



# CRSC Metrics Platform

**CRSC Meeting**

**November 23, 2017**

# Demonstration components

---

- Objective of the Metrics Platform
- Types of data and sources
- Regional and crop specific data
- Connection to market requirements
- Organization of information: principles, criteria and indicators
- Contents of reports on each criteria
- Navigation demonstration

# Objective of the Metrics Platform

---

**The CRSC Metrics Platform is governed by the mission of the Canadian Roundtable for Sustainable Crops**

*Create value for all members of Canada's grains sector by providing a national forum for advancing, reporting on and communicating the sustainability of Canadian grain production.*

**Result: A credible, data-based platform that provides measurements of Canadian grain production sustainability performance, that is populated with information that is responsive to market requirements.**

# Types of data, sources and time frame

---

## Three types of data

1. The **legal and program infrastructure** in which the industry operates (such as pesticide registration and application regulations and labour standards)
2. **Aggregate outcomes** of the activities of the industry (such as greenhouse gas emissions and amount of land under conservation tillage)
3. **Aggregated practices** of producers (such as how many producers have adopted various beneficial management practices)

## Main data sources

**Public data** – AAFC, Statistics Canada, provincial and federal regulations

**CRSC data** – CRSC Survey of Grain Producers (2016), CRSC Carbon LCL analysis

**Partner data** – Fertilizer Use surveys, Field Print Initiative Sustainability Reports

## Data time frame

The most recent available data is used – ranges from 2011 to 2017

When available and relevant, time series data is shown

# Regional data

---

Where available, data has been collected and is able to be sorted by:

<b>Province</b>	<b>Regional unit</b>	
	NS	MB South/Subhumid Prairies
Prince Edward Island	PE	SK North Central/Boreal Plains
Nova Scotia	NB	SK Central/Subhumid Prairies
New Brunswick	QC East	SK South/SemiArid Prairies
Quebec	QC Central	AB North/Boreal Plains
Ontario	QC North Central/Boreal Shield East	AB Central/Subhumid Prairies
Manitoba	ON Mixed wood Plains	AB South/SemiArid Prairies
Saskatchewan	ON East/Boreal Shield East	BC North Central/Boreal Plains
Alberta	MB North Central/Boreal Shield West	BC Central/Montane
British Columbia	MB Central/Boreal Plains	BC West/Pacific maritime

# Data by crop

---

Where possible, data has been collected and reported for grain producers/production.

However, in some cases, data is only available for all crop producers/production, or all agricultural producers/production.

Carbon LCL data series is available for the following crops:

Barley

Canola

Corn

Durum

Field peas

Flax

Lentils

Oats

Soybeans

Wheat

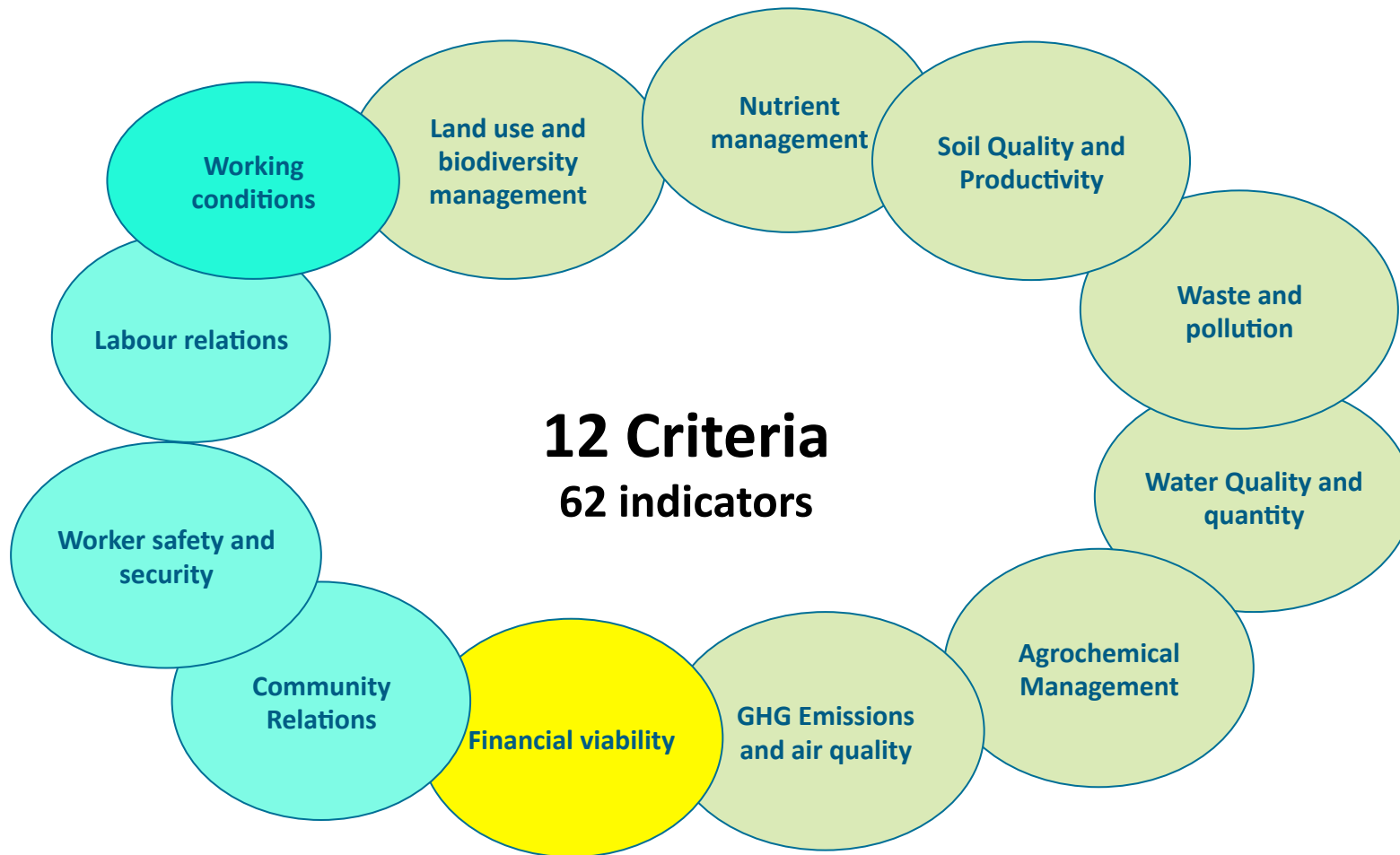
# Connection to market requirements

---

- Criteria and indicators were developed through exhaustive research of existing international sustainability standards in use by grains customers
- 5 were selected as the main sources, and all indicators and practice-based metrics of those standards were reviewed as to relevance to Canadian grain production
- The 5 sustainability standards which provided the basis for the Metrics Platform criteria and indicators are:
  - SAI Platform Farm Sustainability Assessment (FSA) tool (2.0)
  - Roundtable for Sustainable Soy (RTRS) Standard (V3)
  - FEFAC Soy Sourcing Guidelines (V1)
  - International Sustainability & Carbon Certification (ISCC) Plus (202; 202-01; 202-02)
  - Unilever Sustainable Agricultural Code (SAC) (2015)
- Information of expectations within these five have been provided for the information of the Metrics Platform user, as general guidance only. Those interested in pursuing certification should consult the standards organizations.

# Organization of information

## Principles, Criteria and Indicators



### Three principles

Social Responsibility

Environmental Sustainability

Economic Viability



# Social Responsibility Criteria and their Indicators

---

## 1. Worker safety and security

- Medical
- Protective clothing
- Training
- Procedures

## 3. Working conditions

- Pay
- Wages and benefits
- Hours of work
- Contracts
- Records
- Training

## 2. Labour relations

- Child labour
- Absence of forced labour
- Collective bargaining
- Association
- Absence of discrimination
- Communications

## 4. Community relations

- Dialogue and consultation
- Complaint management
- Nuisance management

# Environmental Sustainability Criteria and their Indicators

---

## 5. Agro-chemical management

- Selection
- Compliance
- Application
- Containers
- Equipment maintenance
- Storage
- Control
- IPM
- Records
- Biological control agents
- Invasive species
- Pest monitoring
- Pest and disease resistance

## 6. Nutrient management

- Equipment maintenance
- Selection and application
- Plan
- Records
- Sludge
- Storage
- Training

## 7. Soil quality and productivity

- Soil management

# Environmental Sustainability Criteria and their Indicators

---

## 8. Water quality and quantity

- Infrastructure and equipment
- Management plan
- Quality
- Withdrawal
- Irrigation records

## 9. Land use and biodiversity management

- Land conservation
- Land conversion
- Biomass
- Protection of species

## 10. GHG emissions and air quality

- Air quality
- HG reduction and sequestration
- Energy use
- Renewable energy

## 11. Waste and pollution

- Burning
- Prevention
- Reduction/recycling
- Storage and disposal

# Economic Viability Criterion and its Indicator

---

## 12. Financial viability

- Strategic plan
- Profitability
- Records
- Risk management
- Contract and payments

# Each criterion has a dedicated report

---

To enable access to a summary by criterion, reports were developed, which include the following information:

- **Overview:** *why does this matter?*
- **Canadian perspective:** *a description of the Canadian situation based on available and relevant metrics*
- **Key metrics:** *detailed information on specific aspects of the criterion, with data or links to the data provided, as well as sources*
- **Market requirements:** *a list of key expectations of international sustainability standards*
- **Industry activities:** *a summary of industry activities relevant to the criteria, plus links to those initiatives*

# Three principles

---



## Social Responsibility

---

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque luctus orci eget molestie semper. Curabitur finibus congue dui vel rhoncus.

Explore



## Environmental Sustainability

---

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque luctus orci eget molestie semper. Curabitur finibus congue dui vel rhoncus.

Explore



## Economic Viability

---

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque luctus orci eget molestie semper. Curabitur finibus congue dui vel rhoncus.

Explore



### Industry Initiatives

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit luctus orci  
eget molestie semper.

Explore



### Market Requirements

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit luctus orci  
eget molestie semper.

Explore



### Source Data

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit luctus orci  
eget molestie semper.

Explore



### Library

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit luctus orci  
eget molestie semper.

Explore