

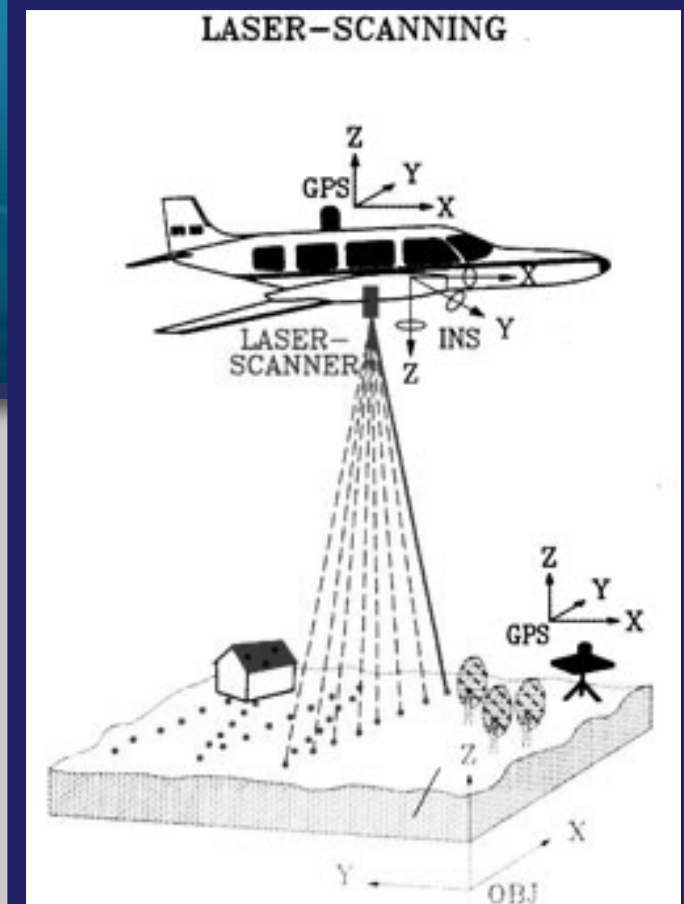
Applied Geomatics Research in Nova Scotia:

Sharing our eight years of Experience



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Nova Scotia Community College
Middleton, NS

Presentation at Spatial Knowledge and Information Canada, Fernie, BC
February 2008





What is Applied Geomatics?

It is the integration, customization and application of three technologies:

- * GPS and location technology
- * Remote Sensing and Environmental instrumentation
- * GIS systems and GI Science



How have the technologies been applied at AGRG?

- Environmental sciences
- Health sciences
- Tourism
- Agriculture
- Community development



How is AGRG organized?

Five Research Scientists

Scientists

Research Interests

David Colville — Alternative Energy, Precision Agriculture, Landscape Ecology, web GIS

Chris Hopkinson — Hydrology and Forestry applications of LiDAR

Bob Maher — Community Mapping, Health applications

Roger Mosher — DSS for Disaster Management, Social Networking tools

Tim Webster — Flood risk mapping, Geological applications



Conceptual Model

Top



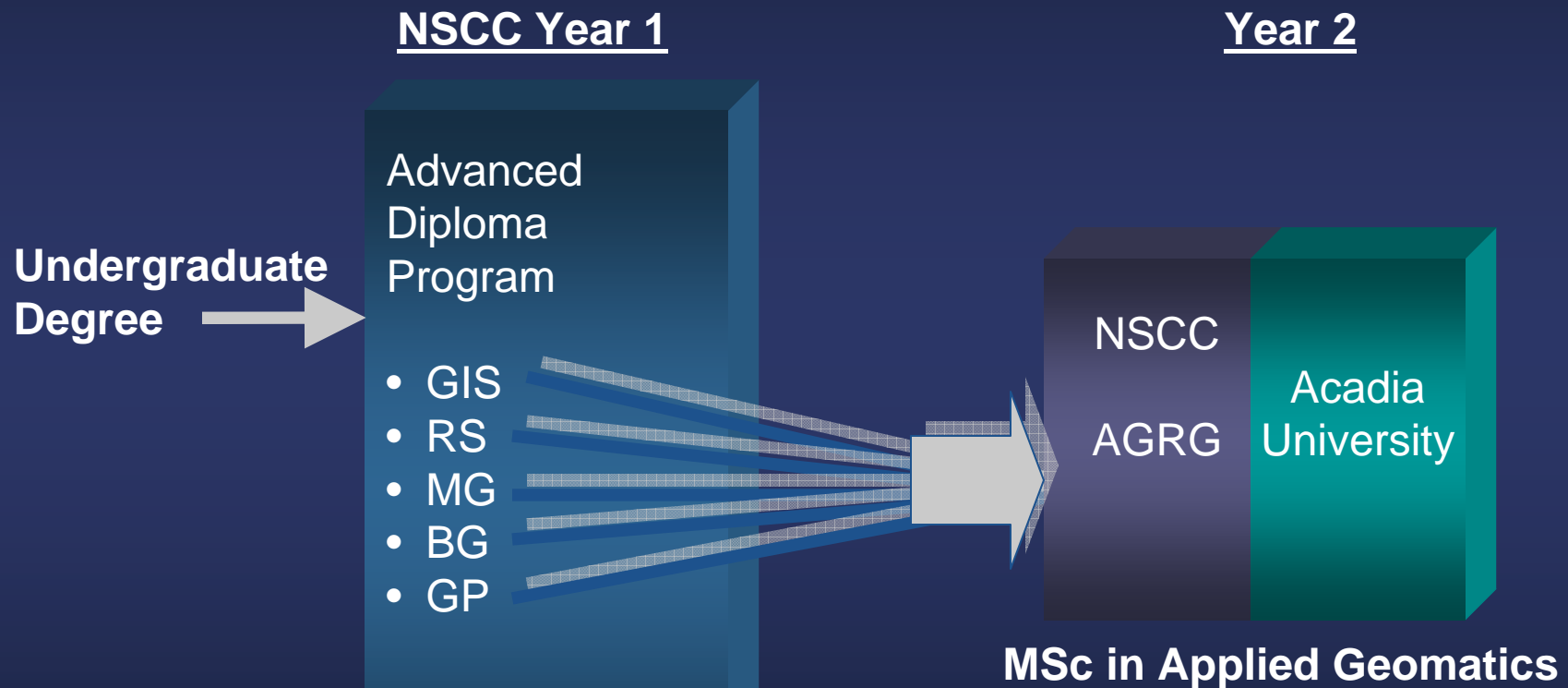
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GIS

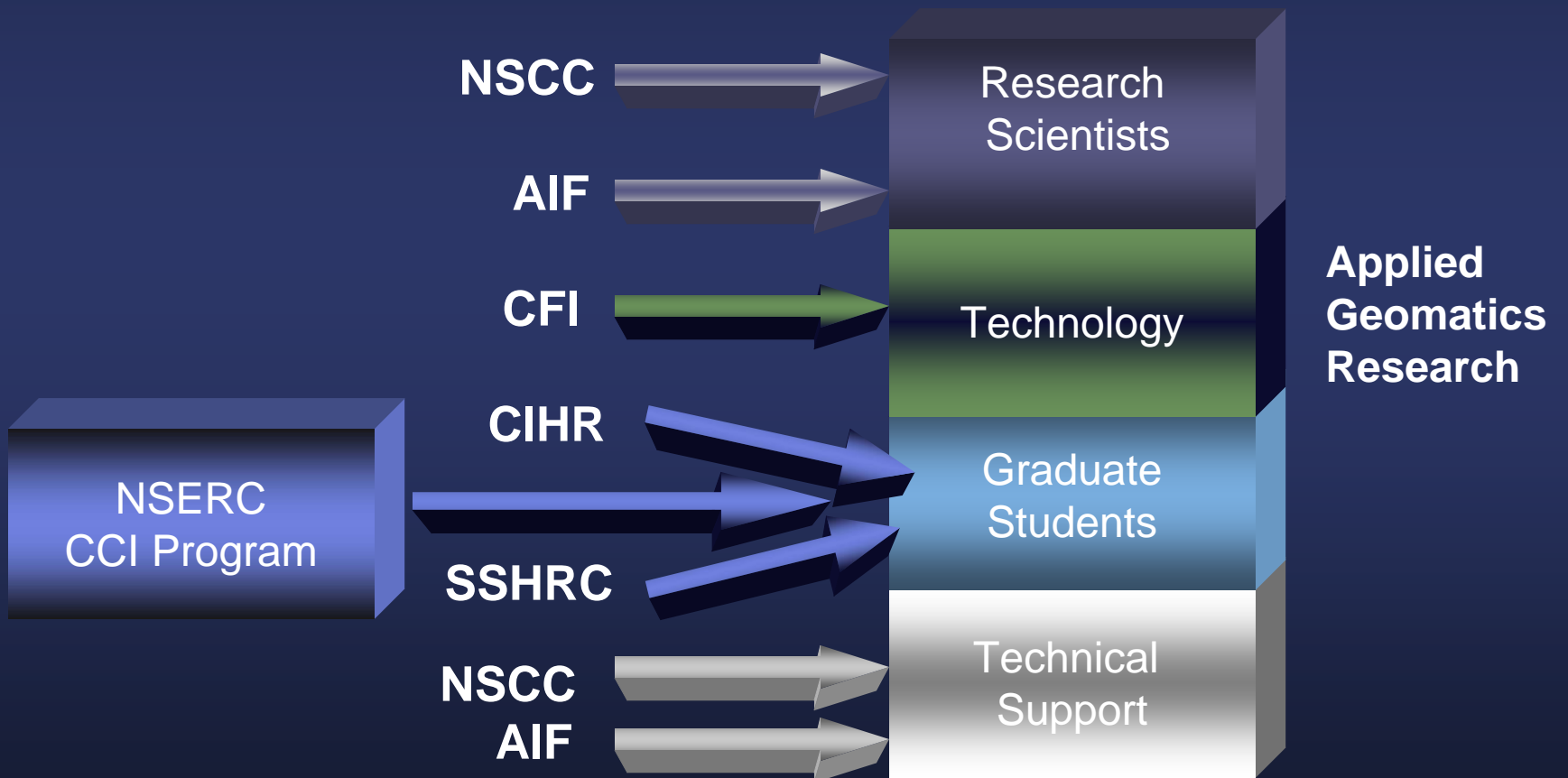


Academic model





Funding Model





Business Model





Lessons Learned

- Funding mix
- Institutional management
- Top down and bottom up
- Collaboration with industry



Next Steps

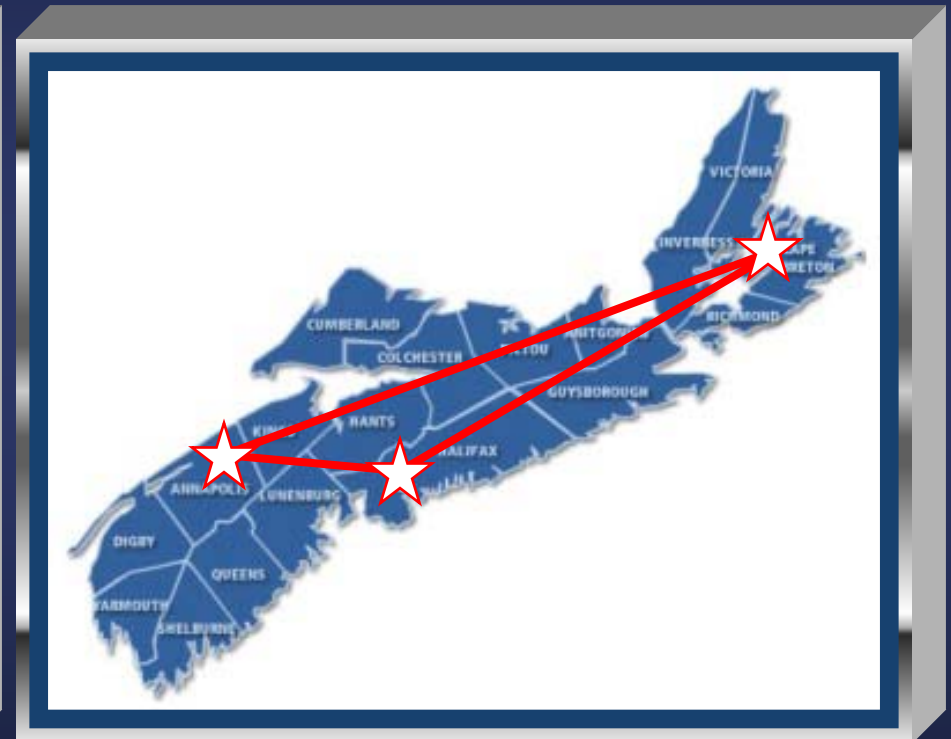
- Funding: CFI, NSERC
- Applied Research at NSCC
- Community mapping
- Application focus
- Joint graduate degrees



Geography of Applied Research at NSCC



2008



2009



Community Mapping Model

Groups

- Coastal communities e.g. Coastal CURA
- NS Apple Growers Association
- Experiential tourism
- High schools



Community Mapping Model

Methodology

- Participatory action research
- Workshops on using the technology
 - e.g. Mobile HP Geomatics lab
- Supporting infrastructure
 - e.g. Moodle
- Sharing/owning geographic data



Community Mapping Model

Next Steps

- Tools for shared ownership
- Learning communities
- Rural clusters
- Groups versus Networks