



GLOBAL CHALLENGES 🍁 GENOMIC SOLUTIONS 🛛 DÉFIS MONDIAUX 🔶 SOLUTIONS GÉNOMIQUES

# Growing soybean in Canada through improved adaptation

## Accroître la culture du soya au Canada via une meilleure adaptation

### **CHALLENGE:**

Soybean is a highly profitable crop that is environmentally sustainable. With climate change the crop has the potential for significant expansion within Canada. There is a pressing need for the development of highyielding soybean varieties suited to Canadian conditions.



#### **QUICK FACTS:**

- Crop with the highest growth in Canada (2010-2015) (+43%)
- Forecasted expansion in Canada: +1.3M Ha (+60%)
- Canada exports well over \$1B worth of soybean annually, especially to Asia.





#### PROJECT TEAM LEADERS

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#### **BENEFITS TO CANADA:**

**GENOMICS SOLUTIONS:** 

improve yield and disease resistance.

Decreases the amount of chemical inputs (fertilizers, pesticides) leading to fewer chemical residues in soil and water, decreased fuel consumption and increased revenue for Canadian growers and seed companies. Economic benefits of this research have the potential to reach \$278 million annually, based on increasing the yield of potential soybean crops, increasing their resistance against diseases and pests, and reducing the use of pesticides.

Development of genomic tools that will enable breeders to develop novel

soybean varieties that respond to a changing environment and help





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