



FIG Commission 7 Annual Meeting 2019  
5-9 August 2019, Seoul, Republic of Korea

# CHOOSING PRECISION BASED ON THE AIMED OBJECTIVE; The experience of the Reform of the Québec Cadastre



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CANADA**



# QUÉBEC, CANADA

## PROVINCE OF QUEBEC



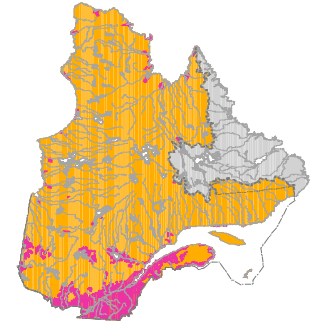
1,7 millions km<sup>2</sup>

8,2 millions inhabitants

3,8 millions properties

French speaking

Civil Code of Quebec



92% Public Territory

8% Private Territory

*Rest of Canada: English speaking and Common Law*





- Land tenure and cadastre
- Project management
- Geomatics
- Geodesy and georeferencing
- Data-collection (Drone, LiDAR, GPS...)
- Photogrammetric plotting
- Bathymetry
- 3D Modelling and volumetry
- Training and consulting services
- Construction surveying
- **CADASTRAL RENEWAL OPERATION**



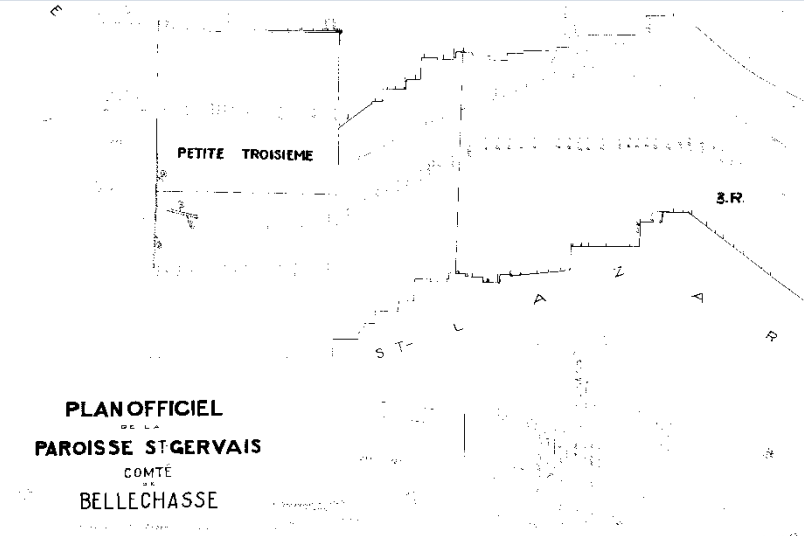


# THE DECISION TO RENEW THE CADASRE

- Based on the representation from the 19th century
- No overall plan
- On paper
- Large number of registration anomalies :

750 000 lot descriptions that contain inaccuracies  
850 000 properties not currently shown on the cadastral plan

Les than 50% of the territory was adequately represented



LIVRE DE RENVOI  
OFFICIEL

N° ET DESCRIPTION	DESCRIPTION GENERALE	REMARQUES
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172		
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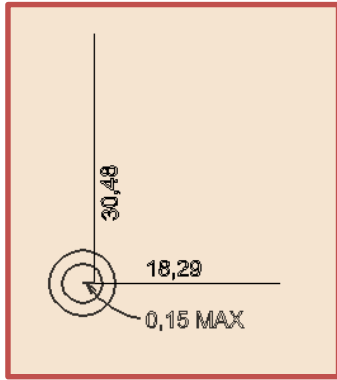
# THE QUESTION...



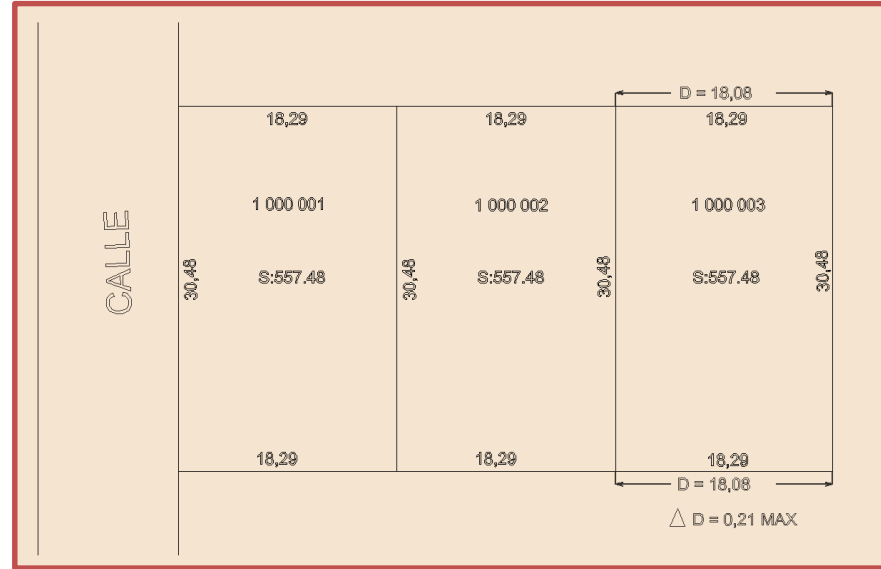
**Nowadays, working tools and know-how allow land surveyors to easily reach precision of a few centimeters. This level of precision being within their grasp; why they would do without it .**



# THE PRECISION IN URBAN ZONING



Position:  
1 point / 3 parcels  
15 cm



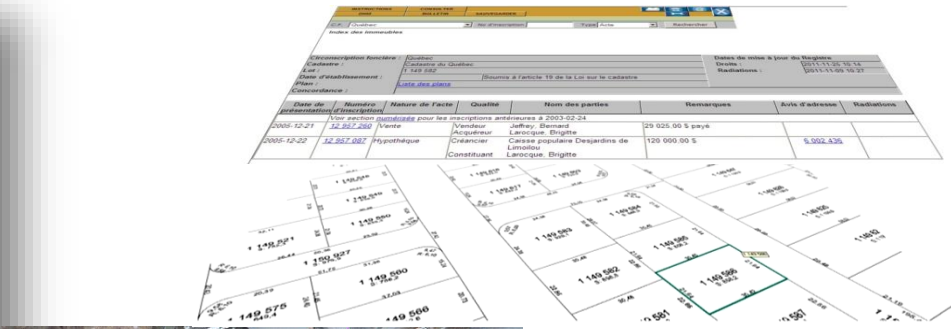
Graphic Tolerance : 21cm

Process of  
continual  
improvement...





# THE REFORM OF THE QUEBEC CADASTRE





# THE GOALS OF THE REFORM PROGRAM

1. To build up a complete and accurate picture of land subdivisions
2. To ensure that the cadastre is updated constantly
3. To transform the cadastre into a versatile tool that can be used in conjunction with other theme-based maps

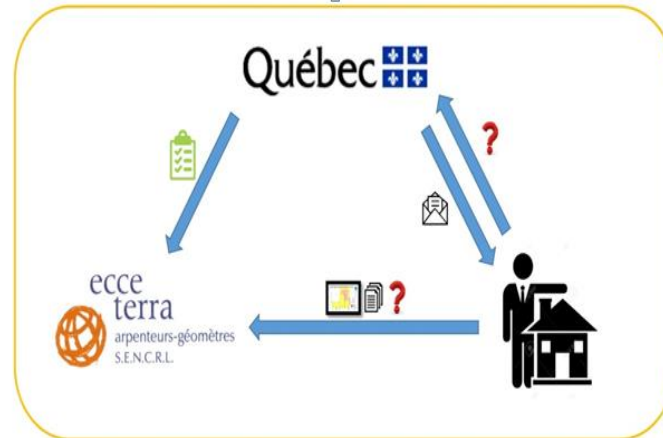






# PRECISION VS QUALITY

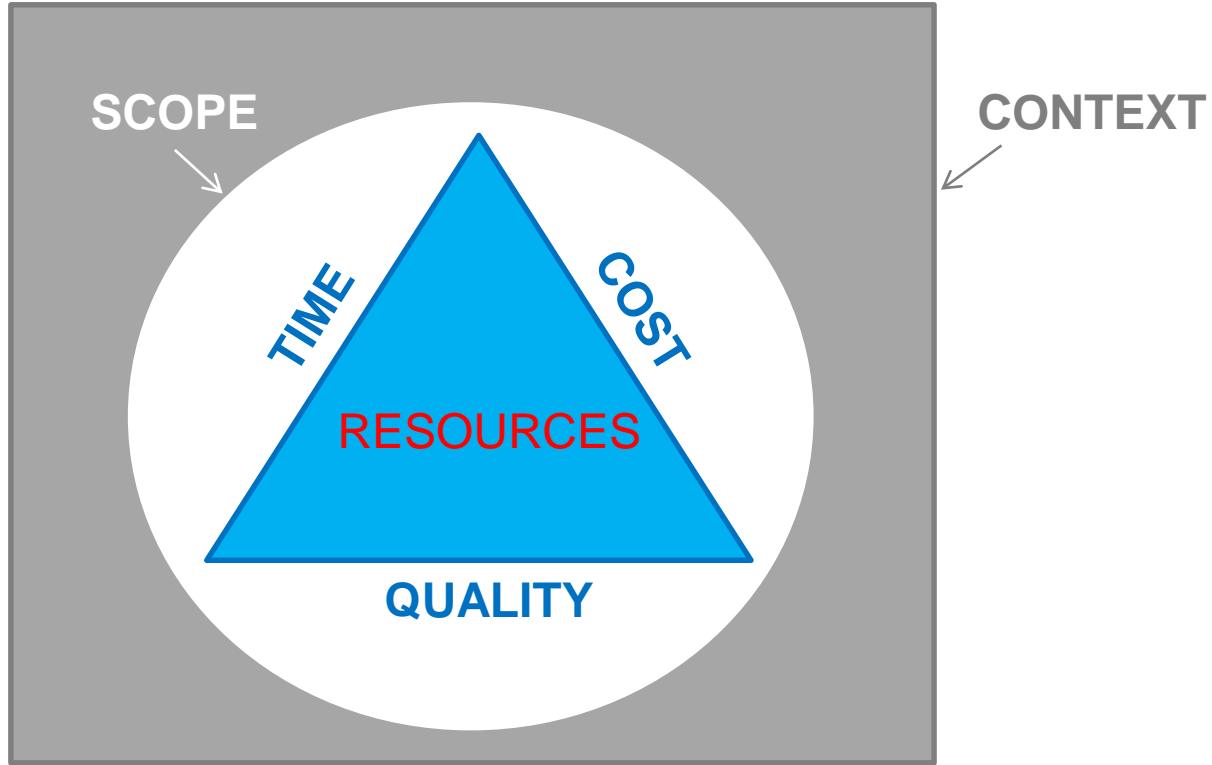
- ✓ Methodology
- ✓ Quality control
- ✓ Resources
- ✓ Budget
- ✓ Delay
- ✓ Consultation activities



...A cooperative project



# PROJECT MANAGEMENT CONCEPT





# INVITATION



**QUÉBEC 2007**  
HISTOIRE DE VOIR LE MONDE

LE GÉOCONGRÈS INTERNATIONAL  
2 AU 5 OCTOBRE



**GÉOCONGRÈS 2014**  
**REVOIR NOTRE MONDE**

CONFÉRENCE INTERNATIONALE  
DU 7 AU 11 OCTOBRE  
QUÉBEC, CANADA



**GEOCONFERENCE 2021**  
**ÉCHANGER AVEC LE MONDE**

INTERNATIONAL CONFERENCE  
OCTOBER 25 - 27  
QUÉBEC, CANADA