## The State of Women in Canada's Economy: In Pictures

March 2017

Remember Justin Trudeau's quip about why he named an equal number of men and women to his cabinet ("Because it is 2015")? That's just one example of how efforts to raise women's profile in economic and political life have taken centre-stage. From Sheryl Sandberg's "Lean In" to policymakers' efforts to put more women on corporate boards, the issue of female participation in the economy has come to dominate policy discussions as never before. The spotlight on gender issues has highlighted ongoing gender disparities, including the wage gap and the lack of women in executive positions.

Further strides towards economic equality could produce sizeable economic benefits for Canada. But first, it's important to understand the state of play. This chart book aims to provide a snapshot of the role of women in Canada's economy.

Key points:

- Female participation in the workforce in Canada is the highest amongst G7 countries.
- The wage gap has narrowed, but it's still there: for full-time workers of prime working-age, females earned 88 cents, on average, for every $\$ 1$ earned by males.
- Boosting women's participation in the labour force could partially offset demographic trends that threaten Canadian growth.
- Women are making headway in typically male-dominated fields.
- Fewer women are working part-time due to family obligations, but they are still far more likely to work part-time than men.
- Less than $3 \%$ of females head incorporated businesses in Canada, which is half the rate of males. Only 1 in 5 directors of large publicly listed companies in Canada are women.
- The share of women-owned businesses in Canada is growing but still falls well behind countries including Mexico and Japan.
- The pipeline for leadership talent is bright. Canada leads OECD countries both for the share of women holding post-secondary degrees and involved in early-stage firms.
- While many Canadian women pursue post-secondary education, the number of women opting to study in the STEM fields remains low.
- Women in Canada carry most of the burden of unpaid work.
"Equal pay and better economic opportunities for women boost economic growth—creating a bigger pie for everyone to share, women and men alike. Better opportunities for women also promote diversity and reduce economic inequality around the world. It is an economic no-brainer".
-Christine Lagarde, Managing Director
The International Monetary Fund
November 14, 2016


## Gaining ground in the labour force

## 62\% of Canadian females participate in the workforce.

The Canadian rate compares to $57 \%$ in the United States.

Canada had the highest female participation rate of G7 countries over the past decade. The female participation rate in Canada was well above the OECD average of $51.6 \%$ in 2015 and is amongst the highest of this group, next to Norway, Sweden and Iceland.

Exhibit 1: Female participation in the Canadian workforce is relatively high...
Female labour force participation in 2015, \%


After rising by nearly 20 percentage points over the three decades leading up to the 2008/09 recession, the participation rate of females in Canada's labour force began to decline before stabilizing more recently. Rising educational attainment and changing attitudes to family structure underpinned the prolonged rise; however, an aging population means the peak is likely in the past.

Exhibit 2: ...but has steadied in recent years after rising for three decades


[^0]A record 32\% of females aged 55 and older participated in the labour force in 2016, up from $19 \%$ in 2000.

Closing the gap between male and female participation rates could boost GDP by 4\%

Since 2000, the participation rates of older Canadian females have increased sharply, albeit from relatively low levels. Going forward, as an increasing share of the population reaches an age that is typically associated with lower labour force participation, downward pressure on the overall headline participation rate is expected to intensify.


Source: Statistics Canada, RBC Economics Research

The demographic shift taking place in Canada raises concerns about the ability to sustain labour force gains which have contributed to economic growth over past decades. Importantly, a further narrowing and eventual elimination of the gap between female and male participation rates over the next 20 years could act to partially offset the projected slowdown in economic growth.

Exhibit 4: Convergence of participation rates can boost growth


[^1]
## At 20\%, Canada's wage gap was higher than the OECD average of $15 \%$ in 2015.

The wage gap suggests economic gains are being left on the table.

## Breaking barriers: the gender wage gap

Despite gains made by women in the workforce, there exists a gender wage gap in Canada. It was relatively high amongst OECD countries in 2015, ranking next to Korea, Japan and Finland and was well above the OECD average.

Exhibit 5: Gender wage gap is higher in Canada than the OECD average
\% difference between male and female median wages, 2014


Source: OECD, RBC Economics Research
Difference between male and female median wages divided by the male median wages
The wage gap has held steady in Canada in recent years after narrowing over the preceding decade. Increased educational attainment, greater work experience and rising earnings in female-dominated occupations likely contributed to the improvement.

A further narrowing of the wage gap could yield knock-on benefits for the economy. If females aged 25 to 54 and working full-time had earned the same hourly wage as their male counterparts, this cohort's aggregate earnings would have been a whopping $17 \%$ higher in 2015. Notably, this does not account for the uneven distribution of males and females across industries, but in aggregate, it does signal economic gains are being left on the table.

Exhibit 6: Closing the earnings gap could boost economic growth


Source: Statistics Canada, RBC Economics Research

The wage gap is lower for full-time workers of prime working age than the gender gap for all employees.

## Wage gap trends have differed across industries over the past decade.

Factoring in full-time workers of prime-working age, the wage gap has gradually narrowed since the late 1990s. In January 2017, for every $\$ 1$ of male hourly earnings, females earned $\$ 0.88$, on average. This $12 \%$ shortfall compared to a nearly $20 \%$ gap at the turn of the millennium.

Exhibit 7: Gap has improved for full-time workers of prime-working age...


Source: Statistics Canada, RBC Economics Research

The wage gap varies on an industry-by-industry basis in Canada. It was largest for goodsproducing sectors in 2015, although some service sectors have a larger wage gap than the average across industries such as in the professional, scientific and technical sector.

The gap between male and female earnings narrowed in some industries over the past decade, but has deteriorated in others. It widened in goods-producing sectors such as construction and agriculture while the largest improvement was seen in business, building and other services.

Exhibit 8: ...and has improved in some industries...


## Uncovering employment trends

Only 1 in 5 women work in the goods-producing sector with the lowest shares in construction and forestry, fishing, mining, oil \& gas.

Instead women account for close to $55 \%$ of jobs in the services sector including industries that tend to pay lower wages such as accommodation and food services.
$\frac{\text { Exhibit 9: Women account for the majority of jobs in health care }}{\text { \% share of employment, } 2016}$


Source: Statistics Canada, RBC Economics Research

More than a quarter of employed females worked part-time in 2016. This share has remained broadly unchanged since the early 1980's. At the same time, the share of males working part -time has increased, although remains well below the rate recorded for females at $12.6 \%$.

Exhibit 10: Females are more likely to be employed part-time...


[^2]
## Fewer women are working part-time due to family obligations, but this is still well above males.

Women with young children are increasingly entering the workforce.

Of women working part-time in $2015,16 \%$ were doing so to care for children or for other personal responsibilities. This was down from $21 \%$ in 2000, but compared to less than $3 \%$ for males. Females in school accounted for close to one third of part-time workers while 1 in 4 females working part-time were doing so because they could not find full-time work.

Exhibit 11: ...although fewer working part-time due to family reasons*
\% of part-time workers by gender




Source: Statistics Canada, RBC Economics Research

* Caring for children or other personal or family responsibilities

Women with children increasingly entered the workforce over the 1970s, 1980s and 1990s, contributing to the headline female participation rate rising over this period. The upward trend in participation rates amongst these groups have moderated over the past decade; however, women with children are increasingly entering the labour force.

Since 2000, mothers with children under 3 have recorded the highest increase in workforce participation among women.


Women accounted for bulk of job gains in 2015 and 2016.

> 3/4 of prime working-age females hired in 2016 were for full-time positions.

Females accounted for the majority of employment gains in 2015 and 2016, in sharp contrast to the previous two years. Employment rose by 121 K in 2016 for females compared to 108K for males in Canada.

Exhibit 13: Females accounted for majority of jobs in 2015 and 2016...


Source: Statistics Canada, RBC Economics Research

In sharp contrast to recent years, females aged 25 to 44 accounted for the bulk of hiring gains in 2016. This cohort saw employment grow by 92 K jobs.

Encouragingly, three quarters of the hiring gains recorded by females of prime working-age in 2016 were full-time positions. This represented the highest increase since 2012.


Less than 3\% of females lead incorporated businesses in Canada, less than half the rate of males.

## Only 1 in 5 board

 members on publicly -listed companies in Canada were female in 2015.
## Lagging in leadership

Despite accounting for close to half of the labour force, the share of women heading incorporated businesses is well below that of males ( $2.6 \%$ vs. $6.5 \%$ ). That said, relative to other G7 countries, Canada performs well in this regard, coming next to Italy.


A greater share of highly educated women participating in the workforce signals a larger talent pool for senior positions in the future. While female board membership in Canada has been increasing, it was still only $20.8 \%$ in 2015 , below several OECD countries.

According to the International Monetary Fund, electing one additional female to a corporate board is associated with between 8 and 13 basis points higher return on assets*.


[^3]
## Tapping into an underutilized resource

Only $15.7 \%$ of small and mediumsized firms were female-majority owned in 2014.

Female majorityowned firms predominantly in the services sector.

Female majority-owned business establishments have made headway in the Canadian SME landscape with the share of firms with greater than $50 \%$ female ownership edging up to $15.7 \%$ in 2014 from an estimated $15.5 \%$ in 2011 and $14.9 \%$ in 2007. This is well below other countries, however. The share of sole-proprietor women-owned firms was above $40 \%$ in Mexico, close to $35 \%$ in Sweden and Spain and just below $30 \%$ in Japan.

Exhibit 17: Much ground to be covered for female entrepreneurship...


Source: Statistics Canada, RBC Economics Research

For small and medium-sized businesses as a whole, one in ten high-growth firms were female majority-owned and female owned firms accounted for $8 \%$ of SMEs in the ICT sector (more than $60 \%$ of firms in this field were solely owned by males).

Firms with female majority-ownership tend to be found in the services sector. Close to 1 in 4 firms in this sector are majority-owned by females. This compares to only $9 \%$ and $5 \%$ of SMEs in manufacturing and construction, respectively.


> Women accounted for $24 \%$ of international patent applications in Canada in 2015.

Females are engaged in earlystage businesses in Canada.

The share of patent applications from women around the globe amounted to nearly $30 \%$ in 2015, an unremarkable figure but up from $17 \%$ two decades prior. Females in Canada accounted for less than one quarter of patent applications over the 2011 to 2015 period; only a 5 percentage point improvement from the late 1990s. This put Canada in the bottom half of the countries examined and on the lower range in terms of increases on a country-by-country basis over the past two decades.


Addressing the lack of female inventors is important for Canada's economic future for a number of reasons. Innovation - loosely defined as a new product, service or process, that which a patent protects-is an important facet for greater economic growth.

Despite Canada lagging behind its international peers, the pipeline for female talent is encouraging. The share of the female population involved in business start-ups in 2016 was the second highest amongst OECD countries. It was $13.5 \%$ in Canada, lower than the $20.3 \%$ for males, but above the OECD average of $7.7 \%$.

Exhibit 20: Canadian females engaged in start-ups is high amongst OECD


[^4]
## Bright prospects for the (female) talent pipeline

Close to 60\% of science and technology graduates are female.

Females with a STEM degree earn \$9.1K less, on average, than males.

Females account for an increasing share of STEM university graduates (science, technology, engineering and mathematics). They make up the majority of science and technology degree holders and are gaining ground in traditionally male-dominated roles including civil engineering where 1 in 4 young workers are female*.

Exhibit 21: Females trail behind males in STEM fields of study...


Source: Statistics Canada, RBC Economics Research
There is still much ground to be covered, however. Nearly 1 in 5 male college graduates study engineering compared to only $2 \%$ of females.

Despite gaining ground in the fields of science, technology, engineering and mathematics, the labour market outcomes differ between male and female degree-holders. Females with a degree in a STEM field, on average, earn more than non-STEM female degree holders, but the earnings for males in these fields are higher**.


[^5]
## One-third of university students studying math and computer science are female.

> The share of females studying ICT in university has remained broadly unchanged over two decades.

Millennial females account for the majority of university students studying nursing and education. Conversely, females comprise only one-third of students in math, computer and information science, a figure that has remained broadly unchanged over the past two decades.


Engineering remains the 2 nd most popular field of study for males with information, communication and technology (ICT) ranking 6th. For females, these fields rank 7th and 15th, respectively.

Females are accounting for a higher share of students in some male-dominated fields. Encouragingly, females aged 25 to 34 make up an increasing number of employees in fields such as civil engineering (26\%), financial management (46\%) and investment analysis (43\%).

Exhibit 24: ...and account for rising share in some male-dominated fields


## Close to 60\% of post-secondary students in Canada are female.

More than half of university and college students in Canada are female, a trend that has been in place since the early 1990s. As a result, Canada leads the pack of OECD countries for females aged 25 to 64 with post-secondary degrees. The $60 \%$ rate in Canada compares to the $37 \%$ average across OECD countries.


## Still much ground to cover...

Women in Canada have made strides in achieving advancements in the workforce, yet there are still significant gains to be made and much ground has yet to be covered. The rise of flexible work arrangements has likely played a role in encouraging women to participate in the workforce; however, women still account for the majority of time spent in unpaid work.

In Canada, females devote 254 minutes per day to unpaid work compared to 160 minutes for males. Encouragingly, the gap between the two ( 94 minutes) was lower in Canada than the average across OECD countries (at 134 minutes), although was higher than some countriesnotably Denmark (57), Norway (49) and Sweden (53).

Exhibit 26: Females still spend more time in unpaid work


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[^0]:    Source: Statistics Canada, RBC Economics Research

[^1]:    Source: Statistics Canada, RBC Economics Research

[^2]:    Source: Statistics Canada, RBC Economics Research

[^3]:    * "Unlocking Female Employment Potential in Europe: Drivers and Benefits". IMF, March 2016.

[^4]:    Source: Global entrepreneurship monitor 2016/2017, Statista, RBC Economics Research

[^5]:    * "Gender differences in STEM programs at university". Statistics Canada, December 2013.
    ** "Women in Canada: Education, qualifications, skills and technology". Statistics Canada, July 2016.

[^6]:    Source: OECD, RBC Economics Research

