



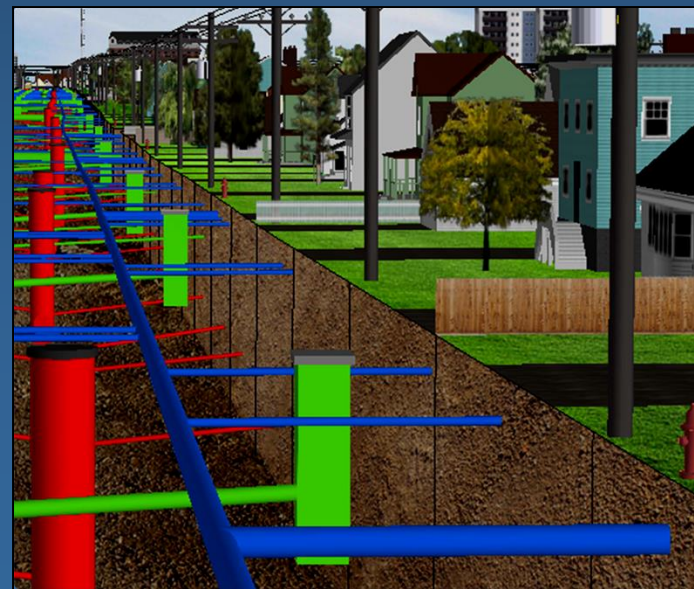
SAULT STE. MARIE **INNOVATION** CENTRE

Community Geomatics Centre



Sault Ste. Marie
Community Information
Utility

Paul Beach



::: Sault Ste. Marie Innovation Centre

The Sault Ste. Marie Innovation Centre (SSMIC) is a non-profit organization that involves key stakeholders including research & educational institutions, community partners, various levels of government and private industry.



SSMIC's mandate is to act as a catalyst for growth in the Information Technology Sector

∴ SSMIC Background

A catalyst for growth in the
Information Technology Sector

Business
Incubation

SME Support
Services

Market
Development
Projects
(GIS)

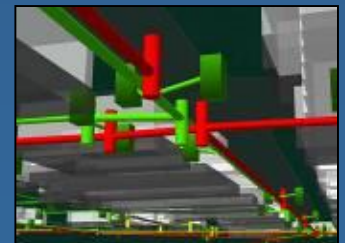


∴ Integrated Geomatics Solution (IGS)

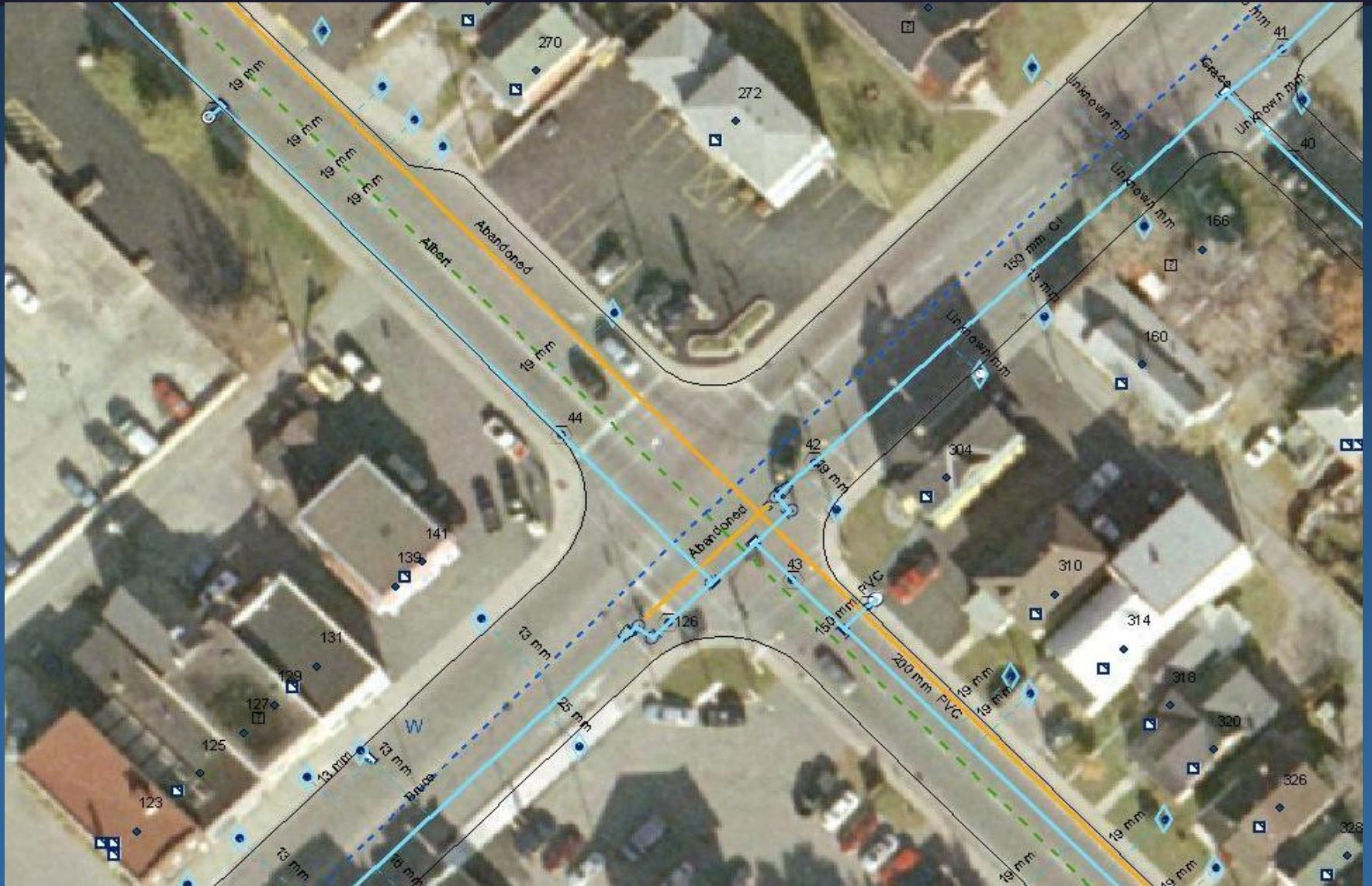
- Five year GIS Project (2000-2005)
- Combined City and PUC solution
- \$5,000,000 Project
- Complete GIS data capture and conversion
- Digital and paper documents captured and converted from engineering plans and service drawings
- Field verification
- Completed on schedule, scope and budget
- Phase 2,3 Contract – Maintenance / Customization (2005-2010) (2010-2015)

::: Data Layers

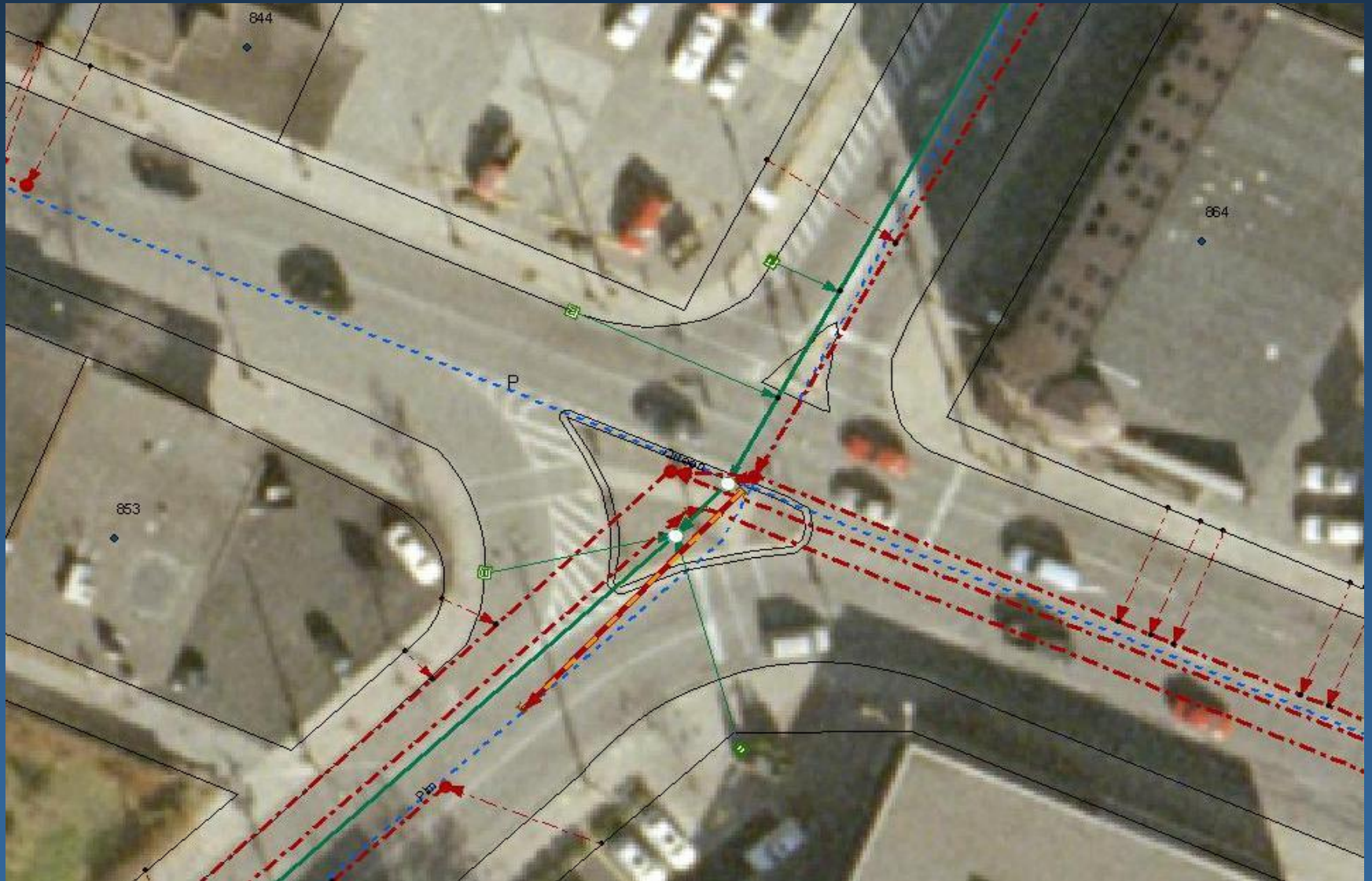
- Parcels
- Addressing
- Zoning
- Official Plan
- Water
- Wastewater
- Electric
- Telecom
- Transportation
- Orthophotography
- Tourism
- Parks
- Terrain
- Cultural / Heritage Features
- Buildings
- Parking Lots / Meters
- Businesses
- Census



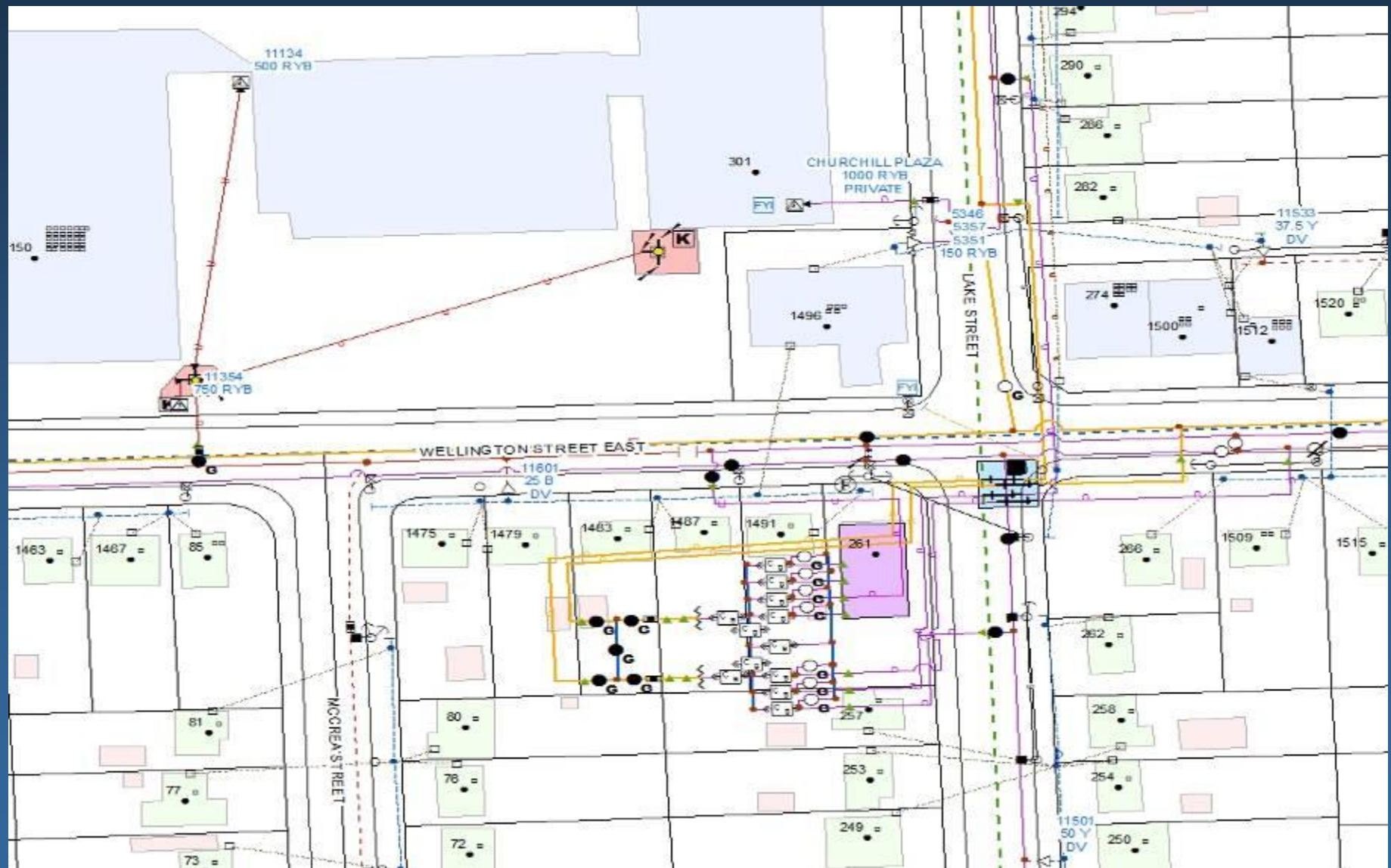
::: Water Data



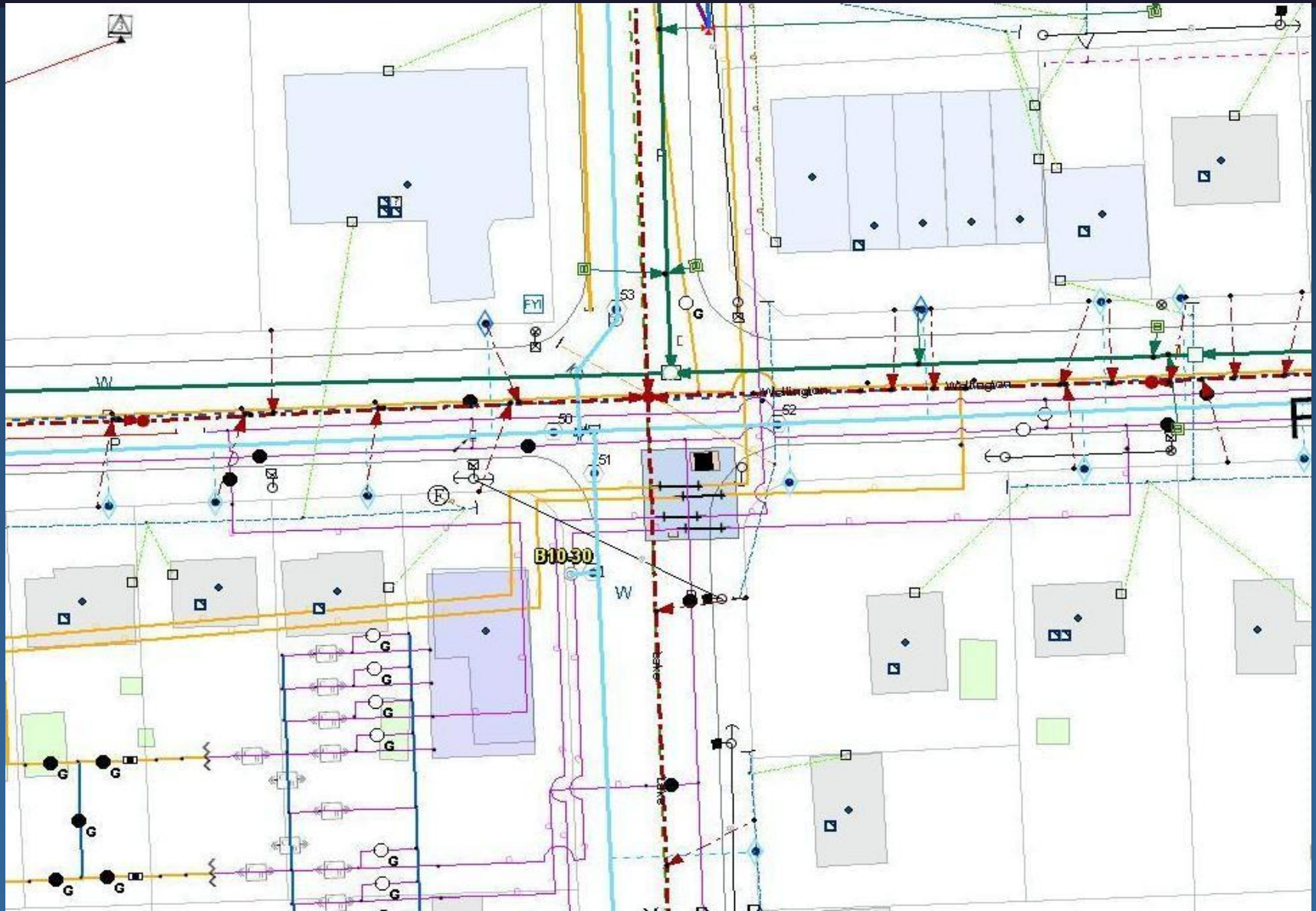
::: Wastewater Data



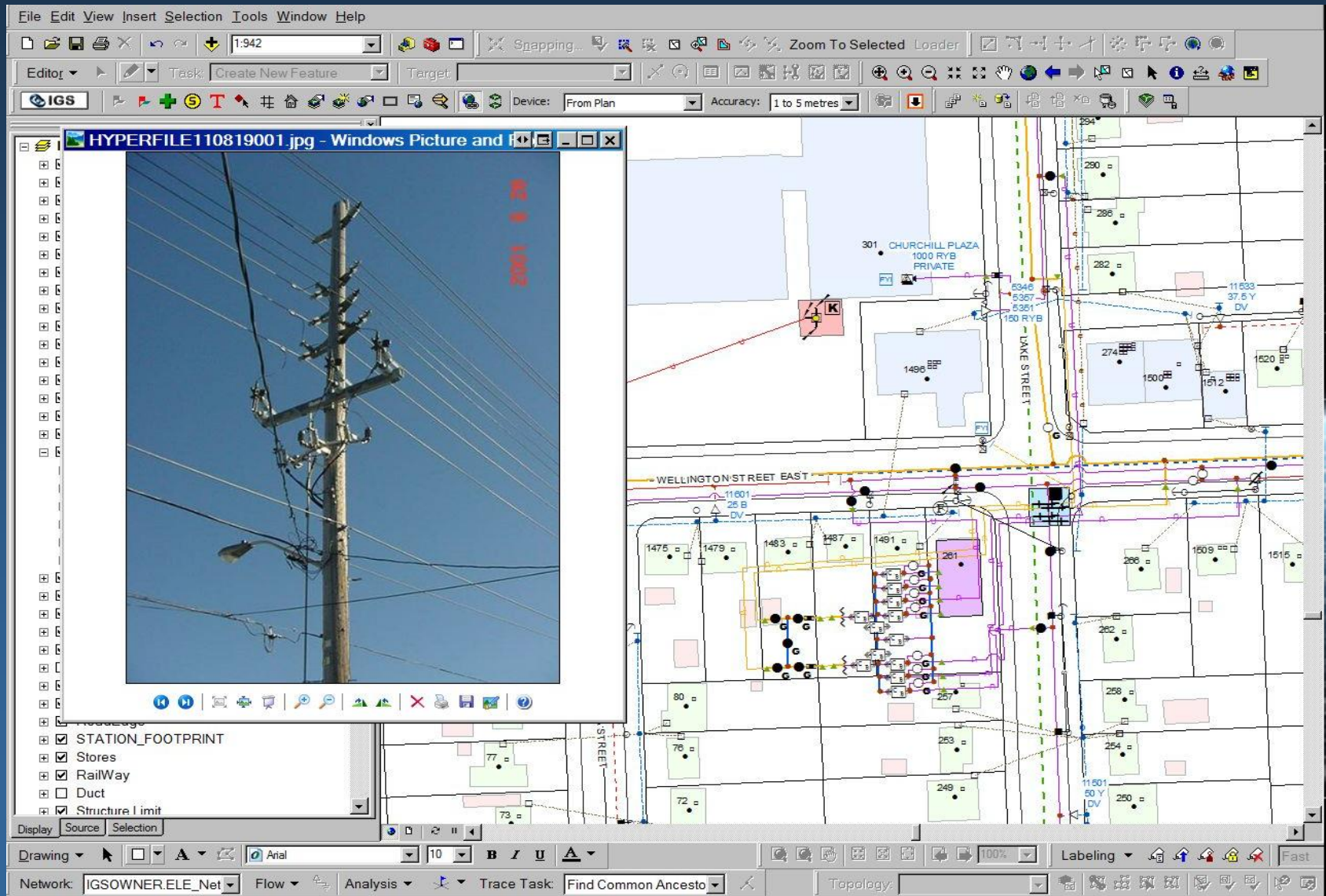
::: Electric Model



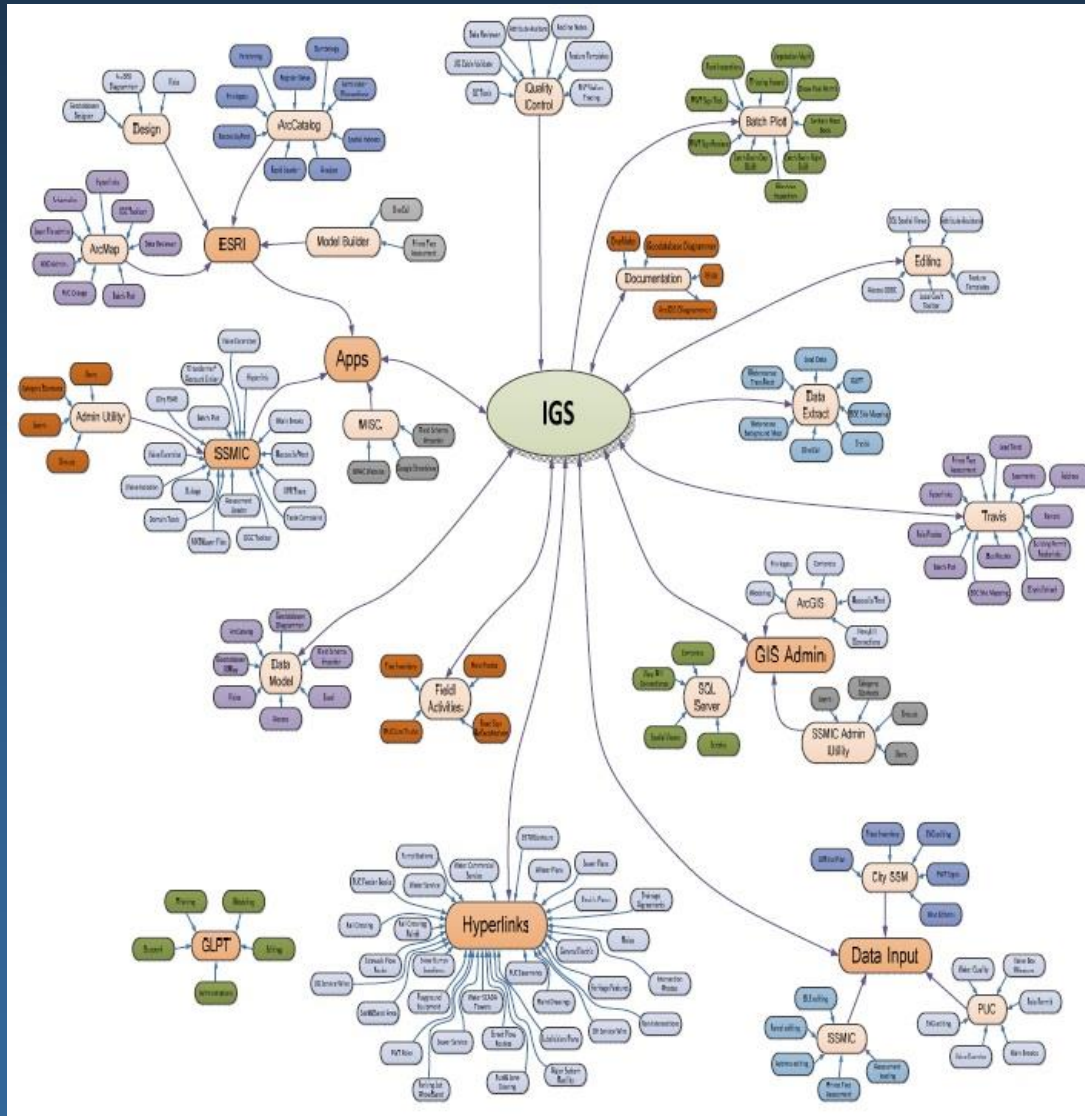
::: Water, Wastewater, Electric Data



::: Electric Model Hyperlinks



::: GIS Integration



::: Community Geomatics Centre

The CGC is unique in Canada, in that it functions as a not-for-profit organization to promote and establish the partnerships and technological means to efficiently share geospatial data, tools and knowledge amongst community organizations to create a safer, healthier and more prosperous community.



::: Staff

- Geomatics Centre Manager (1)
 - Municipal/Utilities Manager (1)
 - Health and Human Services Manager (1)
 - IT Manager (1)
 - Database Administrator (1)
 - Systems Administrators (2)
 - GIS Developers (6)
 - Health GIS Technician / Analysts (3)
 - Municipal/Utility GIS Technician/Analysts (2)
 - Vulnerable Persons Registry Coordinator (1)
 - 211 Administrator (1)
 - Triple P Coordinator (1)
-
- Geographic Information System Professionals (GISP) (9)
 - Staff Training In Epidemiology (PHAC) (5)

::: Awards and Publications

- **URISA 2015 Best Public Sector GIS in Ontario**
- **URISA 2012 Best Public Sector GIS in Ontario**
- **ESRI Canada 2012 Award of Excellence**
- **URISA 2012 Innovation in GIS Award**
- **URISA 2009 Best Public Sector GIS in Ontario**
- **ESRI Inc. 2008 Communication Award at GIS in Health Conference (Washington)**
- **ESRI Inc. 2007 Special Achievement Award in GIS (SAG)**
 - **International Award (Category: Public Health & Human Services)**
- **URISA 2006 Leadership in the Field of GIS**
- **URISA 2006 Best Municipal GIS Award**
- **ESRI Canada 2006 Award of Excellence**
- **URISA 2005 – Silver Award – GIS Leadership in Ontario**
- **SSM Police 2005 Award – Commitment to the Community**
- **URISA 2003 Best Municipal GIS Award**
- **ESRI Canada 2002 Business Partner Award**
- **Publications**
 - Municipal World
 - ESRI: Healthy GIS
 - Ontario Technologist
 - Ontario Professional Surveyor
 - ESRI ArcNorth News
 - URISA: Ontario Chapter
 - ESRI Calendar
 - MISA
 - GeoWorld
 - Advances in Disease Surveillance

∴ Success of the Community Approach

- **Designated as most comprehensive municipal/utilities GIS in Canada by ESRI (2003)**
- City review comparing the Sault to 10 other similar sized municipalities showed the Sault was lowest cost by 50% with at least 10 times as much to show for it. (2005)
- Stated by the Urban Institute of Canada as the first real “Information Utility” (2006)
- NGenera lists the Sault Community Geomatics Centre as the best example of leveraging public data for public good (2008)
- ESRI Canada (2008) states that SSMIC is leading the world in health geomatics
- ESRI Canada (2008) designates SSMIC as the first to create a holistic approach to community GIS
- **ESRI Inc. declares Sault Ste. Marie as most comprehensive community GIS in the world (2008)**
- U.S. Homeland Security (2009) refers to CGC as the ultimate information utility model to strive for



Doug Girvin - Stantive Technologies Group Wood Buffalo Shared Services Partnership Proposal 2011

“The CGC has compiled one of the world’s most complex and comprehensive GIS systems”

CFN Consultants Inc. Final Report Regarding the Feasibility Study for the Southwest Nova Scotia Community Information Utility 2011

“The closest ‘pure’ Community Information Utility (CIU) model that the Consultant Team was able to find in an extensive benchmarking and literature review process was the Sault Ste. Marie Innovation Centre development”

“The Sault Ste. Marie Innovation Centre is considered to be the definitive model of the CIU in Canada. With a history of more than a decade in operating this innovative Centre, Mr. Beach is considered to be an expert in the field and because of the leadership that he has shown in developing the CIU concept, he has become a noted authority on their development.”

“Over the past decade, the SSM CIU has been leading the country in respect to the novel application of the use of spatial data with advances in transportation management, natural and resource management, economic development, municipal governance and management, but, also, for the purpose of improving health and social services”

∴∴ Dollars Brought to the Community

- **\$17,000,000**
 - Project work outside of Sault Ste. Marie
 - Funding brought to Sault Ste. Marie
- **Excludes \$1,000,000,000 Renewal Energy Projects and \$16,000,000 BTCC Building**

∴ Economic Development

Renewable Energy Projects – 1 Billion Dollars

- POD Solar
- ELEMENTA – Energy from Waste
- Rooftop Solar
- Pond Biofuels
- Heliene Canada – Solar Panel Manufacturing
- Ellsin Environmental – Tire Recycling plant



POD Solar

- Province of Ontario introduces renewable energy incentives
- POD sends out information requests to many Ontario Municipalities
- EDC sends Information request to CGC.
- CGC responds in 2 hours with 6 sites meeting all criteria
- POD comes to the Sault
- POD gets approval on 4 Renewable Energy Standard Offer Contracts with the Ontario Power Authority (OPA)

::: Pod Generating Solar Farm

Pod Generating plans Canada's largest solar farm for Sault Ste. Marie (\$400 Million)



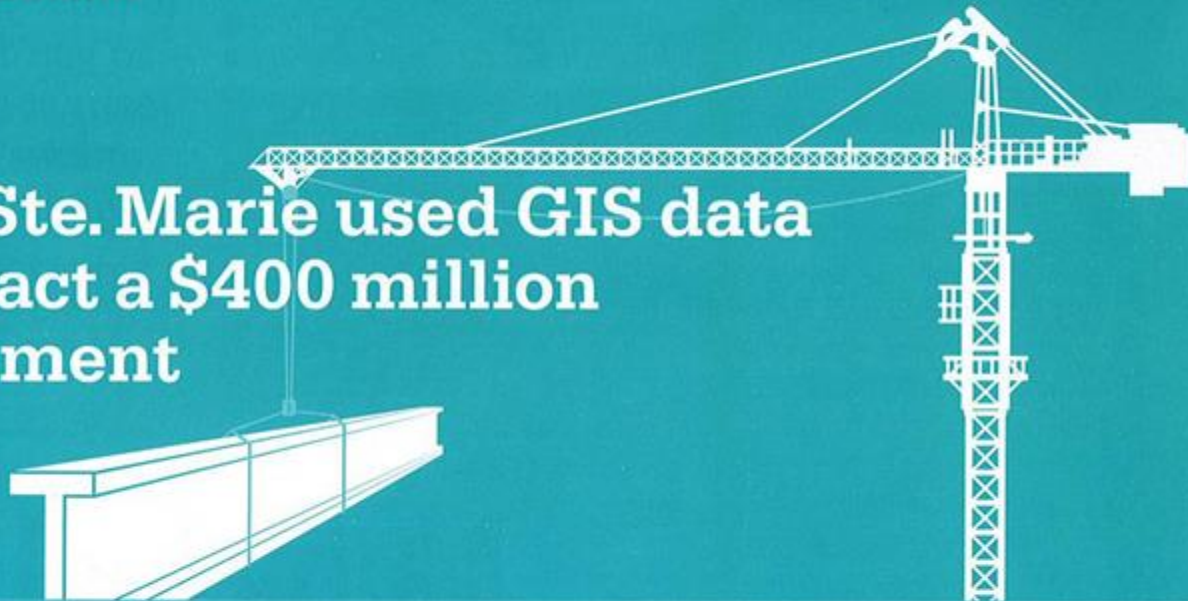
::: POD Solar – Municipal World June 2011



ESRI Canada

Solving problems

**Sault Ste. Marie used GIS data
to attract a \$400 million
investment**



→ Find out how
esricanada.com/SSM

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... Health and Human Service Partners



Algoma
PUBLIC HEALTH
Santé publique Algoma



GROUP
HEALTH
CENTRE



District of Sault Ste. Marie
Social Services Administration Board

ONTARIO WORKS

NORTHERN
POLICY INSTITUTE



Ontario
Early Years



Service
Canada



Understanding the Early
Years North



Northern Ontario
School of Medicine



Ontario
Early Years

Algoma-Manitoulin



SAULT AREA
HOSPITAL
HÔPITAL DE
SAULT-SAINTE-MARIE



Sault Ste. Marie
Public Library



camh

Centre for Addiction and Mental Health
Centre de toxicomanie et de santé mentale



Safeguard Independence
Award-Winning **Peace-of-Mind**
Helping **Safety** Community
Sault First-of-its-Kind **Preparedness**
VPR Emergencies



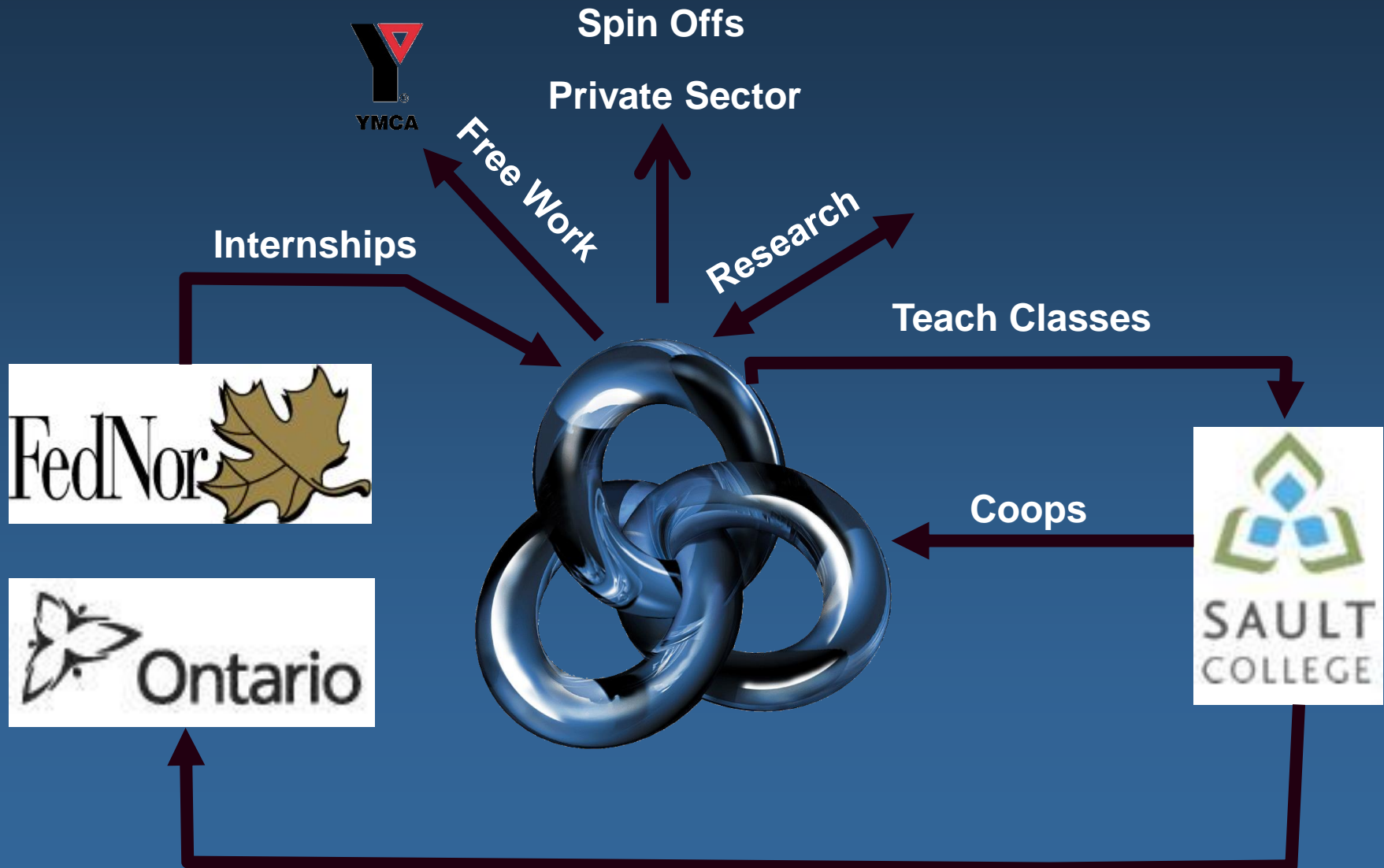


VPR COMPONENTS

- Power Outages
- Home Emergencies (9-1-1)
- Large-Scale Emergencies



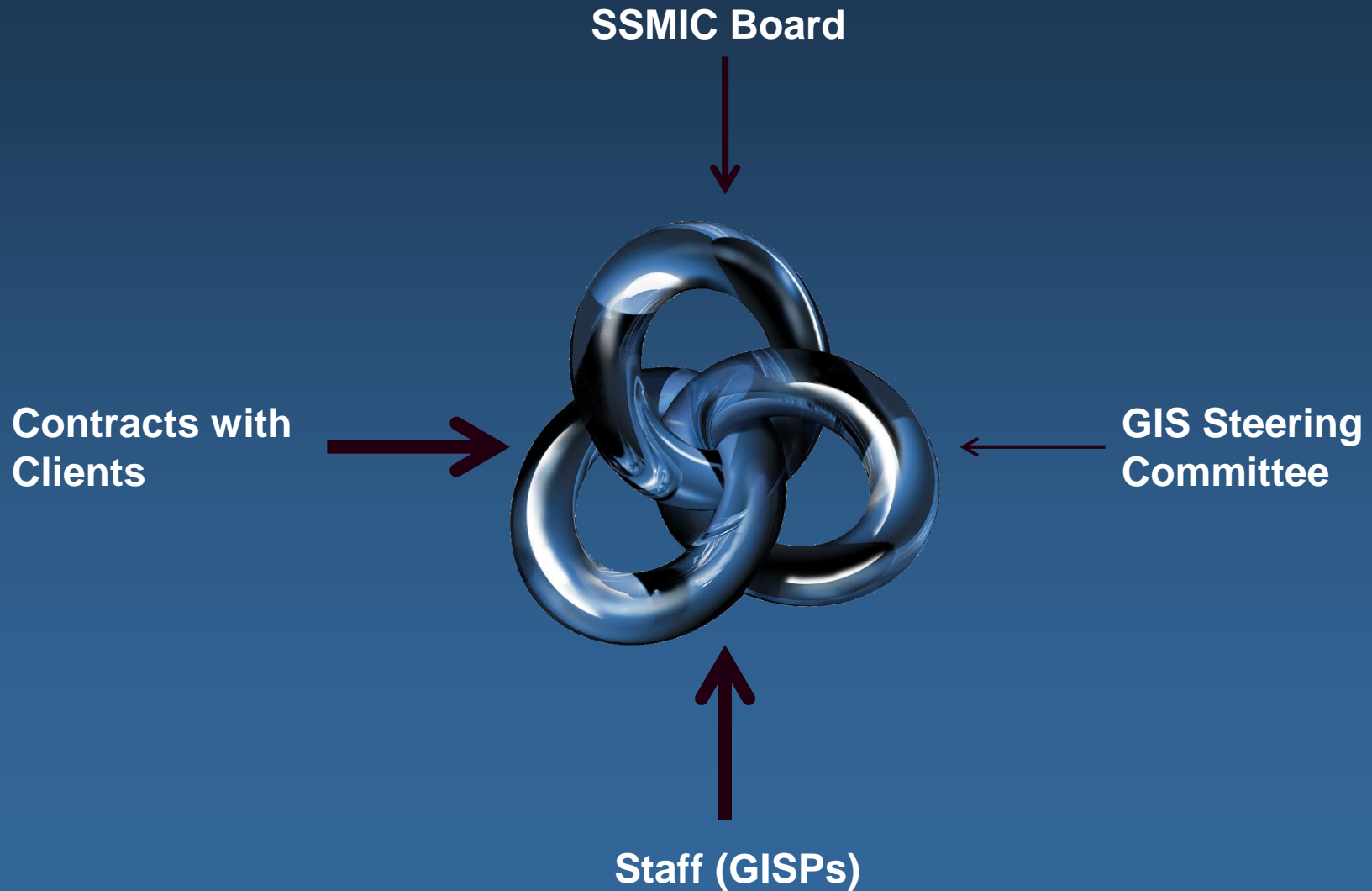
::: Operational Model



∴∴ Health and Social Service Mapping

- Ontario Works (Social Assistance)
- Children's Aid Caseload
- Birth Density
- Smoking during pregnancy
- Teen pregnancy
- Childhood injuries
- Domestic violence
- Library Usage
- Crime data
- United Way – Community Assistance Trust
 - Dental, rent, hydro
- Children's participation in sports and recreation
- Lead (Pb) and drinking water
- West Nile virus
- Ministry of Education - EDI and EQAO
- Statistics Canada Census and National Household Survey
- Child care / day care
- Triple P parenting
- Etc.

::: Governance



::: Functional Operation

- Fee for service contracts
 - Hardware and software, rent costs etc. are split
 - Work specific to a client is charged to the client
- Anchor clients – City and PUC
- I manage priorities on a day to day basis with no interference

::: Community Information Utilities

Community Information Utility

From Wikipedia, the free encyclopedia

A community based organization, governed by a public board, that provides essential information products and services to the public and other public service agencies. The City of **Sault Ste. Marie**, Ontario, Canada is recognized as the first Community Information Utility by the Canadian Urban Institute (2006). Between 2010 and 2015, Information Utilities were implemented in many communities throughout Ontario enabling the province to gain competitive advantage in world markets as a **smart region**. By 2020, Community Information Utilities were as prevalent throughout the world as traditional water and electric utilities.

::: Thank you



SAULT STE. MARIE
INNOVATION
CENTRE
Community Geomatics Centre

Paul Beach, Manager
Community Geomatics Centre
pbeach@ssmic.com
(705) 942-6938 ext. 3030