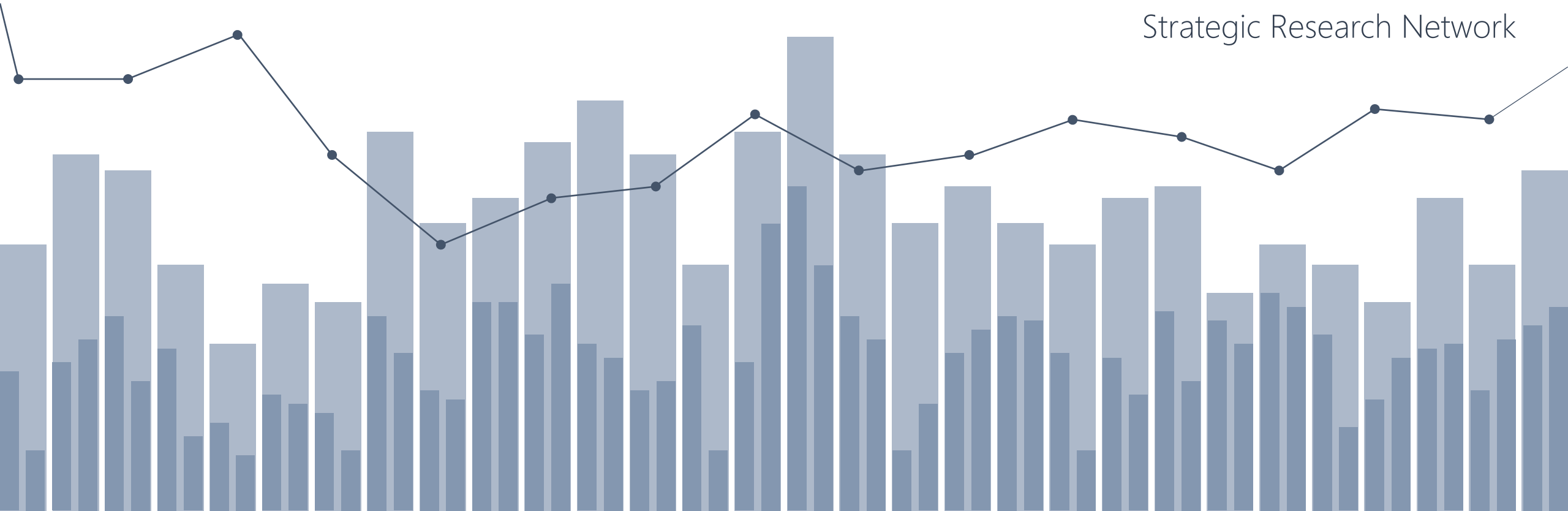




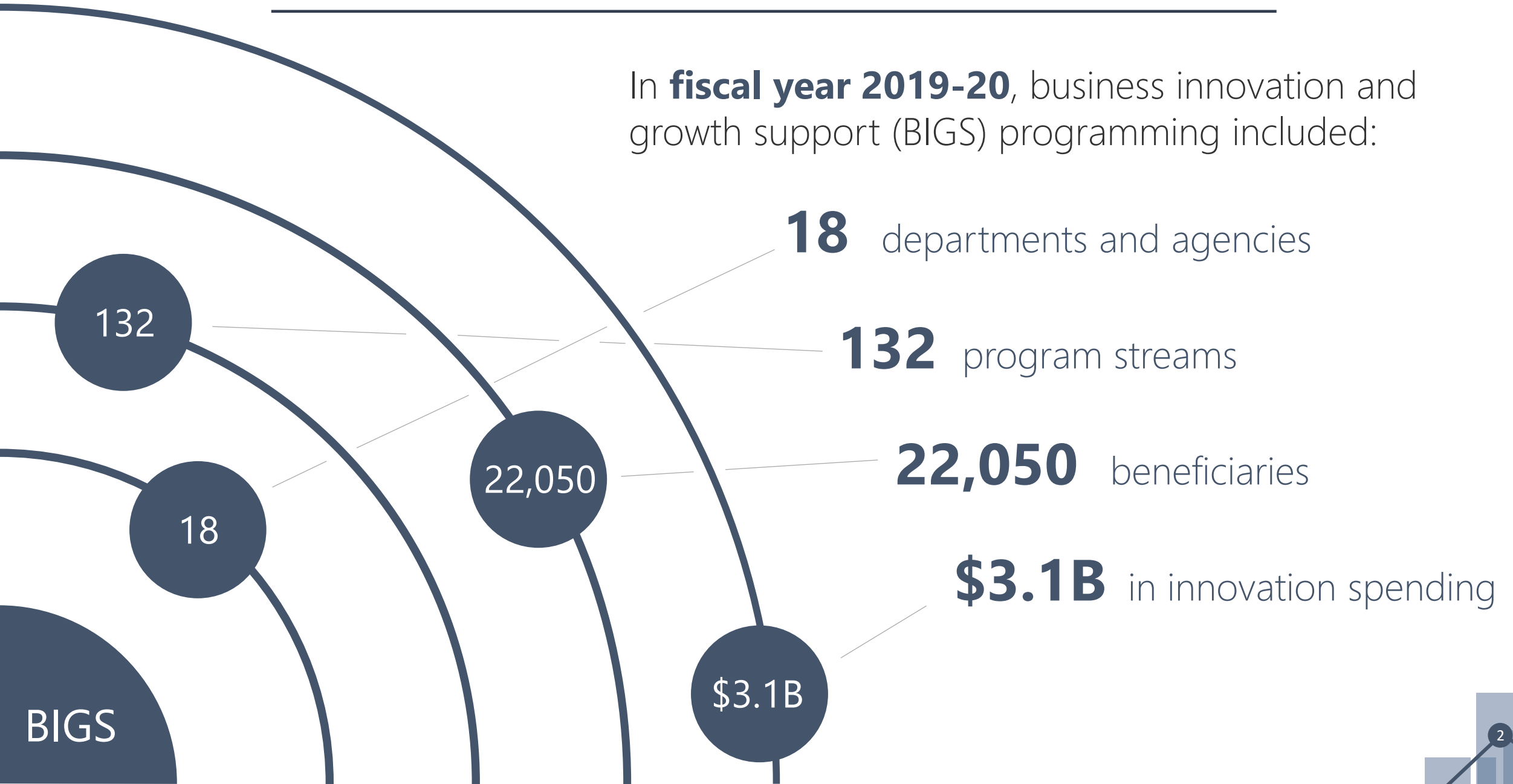
Analytical Results from BIGS 2019-20 Data

Data Science, Research and Development Unit
Strategic Research Network



The BIGS Universe

In **fiscal year 2019-20**, business innovation and growth support (BIGS) programming included:



18 departments and agencies

132 program streams

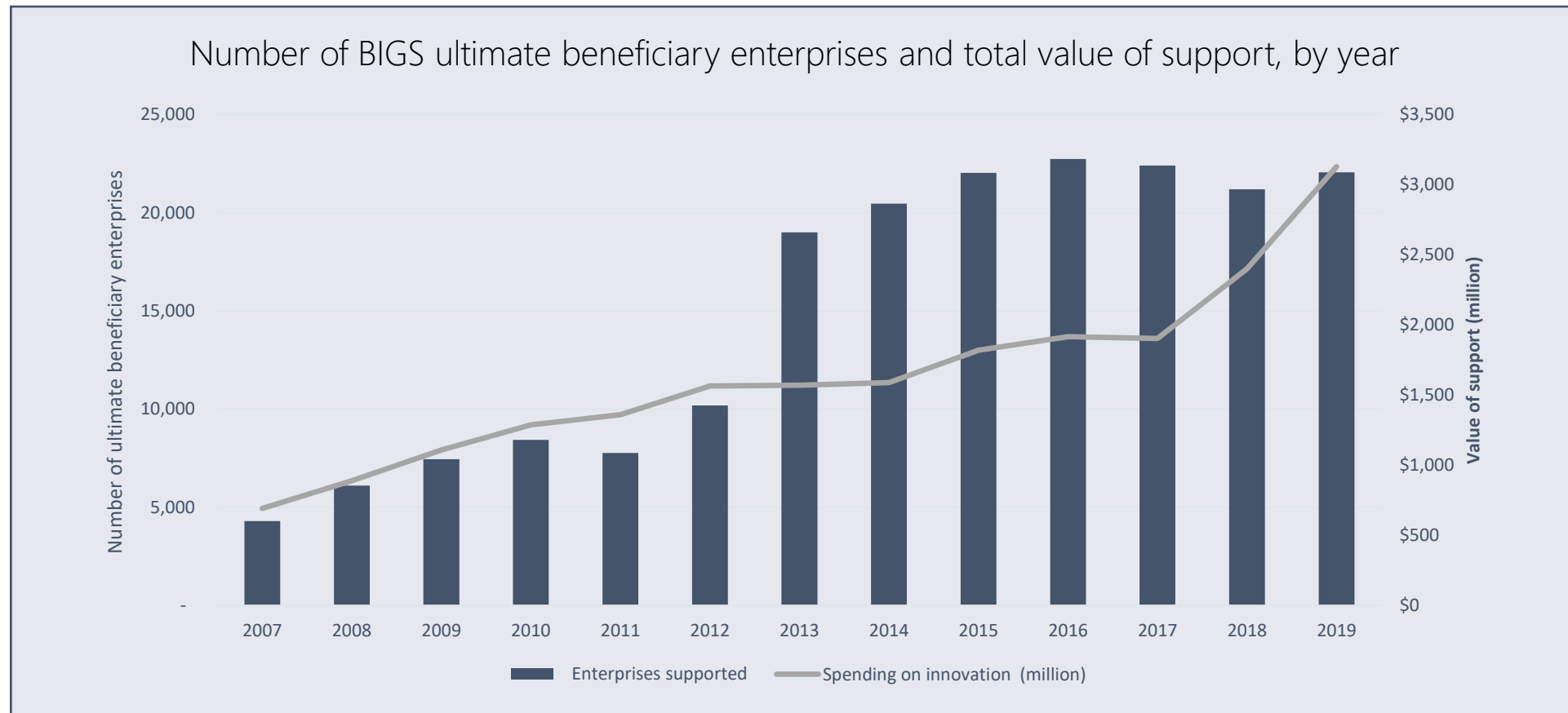
22,050 beneficiaries

\$3.1B in innovation spending

BIGS

Scope

The **scope** of BIGS programming (number of beneficiaries and value of support) has been **steadily rising** year over year since 2007:



Key 2019-20 BIGS Program Data Results - Beneficiaries



95% of beneficiaries were **small and medium-sized enterprises**



89% of beneficiaries were **for-profit firms**



66% of beneficiaries received **advisory services**



52% of beneficiaries were in the **manufacturing** and **professional, scientific and technical services** sectors



27% of beneficiaries received support from **multiple program streams**

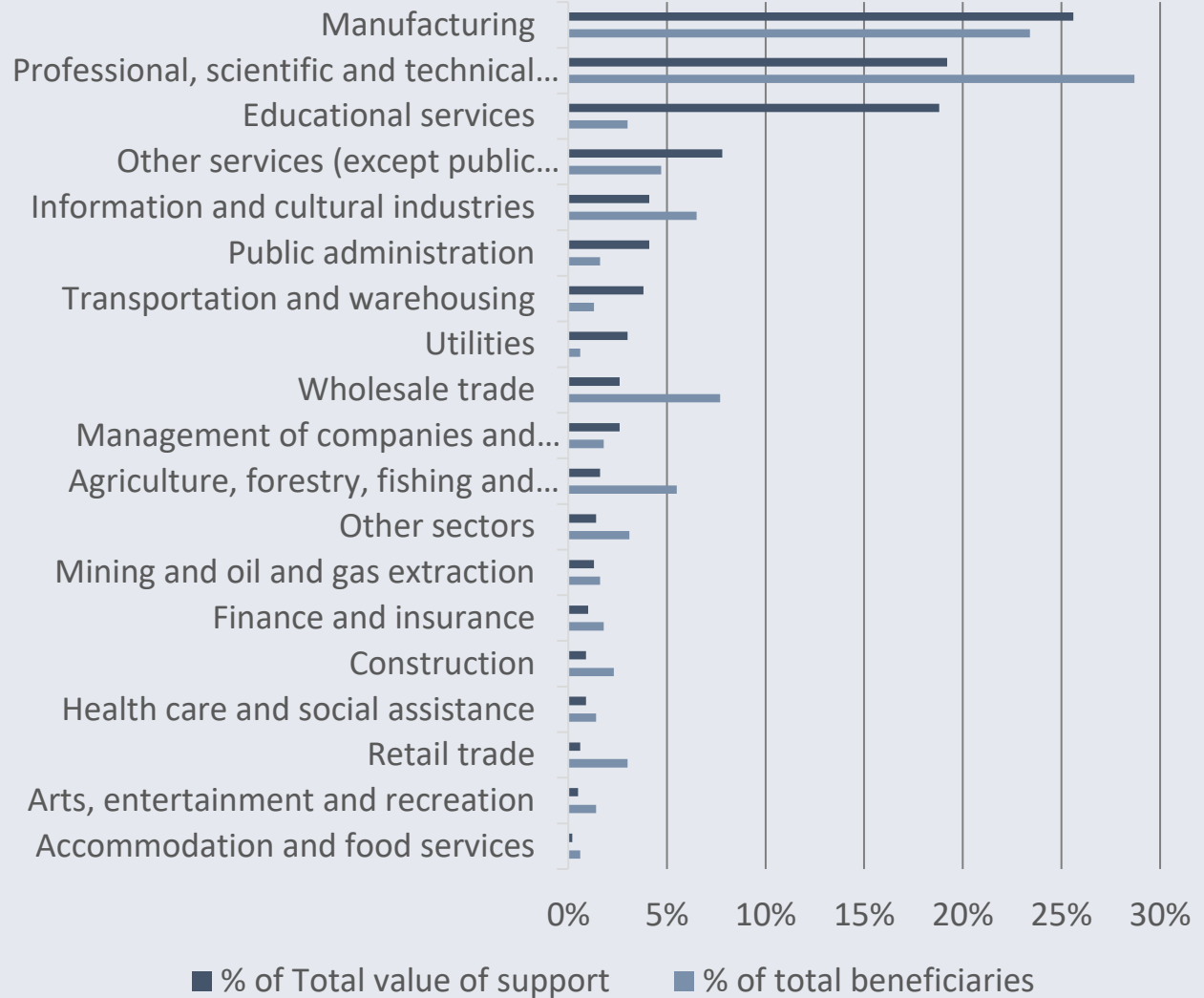


11% of innovation funding was provided to beneficiaries through **intermediaries**

Industries

The **manufacturing sector** received the **most** BIGS support in terms of total value. The **educational services sector** has the **highest average** funding per enterprise supported.

BIGS support by industry (NAICS), 2019-20

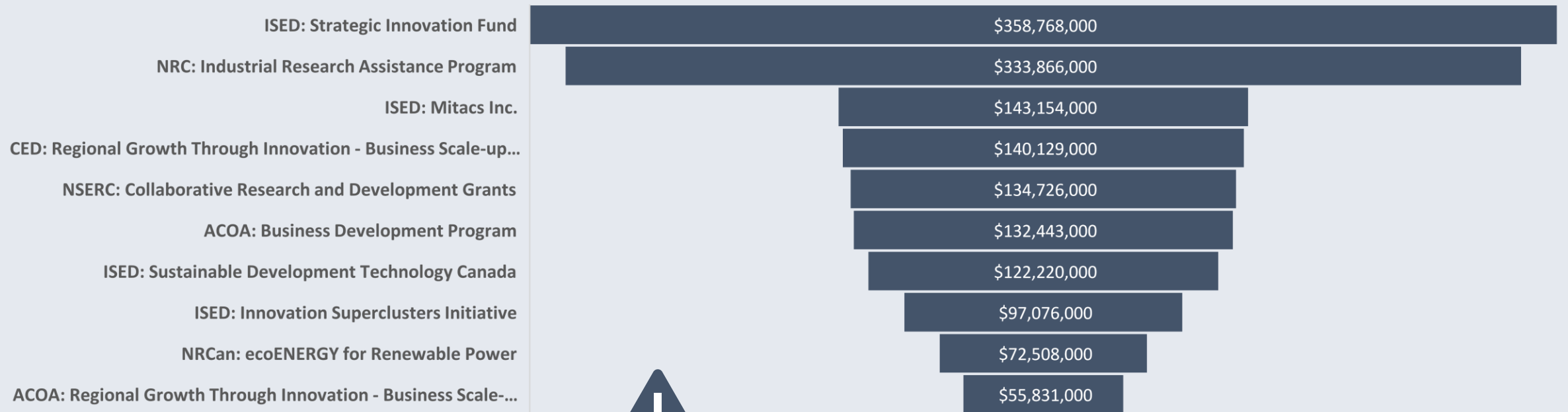


29% of beneficiaries are within the **professional, scientific and technical services** sector

Largest Program Streams

The **10 BIGS program streams** with the highest spending **delivered** just over **half** of all BIGS support:

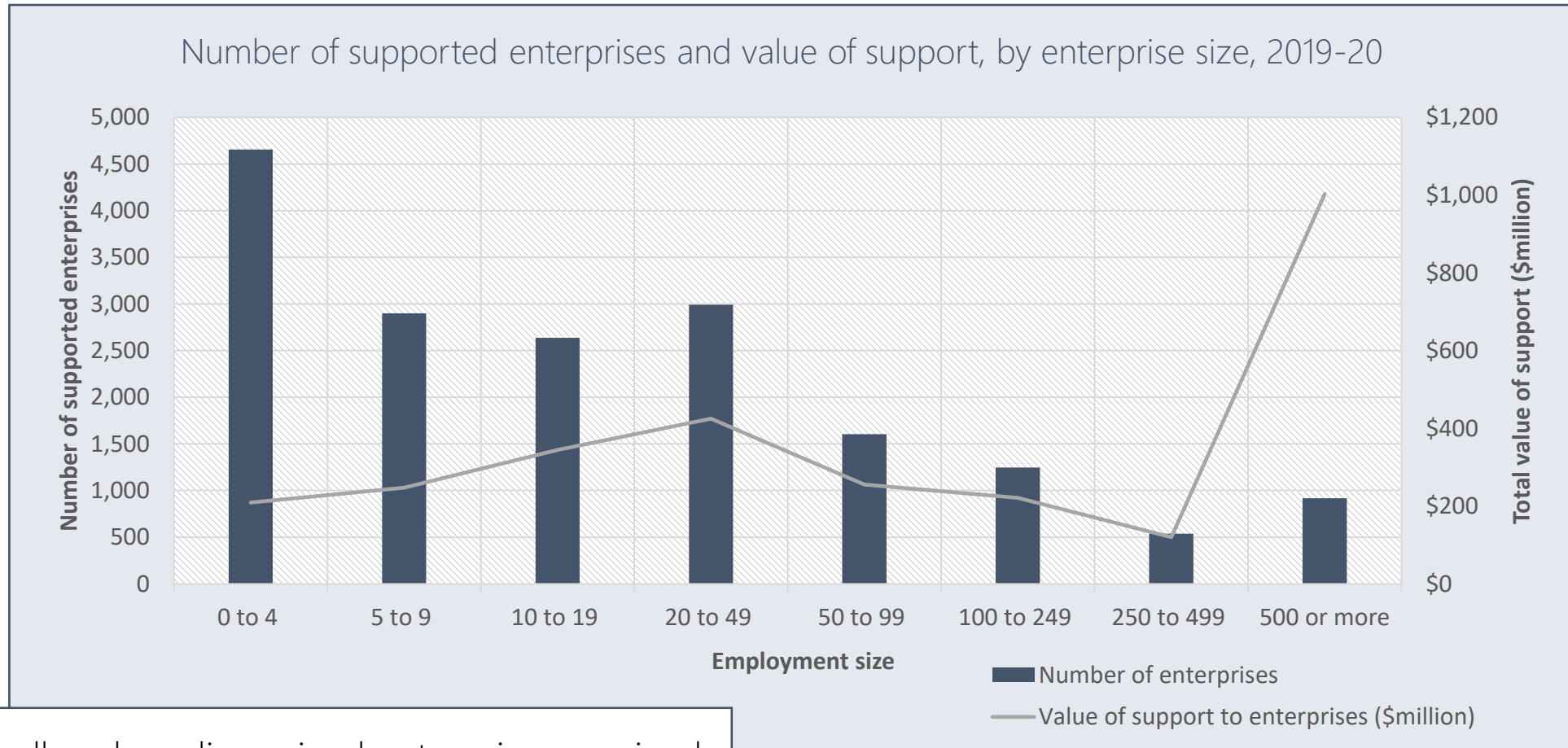
The 10 largest BIGS program streams by total spending on support, 2019-20



Beneficiaries of the **NRC – Industrial Research Assistance Program** received **\$100K** on average, whereas the **NSERC- Collaborative Research and Development Grants** delivered **\$2.7 million** per beneficiary on average.

Size

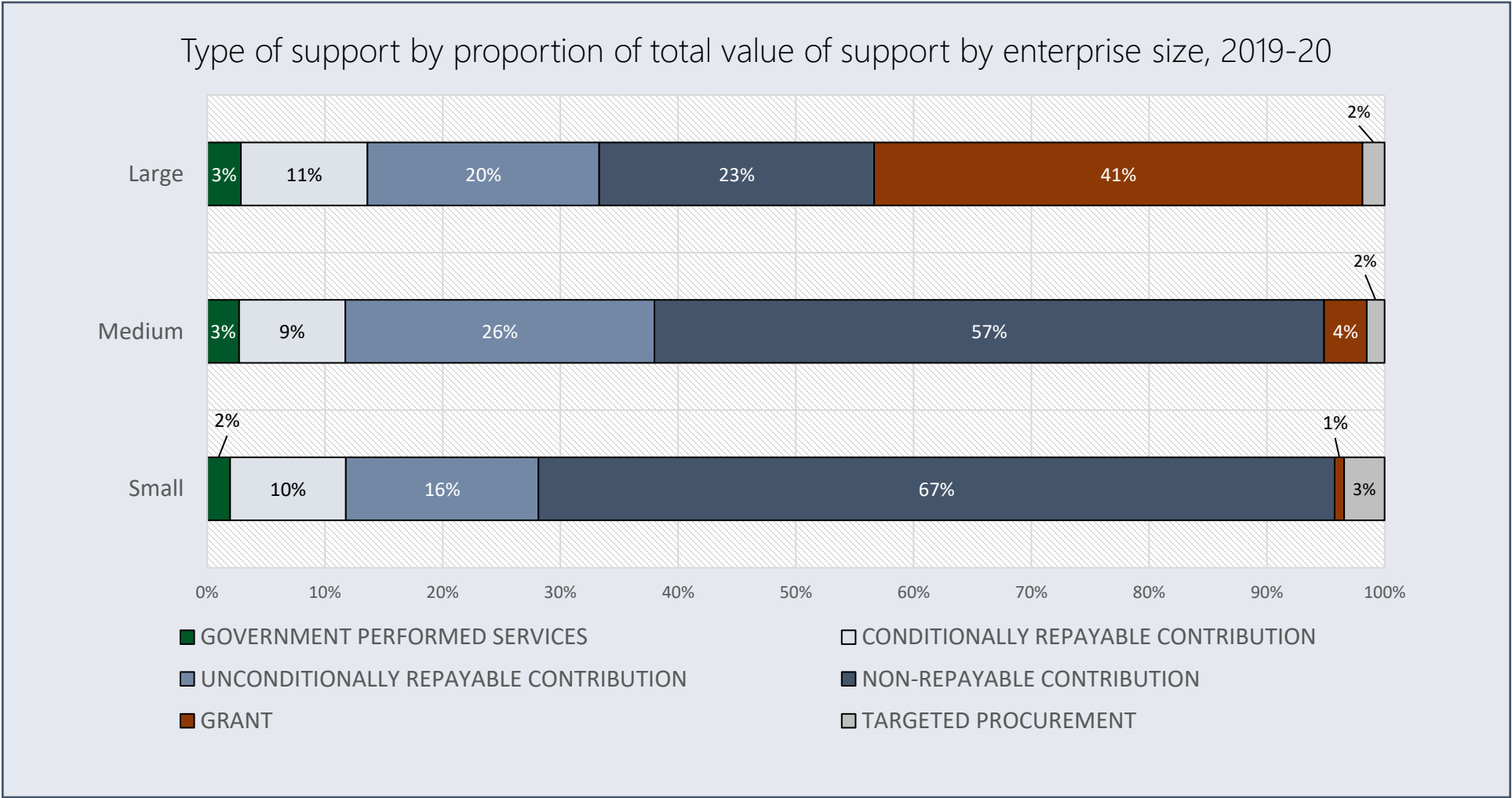
On average, **large** enterprises received over **\$2million** through BIGS programs, compared to less than **\$200K** for **small** enterprises, and just over **\$400K** for **medium** sized enterprises



Small and medium-sized enterprises received **\$1.8 billion** (or **65%** of BIGS funding) in total.

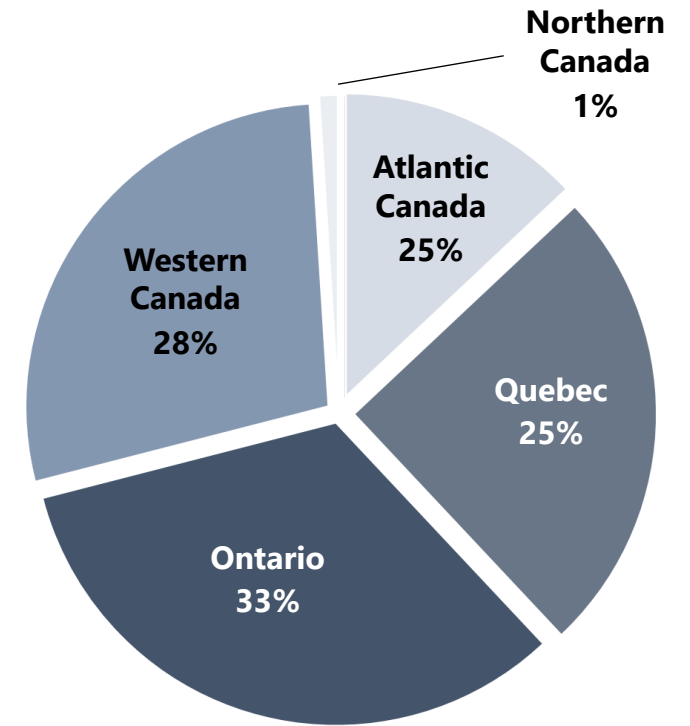
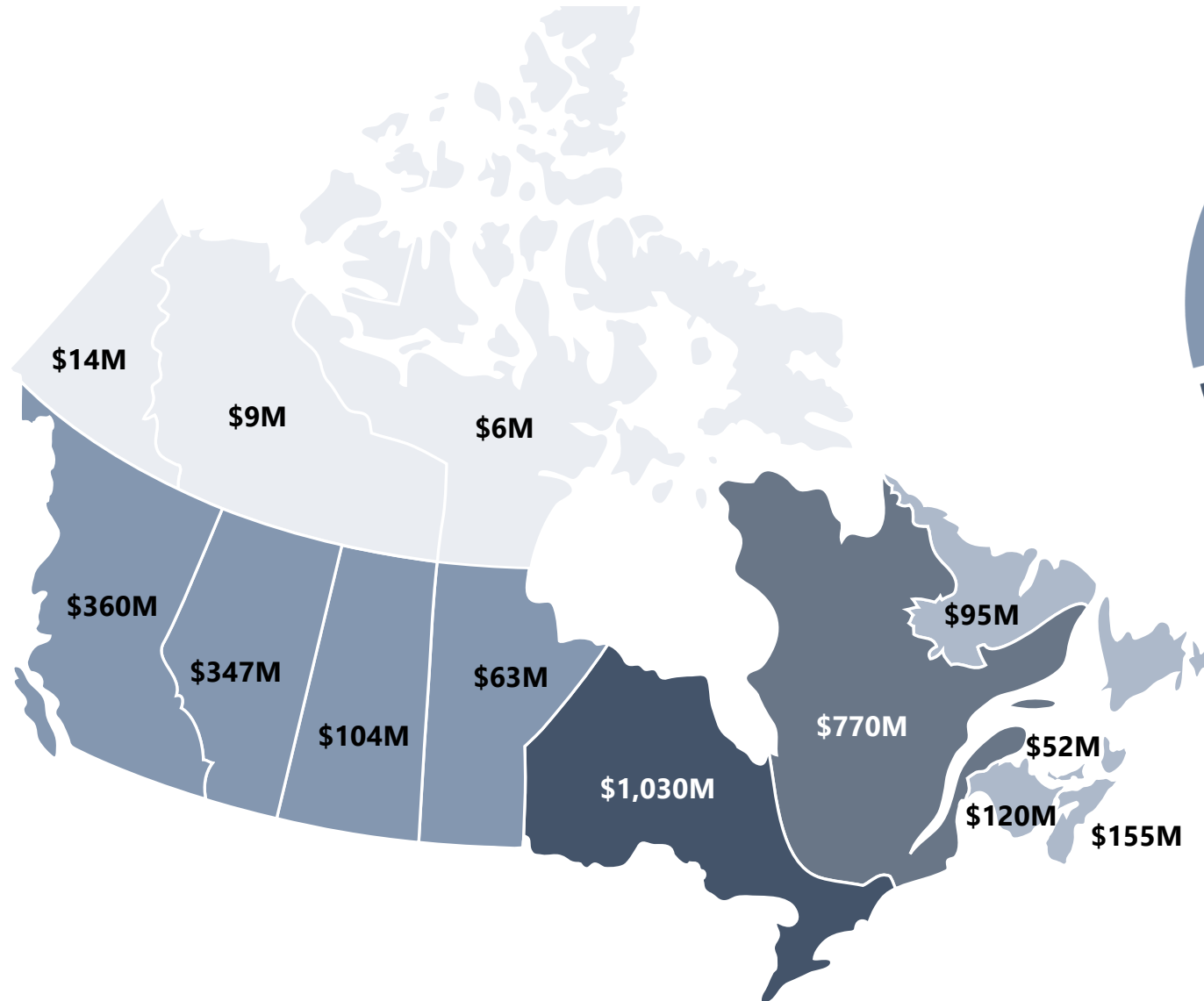
Type of Support

The **type of support** provided by BIGS programs varies by **size of the enterprise**:



Regionality

The value of support provided to BIGS program beneficiaries, by province



Gender-based Analysis Plus (GBA+)

Using 2019-20 BIGS program data to compare employees of BIGS ultimate beneficiary enterprises to non-BIGS enterprises:

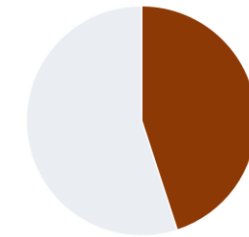
BIGS beneficiary enterprises

Non-BIGS enterprises

Female employees



35%

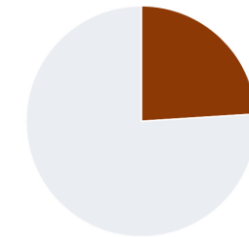


45%

Immigrant employees



22%

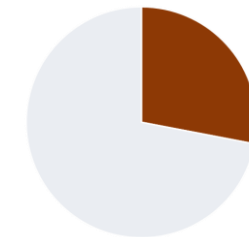


24%

University-educated employees



43%

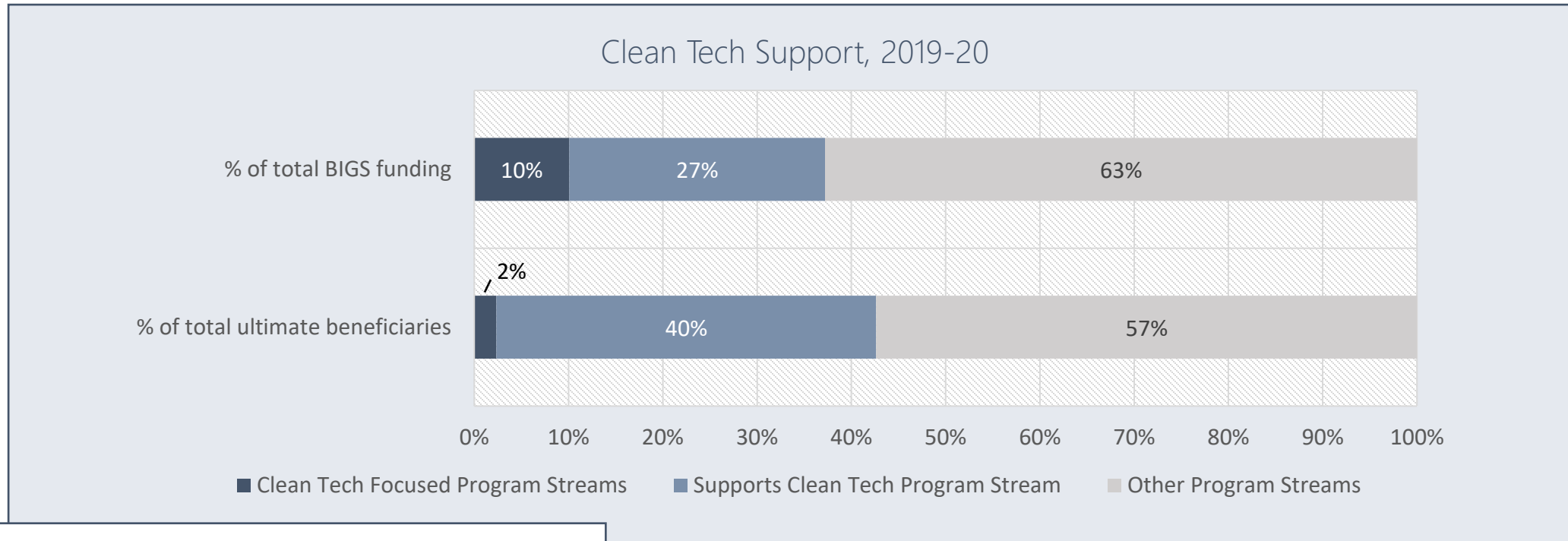


28%

Note: Differences between the gender and immigrant status of the workforce of BIGS beneficiary enterprises and non-BIGS enterprises may be attributable to sampling variation.

Clean Tech

In 2019-20, BIGS captured **\$1.2billion** of federal support on clean technology:

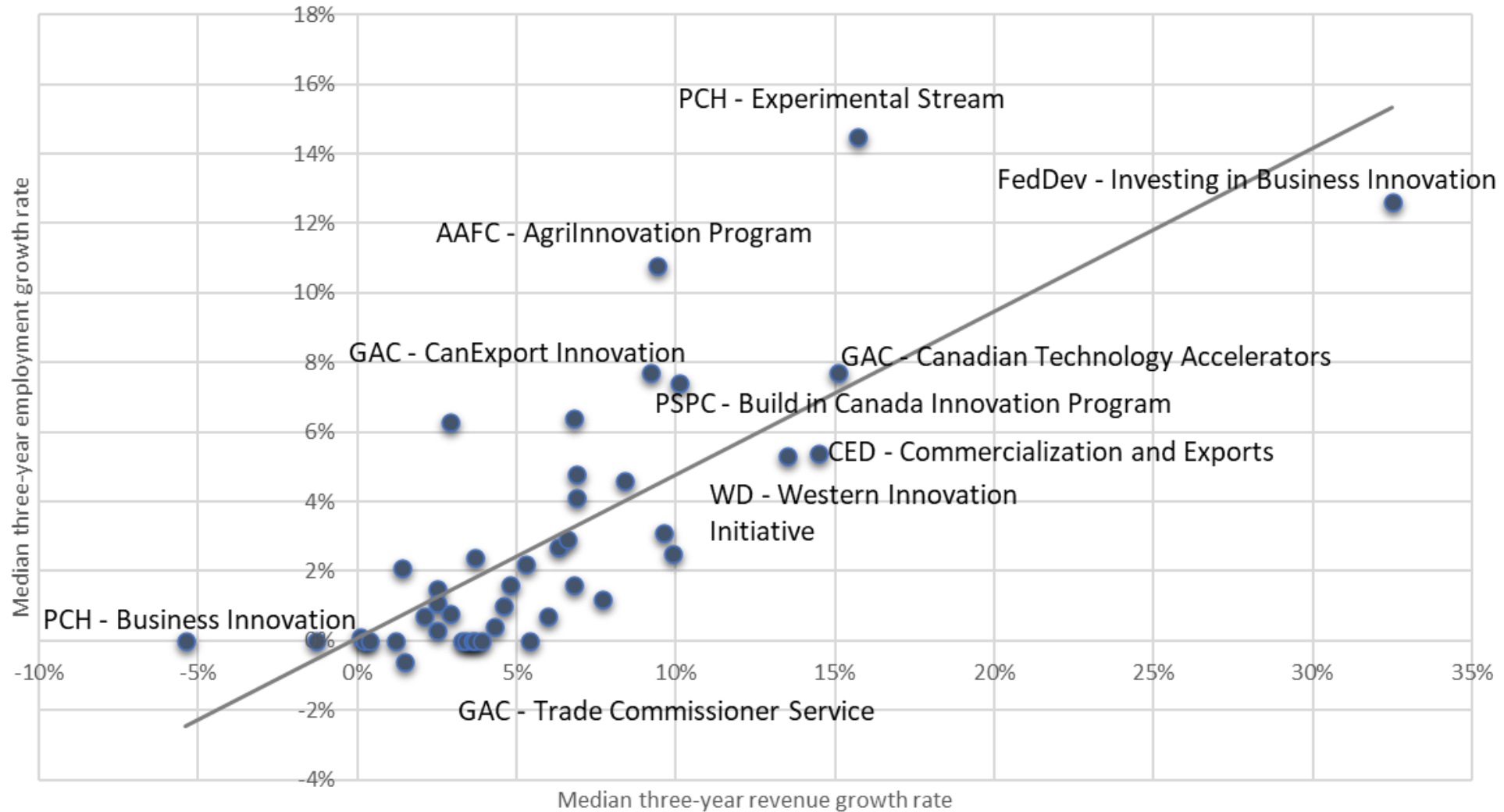


39% of support provided by **clean tech focused program streams** was disbursed through **intermediaries**.

Note: BIGS captures a subset clean tech funding identified by the Clean Growth Hub. In 2019-20, approximately 20 BIGS program streams provide funding in support of clean tech.

Understanding Program Stream Performance

Median 3-year growth rate between the year of support 2017 and 3 years after support 2019



Key Takeaways

BIGS Program Data 2019-20

2019-20 BIGS program data demonstrates that BIGS programming remains a high priority for the federal government. The scope of the BIGS universe continues to expand with increases to value of support and number of beneficiaries supported (when compared to 2018-19 data).

1

2019-20 BIGS program data can be used to further develop our understanding of beneficiaries

2

2019-20 BIGS program data can prompt lines of enquiry and highlight research questions for exploration

3

GBA+ data has been linked to 2019-20 BIGS program data and can be used for meaningful analysis

Questions?

Contact Us

CPIAU/UCERI@tbs-sct.gc.ca

Annex – Data Collection and Dissemination Cycle

BIGS program data is collected and disseminated on an **annual cycle**:

