

GEONOVA

***“a geographic infrastructure for
Nova Scotians”***

“.....geographic....”

- ⌘ information that can be related to a position on the earth's surface
- ⌘ government the biggest producer & user (about 75% of government information can be depicted geographically)
- ⌘ 80% of cost of using geographic data is creating and maintaining the data

“.....infrastructure.....”

- ⌘ exists in a common consistent format
- ⌘ built once and used many times
- ⌘ requirement to coordinate across governments to reduce duplication
- ⌘ used by government, private sector and communities
- ⌘ easily accessible by users
- ⌘ requires large initial investment for downstream benefits (*\$70M for NS foundation databases*)

GEONOVA

“a geographic infrastructure for Nova Scotians”

- ⌘ Institutional framework
- ⌘ Foundation datasets
- ⌘ Policies and Technical Standards
- ⌘ Access infrastructure

Institutional Framework..

- defines the policy and administrative arrangements for building, maintaining, and distributing the data

- ⌘ **SNSMR as lead** Provincial Department for GEONOVA
- ⌘ SNSMR builds and maintains **“foundation” data**
- ⌘ **“thematic” databases** by other Departments
- ⌘ data distributed freely within provincial government
- ⌘ **GeoNOVA Advisory Committee** provides policy advise
- ⌘ **standards committee(s)** develop technical standards
- ⌘ **partnerships** (municipal/Federal governments, private sector) allow for cost efficiencies in building the infrastructure

The Foundation Databases...

- common databases used for many different applications and produced to comply with the technical standards

- ⌘ aerial photography (imagery)
- ⌘ coordinate referencing
- ⌘ topographic
- ⌘ property
- ⌘ civic address

Policies and Standards...

- define the technical characteristics of the data and supporting policies

- ⌘ Policies for : **Coordinate Referencing, Topographic Data, Property Records Data, Pricing and Distribution of Geographic Information**
- ⌘ Nova Scotia Geographic Information Standards
- ⌘ Technical Specifications - NSCRS, NSPRD, NSTDB, Civic Addressing

Access Infrastructure...

- means by which the data is made accessible, and to the agreed upon technical standards and policies

- ⌘ 5 land information centres for public delivery
- ⌘ directory of Geographic Information holdings
- ⌘ digital licensing to use the data
- ⌘ Internet applications to access the data (eg: **NSPRD Online** - 1500 users / 800,000 hits per month)
- ⌘ value added resellers/distributors
- ⌘ approximately \$1M annual sales for all foundation data (maps, digital files, airphotos, etc.)

GeoNOVA Benefits

"why we need it"

- ⌘ **Reduces duplication leading** to cost efficiencies (studies indicate benefit/cost ratio of at least 4:1)
- ⌘ **Develops a private sector** through contracting out and partnerships (\$1M annual expenditure for foundation data)
- ⌘ **Supports effective decision making and policy development** within both provincial and municipal governments

GeoNOVA

"future requirements"

- ⌘ moving into data maintenance activity
- ⌘ more complex uses for the data
- ⌘ widespread use of the technology
- ⌘ more demands on the data (currency, content, availability)

Geographic Infrastructure :

NS Provincial Government Department use

	Pilot Project	Licensed Data	NSPRD Online
Agriculture and Marketing	█		█
Business and Consumer Services	█		█
Community Services	█		█
Economic Development	█		█
Education	█		█
Environment	█		█
Finance	█		█
Fisheries and Aquaculture	█		█
Health	█		█
Housing and Municipal Affairs	█		█
Human Resources	█		█
Justice	█		█
Labour	█		█
Natural Resources	█		█
Technology and Science Secretariat	█		█
Tourism and Culture	█		█
Transportation and Public Works	█		█

..GEONOVA in action....

- ⌘ Street Centreline File to support **Emergency Services** dispatch/response
- ⌘ Determining extent of and baseline inventory for **Nonresident Land Ownership**
- ⌘ Using mapping technology for investment promotion and investment with the **Community Data Project**
- ⌘ Providing access to property ownership: **NSPRD Online**