



Financière agricole du Québec  
Développement international

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**PROJECT NAME:**

**DIGITIZATION OF AGRICULTURAL PLOT LIMITS**

**PROJECT MANAGER:**  
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**PROJECT NUMBER:**  
QUBC-08012

**ASSOCIATES:**  
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**COUNTRY:** Canada      **STUDY ZONE:** Québec

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**PROJECT DESCRIPTION:**

Numerous crop insurance programs are based on a crop declaration made by a producer for plots of agricultural land, the area of which is known. The measurement of these areas is done by computer assisted measuring. This operation consists in entering the limits of agricultural plots of land on the basis of aerial photographs. The measurement operation is supported by experts from the Financière agricole du Québec. The use of computer assisted measurements allows measuring area ten times quicker than using pedometers or a GPS in a field. Measurements are of a much greater precision and they are entered in a centralized database. Following the implementation of this method, digitization began, allowing to progressively enter the contours of agricultural plots of land. This operation required training technicians in digitization methods. Area measurement also allows associating agricultural producers with the plots of land they cultivate. All these operations allow entering information for 27 hectares of land per hour on average. In all, more than 500,000 fields have been referenced in databases to allow insuring 1,460,000 hectares of land.

**ACHIEVEMENTS:**

- ⊕ Definition of needs
- ⊕ Design of systems architecture
- ⊕ Drafting functional files
- ⊕ Programming components
- ⊕ Conducting trials
- ⊕ Drafting user manuals
- ⊕ User training
- ⊕ Production
- ⊕ User support