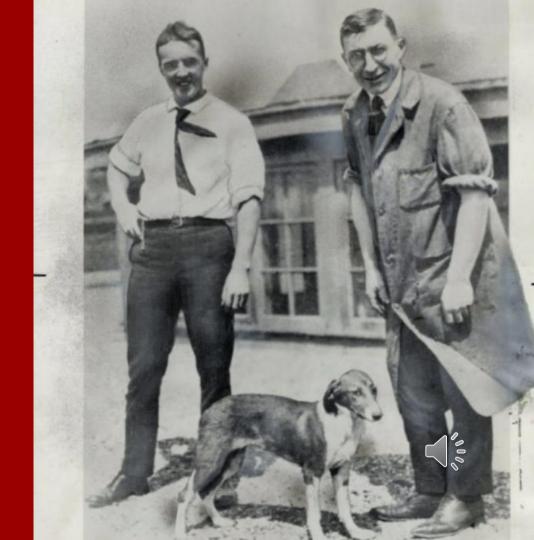


# A History of Innovation



Canada's Global Innovation Score

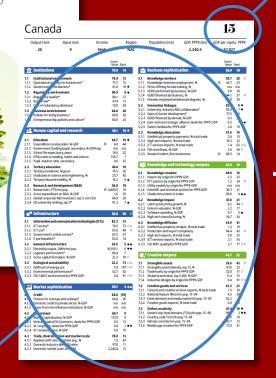


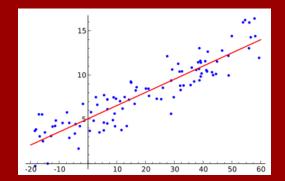
#### Global Innovation Index 2023

Innovation in the face of uncertainty

## Machine Learning Models

Target Variable

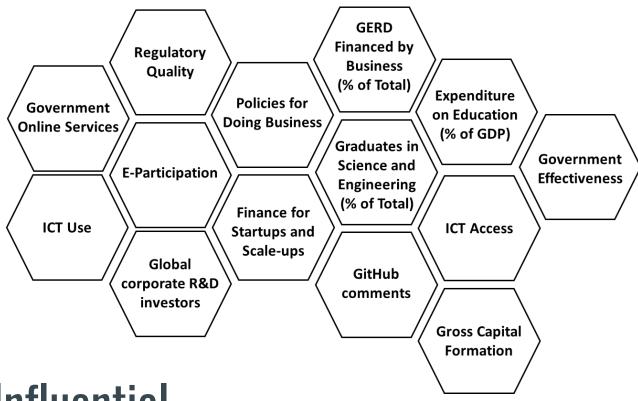




Correlation Matrix Random Forest Linear Regression

Feature importance

**Features** 



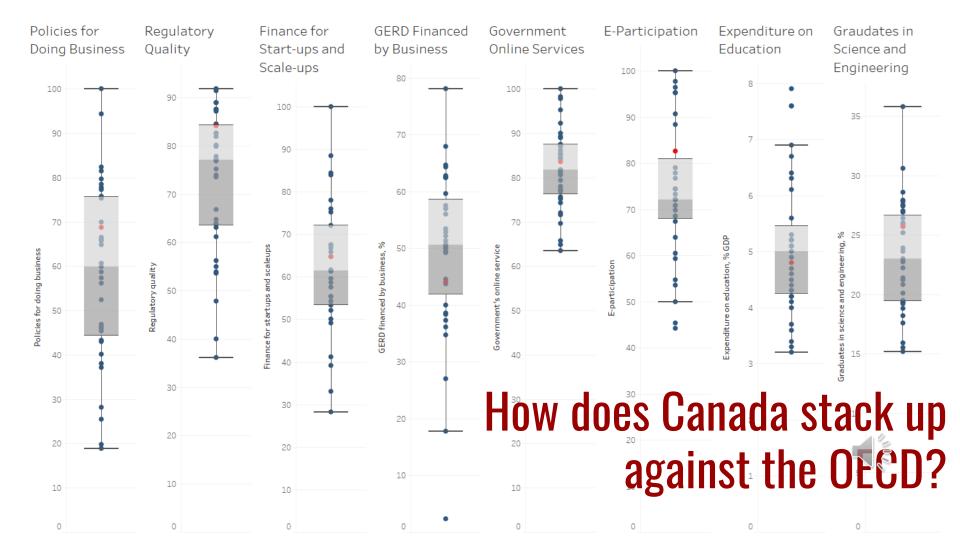
Highly Influential Indices to Innovation



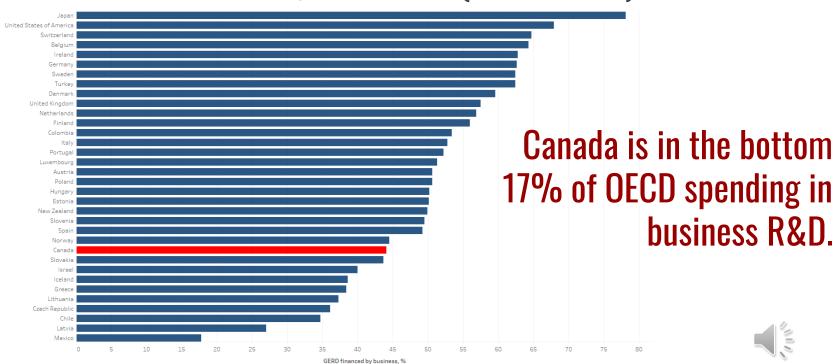


Highly Influential Indices to Innovation

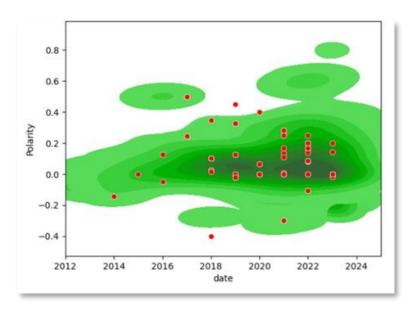
Output Indicators

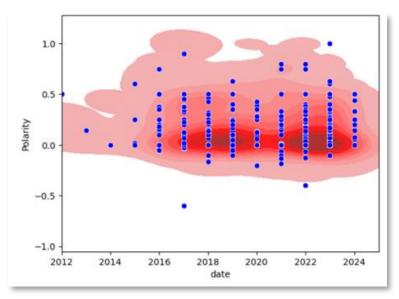


## **GERD Financed by Business (% of Total)**



#### Sentimental analysis for news across 8 rich-world countries





"Business R&D"

"Education in STEM"

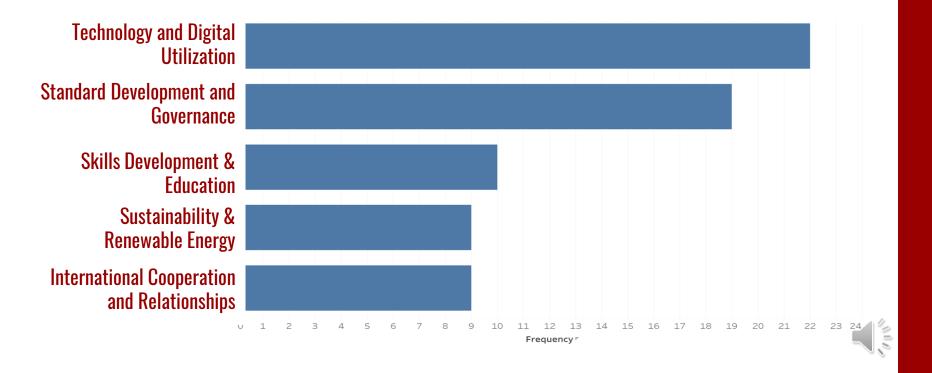


### **International Innovation Strategies**

- Advancing cybersecurity for small businesses and charities
- Focusing on ESG marketplaces for **sustainable investments**
- Developing smart **sustainable cities** for efficiency and sustainability
- Harnessing renewable energy from various sources
- Exploring **social robots** and AI for social services
- Utilizing technology for mental health care
- Increase connectivity and interdependence
- Transition to a **low-carbon**, resource-efficient economy
- Communicate the value-add of R&I to the public
- Planning of national data centers



### **International Innovation Strategies**



## What is Canada's current innovation

policy?



#### Characterized by a focus on:

- Education in digital technology and coding
- Work placements & internships for youth
- Expanding ethnic diversity and eliminating gender gaps

#### **Financial Interventions:**

- \$4B investment in R&D
- \$2.3B investment in cleantech
- \$1.2B allocated to late-stage growth firms
- \$2B allocated to expanding opportunities for enterprising women



Canada should eliminate unnecessary regulatory complexity which stifles business.





Canada should finance the development of clean-tech and rollout of renewable power.



Canada should invest in educating the next generation in sustainability, circular economy, and clean energy.



Required increase in input indicators to put Canada into top 5 globally.

## Thank you!

