

Agriculture and Agriculture et Agri-Food Canada Agroalimentaire Canada

#### **ICIS 2007 Developer's Workshop**

# Session 1: Activity Reports of ICIS Partners

#### ICIS at the SPARC 2006-2007

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#### **Overview**

- Previous projects
- New Projects
- Needs





# **Previous projects**

- ICIS Expansion (April 2004 March 2007):
  - Goals:
  - Expand the use of ICIS within AAFC
    - SPARC Durum and Bread Wheat breeding programs extensively expanded in GMS and DMS
    - Data Comparison Tool developed for historical wheat data queries
    - Expanded use to Lethbridge Research Centre (LRC) in Lethbridge, Alberta and Cereal Research Centre (CRC) in Winnipeg, Manitoba
    - Gave numerous demonstrations of ICIS to interested parties from both AAFC and other institutions





# **Previous projects**

- ICIS Expansion (April 2004 March 2007):
  - Goals:
- Work out a way to handle molecular marker data in ICIS
  - Had numerous discussions with the SPARC biotech lab about their needs
  - Evaluated a LIMS/GEMS system
  - Set up DMS workbook templates for marker data
  - Loaded Parent Screening marker data into ICIS
  - Data Comparison used to query data





### **New Projects**

- Spring Wheat Project (2007 2010)
  - Expand ICIS to cover pedigree, phenotypic and marker data for all spring wheat breeding programs in AAFC
  - Develop queries as needed





### **New Projects**

- Winter Wheat Project (2007 2010)
  - Expand ICIS to cover pedigree, phenotypic and marker data for all winter wheat breeding programs in AAFC
  - Develop queries as needed





### **New Projects**

- Molecular Breeding Project (2007 2010)
  - Implement a LIMS/GEMS system for use in the biotech labs to store PCR and primer data
  - Enter molecular marker data from breeding programs into ICIS
  - Develop queries as needed





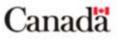
#### • LIMS/GEMS system

- Has to be flexible enough to meet our biotech lab needs without a steep learning curve
- Queries need to be intuitive
- Implementation needs to be seamless, without disruption to lab work





- Differential Access to ICIS databases
  - Restrict certain germplasm and studies to authorized users, without having to create a separate database
  - Administrators need to be able to assign these restrictions via ICIS applications (SetGen Lists, DMS Workbook)





- Central Database Updates
  - Work out an "easy" way to get our updates into the Wheat Central GMS (IWIS3)
  - Need a tool to find duplicates between the Local GMS and Central GMS





#### ICIS Installer

- Need a custom ICIS installer than can set up the databases, ODBC links and applications
- Needs to allow for changes over time





#### Welcome to the 2007 ICIS Developer's Workshop I hope you enjoy yourselves in Speedy Creek!!



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