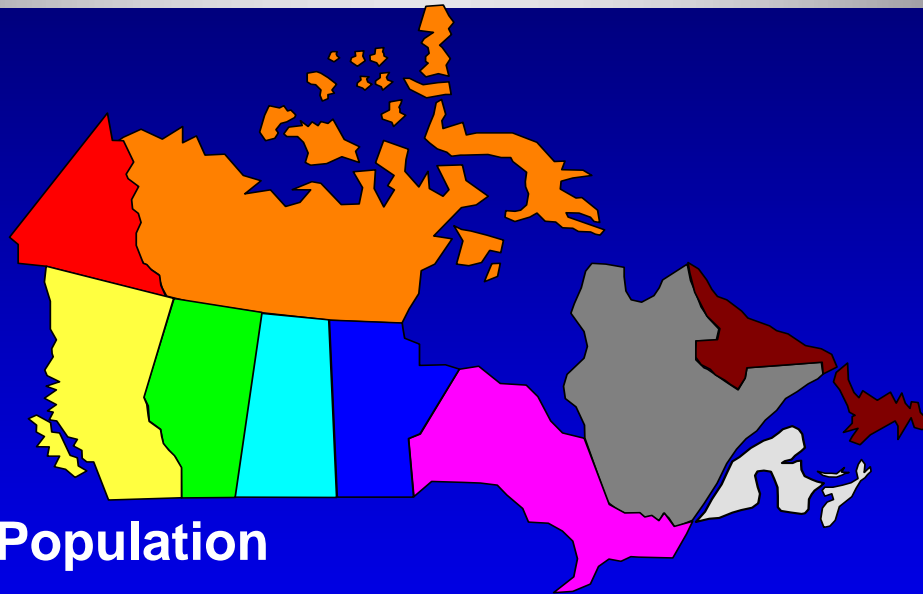# Saskatchewan's Emergency Response Mapping

Sask911 Mapping
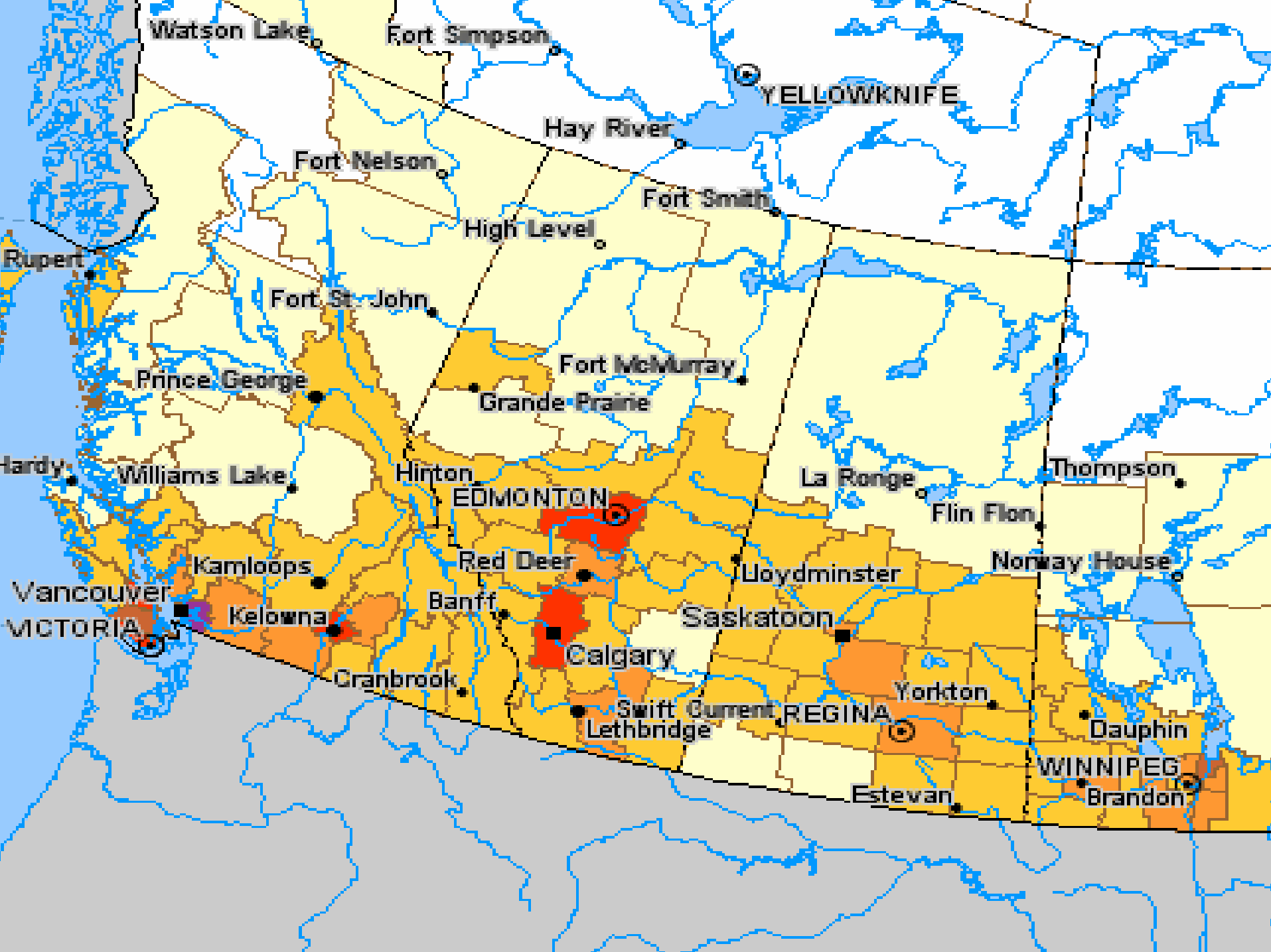
Finding Our Way

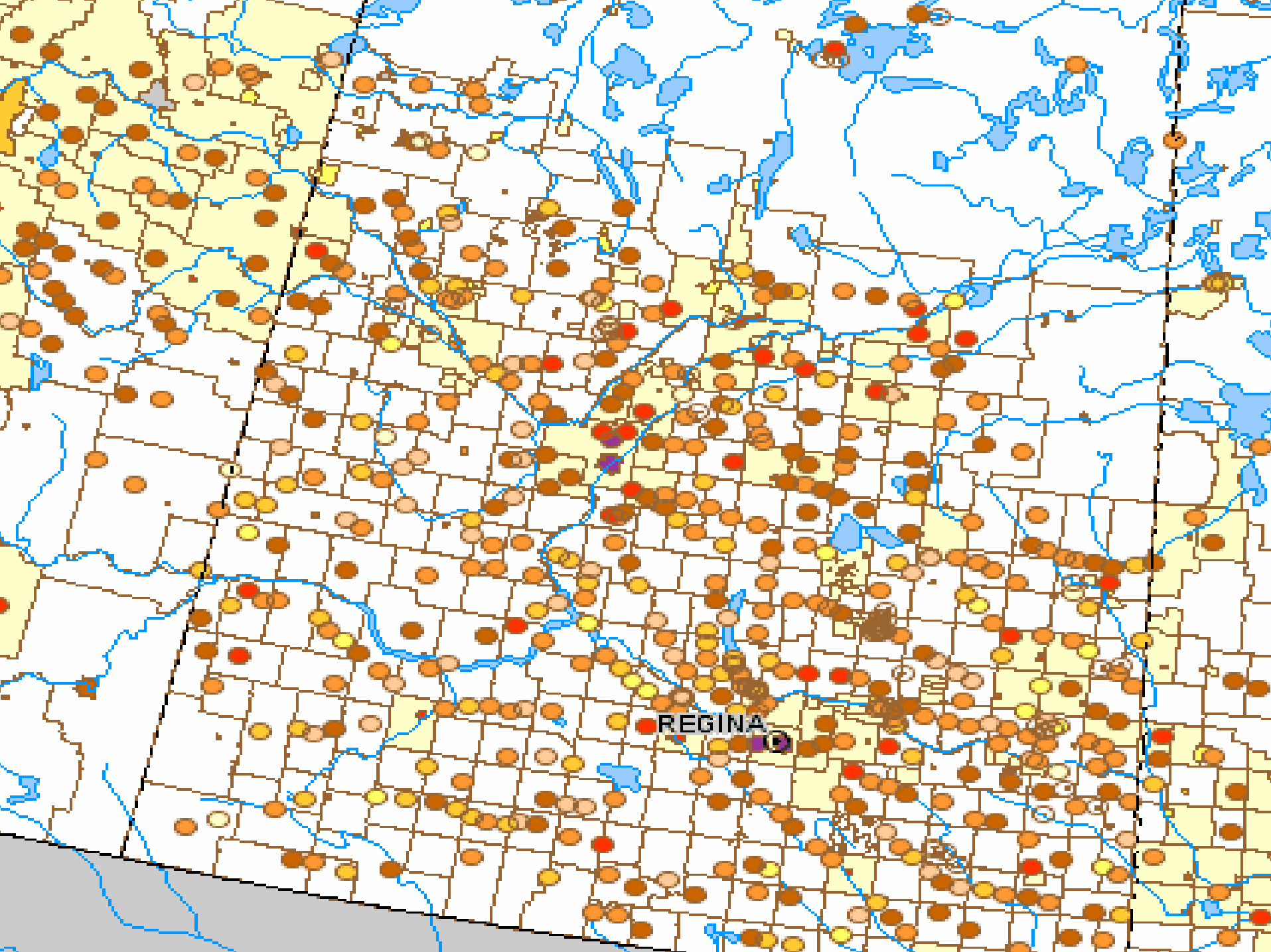# Saskatchewan: The challenge

* 1,000,000 Population

* 651,000 Square Km

* 13 Cities, >300 RMs, >550 Towns / Villages / IR

* 12 Regional Health Authorities

* 500 Service Providers

REGINA

SASKATCHEWAN PSAP REGIONAL SERVICE AREAS
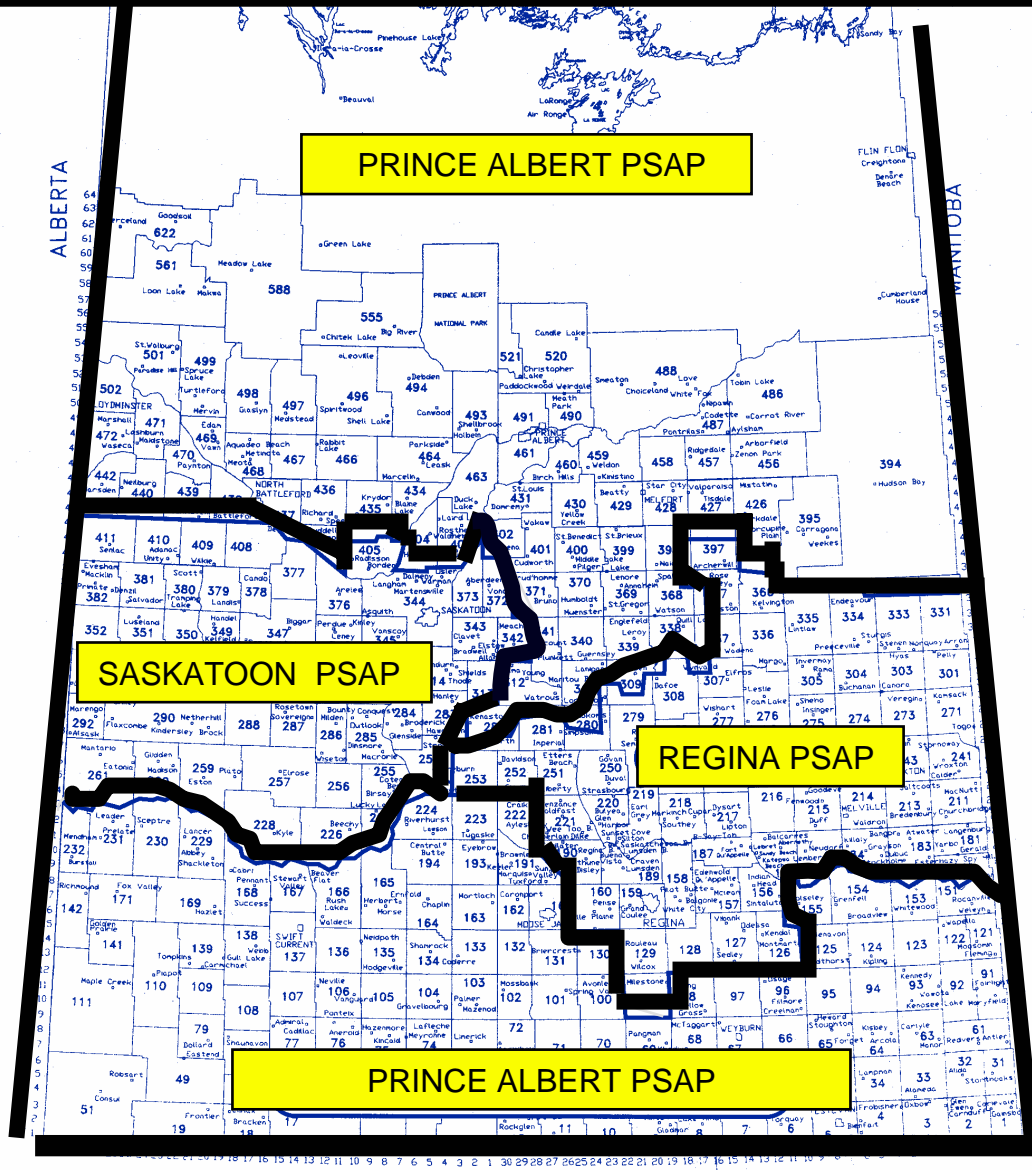
SASKATCHEWAN'S ENHANCED 9-1-1 SERVICE

SASK911
CALL-TAKING

EMERGENCY SERVICE DISPATCH

911 call → SASKTEL infrastructure

Voice

Data

PSAP

Voice

Data

Emergency Service Dispatch Centre
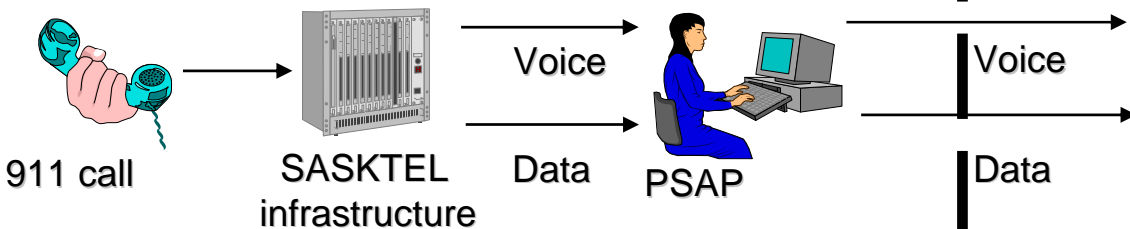
This portion of 9-1-1 service is defined by *The Emergency 911 System Act* and is the responsibility of SASK911 and the PSAPs
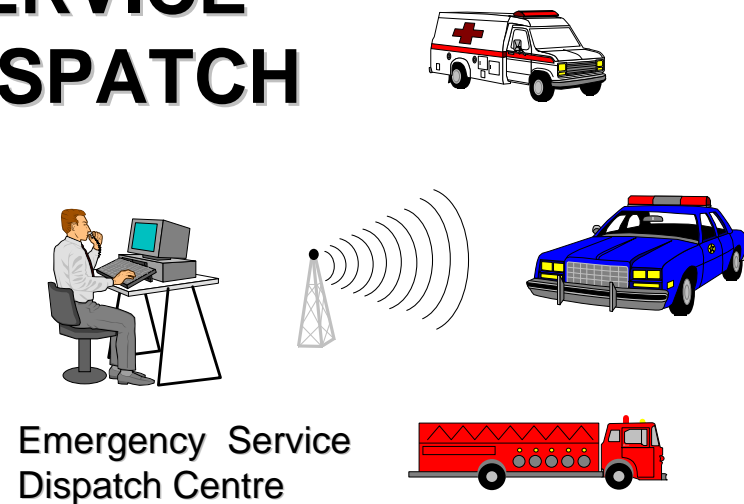
This portion of 9-1-1 service remains the local government and emergency service providers responsibility to co-ordinate and fund.

```
01/11/00 16:26:57.76        (306) 922-8355   Local Service Provider: SASKTL
                                             Service Class: 8FR

JAMES      MCKAY

         (appt #/location)
SE13
50-1-W3


PRINCE ALBERT          SK


TSRG: 00270            POLICE: 9-1-306-566-4973
                      FIRE: 9-953-4284
                      EMS: 9-953-9804




Session 8
```

Transfer 90% in 30 seconds

- ↗ Where is the caller?
- ↗ Where is the incident?
- ↗ What is happening?
- ↗ What response is needed?
- ↗ Where is the correct dispatch agency?

Dispatch 95% in 60 seconds

- ↗ What response is required?
- ↗ Where is the incident?
- ↗ Where is the closest responder?
- ↗ How long before the responder arrives?
- ↗ Does the responder know where to go?
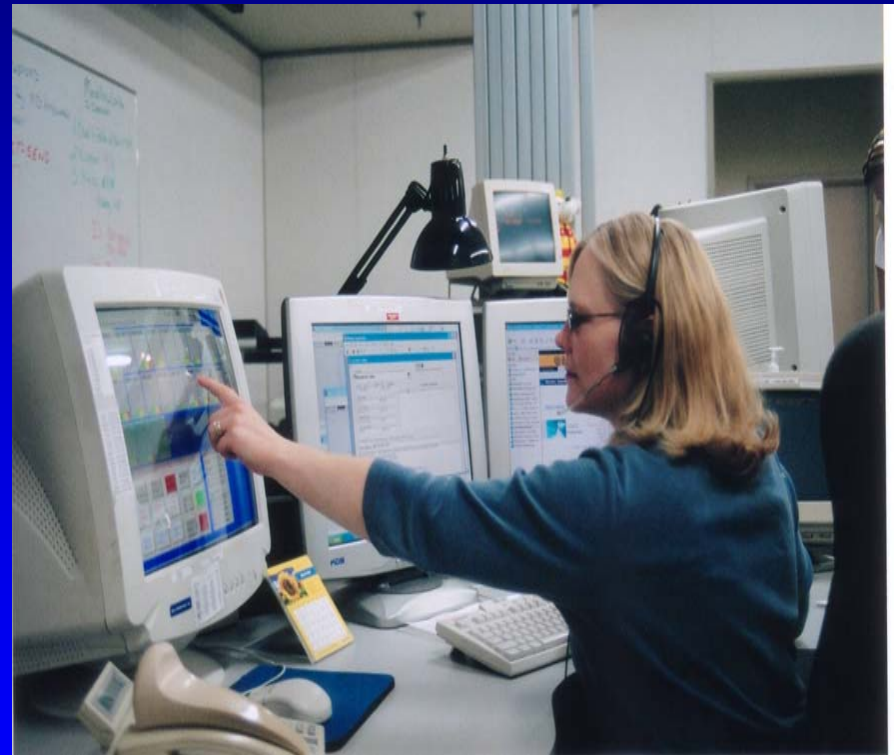
What Comes First the Chicken or the Egg?

- How to bring users and GIS folks together?
- What do you want? I don't know what do ya got?
- KISS
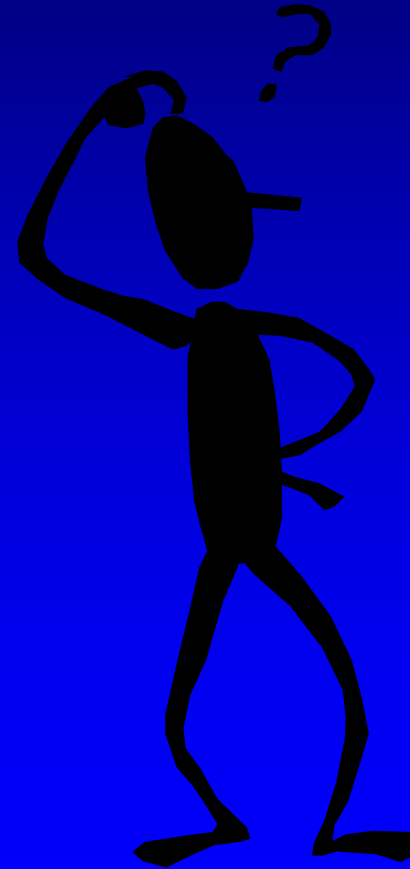
Learning the Lingo!

- ⊿ GIS
  - ⊿ Topo
  - ⊿ Cadastral
  - ⊿ Geodetic Control
  - ⊿ Rural Fabric
  - ⊿ Nad83
  - ⊿ UTM Extended Zone 13
  - ⊿ Digital Elevation Model

- ⊿ Emergency Services
  - ⊿ Emergency Response District.
  - ⊿ EMS, 1st Responder, EMT, BLS, ALS.
  - ⊿ Wildland, Structural, Defensive Fire Dept.
  - ⊿ Authority Having Jurisdiction.
  - ⊿ Mutual Aid Area

Keep it Simple …..

- Gather existing data from any source
- Gather new data
- Display information is familiar way
- Easy operation that anyone can learn
- Out of the box installation and setup
- Online or onboard
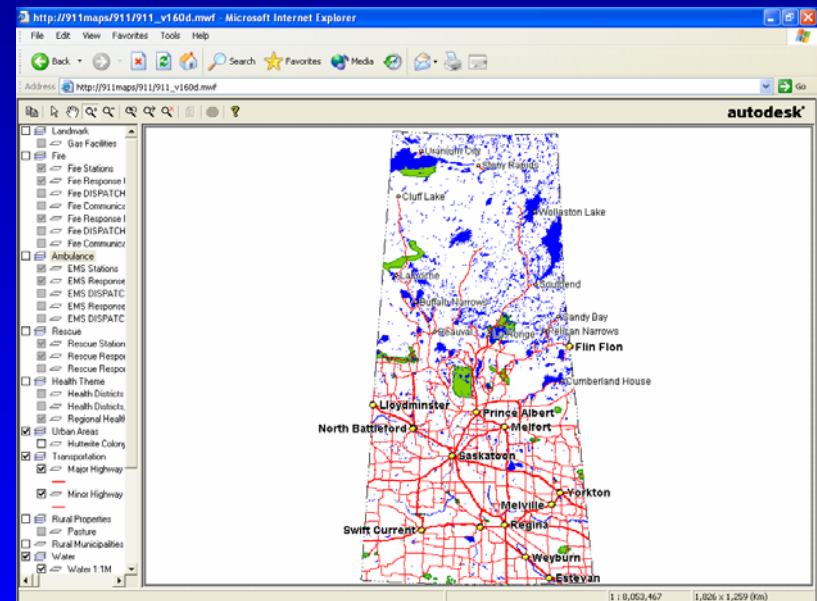
Emergency Services Data

- PSAP Boundaries
- Dispatch boundaries for EMS, Fire, Rescue
- Fire & EMS response boundaries
- Fire Station location
- EMS Base location

- Municipal boundaries
- Transportation
- Building locations
- Cities, Towns & Village locations
- Landmark locations
- Pipeline & oil well

File   Edit   View   Favorites   Tools   Help

Back   Search   Favorites   Media

Address http://911maps/911/911_v160d.mwf   Go

autodesk

- ☐ Landmark
  - ☐ Gas Facilities
- ☐ Fire
  - ☑ Fire Stations
  - ☑ Fire Response
  - ☐ Fire DISPATCH
  - ☑ Fire Communica
  - ☑ Fire Response
  - ☐ Fire DISPATCH
  - ☐ Fire Communica
- ☐ Ambulance
  - ☑ EMS Stations
  - ☑ EMS Response
  - ☐ EMS DISPATC
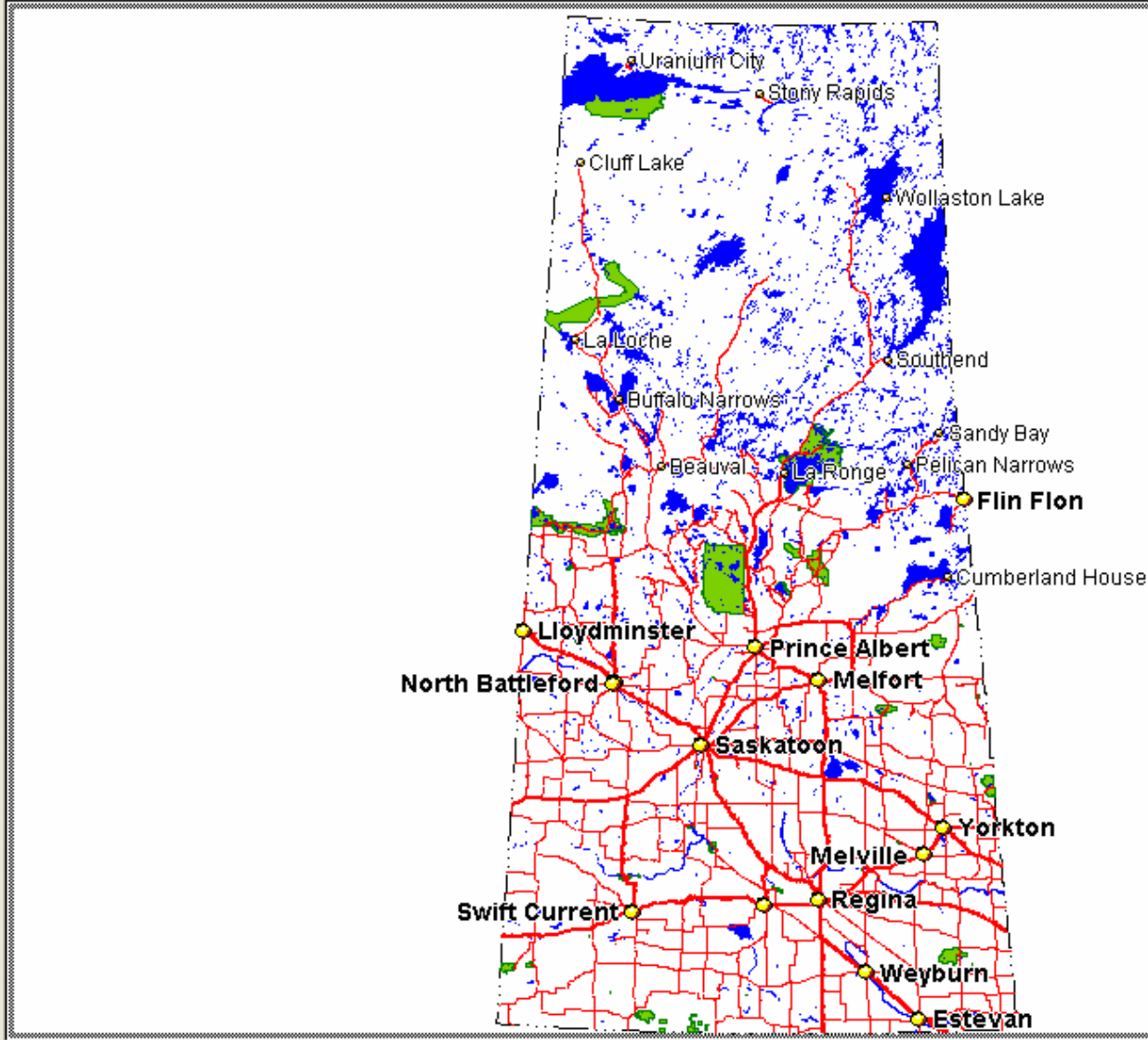 - ☐ EMS Response
  - ☐ EMS DISPATC
- ☐ Rescue
  - ☑ Rescue Station
  - ☐ Rescue Respor
  - ☐ Rescue Respor
- ☐ Health Theme
  - ☐ Health Districts
  - ☐ Health Districts
  - ☑ Regional Health
- ☑ Urban Areas
  - ☐ Hutterite Colony
- ☑ Transportation
  - ☑ Major Highway
  - ━━
  - ☑ Minor Highway
  - ──
- ☐ Rural Properties
  - ☐ Pasture
  - ☐ Rural Municipalities
- ☑ Water
  - ☑ Water 1:1M

Uranium City
Stony Rapids
Cluff Lake
Wollaston Lake
La Loche
Southend
Buffalo Narrows
Sandy Bay
Beauval   La Ronge   Pelican Narrows
Flin Flon
Cumberland House
Lloydminster   **Prince Albert**
North Battleford   **Melfort**
Saskatoon
Yorkton
Melville
Swift Current   **Regina**
Weyburn
Estevan

1 : 8,053,467   1,826 x 1,259 (Km)

File   Edit   View   Favorites   Tools   Help

Back | Search   Favorites   Media

Address   http://911maps/911/911_v201.mwf   Go   Links »
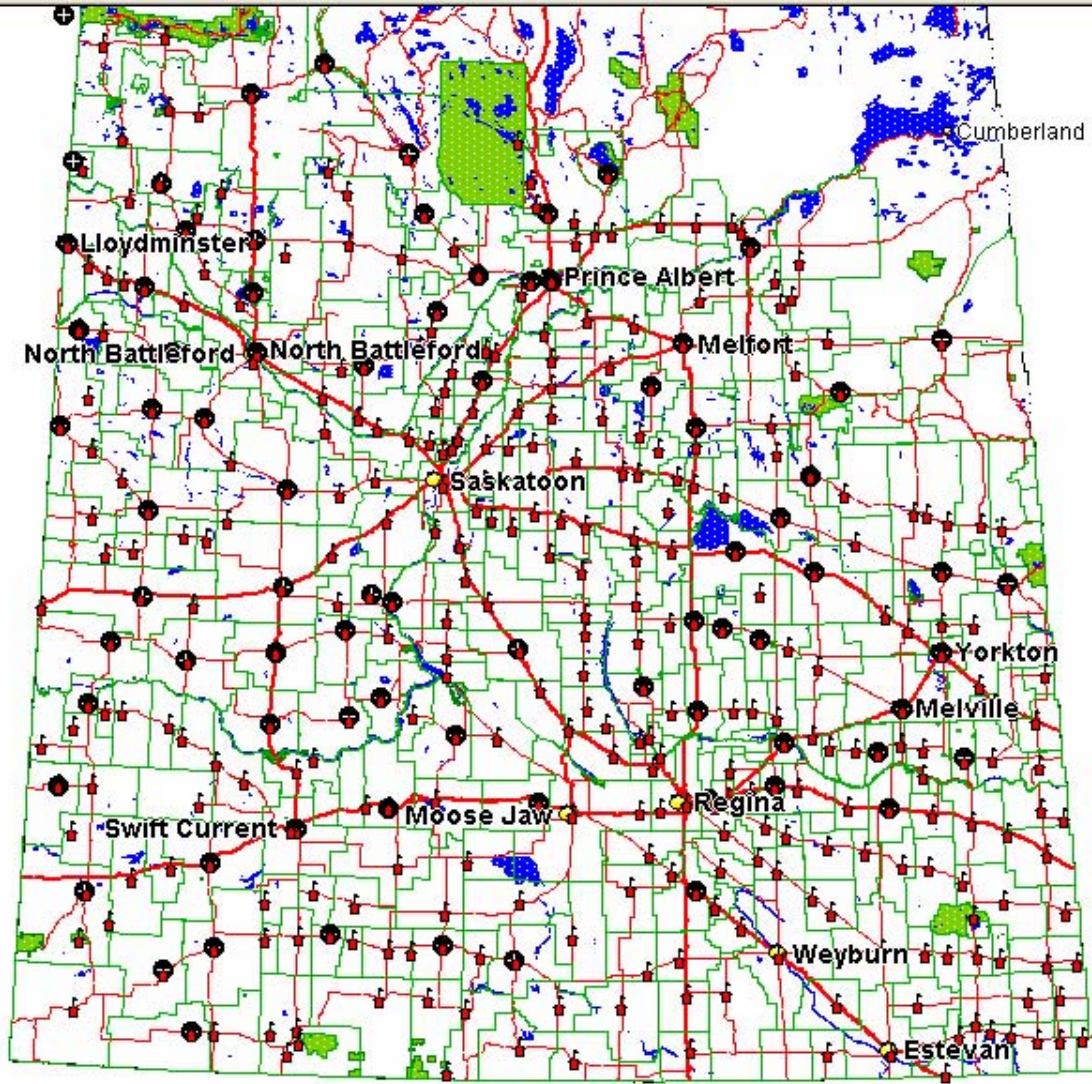
autodesk

- Landmark
  - Gas Facilities
- Fire
  - Fire Stations
  - Fire Response
  - Fire DISPATCH
  - Fire Communica
  - Fire Response
  - Fire DISPATCH
  - Fire Communica
- Ambulance
  - EMS Stations
  - EMS Response
  - EMS DISPATC
  - EMS Response
  - EMS DISPATC
- Rescue
  - Rescue Station
  - Rescue Respor
  - Rescue Respor
- Health Theme
  - Health Districts
  - Health Districts
  - Regional Health
- Urban Areas
  - Hutterite Colony
- Transportation
  - Major Highway
  - Minor Highway
- Rural Properties
  - Pasture
- Rural Municipalities
- Water
  - Water 1:1M

Uranium City
Stony Rapids
Cluff Lake
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Flin Flon
Cumberland House
Lloydminster
Prince Albert
North Battleford   Melfort
Saskatoon
Yorkton
Melville
Swift Current   Regina
Weyburn
Estevan

Lat: 53.952374, Lon: -93.551763 | 1 : 8,053,467 | 1,135 x 783 (mi)

File   Edit   View   Favorites   Tools   Help

Back   Search   Favorites   Media

Address   http://911maps/911/911_v201.mwf   Go   Links
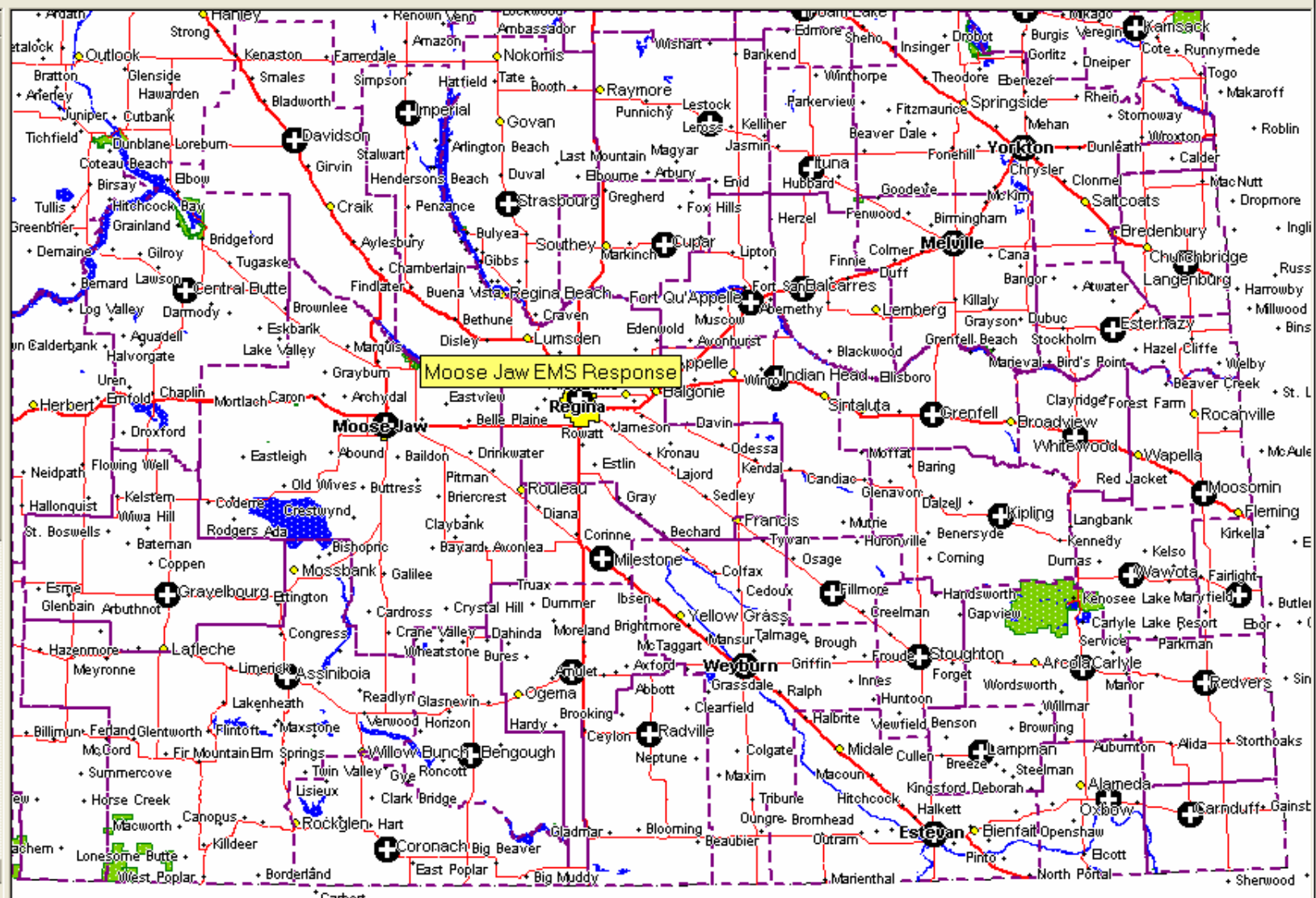
autodesk

Landmark
☐ Gas Facilities
☑ Fire
  ☑ Fire Stations
  ☑ Fire Response
  ☐ Fire DISPATCH
  ☐ Fire Communica
  ☐ Fire Response
  ☐ Fire DISPATCH
  ☐ Fire Communica
☑ Ambulance
  ☐ EMS Stations
  ☐ EMS Response
  ☐ EMS DISPATC
  ☐ EMS Response
  ☐ EMS DISPATC
☑ Rescue
  ☑ Rescue Station
  ☐ Rescue Respor
  ☐ Rescue Respor
☐ Health Theme
  ☐ Health Districts
  ☐ Health Districts
  ☑ Regional Health
☑ Urban Areas
  ☐ Hutterite Colony
☑ Transportation
  ☑ Major Highway
  ☑ Minor Highway
☐ Rural Properties
  ☐ Pasture

Cumberland House

Lloydminster
Prince Albert
North Battleford North Battleford
Melfort
Saskatoon
Yorkton
Melville
Swift Current Moose Jaw Regina
Weyburn
Estevan

1 : 4,128,642   936 x 646 (Km)

File   Edit   View   Favorites   Tools   Help

Back   Search   Favorites   Media

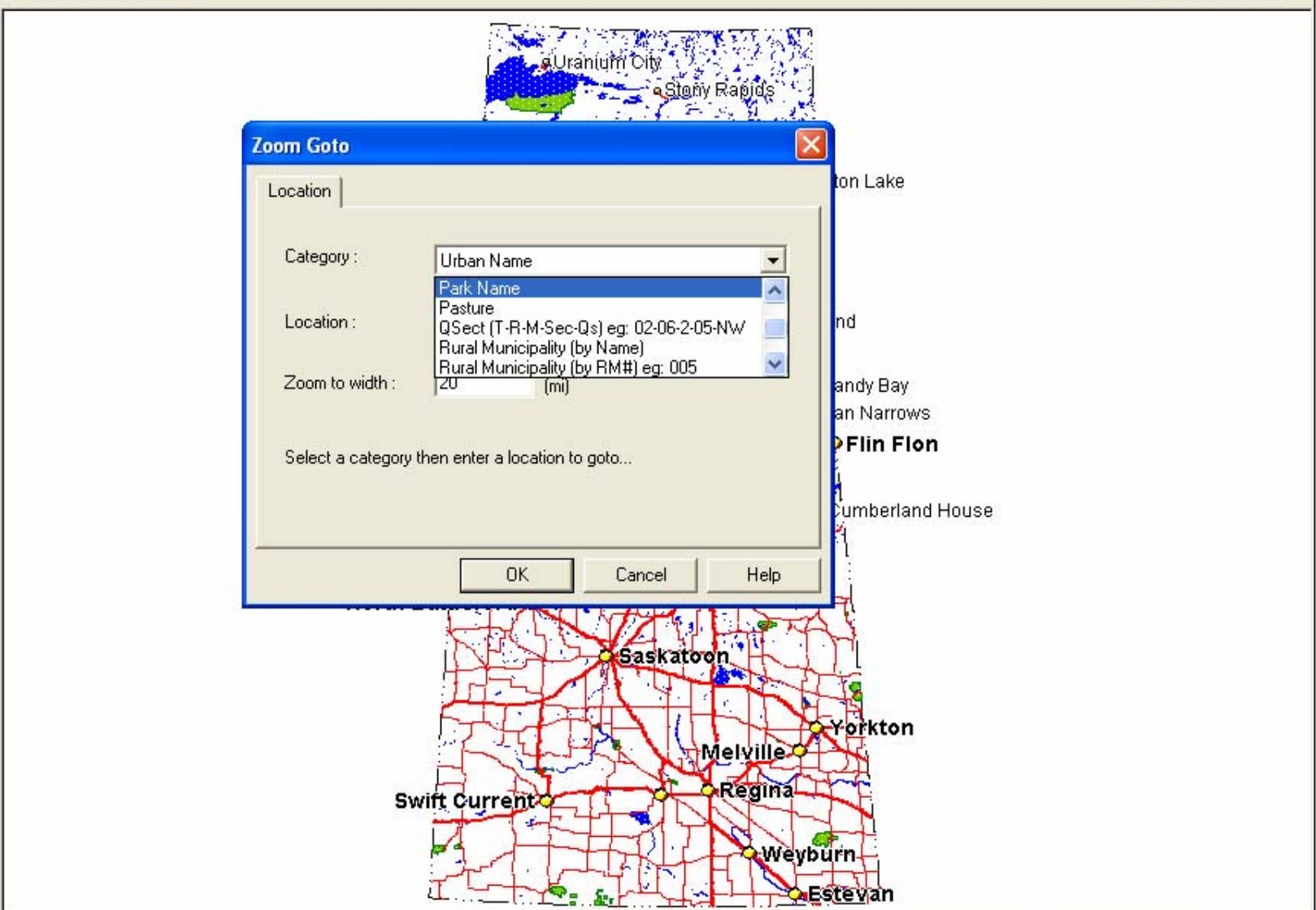Address http://911maps/911/911_v201.mwf   Go   Links

autodesk

Landmark
- Tower
- Gas Facilities

Fire
- Fire Stations
- Fire Response
- Fire DISPATCH
- Fire Communica
- Fire Response
- Fire DISPATCH
- Fire Communica

Ambulance
- EMS Stations
- EMS Response
- EMS DISPATC
- EMS Response
- EMS DISPATC

Rescue
- Rescue Station
- Rescue Respor
- Rescue Respor

Health Theme
- Hospitals
- Health Facilities
- Health Districts
- Health Districts
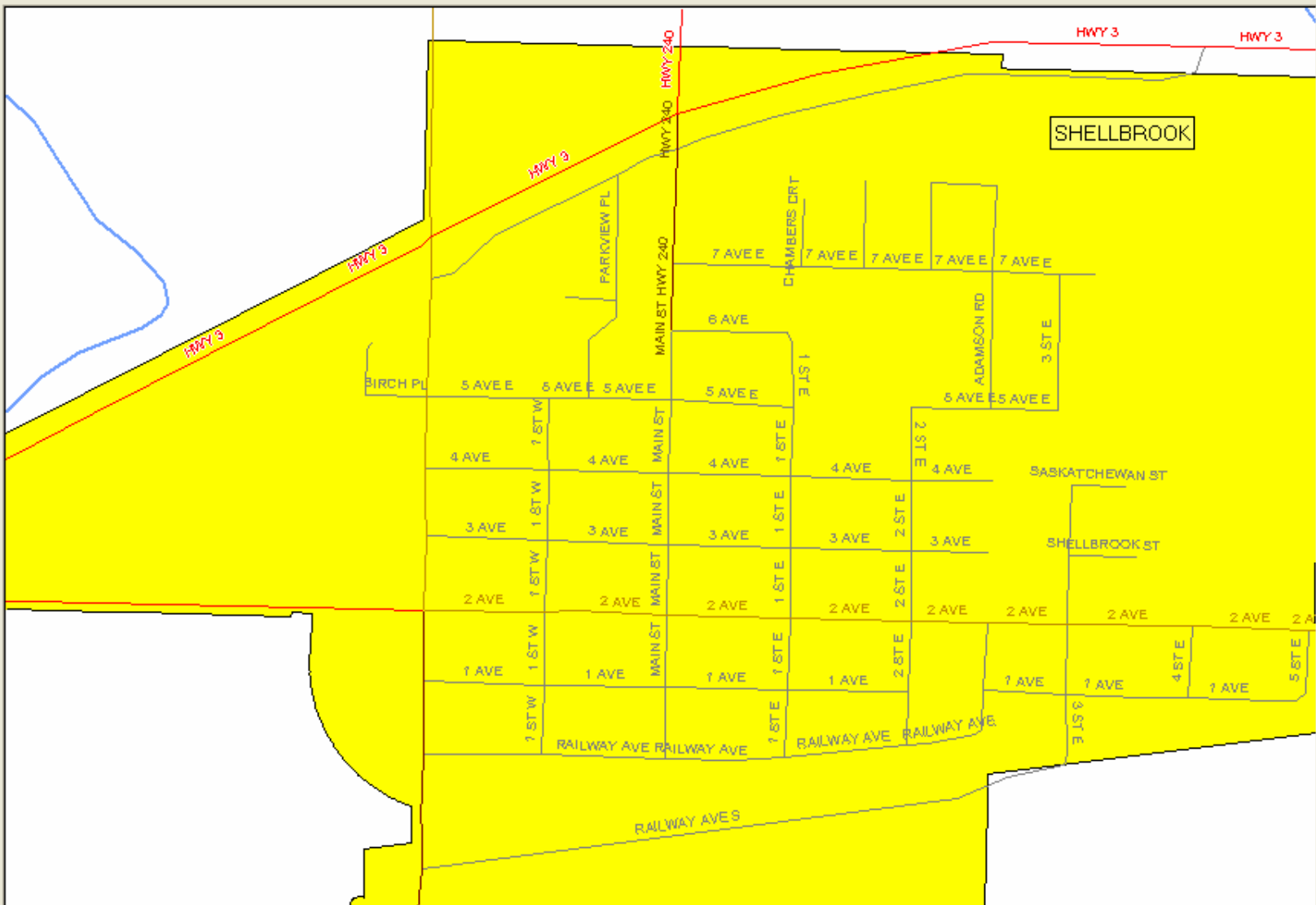- Regional Health

Urban Areas
- Cities
- Towns
- Villages, Hamle

Moose Jaw EMS Response

Lat: 50.500500, Lon: -105.410457   EMS Response Outline : Moose Jaw EMS Response   1 : 1,933,833   272 x 188 (mi)

File   Edit   View   Favorites   Tools   Help

Back

Address   http://911maps/911/911_v201.mwf   Go   Links

autodesk

- ☐ Ambulance
  - ☑ EMS Stations
  - ☑ EMS Response
  - ☐ EMS DISPATC
  - ☐ EMS Response
  - ☐ EMS DISPATC
- ☐ Rescue
  - ☑ Rescue Station
  - ☑ Rescue Respo
  - ☐ Rescue Respo
- ☐ Health Theme
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  - ☐ Health Districts
  - ☑ Regional Health
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- ☑ Transportation
  - ☑ Major Highway
  - ☑ Minor Highway
- ☐ Rural Properties
  - ☐ Pasture
- ☐ Rural Municipalities
- ☑ Water
  - ☑ Water 1:1M
  - ☑ Water Course 1
- ☑ Parks
- ☐ Native Lands
  - ☑ TLE Land Rese
  - ☑ Indian Reserve
- ☐ PSAP Boundary

Uranium City
Stony Rapids

Zoom Goto

Location

Category :   Urban Name ▼

Park Name
Pasture
QSect (T-R-M-Sec-Qs) eg: 02-06-2-05-NW
Rural Municipality (by Name)
Rural Municipality (by RM#) eg: 005

Location :

Zoom to width :   20   (mi)

Select a category then enter a location to goto...

OK   Cancel   Help

ton Lake

andy Bay
an Narrows
Flin Flon

umberland House

Saskatoon

Yorkton
Melville
Regina
Swift Current
Weyburn
Estevan

Lat: 59.378507, Lon: -117.049194   1 : 8,053,467   1,135 x 783 (mi)

File   Edit   View   Favorites   Tools   Help

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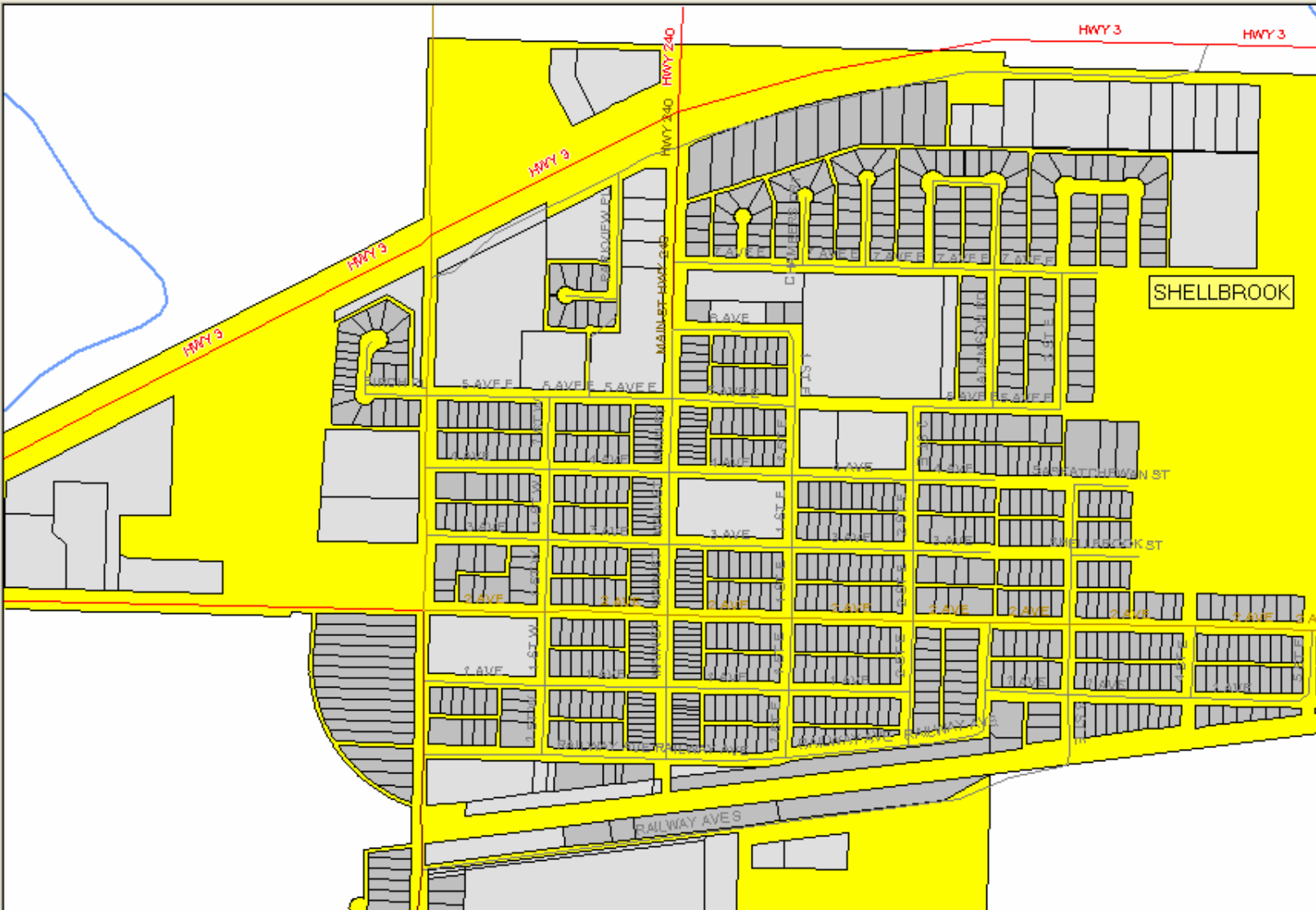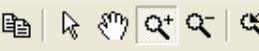Address http://911maps/911/911_v201.mwf   Go   Links

autodesk

Hutterite Colony
Transportation
  Major Highway
  Minor Highway
  Major Rural Ro
  Minor Rural Ro
  Other Roads
  Street
  Lane
  Bridge
  Ferry
  Railway
Rural Properties
  Rural Parcels
  Rural Lots
  Pasture
Urban Properties
  Urban Parcels
  Urban Lots
Rural Municipalities
Rural Fabric
  Township
  Section
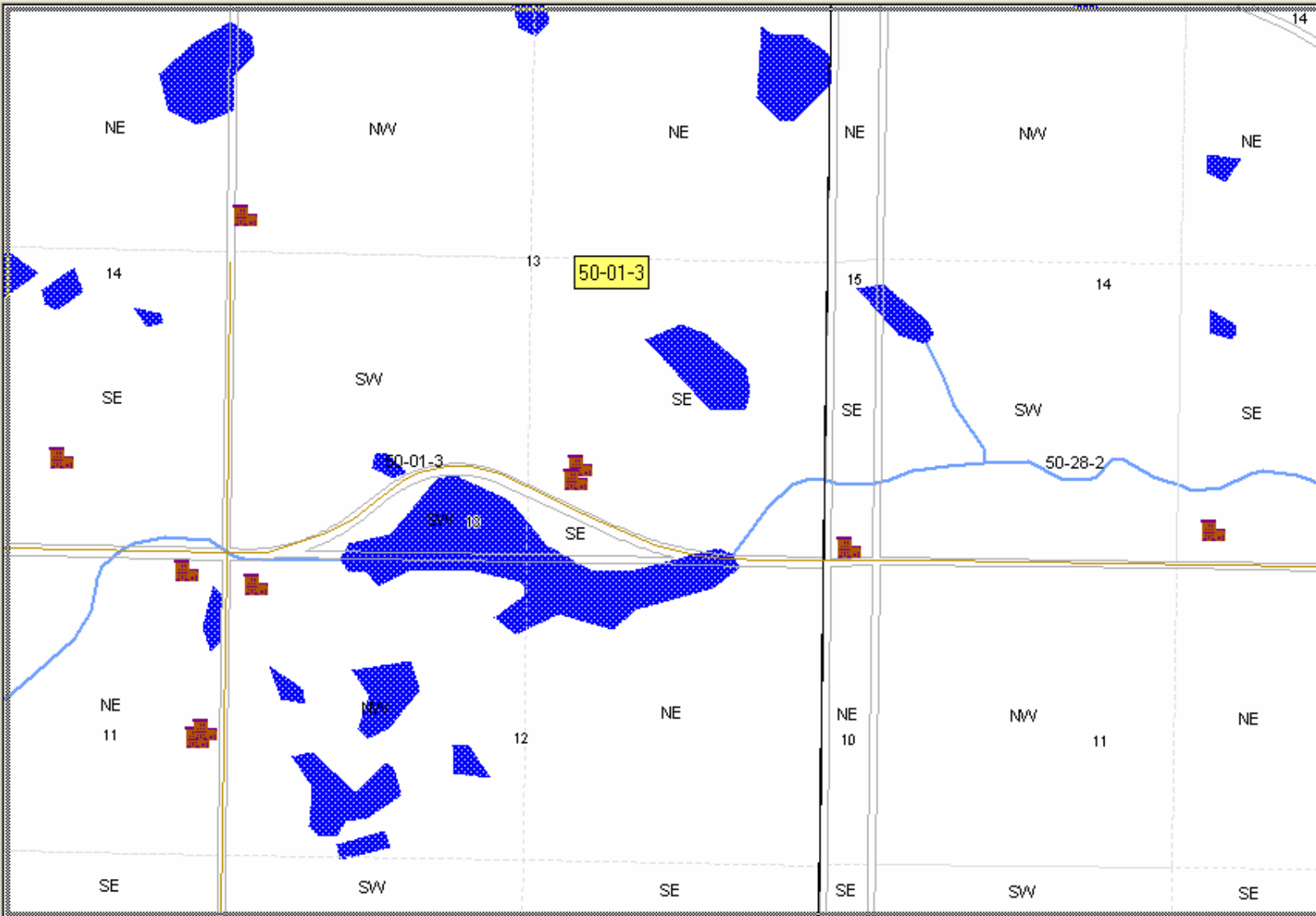 Quarter Section
  River Lot
Water
  Waterbody Lab
  Water 1:20K

SHELLBROOK

HWY 3   HWY 3
HWY 240
HWY 3

PARKVIEW PL
CHAMBERS CRT
MAIN ST HWY 240
ADAMSON RD
3 ST E

7 AVE E   7 AVE E   7 AVE E   7 AVE E   7 AVE E

6 AVE
1 ST E

BIRCH PL   5 AVE E   5 AVE E   5 AVE E   5 AVE E   5 AVE E   5 AVE E

4 AVE   1 ST W   4 AVE   MAIN ST   4 AVE   1 ST E   4 AVE   2 ST E   4 AVE   SASKATCHEWAN ST

3 AVE   1 ST W   3 AVE   MAIN ST   3 AVE   1 ST E   3 AVE   2 ST E   3 AVE   SHELLBROOK ST

2 AVE   1 ST W   2 AVE   MAIN ST   2 AVE   1 ST E   2 AVE   2 ST E   2 AVE   2 AVE   2 AVE   2 AVE

1 AVE   1 ST W   1 AVE   MAIN ST   1 AVE   1 ST E   1 AVE   2 ST E   1 AVE   1 AVE   1 AVE   4 ST E   1 AVE   5 ST E

1 ST W   1 ST E   3 ST E

RAILWAY AVE   RAILWAY AVE   RAILWAY AVE   RAILWAY AVE

RAILWAY AVE S

Lat: 53.226360, Lon: -106.380465   Urban Limits : SHELLBROOK   1 : 8,285   6,164 x 4,250 (ft)

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Address http://911maps/911/911_v201.mwf Go Links

autodesk

Major Rural Ro-
Minor Rural Ro-
Other Roads
Street
Lane
Bridge
Ferry
Railway
Rural Properties
Rural Parcels
Rural Lots
Pasture
Urban Properties
Urban Parcels

Rural Municipalities
Rural Fabric
Township

Section

Quarter Section

River Lot
Water
Waterbody Lab-
Water 1:20K

Water Course (;

NE   NW   NE   NE   NW   NE

13   50-01-3   15   14

SW   SE   SE   SW   SE

50-01-3   50-28-2

SW 10   SE

NE   NE   NE   NW   NE

11   NW   12   10   11

SE   SW   SE   SE   SW   SE

Lat: 53.313646, Lon: -106.014606   Township : 50-01-3   1 : 15,729   2.22 x 1.53 (mi)

Next Steps

- Emergency Management
- Resource Management
- Critical Infrastructure
- Links to other data sets i.e.Learning, SE
- Interoperability with EM software
- Real time incident management

- Emergency Response
- Interoperability with CAD, AVL
- Radio coverage data
- Attribute information, Resource management
- Additional layers such as airports, schools ...
- ANI ALI interface
- Training

Who will have access?

- ↗ Provincial Protective Services
- ↗ Municipal emergency responders & EMO
- ↗ Health, EMS
- ↗ RCMP, Municipal Police Services
- ↗ Dispatch Services
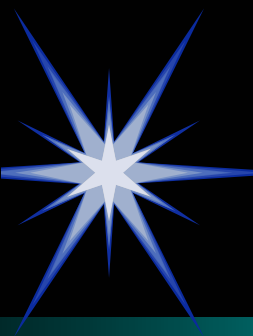
PUBLIC PERCEPTION
OF 9-1-1

QUESTIONS

9-1-1 REALITY