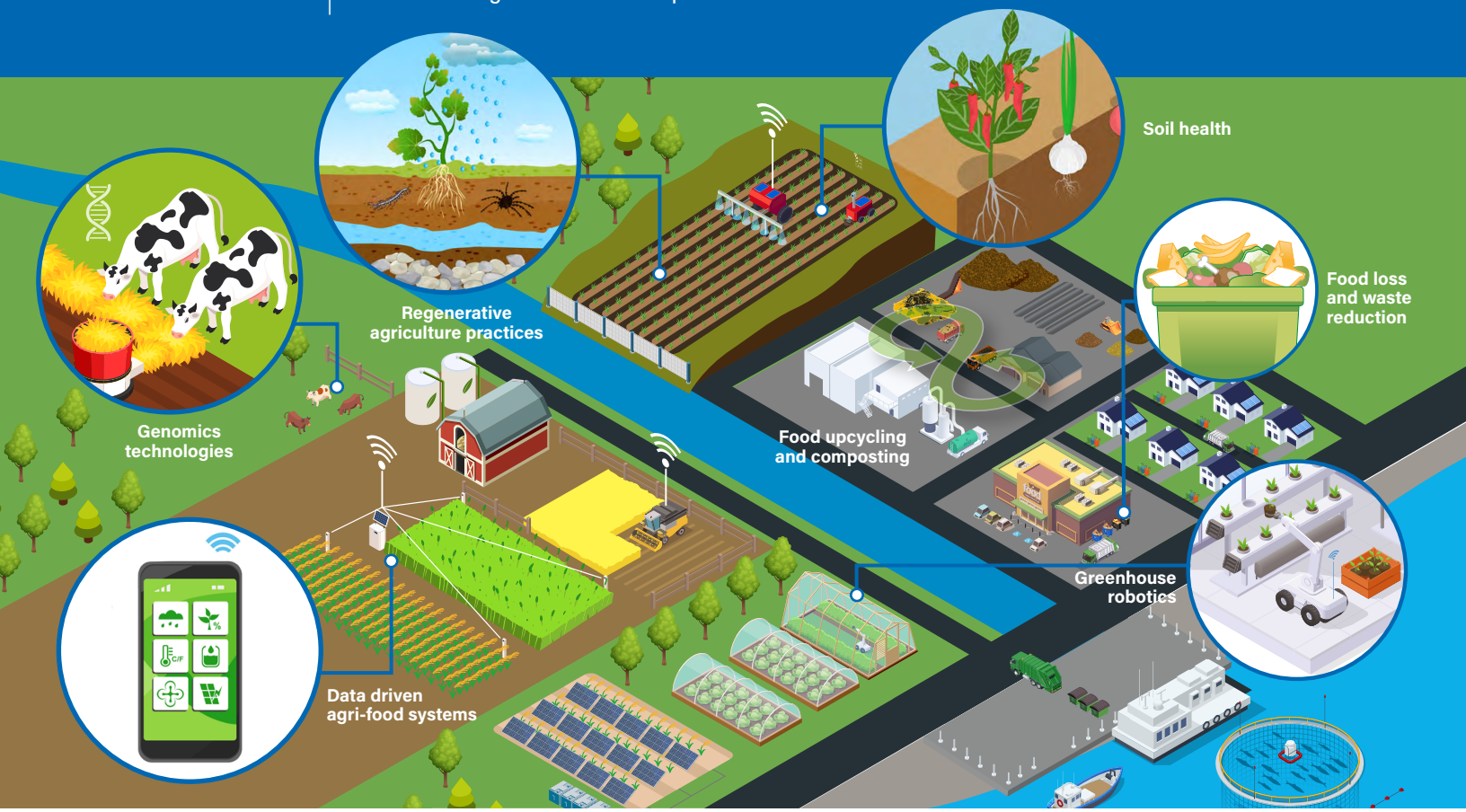
Standards for agriculture and agri-food

Helping support safe and sustainable practices and the adoption of technology in the agriculture and agri-food sector

With extensive experience in developing world-class standards in areas such as environment and natural resources, data systems and machinery, worker health and safety, alternative energy technologies, circularity, bioeconomy, and sustainability, CSA Group can help strengthen Canada's position as a global leader in sustainable agriculture and food production.



How can standards support sustainable agriculture and agri-food?

Sustainable agriculture and agri-food practices balance environmental stewardship, economic viability, advanced technology and societal benefits in order to provide access to safe and nutritious food. CSA Group's standards can support the adoption of proven practices, emerging methods, and advanced technologies to improve operational efficiency, support producers and manufacturers, and strengthen climate resilience across the sector.

Common terminology

Standards can establish common definitions and terminology to facilitate alignment in collecting, monitoring, and reporting data and process outcomes across the whole value chain.

Increased trust

Standards can promote clear and transparent processes and procedures in key topics, such as data privacy and security, to help build trust between producers, technology providers, the public, and other private sector actors.

Codified knowledge

Standards can help codify the deep knowledge and expertise of the agriculture and agri-food community. By enabling knowledge sharing and establishing foundational benchmarks, standards can help enhance the adoption of sustainable practices across the sector.

Competitive advantage

Standards can support a recognized set of good practices, helping organizations that adopt them gain recognition and credibility in the marketplace.

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Standards for agriculture and agri-food



Current CSA Group activities supporting the agriculture and agri-food sector:

Agriculture and Agri-food Strategic Steering Committee

With Advisory Groups to provide advice and direction on high-priority issues and standardization gaps, including:

- Agriculture and Agri-food Data
- Agriculture and Agri-food Robotics and Automation

International Standards Activities

Management of the Canadian Mirror Committees (MC):

- MC to ISO/TC 34/SC 20, Food loss and waste
- MC to ISO/TC 347, Data-driven agri-food systems

National Standards Activities and Research

Sustainability

- CSA K100, *Food loss and waste – Terminology and measurement* (in progress)
- CSA K108, *Soil health measurement and reporting framework* (planned)
- CSA R120, *Regenerative agriculture: Principles and terminology* (in progress)
- CSA TS-106, *Soil health sampling methods* (planned)
- CSA TS-107, *Soil health reporting methods* (planned)
- Municipal Food Loss and Waste in the Industrial, Commercial, and Institutional Sector: Recommendations for Measurement Standardization (research report)
- Regenerative Agriculture in Canada: Considerations for Standardization (research report)
- Agricultural Genomics (research report, in progress)
- Soil Health Measurement and Reporting (research report, in progress)

Data and Automation

- CSA TS-001:24, *Biosecurity for robotics in greenhouses*
- CSA TS-103, *Data sourcing protocol for agri-food performance, Part 1 – Agrifood metadata reporting* (in progress)
- CSA TS-104, *Data sourcing protocol for agri-food performance, Part 2 – Data quality rating method* (in progress)
- CSA TS-105: *Data sourcing protocol for agri-food performance, Part 3 – Framework for sourcing and sharing data* (in progress)
- Cybersecurity for Agriculture and Agri-food (research report, in progress)

CSA Group's focus areas

- Sustainable practices in agriculture and food production
- Automation, robotics technologies, and health and safety in agriculture
- The use and governance of data in agriculture, including precision agriculture, metrics, and reporting

CSA Group research and standards aim to support multiple UN SDG objectives, including:



For more information, visit csagroup.org/agriculture

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