



Notes to flow chart for technology transfer template

The Canadian Grain Commission (CGC) will give the industry regular updates on the status of a project. Presentations will be made to the respective subcommittees semi-annually and to full committees of the Western Standards Committee as necessary. The CGC's Executive Management committee and commissioners can provide updates and status reports via their regular meetings with stakeholder groups. All of these meetings will provide an opportunity for the industry and producers to raise concerns, and their concerns will be given consideration in the risk assessment in step 7.

1. Project goal or proposal ideas received from various sources and initially evaluated by directors of the CGC's Grain Research Laboratory and Industry Services

Example: Identifying the need for falling number technology versus visual assessment of sprout damage

Examples of potential sources:

- Western Standards Committee
- Commission
- Industry Services
- Grain Research Laboratory
- Canadian Wheat Board
- Canola Council of Canada

2. Prioritization (Decision)

- Directors of Grain Research Laboratory and Industry Services determine priority in consultation with the Research and Services Liaison committee made up of Grain Research Laboratory, Industry Services, and Corporate Services members
- Inform the Executive Management committee through directors' standard update mechanisms
- CGC chief operating officer informs CGC commissioners through standard update mechanisms

3. Identify project team

- One representative from Grain Research Laboratory, one from Industry Services, and, if required, one from CGC Business Group
- Project initiation document is submitted to the Executive Management committee only if an external company or organization is involved

4. Grain Research Laboratory – research and development of new methods (timeframe defined by results)

- Assess or develop new technologies which have potential to solve identified issue (this is not an evaluation service)
- One machine used
- Recommendation on a single method or technology

5. Decision by directors of Grain Research Laboratory, Industry Services and project team on project (Decision)

- Consult other CGC resources as required
- Decide one of the following:

- Go
 - No go
 - Refine status
 - Submit project initiation document to the Executive Management committee
 - Refine project as required
6. Grain Research Laboratory and Industry Services – transfer point between research and operations
- Minimum of three machines used to ensure robustness of equipment or operator impact
 - Small operational component, that is, one service centre, Grain Research Laboratory and Industry Services Technical group
 - Mirror with a proven method or grading system
7. Initial preliminary risk assessment by Grain Research Laboratory, Industry Services and Corporate Services (Decision)
- Evaluate criteria for success, that is, accuracy, reproducibility, repeatability, and machine bias
 - Identify:
 - Resources
 - Training needs
 - Facilities
 - Logistics
 - Safety
 - Analyze policy impact
 - Inform commissioners through Executive Management committee
8. Define program
- Identify resources and equipment
 - Decide how the technology will function operationally.
 - Identify:
 - Finances, training, and space
 - Types of reports
 - Monitoring
 - Procedures and work instructions
 - Timelines, milestones and acceptable criteria listed in step 7a
 - Service standards
9. Further evaluate Industry Services' needs
- Operational test at several locations
 - Potential for ISO certification
 - Multiple operators
 - Multiple machines
 - Define criteria:
 - Repeatability
 - Reproducibility
 - Transferability
 - Accuracy
 - Cost of operation
 - Audit trail
10. Detailed CGC risk assessment (Decision)
- Perform a more detailed risk assessment by incorporating findings from step 9

- Include the commissioners
11. Consult and communicate with the relevant stakeholders, for example:
 - Western Grain Elevator Association and other terminal representatives
 - Canadian Wheat Board
 - Canadian Grain and Oilseed Exporters Association
 - Western Standards Committee, Eastern Standards Committee, or both
 - Producer groups
 12. Review feedback (Decision on continuation)
 - Adjust the program accordingly
 - Multiple iterations until agreement to proceed
 13. Develop roll-out strategy
 - For example, Vancouver first, then Thunder Bay
 - Do expanded training.
 - Identify all resources required
 14. Consult stakeholders on roll-out strategy
 - Ensure that the roll-out strategy, not the concept, is being evaluated
 15. Evaluate feedback (Decision)
 - Must have clearly defined method to ensure implementation after evaluation
 16. Implement roll-out strategy
 - As per step 13
 - Mirroring methods
 17. Long-term evaluation
 - Initial reports at every Western Standards Committee meeting for first two years
 - Annual reports thereafter in April assessing impact on crop year

Key to flow chart

N=1 Number of machines = 1
GRL Grain Research Laboratory
IS Industry Services
Diamond Decision
Rectangle Action

Technology Transfer Template

