review conferences. -Proportion of women aged 15–49 years who make their own informed decisions regarding sexual relations, contraceptive use and reproductive health care Number of countries with laws and regulations that guarantee full and equal access to women and men aged 15 years and older to sexual and reproductive health care, information and education Based on data from 57 countries for the period 2007–2018, only 55 per cent of married or in-union women 15 to 49 years of age made their own decisions regarding sexual and reproductive health and rights, ranging from less than 40 per cent in Central and Western Africa to nearly 80 per cent in some countries in Europe, South- Eastern Asia and Latin America and the Caribbean.

Project data & access to data

Year	Bachelor's	Master's	Doctorate
1995	7063	2786	161
2004	15066	6298	201
2014	10144	7088	403
2018	14336	14181	419
Percent women	NA	NA	NA
Year	Bachelor's	Master's	Doctorate
1995	28.5	26.4	18.2
2004	25.1	31.2	22.1
2014	18.100000000000001	28.8	20.8
2018	19.67	31.96	21.52

The number and ratio of the degrees obtained by women from computer science between 1995 to 2018

Computer Science Degree 1

Computer Science Degree 2

Year	Bachelor's	Master's	Doctorate
1995	6491	1579	264
2004	6307	1950	301
2014	9511	3244	539
Percent women	NA	NA	NA
Year	Bachelor's	Master's	Doctorate
1995	46.9	40.200000000000003	22.3
2004	45.9	45.4	28.3
2014	42.8	41.7	28.9

The number and ratio of the degrees obtained by women from mathematics and statistics between 1995 to 2014

Math and Statistic Degree

Country	Below upper secondary education	Tertiary education	Upper secondary or post-secondary non-tertiary education	All levels of education
Australia	78	77	81	83
Austria	81	84	72	79
Belgium	83	88	82	89
Canada	67	69	72	75
Chile	81	76	68	82
Colombia	85	81	82	101

Comparison of men and women's earnings according to the level of education in different countries in 2018

Income Ratio By Education Level Between Men and Women 2018

Country	Sex	2019
Australia	Men	5.2
Australia	Women	5.1
Austria	Men	4.6
Austria	Women	4.3
Belgium	Men	5.7

2019 data of unemployment rates of men and women in different countries

Unemployed Ratio of Women and Man (2019)

Income	group
38.803	Bisexual women
39.903	Heterosexual Women
47.026	Lesbian women
49.766	Bisexual men
57.033	Heterosexual men
59.618	Gay men

Average income of different sexes between 2013-2015

Income amounts by gender (2013 - 2015)

long	lat	group	order	region	subregion	males	females
20.611328	60.04068	7	884	Finland	Aland Islands	32.3	44.9
20.603418	60.01694	7	885	Finland	Aland Islands	32.3	44.9
20.521776	60.01167	7	886	Finland	Aland Islands	32.3	44.9
20.487501	60.03276	7	887	Finland	Aland Islands	32.3	44.9
20.411232	60.03013	7	888	Finland	Aland Islands	32.3	44.9

2018 data of ratio of women and men graduating from tertiary education

Graduation rates in tertiary education 2018

	LOCATION	GENDER	Value
1	BEL	MEN	65.64935
2	BEL	WOMEN	73.92869
3	DEU	MEN	68.65961
4	DEU	WOMEN	60.28088
5	HUN	MEN	68.64510
6	HUN	WOMEN	65.43136

2018 data of running a business of men and women in different countries

Running a business

	LOCATION	GENDER	Value
1	BEL	MEN	71.53037
2	BEL	WOMEN	77.84861
3	DEU	MEN	74.79586
4	DEU	WOMEN	64.69935
5	HUN	MEN	78.11194
6	HUN	WOMEN	73.65796

2019 data of running a business of men and women in different countries

Running a business

	LOCATION	GENDER	Value
1	AUS	MEN	80.7
2	AUS	TOT	82.8
3	AUS	WOMEN	84.9
4	AUT	MEN	79.4
5	AUT	TOT	81.8
6	AUT	WOMEN	84.1

2019 data of life expectancy at birth of men and women in different countries

Life expectancy at birth

	LOCATION	MEN	TOT	WOMEN
1	AUS	80.7	82.8	84.9
2	AUT	79.4	81.8	84.1
3	BEL	79.4	81.7	83.9
4	CAN	79.9	82.0	84.1
5	CZE	76.2	79.1	82.0

2019 data of life expectancy at birth of men, total and women in different countries

Life expectancy at birth

	region	males	females
1	Australia	19500	6300
2	Austria	20900	5000
3	Belgium	23600	8800
4	Brazil	10600	2600
5	Canada	16600	5500

2018 data of suicide rates per 100 000 persons of males and females in different regions

Suicide rates

	LOCATION	INDICATOR	SUBJECT	MEASURE	FREQUENCY	TIME	Value
1	AUS	DISCRIMFAMCODE	EARMARRIAGE	PC	A	2019	0.6
2	AUT	DISCRIMFAMCODE	EARMARRIAGE	PC	A	2019	2.8
3	BEL	DISCRIMFAMCODE	EARMARRIAGE	PC	A	2019	2.2
4	CAN	DISCRIMFAMCODE	EARMARRIAGE	PC	A	2019	1.7
5	CZE	DISCRIMFAMCODE	EARMARRIAGE	PC	A	2019	0.2

Set of data separated by location in discrimination in the family 2019

Discrimination in the Family

	LOCATION	INDICATOR	SUBJECT	MEASURE	FREQUENCY	TIME	Value
1	AUS	VIOLWOMEN	ATTITUDEVIOL	PC	A	2019	3.2
2	CAN	VIOLWOMEN	ATTITUDEVIOL	PC	A	2019	7.8
3	FIN	VIOLWOMEN	ATTITUDEVIOL	PC	A	2019	11.2
4	FRA	VIOLWOMEN	ATTITUDEVIOL	PC	A	2019	6.6
5	DEU	VIOLWOMEN	ATTITUDEVIOL	PC	A	2019	19.6

Group of data separated by location in violence against women in 2019

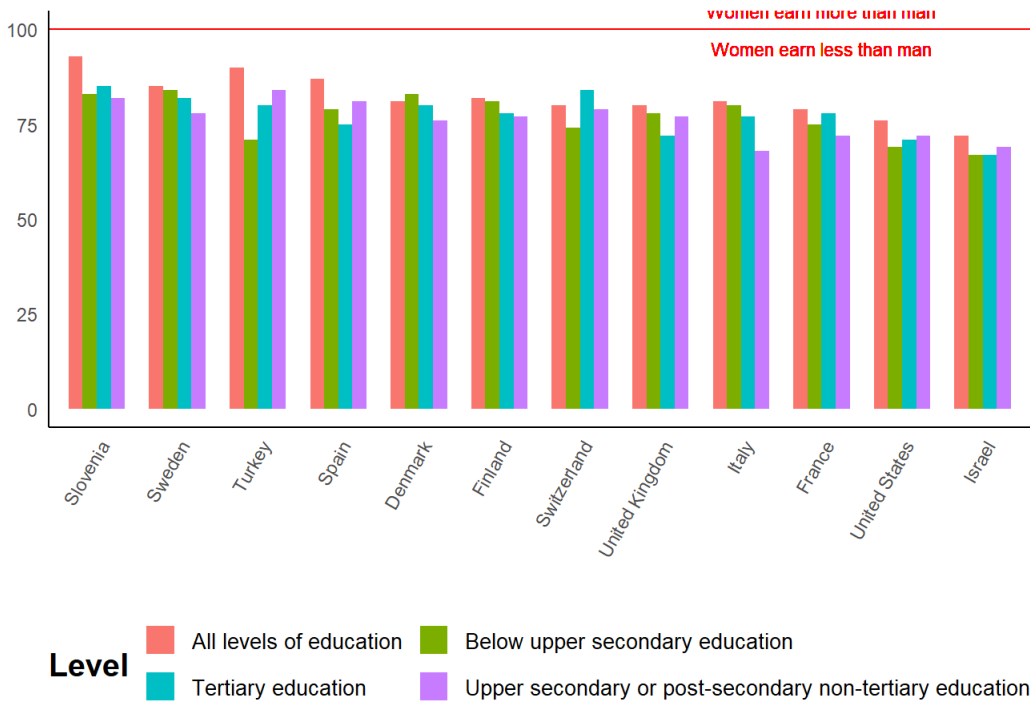
Violence against Women

	LOCATION	INDICATOR	SUBJECT	MEASURE	FREQUENCY	TIME	Value
1	AUS	WOMENPOLVOICE	POLREPRES	PC	A	2017	28.7
2	AUT	WOMENPOLVOICE	POLREPRES	PC	A	2017	30.6
3	BEL	WOMENPOLVOICE	POLREPRES	PC	A	2017	38.0
4	CAN	WOMENPOLVOICE	POLREPRES	PC	A	2017	26.3
5	CZE	WOMENPOLVOICE	POLREPRES	PC	A	2017	20.0

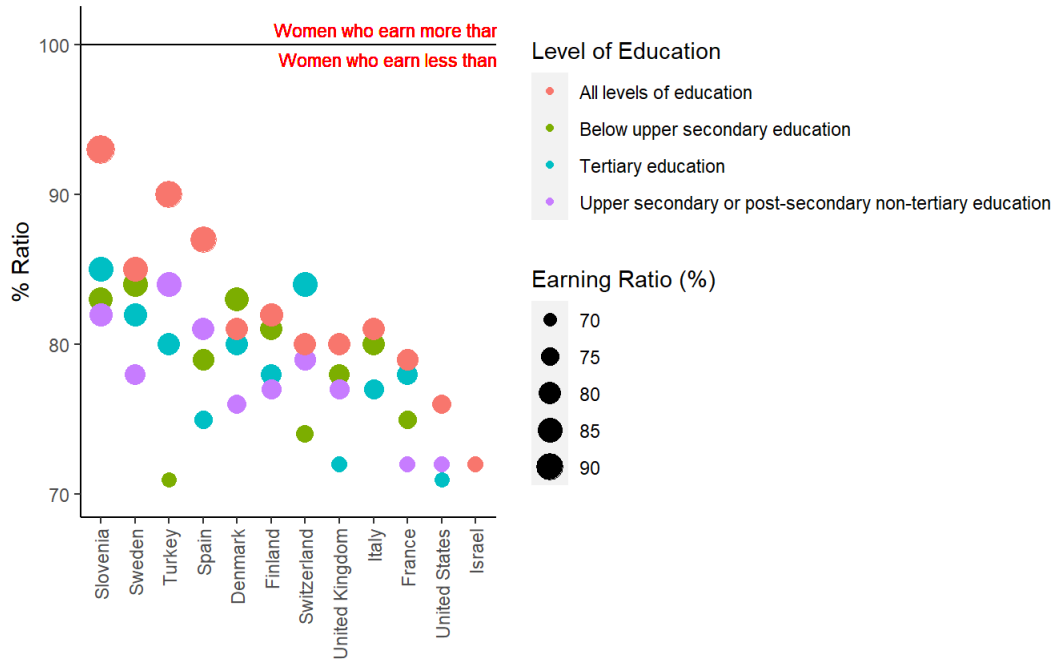
Data group separated by location in women in politics in 2017

Women in Politics

Earning Ratio Relatively 2018 (Earning of Man = 100)

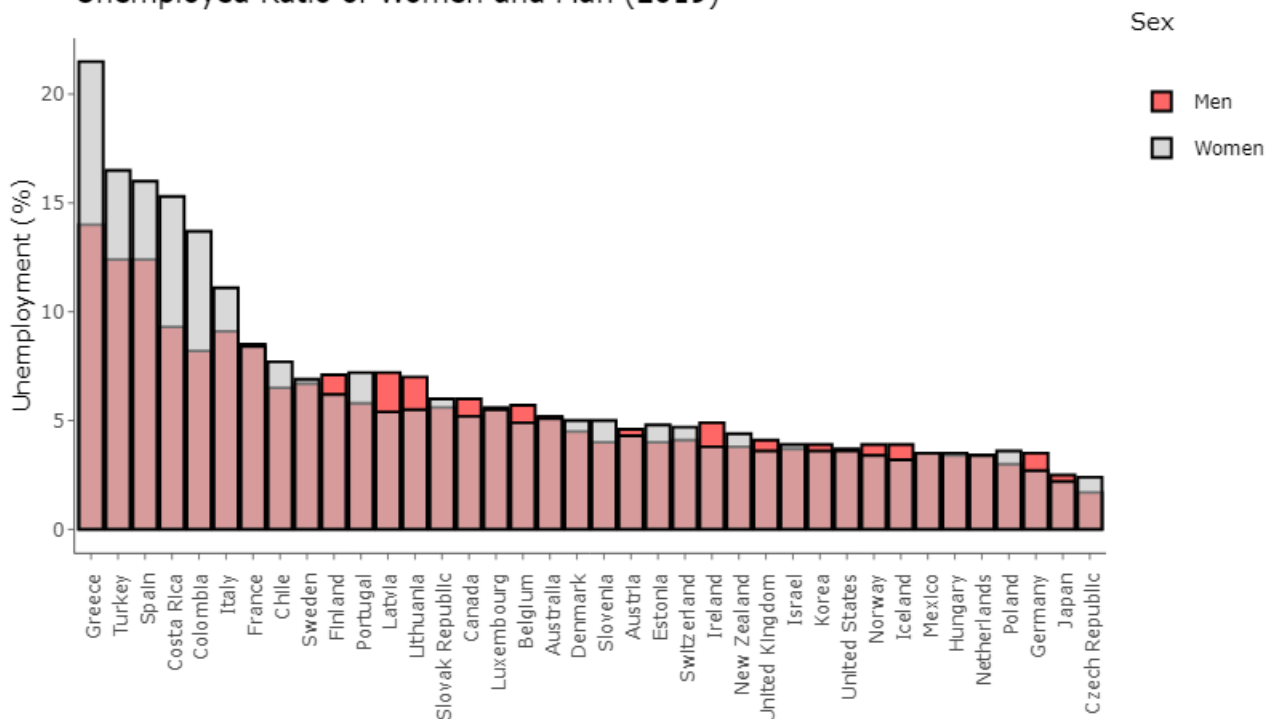


Income Ratio By Education Level Between Men and Women 2018



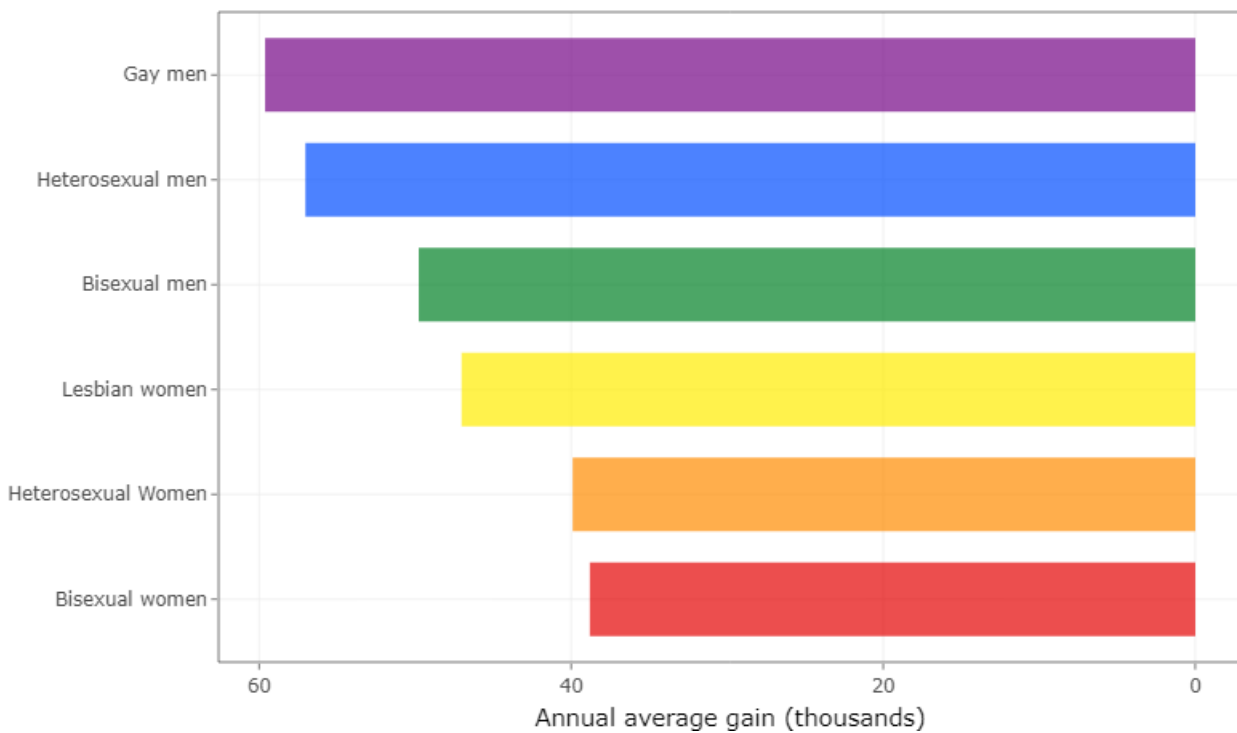
It is evident at all levels of education that compared to Men, women are more likely to work in low-wage occupations and are less likely to advance in their careers.

Unemployed Ratio of Women and Man (2019)



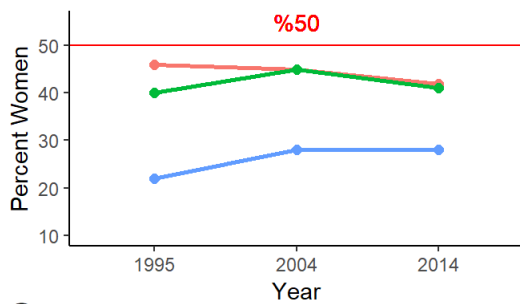
The unemployment rate for men usually below that for women.

Income amounts by gender (2013 - 2015)

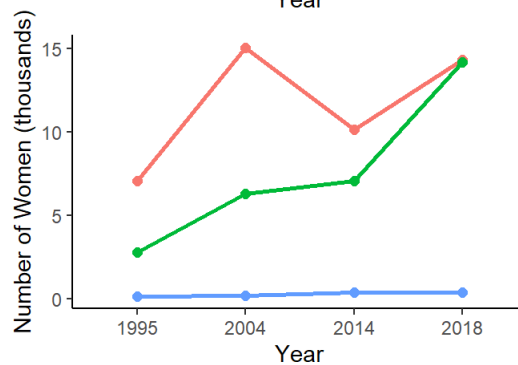
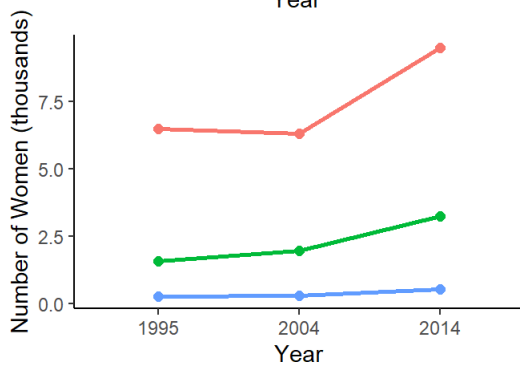
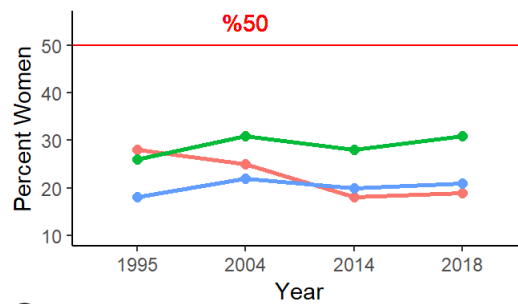


Although the income status among individuals of the male gender from country to country, it is a fact that in most countries, male individuals have more income than female individuals.

Math and Statistic Degree



Computer Science Degree



degree — Bachelor's — Master's — Doctorate

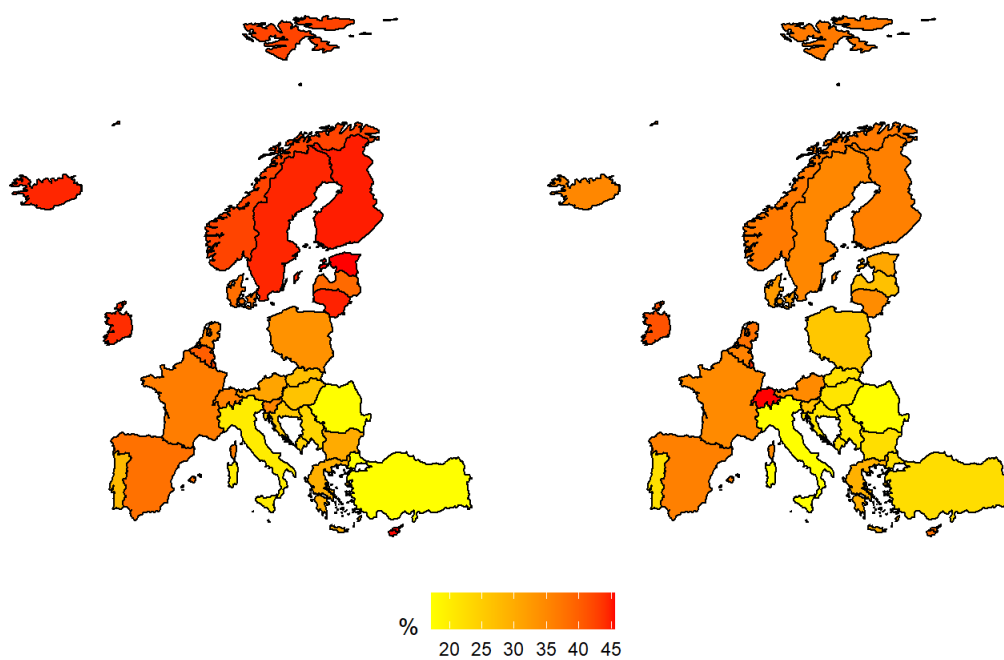
In 2014, women's representation in mathematics and statistics reached more than 40% at the bachelor's and master's levels but remained below 30% at the doctoral level. At all degree levels the percentage of women in mathematics and statistics is higher than the corresponding percentage of women in engineering and computer sciences. Despite increases in the numbers of women earning degrees in mathematics and statistics since 2004, the proportion of women has declined at the bachelor's and master's levels.

The number of women in computer sciences has risen at all degree levels between 1995 and 2014. The proportion of women with degrees in computer sciences has increased slightly at the master's and doctoral level but has declined at the bachelor's level. Both the number and proportion of computer sciences bachelor's degrees earned by women has declined between 1995 and 2014. The proportion of women in computer sciences is highest at the master's level.

Graduation rates in tertiary education 2018

(Female)

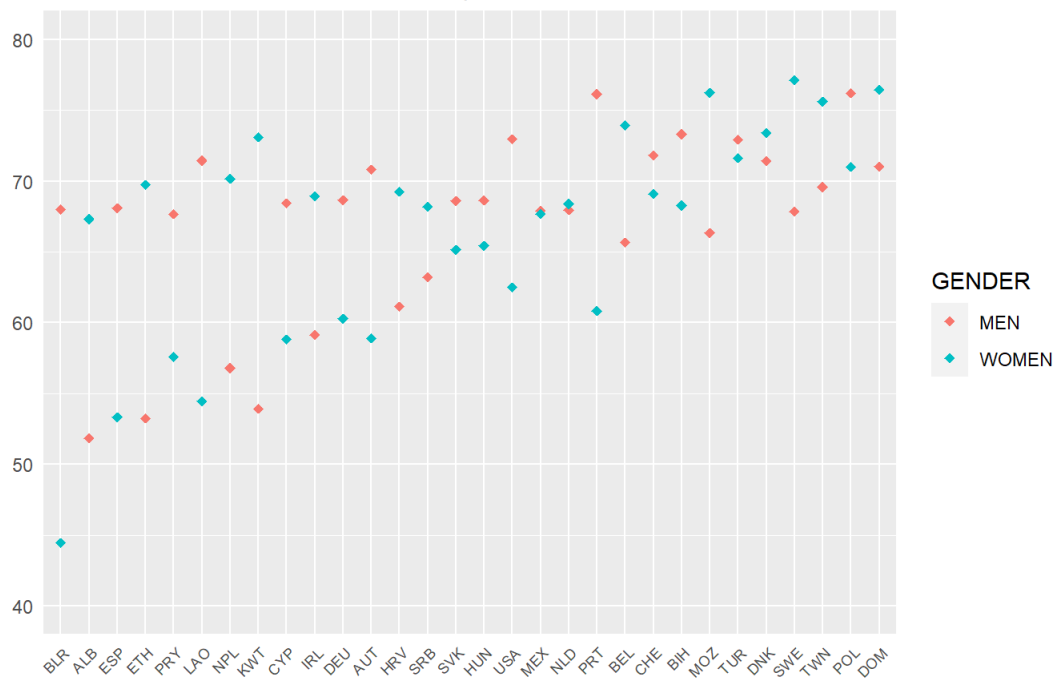
(Male)



Although the rate of education at tertiary education and above is lower in our country, it is seen that the education level of women across Europe is more than men.

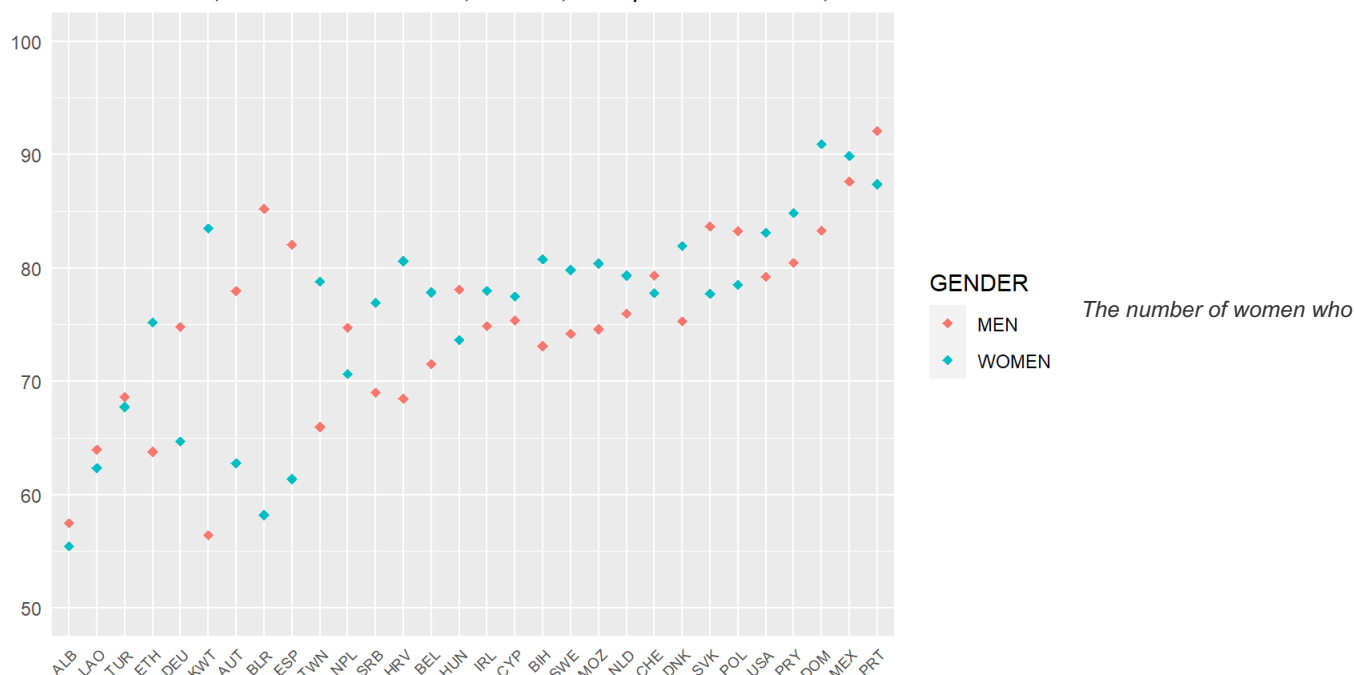
Running a business

Current Men / Current Women, % of positive answers, 2018 or latest available



Running a business

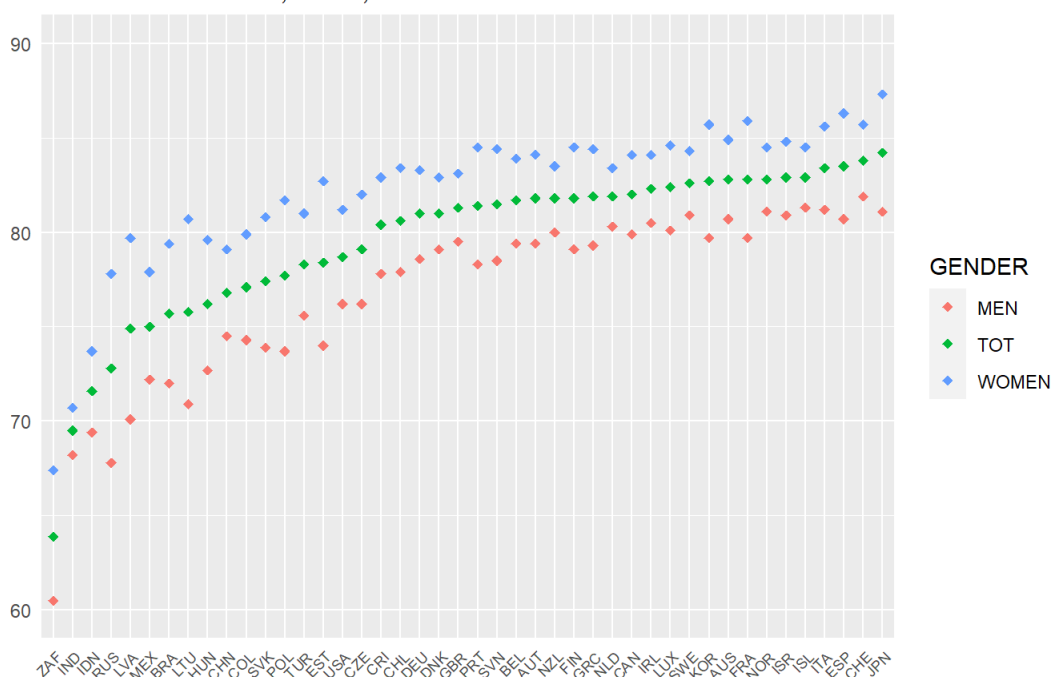
Future outlook, men / Future outlook, women, % of positive answers, 2019 or latest availal



running a business is higher than the number of men who running a business and after 1 year, an increase is observed in the number of those who running a business.

Life expectancy at birth

Men / Total / Women, Years, 2019 or latest available

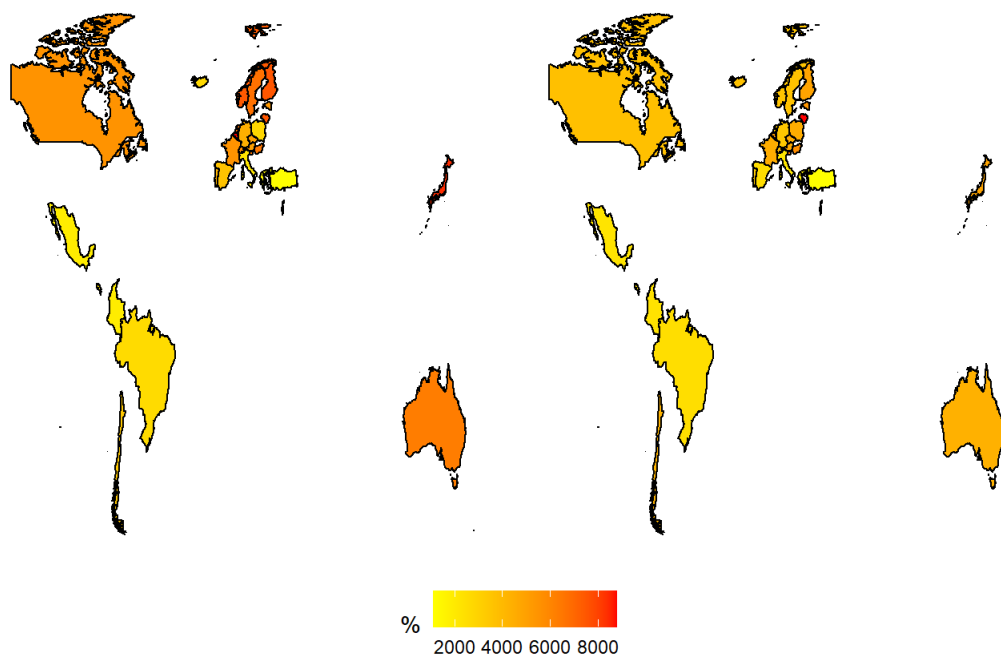


Life expectancy at birth is defined as how long, on average, a newborn can expect to live, if current death rates do not change. However, the actual age-specific death rate of any particular birth cohort cannot be known in advance. If rates are falling, actual life spans will be higher than life expectancy calculated using current death rates. Life expectancy at birth is one of the most frequently used health status indicators. Gains in life expectancy at birth can be attributed to a number of factors, including rising living standards, improved lifestyle and better education, as well as greater access to quality health services. This indicator is presented as a total and per gender and is measured in years. The life expectancy at birth is longer for women than for men. Life expectancy at birth is highest in Japan and lowest in South Africa.

Suicide rates, Per 100 000 persons, 2018 or latest available

(Women)

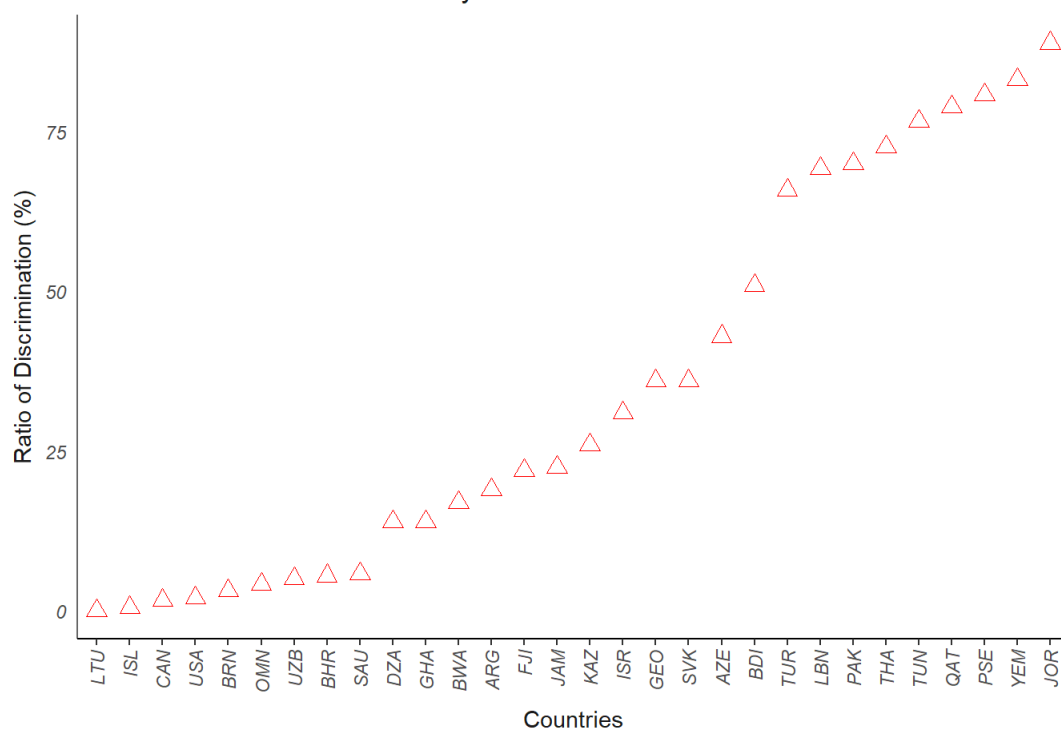
(Men)



Suicide rates are defined as

the deaths deliberately initiated and performed by a person in the full knowledge or expectation of its fatal outcome. Caution is required therefore in interpreting variations across countries. This indicator is presented as a total and per gender and is measured in terms of deaths per 100 000 inhabitants (total), per 100 000 men and per 100 000 women. It is seen that female suicide rates are higher than male suicide rates.

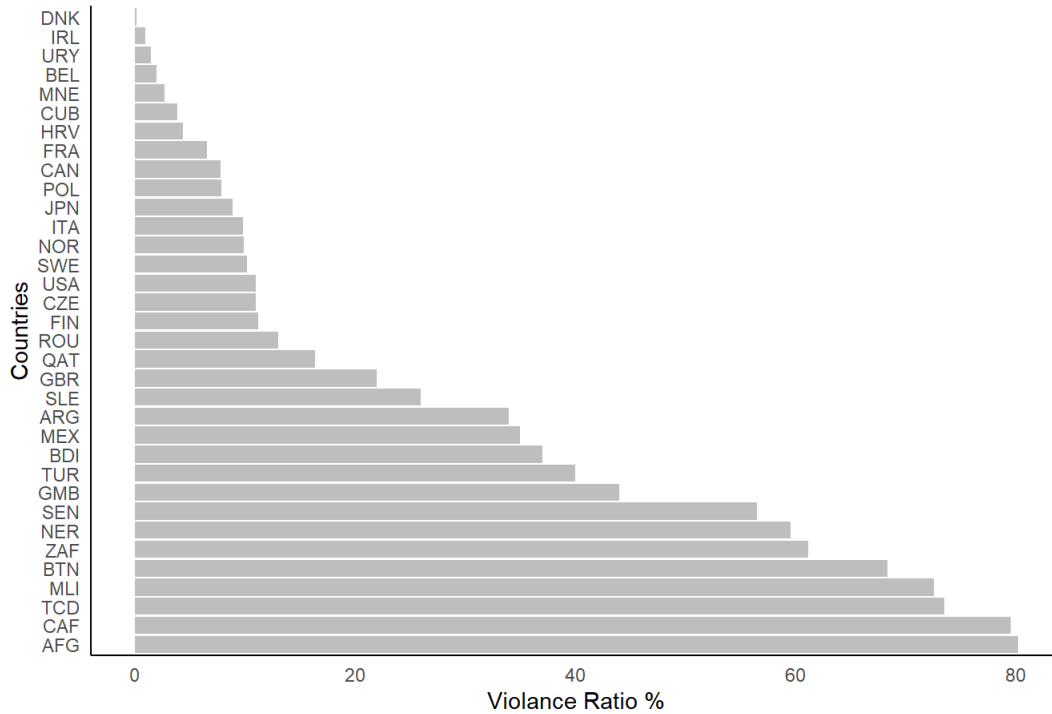
Discrimination in the Family



Discrimination within the

family is highest in Jordan and lowest in Lithuania. When we examine the data, it seems that domestic discrimination is higher in countries in the African continent. On the other hand, in the Scandinavian countries, separation within the family seems less.

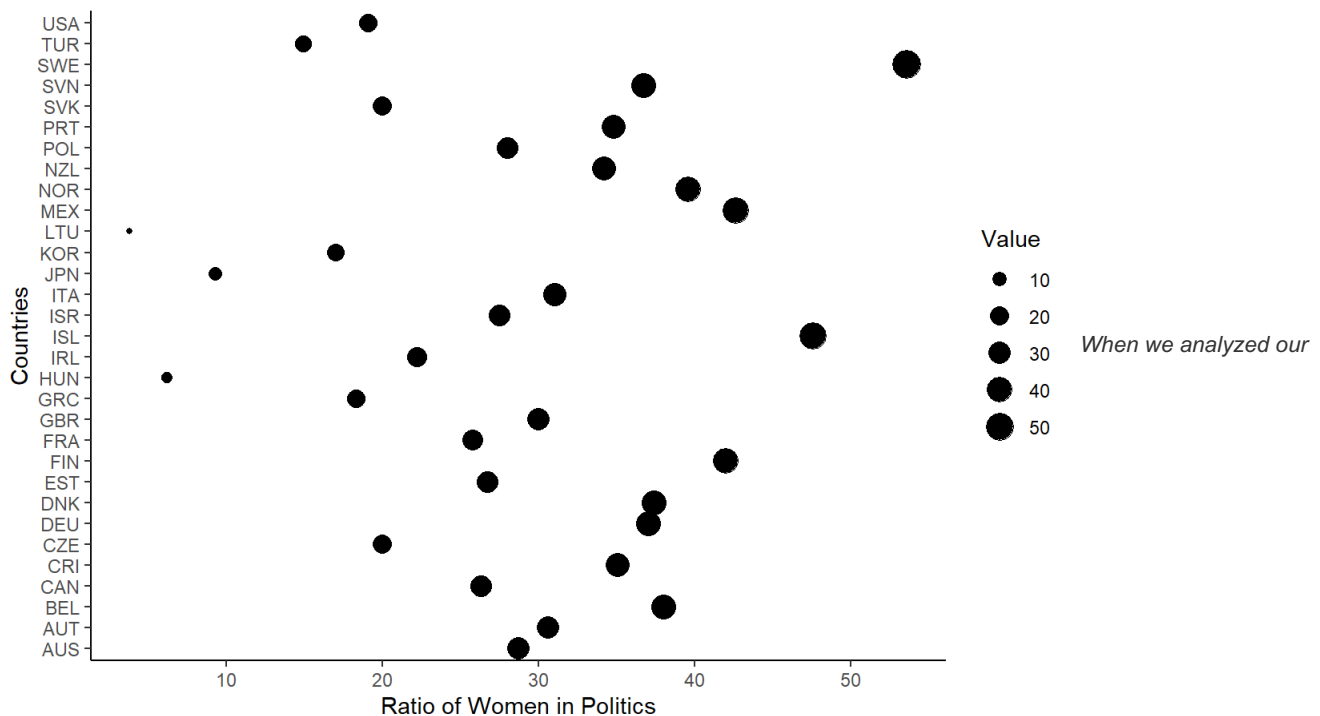
Violence against Women



As seen in the dataset,

violence against women is very high in Afghanistan and the Central African Republic, while violence against women is low in Ireland and Uruguay. If we infer from the visual we have, we can infer that countries with low education rates at an early age have a high rate of violence against women. Regrettably, as we can see in the data set on violence against women, Turkey is an above average country. With this sharing, we hope to be able to cause this value to decrease.

Women in Politics



dataset, women's participation in politics was the highest in Sweden and Ireland, It is the least in African Countries. Since most African countries do not have a parliamentary system, evaluation has been made among the countries with the parliamentary system of European countries. In European countries, participation rates of Lithuanian and Hungarian women in politics are also low. In Turkey, the rate is below the average.

Results and Discussion

As a result, gender equality is the first and most important element of the environment, whether it contributes to the results of improving gender equality and the effects of these results on society are examined. Understandings and feelings about gender and gender issues can often be deeply personal, and approaching these issues can trigger memories and feelings about past or current experiences. Awareness of gender issues has primarily been brought about as a result of the work of the women's movement and of feminist politics, which includes work on gender equality, challenging the status and roles of women and men in society, and addressing the creation of gendered stereotypes. For this reason, there is a tendency to associate gender with women and women's issues alone. However, it is important to

note that everyone has a gender identity, and discussing gender is not only about discussing women's issues.

Conclusion

The Gender Data includes selected indicators shedding light on gender inequalities in education, employment, entrepreneurship, governance, health and development, showing how far we are from achieving gender equality and where actions is most needed. The idea of the project was to raise awareness of gender inequality, which is very common in our country, and to observe where the world is in the gender equality part, to make inferences. By sharing the project on platforms open to access to social media, we share our observations and inferences to people who are dealing with data science or think about dealing with it, to raise awareness of the importance of gender equality in people and to strive as a social responsibility project on behalf of our country.

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