

# AAFC Adaptation Plans

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## Summary

- **NAIS has a mandate for translating weather and climate information to the Canadian agriculture industry. We are dependent on those who operate weather or climate data monitoring stations.**
- **NAIS has to address the following challenges:**
  - From a history of focusing on the Canadian Prairie droughts we are now asked to address all weather and climate extremes on a national scale
  - We must be relevant to the end user and therefore we must fully understand who our key end users are and how to prioritize their needs, so they can be addressed in the most effective manner
  - Our goals must be accomplished with little increase in budget; therefore developing partnerships will be a key factor in our success.
- **NAIS is considering the following value added products to be high priority for development:**
  - Outlook scenario building: can we use seasonal forecast data to project reasonable future climate scenarios for agriculture?
    - One example would be modeling predicted soil moisture conditions to anticipate the spread of drought conditions. Both climatology and meteorology can be applied and compared.
  - Crop modeling: can we look at future climate scenarios and predict suitable areas for production of new crops, and therefore provide more crop selection options for farmers
  - Infrastructure planning: we may be able to develop cost-benefit scenarios for decision support in long term infrastructure planning, such as irrigation projects
- **NAIS has prepared a 5 yr plan to develop relevant information to address the Canadian agriculture industry – we are at a national scale but must be regionally relevant**

