# Future of Work: How the Internet Economy is Reshaping Markets for Talents

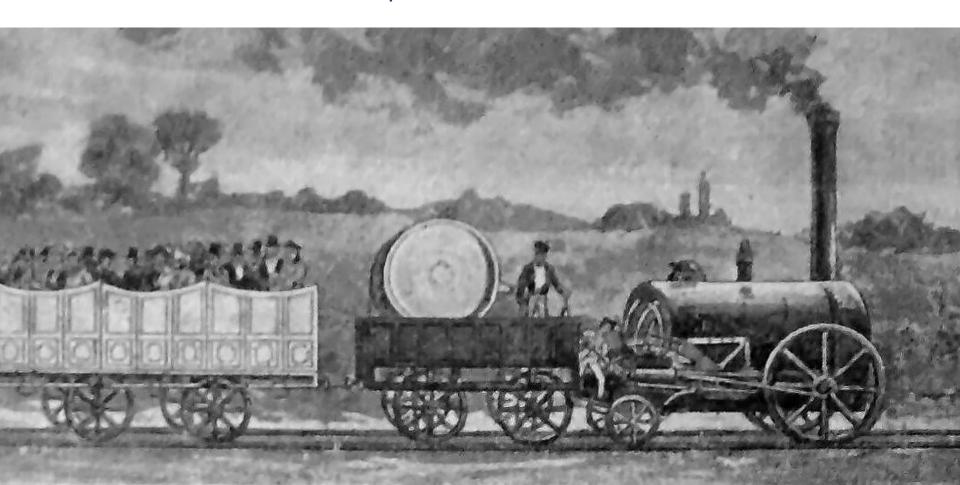
#### **Kevin Walker**

Senior Director, Field Marketing Indeed @kpwalk

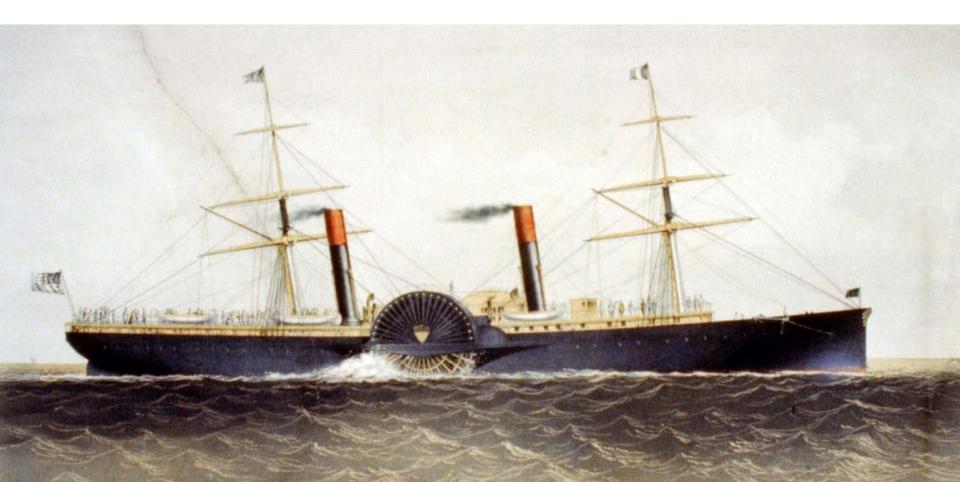
The greatest economic inflection points of the last

**200 years** were driven by technology

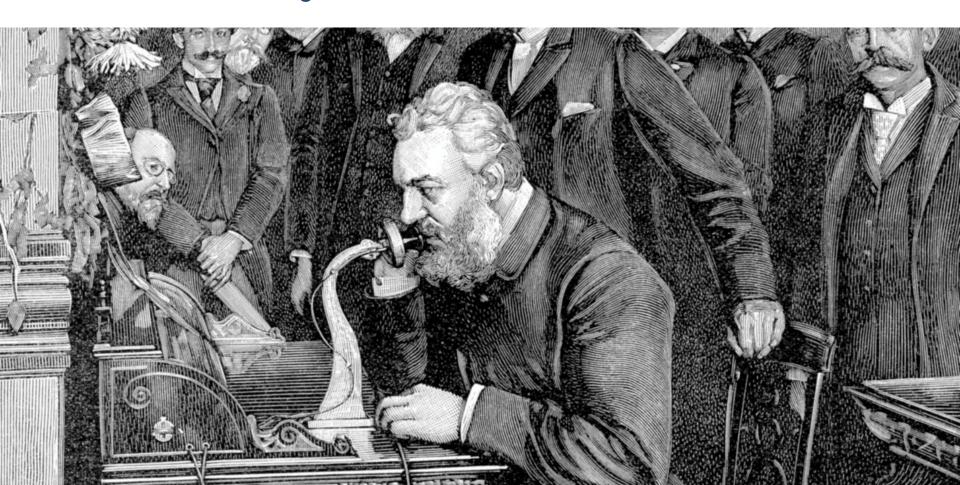
### 1830 – Liverpool & Manchester Railroad



### 1870 – Harland & Wolff Iron-Hulled Steam Ship, Belfast



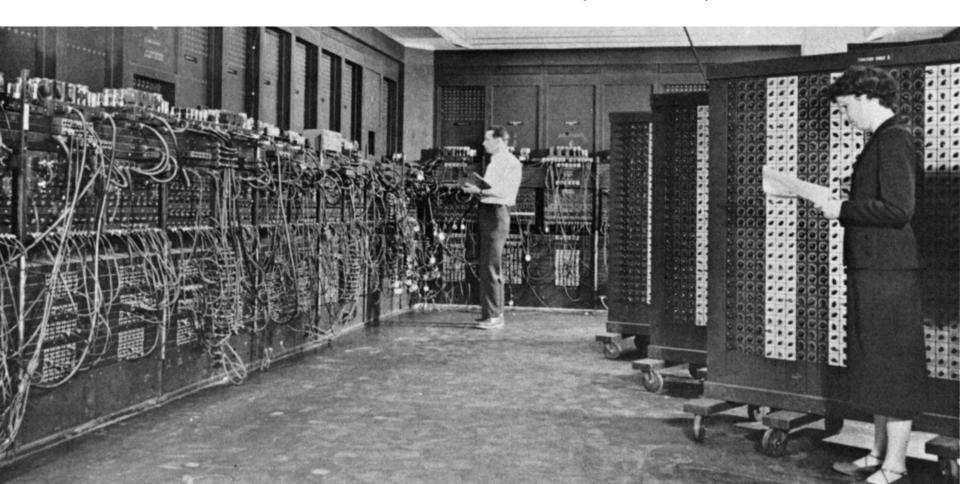
1876 – First Long-Distance Phone Call, Alexander Graham Bell



### 1914 – First Assembly Line, Ford



### 1946 – ENIAC, First General Purpose Computer



Each **economic** inflection point was a **labour** inflection point, too

### 3,000 LABORERS

On the 12th Division of the

#### ILLINOIS CENTRAL RAILROAD

Wages, \$1.25 per Day.

Fare, from New-York, only - - \$475

By Railroad and Steamboat, to the work in the

Constant employment for two years or more given. Good board can be obtained at two dollars per week.

This is a rare chance for persons to go West, being sure of permanent employment in a healthy climate, where land can be bought cheap, and for fertility is not surpassed in any part of the Union.

Men with families preferred.

For further information in regard to it. call at the Central Railroad Office,

#### 173 BROADWAY,

CORNER OF COURTLANDT ST.

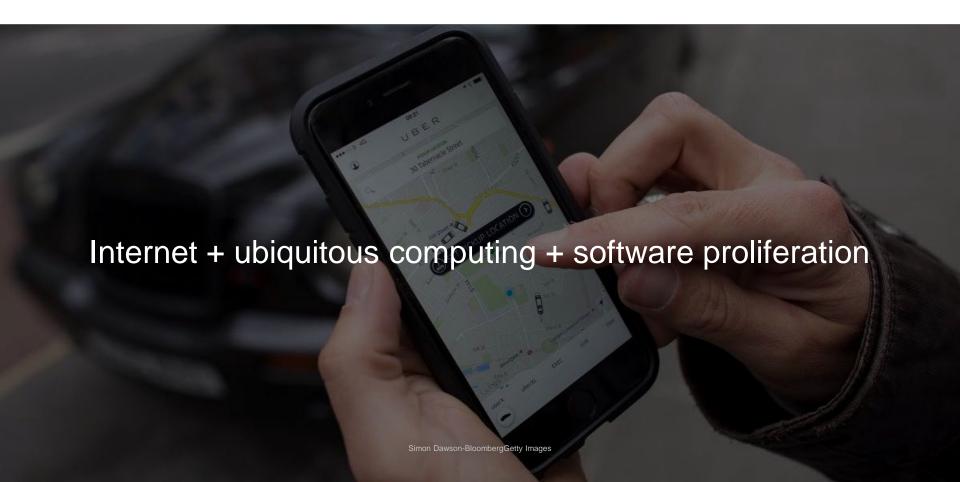
NEW-YORK.

R. B. MASON, Chief Engineer.

H. PHELPS, AGENT,

JULY, 18.

### Now: A new inflection point







In Canada and other industrialized nations, every company is becoming a tech company





4:20 PM

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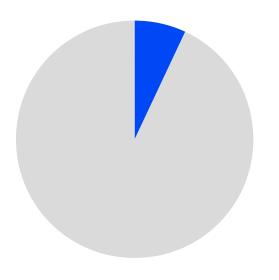
### Increasingly, software development is a core part

of every industry and a key driver of innovation

### Most **software developers** don't work in software firms

Software Products	23%
Web Services	9%
Finance / Banking	9%
Consulting	7%
nternet	7%
Media / Advertising	5%
Healthcare	5%
Education	4%
Telecommunications	4%
Other	
	9%

### In the U.S. it's even higher



Analysis of 1.5 million software developers and programmers found that only 7% work for software firms

- Work for software firms
- Do not work for software firms

# A lack of supply of technical talent will slow economic growth

# In Canada, tech job postings are much harder to fill than the average role

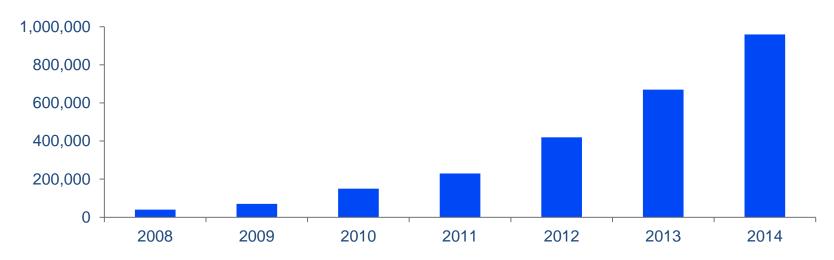
Rank	Detailed occupation	Share of jobs still open after 90 days
1	software engineer	21.9%
2	senior software engineer	21.6%
3	mobile developer	21.4%
4	web developer	19.5%
5	back end developer	19.4%
6	user interface designer	19.1%
7	android developer	19.1%
8	application developer	18.1%
9	it security specialist	18.0%
10	software developer	17.9%

2

Specialized software is leading to a highly specialized workforce

### Maitre'd Morgan's Hotel Group ★★★★★ 21 reviews - New York, NY Job Purpose: Responsible for ensuring that all guests have an Engaging, Dynamic Experience. The Maitre'd will drive the Morgans Hotel Group vision by... 11 days ago - save job - email - more... Responsible for ensuring that all guests have an Engaging, Dynamic Experience. The Maitre'd will drive the Morgans Hotel Group vision by culturing and crafting a specific flow and energy to our Lobby bar and Lounge with each greeting, seating, and farewell. Job Requirements Include: - Take ownership of the room - Be fabulous, be present, be friendly, and be there for the staff - Take ownership of the staff Knowledge of Oracle MICROS required Knowledge of OpenTable and 7 Rooms preferred

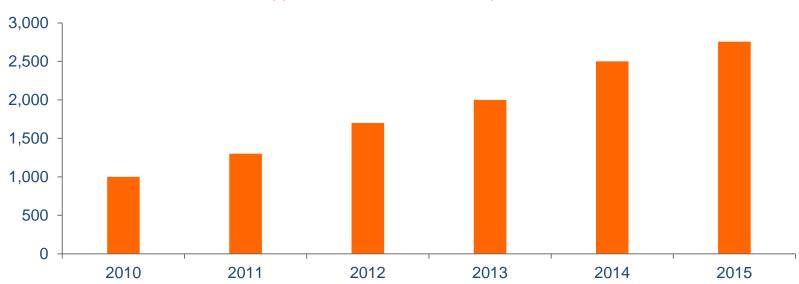
### Software is defining almost every activity, company and industry



Number of applications in the Apple App Store (excluding games) 2008-2014 has grown **24x** in 6 years

### Enterprise software is also proliferating quickly





### Industry and role-specific software experience is increasingly a requirement of the job

### Some companies need marketers with expertise in Marketo

### Field Marketing Manager

**Location: Toronto** 



#### **Required Skills:**

Demonstrable experience of working in a metrics oriented marketing environment, comfortable with analytics, metrics and KPIs as well as experience of working with automation tools such as Marketo, SFDC or similar tools.

### Some manufacturing roles require Oracle experience

#### Electro Mechanical Assembler

Location: Calgary, Alberta



#### **Essential Functions:**

Resolve availability of standard material, fabrication parts and shortages of material issues using Oracle effectively.

Java developer, PHP Developer, Web Developer, Software Developer, .Net Developer, Senior Java Developer, Front End Developer, Developer, Sharepoint Developer, UI Developer, Senior .Net Developer, Application Developer, C# Developer, Senior PHP Developer, Senior Software Developer, Python Developer, Senior Developer, C++ Developer, Front-End Developer, SQL Developer, Ruby On Rails Developer, Dot Net Developer, JavaScript Developer, ASP.Net Developer, Senior Web Developer,

### Software development roles are also increasingly specialized

Mobile Developer, Front End Web Developer, PHP Web developer, Sr. JAVA Developer, ETL Developer, Salesforce Developer, Drupal Developer, Mobile Application Developer, Wordpress Developer, Oracle Developer, Business Developer, NET Developer, Database Developer, Business Intelligence Developer, Web Application Developer, Frontend Developer, BI Developer, Junior Java Developer, Junior Developer, Java/J2EE Developer, C# .Net Developer, Sr. PHP Developer, Software Developer 3

As a result, work is becoming highly specialized.



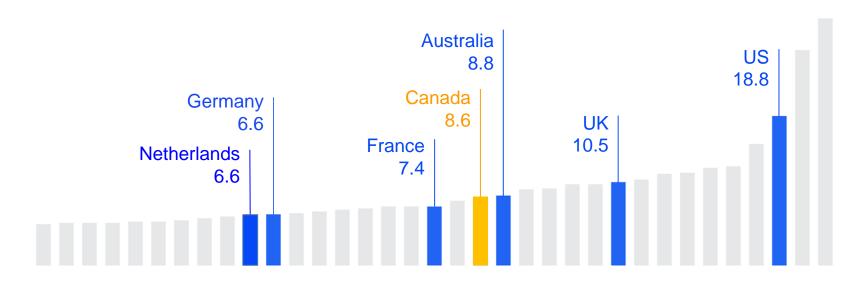
unique job titles are on Indeed in a single day in Canada



Today's labour market is becoming two separate markets: one for high-skilled workers and one for everyone else

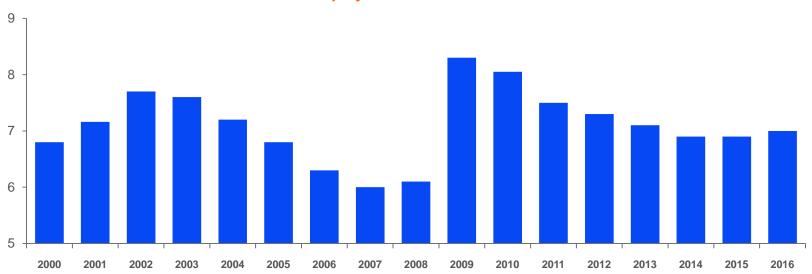
# Inequality is deepening in many countries, and Canada is no exception.

In Canada, the top 10% of earners make 8.6X the bottom 10% earners, compared to 18.8X in the US



# For many Canadians, returning to the job market remains difficult

**Unemployment rate in Canada** 

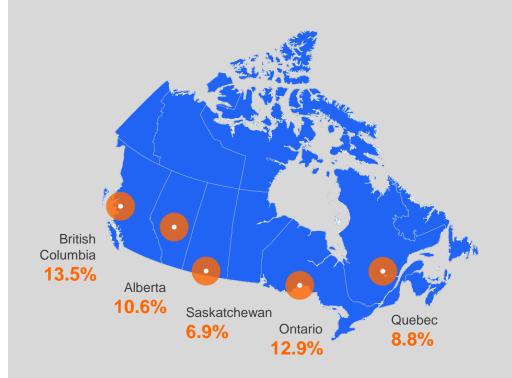


### But highly skilled roles are getting harder to fill

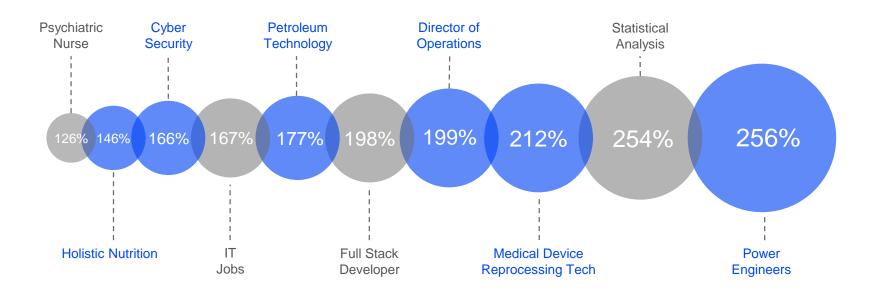
Today, 11.5% of Canadian jobs remain unfilled after 3 months

There are more chronically unfilled vacancies in British Columbia (13.5%) than other parts of the country

Saskatchewan has a much smaller share (6.9%)



# Canadian job seekers are responding to changing labour market dynamics with increased interest in high-demand positions



### Today, people from a wide variety of fields are successfully entering tech

**48%** 

Of developers never received a degree in Computer Science

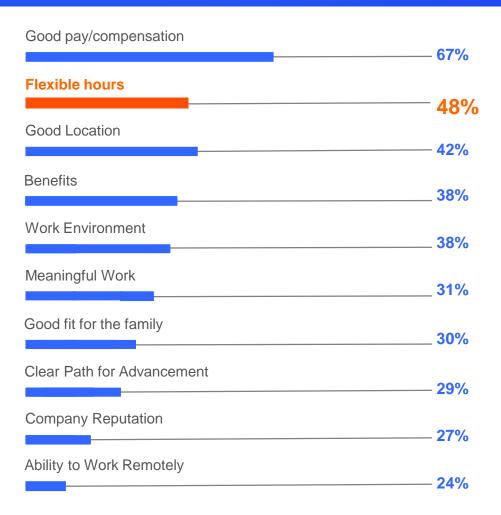
33%

Of developers never took a Computer Science university course



Full-time jobs are being replaced by more flexible alternatives

After pay, **flexibility** is the most important requirement when choosing a job for Canadians.

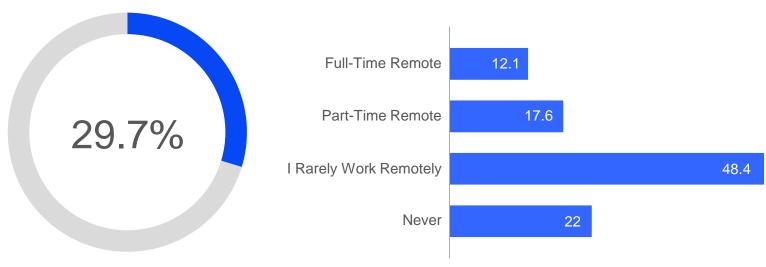


## In Canada, searches for flexible and casual work have grown by 31%

Searches for flexible, telecommute or work from home per 10k searches (2014-2017)



## Even candidates in highly specialized roles are increasingly working remotely

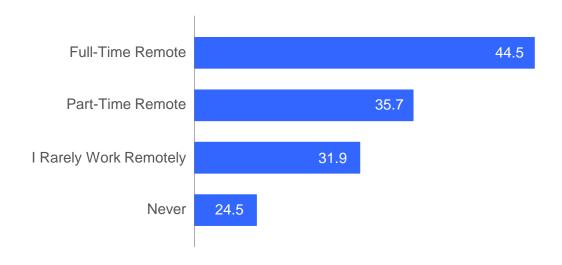


Of software developers work remotely at least part-time, **up 2.4%** from last year

# Nearly half of full-time remote workers love their job, while less than ¼ of the never remote workers can say the

#### same

% of developers who say they love their job

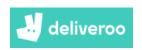


## Around the world, there is a proliferation of new companies providing app-driven, on-demand work









































#### This is the beginning of an emerging model of commoditized, marketplace-driven "fractional work"

Reliable employment		
	High degree of flexibility	
	Work in small blocks of time	
	Work for multiple marketplaces	

Ideal for people who need to earn money and do something else

In San Francisco, the center of the new on-demand economy, these companies are in an increasing share of the labour market

2014 0.57% 2015 1.13%

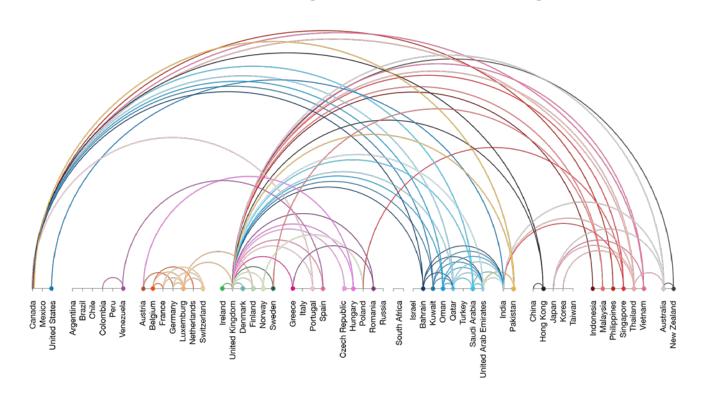


High-skilled labour is a national resource that is increasingly mobile

In 2015,

of people around the world are actively looking for jobs abroad

### Culture, policy, religion, language, colonial history, and economics determine global labour migration paths



#### The dynamics of international labour migration in 2016

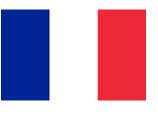
Top countries most interested in working in Canada



1. United States



2. United Kingdom



3. France

## 1 out of **19 Canadian** job seekers looks at opportunities outside of the country



**5.4%** of job seekers in Canada are searching for jobs **outside of Canada** 

This is a relatively low number:

Oman is at the top at 62% and

Japan is at the bottom at 1%

#### The dynamics of international labour migration in 2016

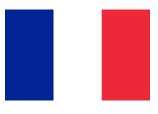
**Top countries Canadians are most interested in** 



1. United States



2. United Kingdom



3. France

#### Why do people migrate?

#### Top reasons for considering a foreign work assignment

Broaden personal experience	65%
Acquire work experience	65%
Better career opportunities	59%
An overall attractive job offer	58%
mproved salary prospects	56%
Better standard of living	55%
Ability to live in a different culture	54%
or the challenge	53%
∟earn a new language	47%
Meet people/build new networks	45%

# The challenge for Canada is to <u>attract</u> new talent to the country while <u>retaining</u> the existing base of skilled labour



Where talent migrates, so will the smartest companies







#### Highly educated people are increasingly concentrated in a few urban hubs



**7.3 billion people** in the world today



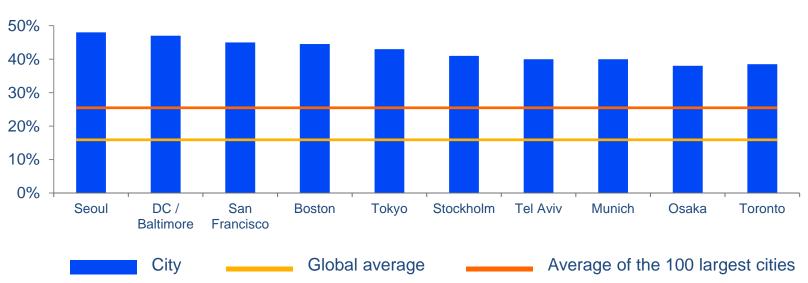
708 million people with higher education

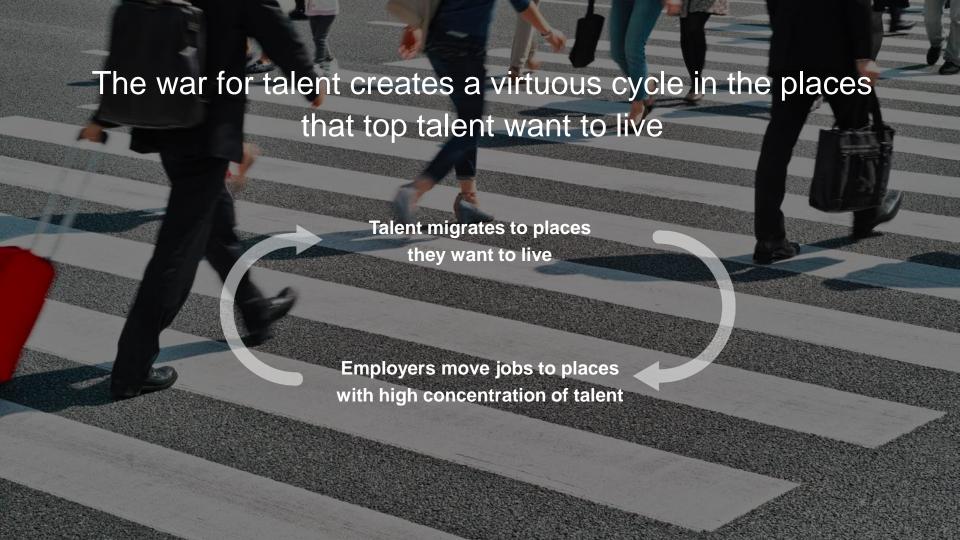


24% of the world's educated population lives in just 100 cities

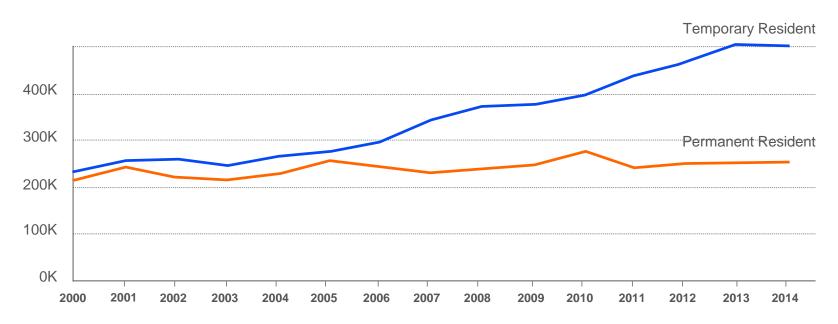
# One quarter of the world's educated population resides in just 100 cities that represent just 11% of the world population

Share of population aged 15+ years with higher education in 2013





## In 2014, 500K temporary residents and 250K permanent residents arrived in Canada



#### Canada is the 10<sup>th</sup> largest economy but the #3 destination for talent

#### Country's rank as a potential work destination

(% of respondents willing to move there)



U.S. 42%



France 29%



UK 37%



Australia 28%



Canada 35%



Spain 26%



Germany 33%



Italy 25%



Switzerland 29%

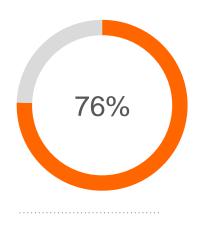


Sweden 23%

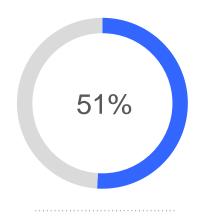


The Internet is changing the way job seekers respond to labour market trends

#### The Internet has made Canadian job seekers more active than ever before

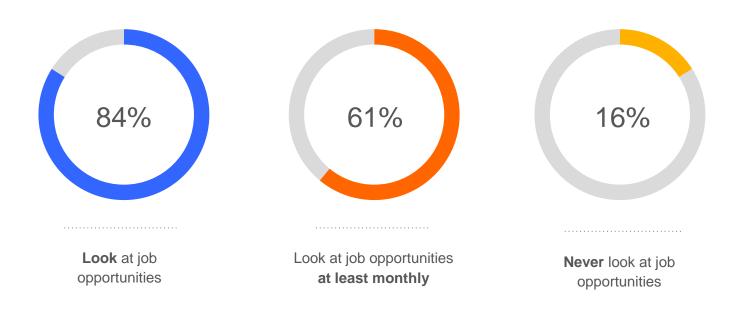


It turns out that **76%** of people say that they are either actively looking or open to a new job

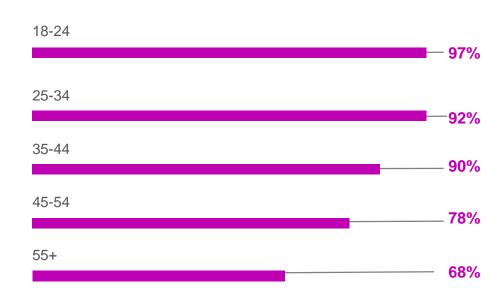


**51%** of people hired in the past year used an online job site or online job board

#### An even greater percentage say they actively look at job opportunities



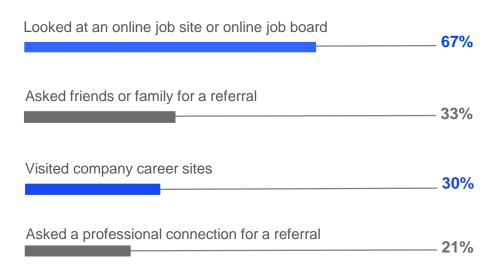
Canadians who most actively look at job opportunities are between 18-24 years old



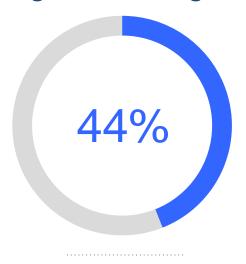
### In Canada, the large majority of people take an action to find a job 6 months prior to being hired

96%

of employed adults hired within the past year took an action to find a job 6 months prior to being hired



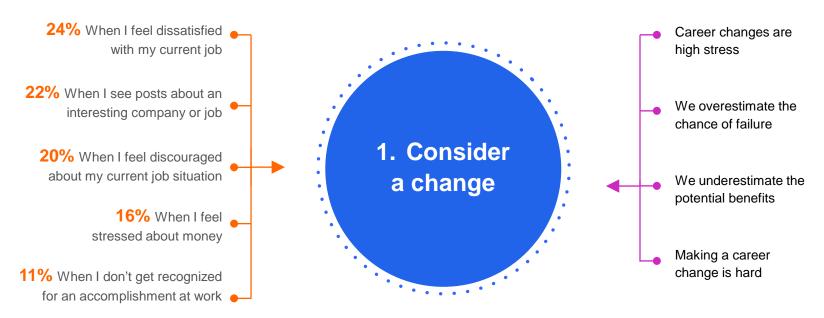
## A large percentage of Canadians have job alerts that bring new listings to them



Workers/job seekers subscribe to job alerts



## People look for jobs when they are inspired by new opportunities or disillusioned with their current work



Candidates believe it's important to direct their own job search

**78**%

#### somewhat or strongly agree

"When deciding whether or not to accept a job offer, it's important to me that I've looked around at other opportunities first." **53**%

#### of employed adults

"I think I would be more successful in a job I found and got on my own versus a job which I got through a recruiter or company that contacted me."

#### The 7 Trends Reshaping Markets for Talent

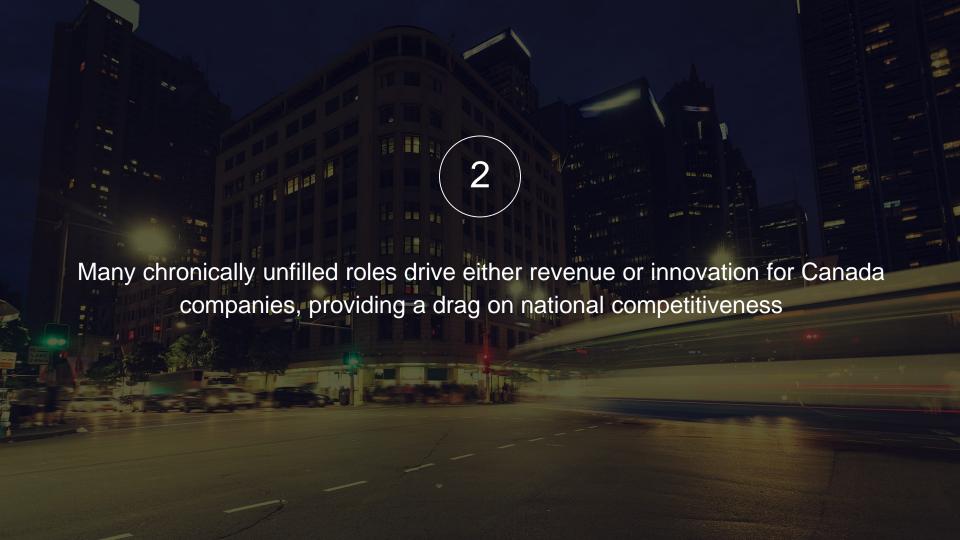
- 1 Every company is becoming a tech company
- 2 Specialized software is leading to a specialized workforce
- The bifurcation of labour markets based on skill
- Full-time jobs being replaced by more flexible alternatives
- 5 Labour is a national asset that is increasingly mobile
- 6 Smart companies are following talent around the world
- 7 The Internet is changing the way people look for jobs

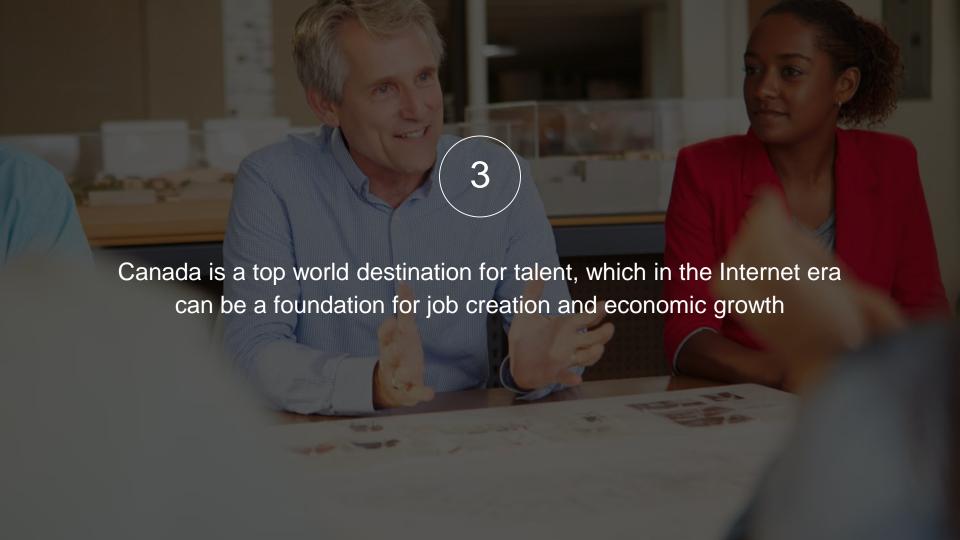
So where do we go from here?

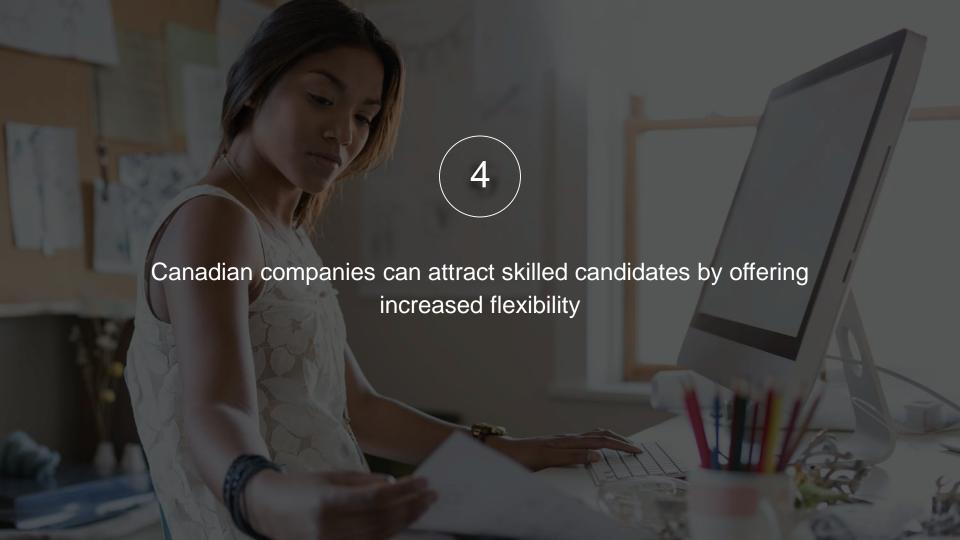


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The skills shortage is permanent and will require education, policy and immigration changes to keep up with growing employer demand







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