

 **CANADIAN
AGRICULTURAL
PARTNERSHIP**
Innovate. Grow. Prosper.

AgriScience: Program Renewal 2023-2028

July 2021



Recap-current AgriScience priorities

- Invest in discovery and applied science for major commodity sectors
- Improve support for minor commodities, emerging, and transformative areas
- Enhance efforts in clean growth, environment, and climate change
- Accelerate growth of Canada's food and beverage processing or value-added sector
- Strengthen knowledge transfer and adoption

Emerging areas and government commitments going into the NPF

- The impact of COVID-19, addressing climate change, challenges and unpredictability in global trade, transportation, and access to labour will influence the direction of the NPF
- There is also an opportunity to drive economic growth as outlined in the Barton Report, Canada's Economic Strategy Tables and the Royal Bank of Canada's Farmer 4.0 -- agriculture could add as much as \$11 billion to Canada's GDP by 2030
- Enhanced focus on environment - Strengthened Climate Plan
 - National greenhouse gas emissions reduction target of 40 – 45% below 2005 levels by 2030;
 - Goal to reach net zero emissions by 2050; and
 - Target to reduce fertilizer emissions of 30% below 2020 levels by 2030.
- Emphasis around areas such as labour retention and automation, food security, mental health, and Public Trust
- The need to demonstrate results and value of investments
- Enhancing participation of under-represented groups - diversity and inclusion of youth, women, Indigenous people and other under-represented groups

Priority Areas Being Considered



CLIMATE CHANGE & ENVIRONMENT

[30-40%]

AgriScience renewal could prioritize areas that address climate change and environmental sustainability, to position the sector in contributing to the Government of Canada's 2030 and 2050 targets. This would focus on GHG emissions reductions and carbon sequestration, as well as other environmental areas including soil health, water quality, air quality, biodiversity, and plastics.



ECONOMIC GROWTH

[40-50%]

AgriScience renewal could help to drive an ambitious approach to investments targeting economic growth, including:

- Focus on emerging technologies to address labour challenges, create more value-added products, and increase productivity.
- Research to improve productivity, develop new or improved product attributes and production systems.
- Proposal selection will consider: treatment of emerging sectors vs established commodities; participation of value chain partners; and potential impact relative to cost.



SECTOR RESILIENCE

[20%]

AgriScience renewal could prioritize areas and include undertaking research aimed at improving sector resilience in response to market and societal pressures, including mental health.

i.



CLIMATE CHANGE & ENVIRONMENT

[30-40%]

- Each cluster would be required to have [30 - 40%] of cluster funding prioritizing environment and climate change mitigation efforts. This would include a [15 - 20%] carve-out for GHG reduction and carbon sequestration.
- **Scope and focus of climate change & environmental sustainability under consideration:**
 - (a) research aimed primarily at reducing GHG emissions or sequestering carbon in the sector.
 - (b) research on other environmental and sustainability issues facing the sector, including climate change adaptation and other areas such as soil health, water quality, air quality, biodiversity, and plastics.
- **Additional considerations:**
 - Increase emphasis on Knowledge and Technology Transfer to increase uptake of environmental practices in the sector.
 - Encourage projects generating information on the on-farm costs and benefits of adopting environmental Beneficial Management Practices.
 - Encourage investments that take a future, long-term perspective on how to advance the sector to meaningfully contribute to the Government of Canada's 2030 and 2050 climate targets.

ii.



ECONOMIC GROWTH

[40-50%]

- Each cluster would be required to have [40-50%] of cluster funding prioritizing economic growth efforts.
- The approach will be guided by the funding principles, in particular bringing “Value to Canada – contribution of the activity to the Canadian economy”, in addressing: market size (domestic and export; potential growth/consumer demands; IP landscape; and labour issues.
- **Scope and focus of Economic growth under consideration:**
 - Focus on emerging technologies to address labour challenges, create more value-added products, and increase productivity and downstream coordination.
 - Research to improve productivity, develop new or improved product attributes and production systems.
- **Additional considerations and opportunities:**
 - Market share or domestic and export sales targets – beyond the current 2025 goals of \$75 billion in export sales and \$140 billion in domestic sales.

iii.



SECTOR RESILIENCE

[20%]

- Each cluster would be required to have [20%] of cluster funding focusing on broader sector resilience.
- **Scope and focus of Sector resilience:**
 - This will include undertaking research aimed at improving sector resilience in response to market and societal pressures, including mental health, and to build resilience in the sector for the future of agriculture.
 - Examples of long-term sector resilience, emerging challenges and longer-term needs facing the sector include:
 - Antimicrobial resistance;
 - Animal health and welfare;
 - Plant health;
 - Alternative production systems; and
 - Artificial Intelligence (AI) and Big Data in Agriculture.

Funding Principles

The following five core principles are being considered to guide the assessment of applications

Strategic value to Canada:

Present a strategic plan that outlines a long-term vision for the sector and takes into consideration the three priority areas.



Whole value/supply chain:

Take a whole value-chain perspective and encourage coordinated action on horizontal issues.



Results-based:

Measureable outcomes to enable reporting on evidence of economic, environmental and social benefits.



Knowledge transfer and adoption:

Disseminate results and increase uptake of research findings.



Diversity, collaboration, and partnerships:

Broaden the diversity and participation in the Program.

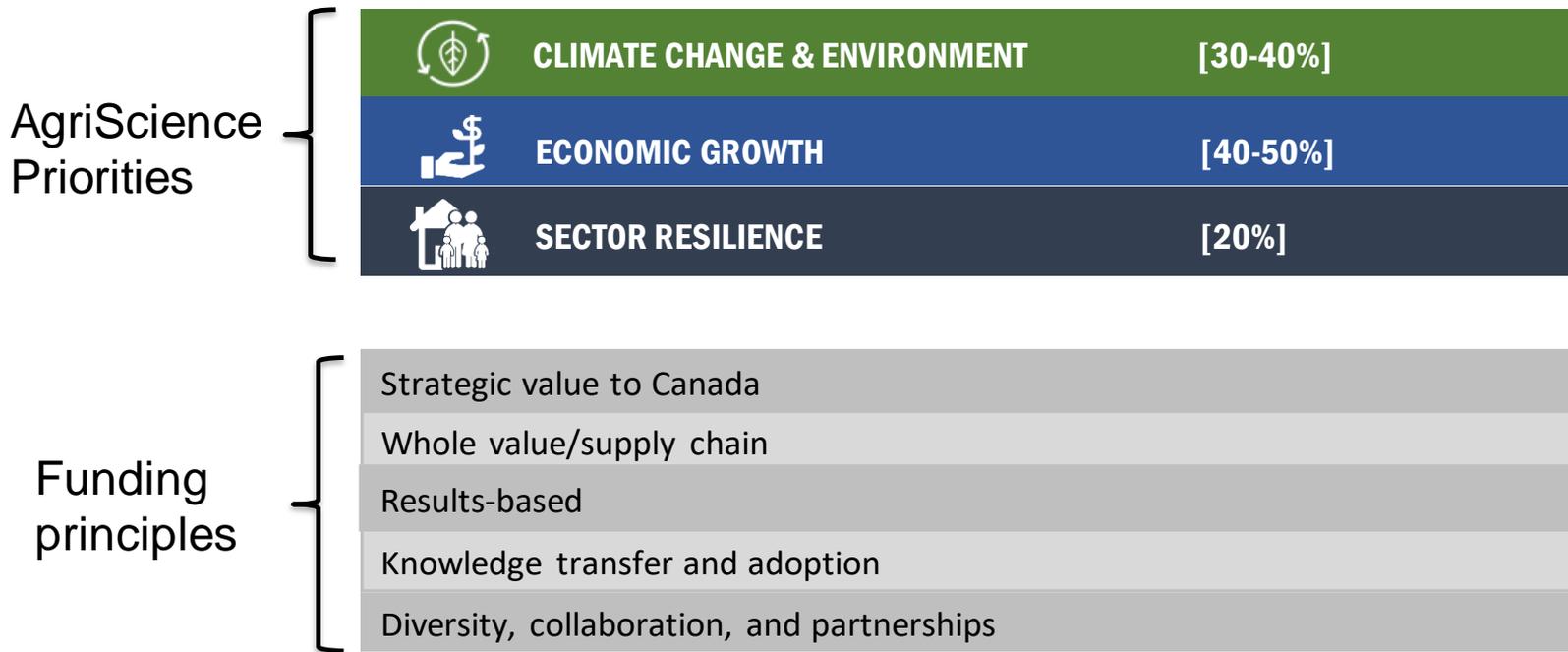


AgriScience Projects

- AgriScience Projects stream continues to be part of the programming
- Project proposals align with one or more of the three funding principles (climate change and environment, economic growth, and sector resilience)
- Projects would be evaluated against the same funding principles as discussed for Clusters
- Consideration toward incubator streams to support participation of under-represented groups and broaden the reach of the program i.e. Indigenous peoples, other under-represented groups, start-ups, student innovators

Summary

Proposed 2023-28 AgriScience Program Priorities and Funding Principles



Questions?