



**Clinical  
Trials  
Ontario**

**Capturing Ontario's Life Sciences  
Opportunity**

*Nov. 2023*



# START

HOW GREAT LEADERS INSPIRE  
EVERYONE TO TAKE ACTION

# WITH

SIMON SINEK

*New York Times* bestselling author of *Leaders Eat Last* and *Together Is Better*

# WHY

MORE THAN  
ONE MILLION  
COPIES SOLD



**I Believe Life Sciences is Canada's Greatest  
Untapped Opportunity to Help People**

# The Life Sciences Opportunity

What are we missing out on if we fail to accelerate our life sciences companies?



Combined market  
capitalization of US \$317.3B

Oct. 2023



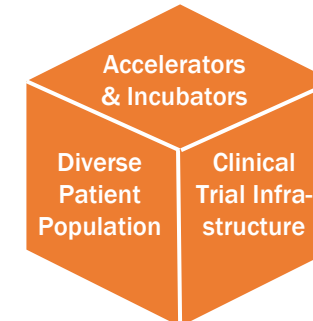
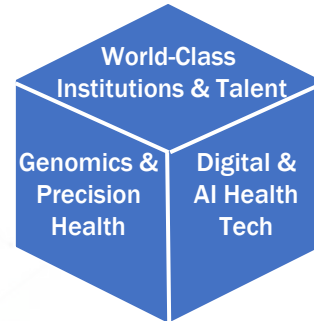
The entire Canadian Oil & Gas Sector  
is US \$290.3B

(134 companies listed on the TSX/TSXV)  
Sept. 2023

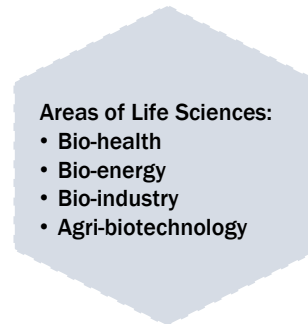
# Foundational strengths in Ontario's life sciences sector



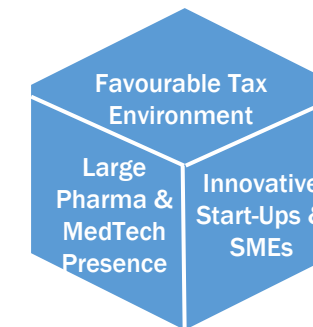
**RESEARCH &  
DISCOVERY**



**TRANSLATION &  
COMMERCIALIZATION**



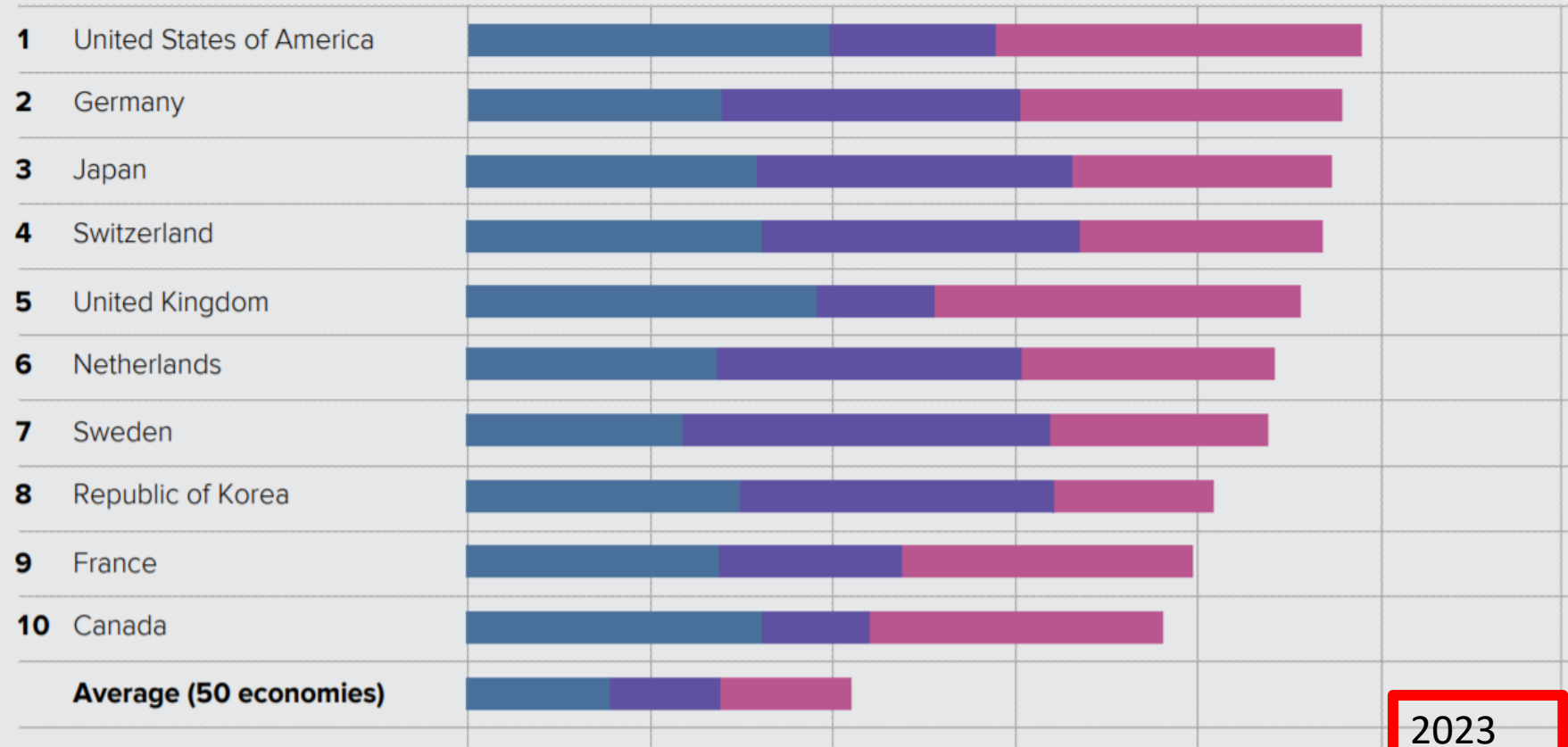
**ACCESS &  
ADOPTION**



**INDUSTRIALIZATION  
& SCALE-UP**

# Metrics for quality of innovation: top 10 high- and middle-income economies, 2019

## High-income economies



► Sum of scores

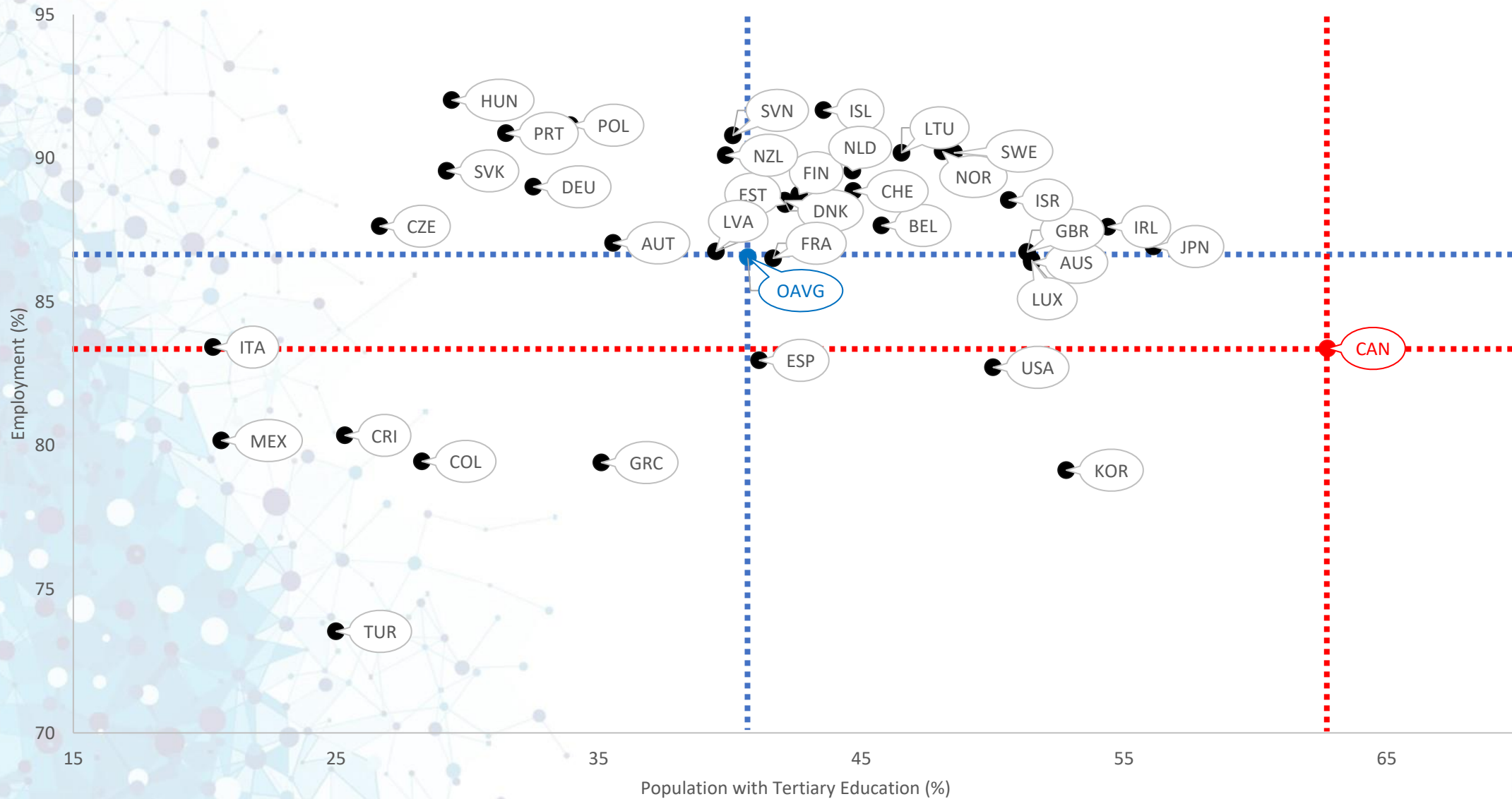
- 2.3.4: QS university ranking average score of top 3 universities
- 5.2.5: Patent families filed in two or more offices
- 6.1.5: Citable documents H-index

2023  
7<sup>th</sup> (●)  
19<sup>th</sup>  
4<sup>th</sup> (●)

Source: Global Innovation Index Database, Cornell, INSEAD, and WIPO, 2019.

Notes: Numbers to the left of the economy name are the innovation quality rank. Economies are classified by income according to the World Bank Income Group Classification (July 2018). Upper- and lower middle-income categories are grouped together as middle-income economies.

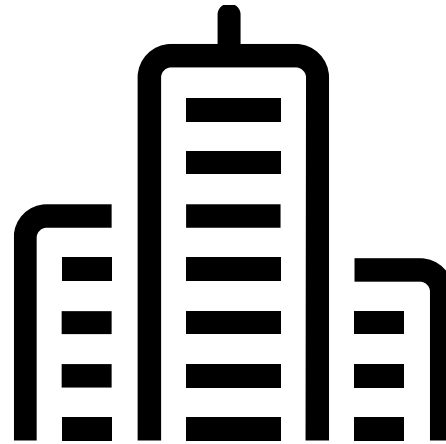
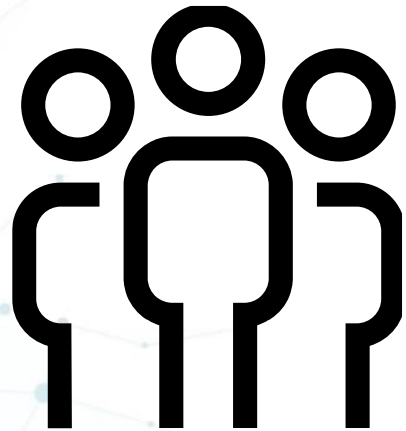
# Well-educated but Under-employed



Source: OECD Data, 2022

“We have all the ingredients but lack a recipe”

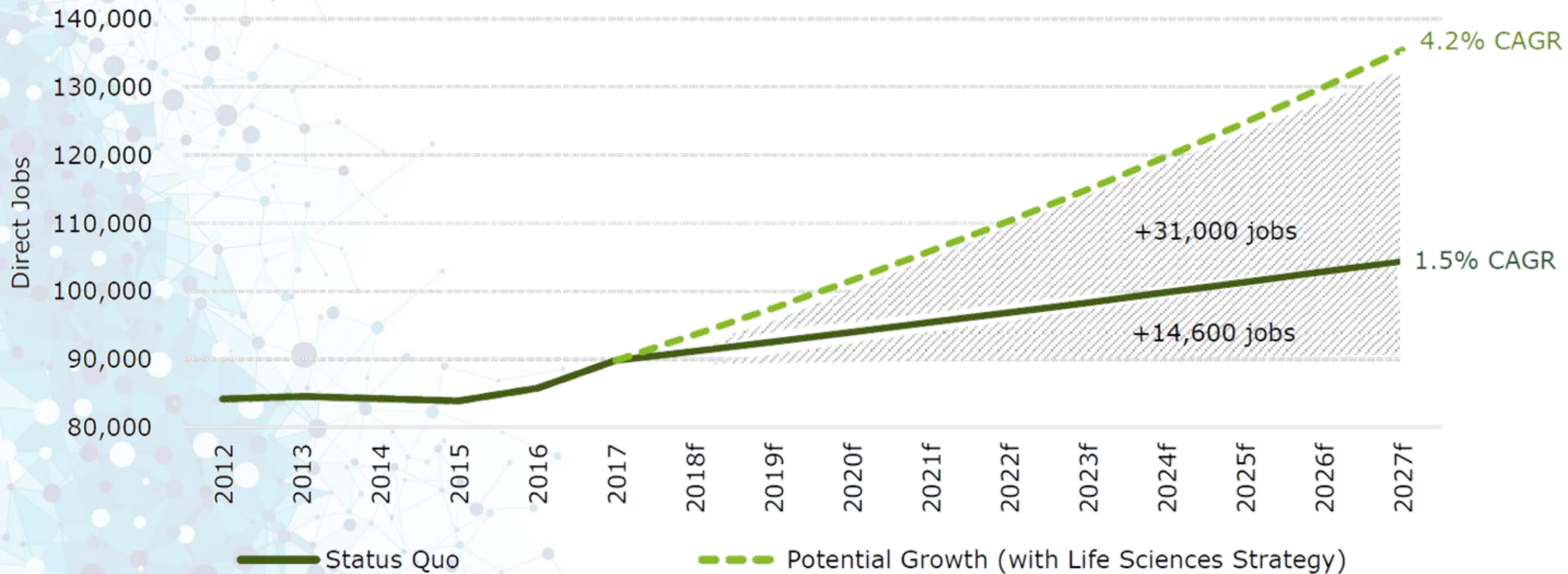
-Kevin Lynch, Vice-Chair, BMO, 2013



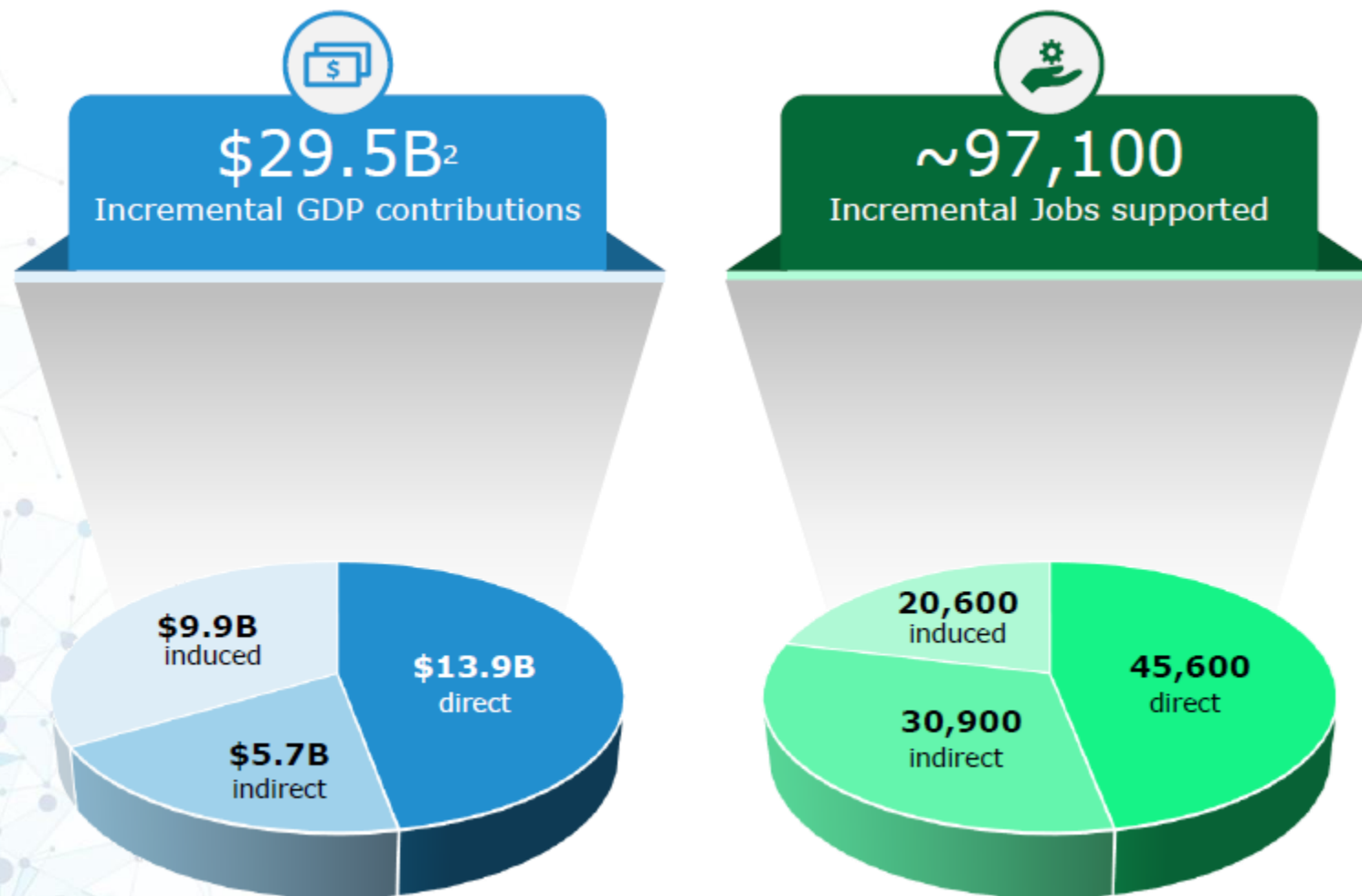
so where is our  
**Blackberry**  
of biotech?



# ROI of a Life Sciences Strategy



# ROI of a Life Sciences Strategy



# Recipes

- Department of Supply and Services Canada (1981 ). Task Force on Biotechnology: *A Development Plan for Canada* (1981 ). DSS ST31-9 | 1981 E.
- *Integrated Strategy for the British Columbia's Technology Cluster White Paper*, PWC. 2003
- *Investing in the Life Sciences Sector: A Proposed Strategy for Innovation in Ontario*, Biotechnology Council of Ontario. 2006
- *Mobilizing Science and Technology to Canada's Advantage*, 2007
- *An Action Plan for Prosperity*, John Manley and Paul Lucas. 2010
- *Innovation Canada: A Call to Action*, Tom Jenkins. 2011
- *INVESTING IN CANADA'S FUTURE Strengthening the Foundations of Canadian Research*, David Naylor, 2017
- *Blueprint for a Coordinated Ontario Life Sciences Strategy*, LSO. 2017
- *Report from Canada's Economic Strategy Tables: Health and Biosciences*. 2018
- *Leading the Way Toward Recovery, Resilience and Prosperity: Roadmap for an Integrated Life Sciences Ecosystem in Ontario*, LSO, 2021

- Announced July 2021

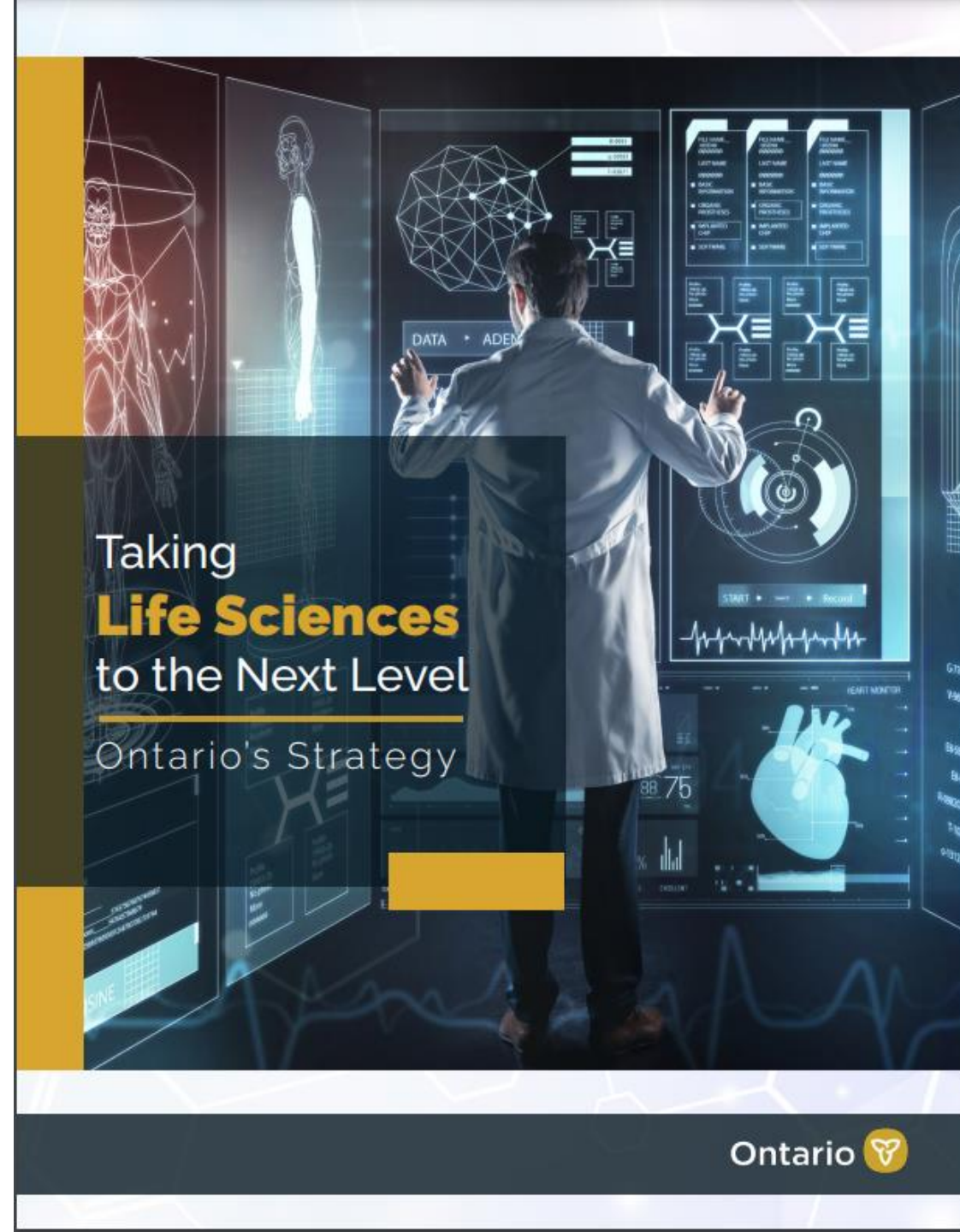
## **5 Pillars:**

1. Strong and Coordinated Governance
2. Laying a Solid Foundation by Strengthening Research Systems and the Talent Pipeline
3. Growing Businesses by Doubling Down on Existing and Emerging Areas of Strength
4. Building Public Capacity
5. Enabling Innovation by Ensuring World Class Regulation




**Canada's Biomanufacturing  
and Life Sciences Strategy**

- Announced Mar. 31, 2022
- Grow Ontario's biomanufacturing footprint
- Build domestic resiliency in PPE and critical medical supplies
- Boost commercialization capacity of Ontario companies and startups –
- Adopt Ontario innovation to improve healthcare
- It will also establish a forward-looking **life sciences council** that will focus on long-term growth and competitiveness



Taking  
**Life Sciences**  
to the Next Level  
Ontario's Strategy

Ontario 



<https://www.ontario.ca/page/taking-life-sciences-next-level-ontarios-strategy>

# Life Sciences Council

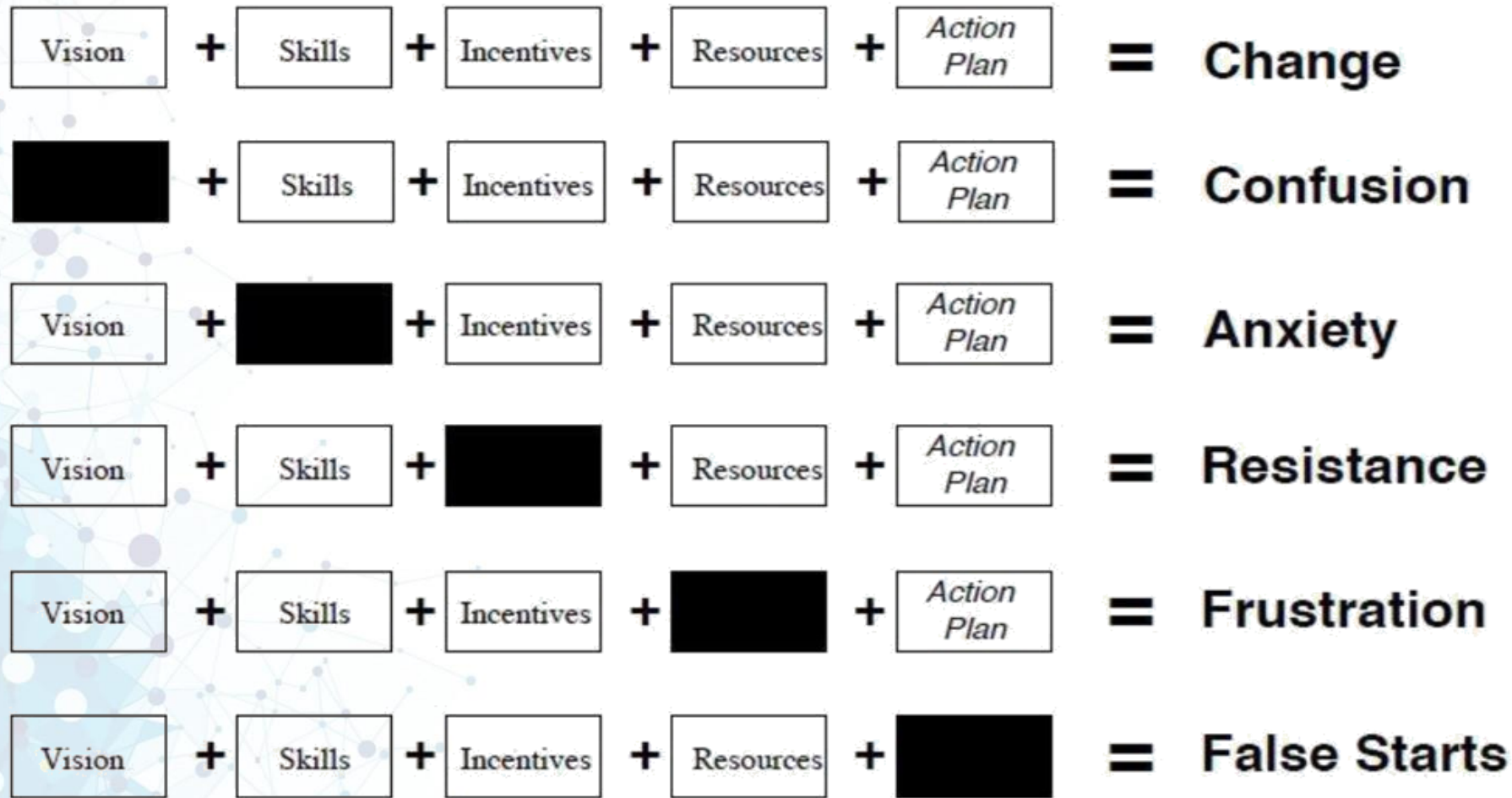
- **Strategic Growth and Investment:** (May 16, 2023)
- **Sustaining and Unlocking Capital:** (June 2, 2023)
- **Building Pathways to Adoption:** (June 22, 2023)
- **Research and Commercialization:** (July 14, 2023)
- **Talent Development:** (August 18, 2023)
- **Leveraging Data:** (September 14, 2023)

“We have all the ingredients and multiple recipes.  
Now it’s time to get cooking!”

-Jason Field, 2021



# Managing Complex Change



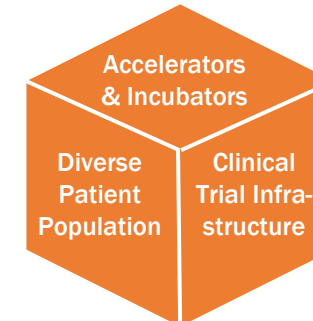
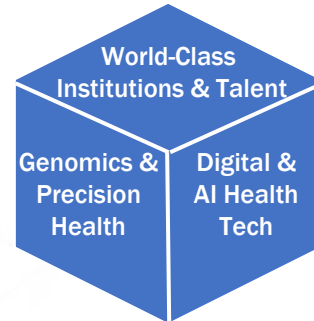
*Adapted from Knoster, T., Villa R., & Thousand, J. (2000). A framework for thinking about systems change. In R. villa & J. Thousand (Eds.), Restructuring for caring and effective education: Piecing the puzzle together (pp. 93-128). Baltimore: Paul H. Brookes Publishing Co.*



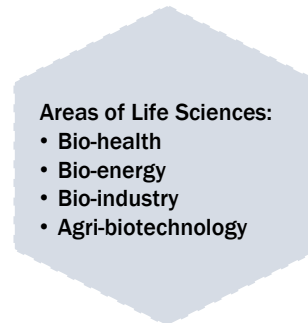
# Foundational strengths in Ontario's life sciences sector powered our response



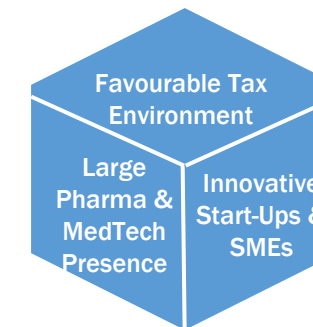
**RESEARCH &  
DISCOVERY**



**TRANSLATION &  
COMMERCIALIZATION**

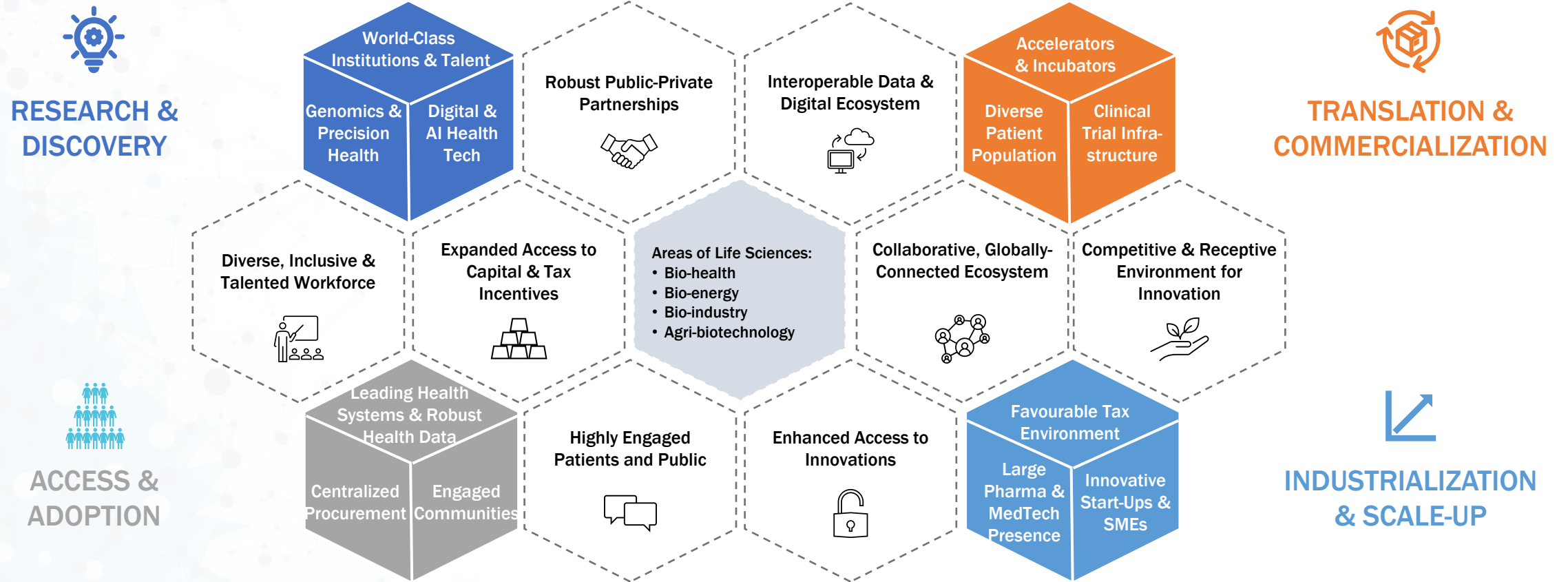


**ACCESS &  
ADOPTION**



**INDUSTRIALIZATION  
& SCALE-UP**

# Imagine if we had...



# Contact

[jason.field@lifesciencesontario.ca](mailto:jason.field@lifesciencesontario.ca)

[www.lifesciencesontario.ca](http://www.lifesciencesontario.ca)

**X** [@LifeSciencesON](#)