

# Ministry of Transportation in Quebec Goes Digital for Their Engineering Drawings and Plans



The **Ministry of Transport, Sustainable Mobility and Transport Electrification** of Quebec is responsible for roadwork infrastructure and represents the largest employer for engineers within the provincial government.

They have been leveraging Notarius' technology since 2010 and thus, driving innovation by successfully making the digital transition for their engineering plans and drawings.

## Key Motivations for MTQ in Migrating From Paper to Electronic Authentication

- Work with the consulting engineering association to meet their requirements regarding the reduction of time to market for public tendering of projects. Members complained that paper tendering process could take several months to publish. The goal was to cut that time in half.
- Secondly, improving archiving and document management practices. Paper archiving does not scale well and when an agency must manage over 35,000 documents per year, this can present a challenge if drawings are paper based.
- Thirdly, implement digital signatures to comply with engineering association requirements regarding digital authentication of engineering originals.



## Challenges

- Work through digital workflow
- Establish standard digital quality control processes



## Quick History

2005	Orientation study
2006	Experiment with digital signature
2007	Write-up of business case
2007	Process definition for drawings and tendering
2008	Ask Government Treasury approval for use of digital signature
2009	Prepare pilot project site
2010	Internal approval of the <i>Ordre des ingénieurs du Québec's (OIQ)</i> digital seal and digital seal deployment
2013	Require all contractors to submit engineering documents electronically using online bid depository
2014	Evaluate needs to improve document management integration

## Results of the Pilot Project



EASY TO USE



MEETS ARCHIVING  
BEST PRACTICES

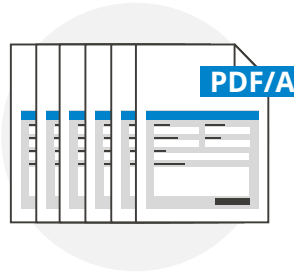


IMPROVED EFFICIENCY  
OF TIME AND LABOUR

## Savings



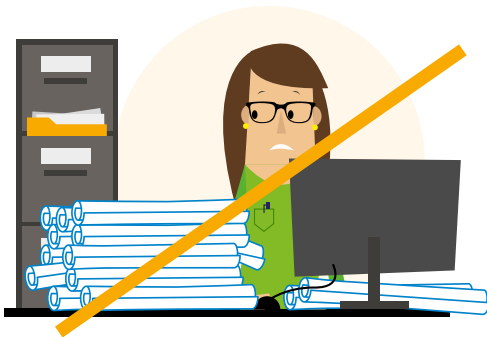
Significantly reduced delays to publish documents for tendering purposes



Creation of unique project files in a digital format



Printing copies for public tendering



Eliminated many activities associated with the manipulation or treatment of paper documents in the document management system

more than

**35,000**

scanned documents  
in 2008–2009

more than

**60,000**

photocopies  
in 2008–2009

## Next Steps

- ➔ Generalizing the adoption of digitally sealed engineering drawings and plans in PDF/A-3 format with native AutoCAD or BIM Files embedded.
- ➔ Expand the use of Trusted Electronic and Digital Signatures to other types of documents in the Ministry.



**For More Information**

notarius.com | 1-888-588-0011 | info@notarius.com



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