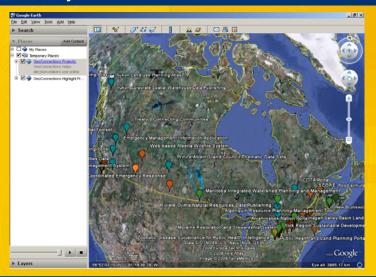


Program Principles: Invest in Projects that address community issues



Geo Connections

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> Public Health in GeoConnections

- **Public Health** is a priority for GeoConnections due to:
- The significance of health and well being in the everyday lives of Canadians.
- The potential to improve the efficiency of interaction between different health jurisdictions and levels of government across the country.
- The location-based (or geospatial) component to the majority of health data, and the appreciation of associating health data with other types of data (e.g. environmental data, socio-economic data).

GeoConnections

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Community Challenges

- Varying levels of knowledge and expertise in geospatial analysis, including its utility in public health practice;
- The abundance of data needed to address public health issues, and the lack of awareness in addressing basic data issues.
- Lack of a consistent and sustainable communication strategy, in particular for the sharing and development of statistical techniques and methodologies.

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> Public Health Community Priority Areas

- 1. Population Health Surveillance
- 2. Health Emergency Response and Inter-Emergency Planning

With emphasis on projects that:

- Develop awareness and understanding of geospatial analysis within the public health community
- Increase training and build capacity in both human and financial resources – for geospatial analysis
- Build tools that allow for the secure sharing of geospatial information between organizations and across multiple jurisdictions

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Community Project: Advancing Health Geomatics Analysis Capacity



ETU Courses

Health Geomatics (GIS)

HEALTH GEOMATICS

HEALTH GODE TOT

MAPPING HEALTH GATA

SPATIAL EPIDEMIOLOGY

SPACE TIME DISEASE SURVEILLANCE
BEST PRACTICES & HOW TO GOCUMENTS

Project, developed and delivered education and resource material to all researchers and analysts in British Columbia on the application of geomatics to questions concerning population health, including the determinants of health and small area variations in health.

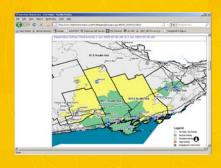
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▶ Community Project: Infection Watch Live

Prompt detection of respiratory and gastrointestinal related diseases are of particular importance due to the rapid transmission and potential burden such illnesses have on the community. Threat of a pandemic raises significant concern which necessitates the early spatial detection of an outbreak for appropriate public health action





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Community Project: GeoSpatial Foundation for Public Health

- Components: User Readiness Guide, Analytic Framework, Data Study
- Purpose: To identify, examine, and provide baseline information on the use of geomatics and geomatics practices and methodologies in the public health community.
- To develop a governance framework that highlights the roles and responsibilities within the federal government related to the public health community and its use of common geomatics practices.
- To provide a geospatial data reference framework for public health.



> Public Safety/Security in GeoConnections

- **Public Safety/Security** is a priority for GeoConnections due to:
- Threats and hazards have the potential to undermine the security and safety of Canadians.
- The potential to improve the efficiency of interaction between different emergency management jurisdictions and levels of government across the country.
- Location-based (or geospatial) information is a key resource for coordinating and helping agencies make crucial decisions that are related to public safety and security

GeoConnections

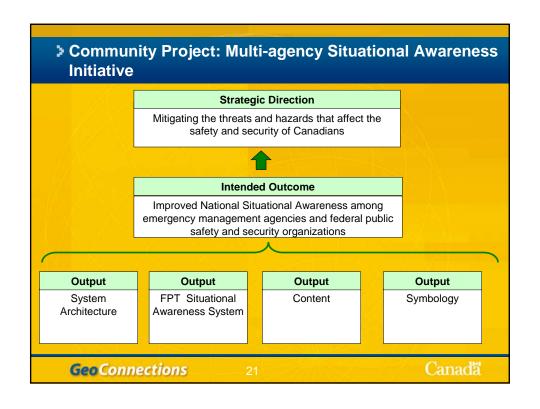
> Community Challenges

- <u>Security Policies and Systems:</u> Critical Infrastructure policy challenges related to information exchange; and trust that information will be used only for its intended purpose.
- Risk Assessment: For Critical Infrastructure, awareness is lacking in the role that geospatial information and systems can play in risk identification and mitigation.
- <u>Capacity:</u> Several provinces lack the human, financial or technical capacity to integrate location-based information into their operations.
- <u>Collaboration:</u> Although geospatial information has a long history in the Public Safety, few systems support information exchange across agencies.

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Community Project: National Infrastructure Identification

- Scope: National Strategy and Action Plan for Critical Infrastructure Protection: 10 sectors of CI
- Strategic data based on what emergency managers require for Situational Awareness and what infrastructure operators (may) be willing to exchange
- Provides common terminologies and attribution, or a common language and understanding of infrastructure in emergency situations
- Use as foundation of project implementations

Energy & Utilities

Communication s and Information Technology
Finance
Health care
Food
Water
Transportation
Safety
Government
Manufacturing

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Closing Remarks

- The government's investment to date has created many of the collaborations that have developed new applications of geospatial information.
- GeoConnections has successfully supported projects through the project lifecycle (strategic/business plans, user need assessments, implementations).
- Public Health and Public Safety/Security user community focus has showcased the benefits of applying Spatial Data Infrastructures principles to address priority community issues.

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