Information Sharing Techniques and Platforms

for Right Of Way Management

Presented by the OPWA ROW Management Data Intelligence and Information Sharing Subcommittee

Agenda

- Introductions
- Technology Updates
- Impacts of a Virtual Workplace - Access to Information
- Public & Private Utility Perspectives
- Industry Trends
- Future Directions

Introductions - Who We Are

- Data Intelligence and Information Sharing Subcommittee
- Comprised of Public and Private Industry professionals
- Many (Many) years of experience between us
- Variety of backgrounds and disciplines
- Members:

Chris Gill	Bell Canada
Praful Mistry	C/o Richmond Hill
Steve Dearborn	C/o Markham
Fadwa Samara	Metrolinx

David Gill	YNET, York Region
Shane MacDonald	YNET, York Region
Joe Scarcelli	C/o Hamilton

Technology Updates

- Current Trends - Go Digital as much as possible
- Web based platforms
- Draw from Single Source of Truth
- Encourage Accuracy
- Encourage Collaboration
- Encourage Sharing
- New Provincial Mandate: Building A Digital Ontario
  https://www.ontario.ca/page/building-digital-ontario

Virtual Workplace - Access to Information

Challenges and Victories of a Virtual Workplace

Flow of Paper based information

Access to paper records

Access to equipment (scanner/plotter)

Mail Delivery, Delayed etc.

Forced to become digital

Electronic Format & Delivery

Minimize Staff Time

Faster Turnaround to Field Operations

Perspectives from the Industry - Public

- Municipal race to Digitize, Obsolete Paper Map Drawer
- High effort to convert, manage, sustain - process driven
- High rewards for those in need of information
- GIS needs to reflect drawing - think about automation!

CENTRE STREET WEST
(Total **13** records)

Plan Name	Plan Type	P
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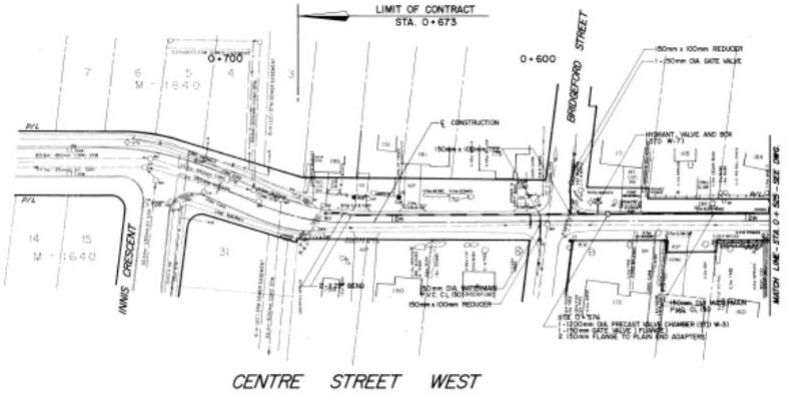
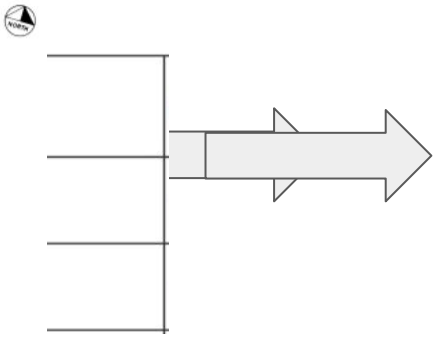
1754PP02.tif	Plan and Profile (PP)	C Se





Perspectives from the Industry - Utility

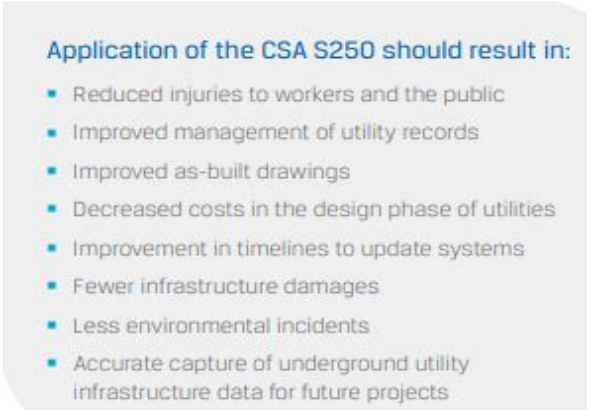
- A Balance must be found when it comes to record sharing and the competitive landscape that has to date, limited record sharing in the past between companies and road authorities.
- Moving forward, we need to be looking at a standard land-base approach where a universal system could be implemented
- Currently each utility has it own program that may or may not be interactive with CAD, or other software used by Road Authorities
- Utilities also face the enormous task of looking at archive records and getting them put into a new interactive base where they can be shared

Industry- Locates & Utilities - Record of Plant

- Locates are the most wide spread way in the field to show active utility plant - ensuring its updated to current in real time is the challenge.
- Previously the Utility relocation manual that was issued from another sub committee had some great ideas on the way the SUE information can be managed for specific projects.
- Guidelines for the Coordination of Utility Relocations
- Biggest question- who will be the keeper of the records ? How is it managed and how can access be scaled to appease a competitive structure between utilities?

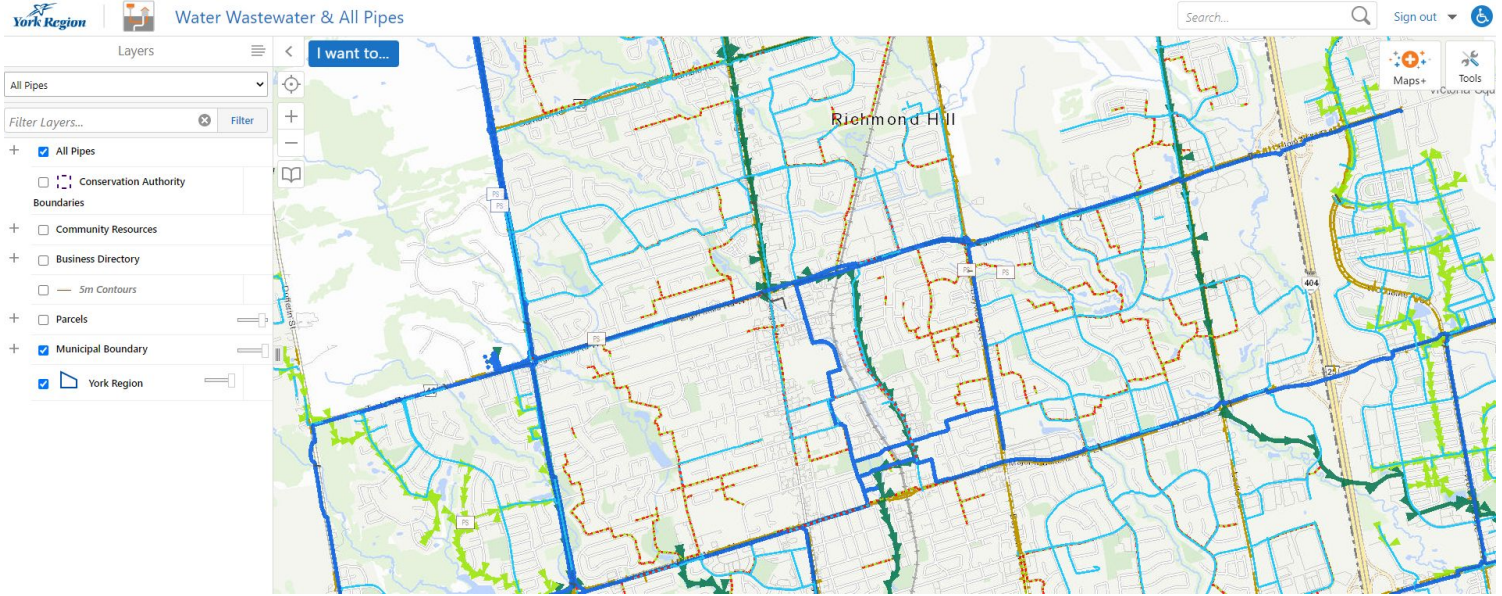
Moving Forward - Recent Industry Trends

- Ontario adopts policy to reduce underground utility risk on public construction projects through collaboration
- CSA S250 Mapping of Underground Utilities



Moving Forward - Recent Industry Trends

- Share and Collaborate
- Federated sharing model, like a peer to peer system



Future Directions

- Augmented & Virtual Reality is the new wave
- Take your data into the world in place
- Check out vGIS
- Check out FME AR

Questions?

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