



Understanding, Describing, and Assessing Children's Development

The Early Development Instrument (EDI)

Workshop – May 22, 2003

Scarfe Education Bldg, UBC

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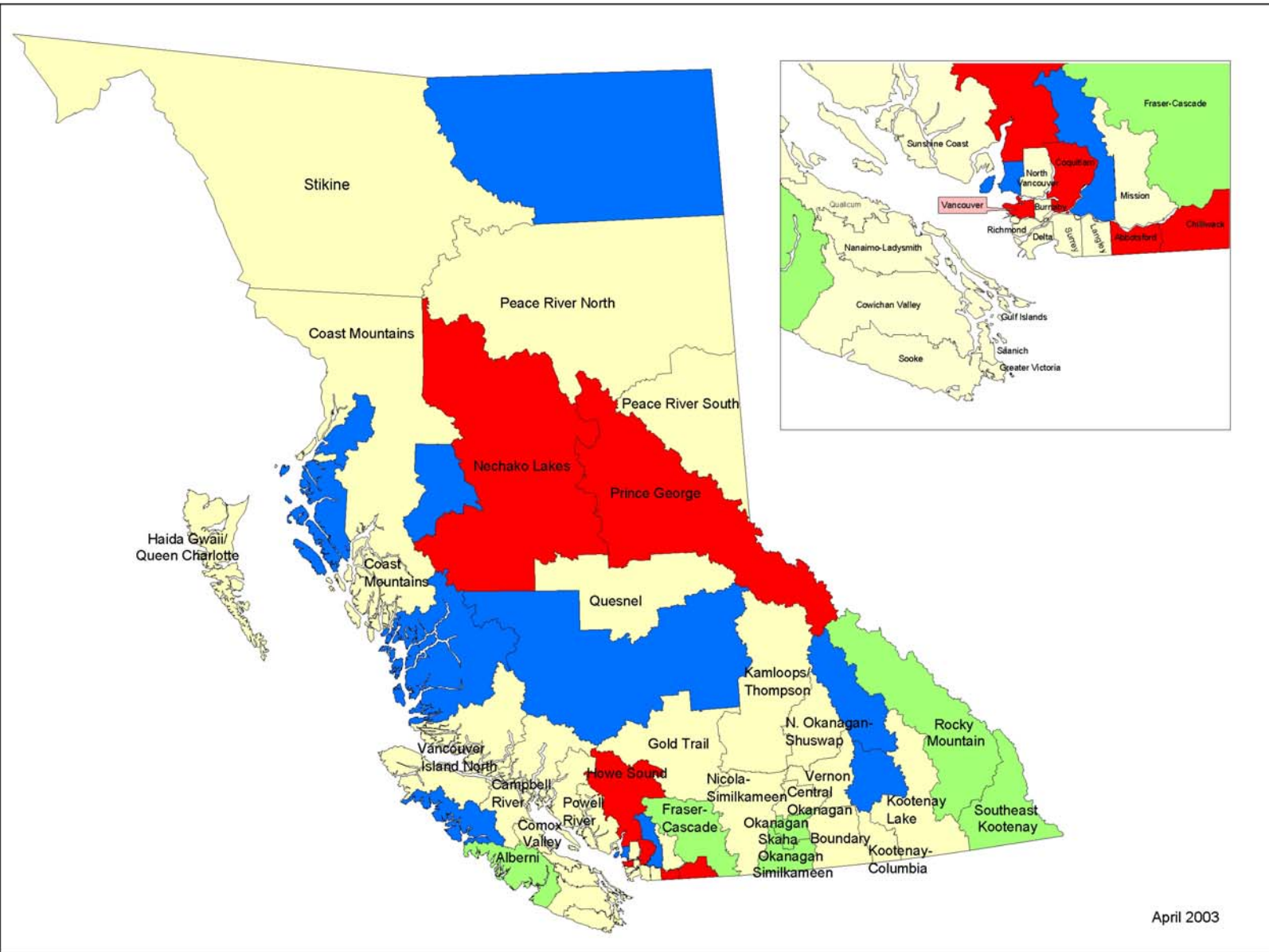
Research Manager
Provincial Mapping Project (HELP)



The EDI – a tool for measuring children's readiness for school

- **The Early Development Instrument (EDI)**
 - is a key component of the provincial mapping project of the Human Early Learning Partnership ← Brochure
 - enables communities to assess children's readiness to participate in and benefit from school activities
- **This presentation will include**
 - an outline of major project goals
 - a description of the EDI and its introduction into BC school districts
 - a summary of outcomes to date and future direction

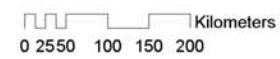
Early Development Instrument Mapping Project School Districts Participating (2003)



EDI Status

Legend

- Edi status**
- Not Participating
 - Participating
 - Completed
 - Re Sampling



April 2003

Districts which will be implementing the EDI in 2004

- 19 Revelstoke**
- 27 Cariboo-Chilcotin**
- 42 Maple Ridge-Pitt Meadows**
- 45 West Vancouver**
- 49 Central Coast**
- 52 Prince Rupert**
- 84 Vancouver Island West**
- 92 Nisga'a**

EDI 2004

- Invite districts which have not yet implemented the EDI to participate in 2004*

40 Arrow Lakes

54 Bulkley Valley

81 Fort Nelson

93 Conseil scolaire francophone

*(this list of non-participating districts was prepared Sept 23, 2003)

- Invite remaining Independent and Band Schools to participate in EDI 2004
- Re-sample for 3-year cycle (e.g. Vancouver)

Early Development Instrument

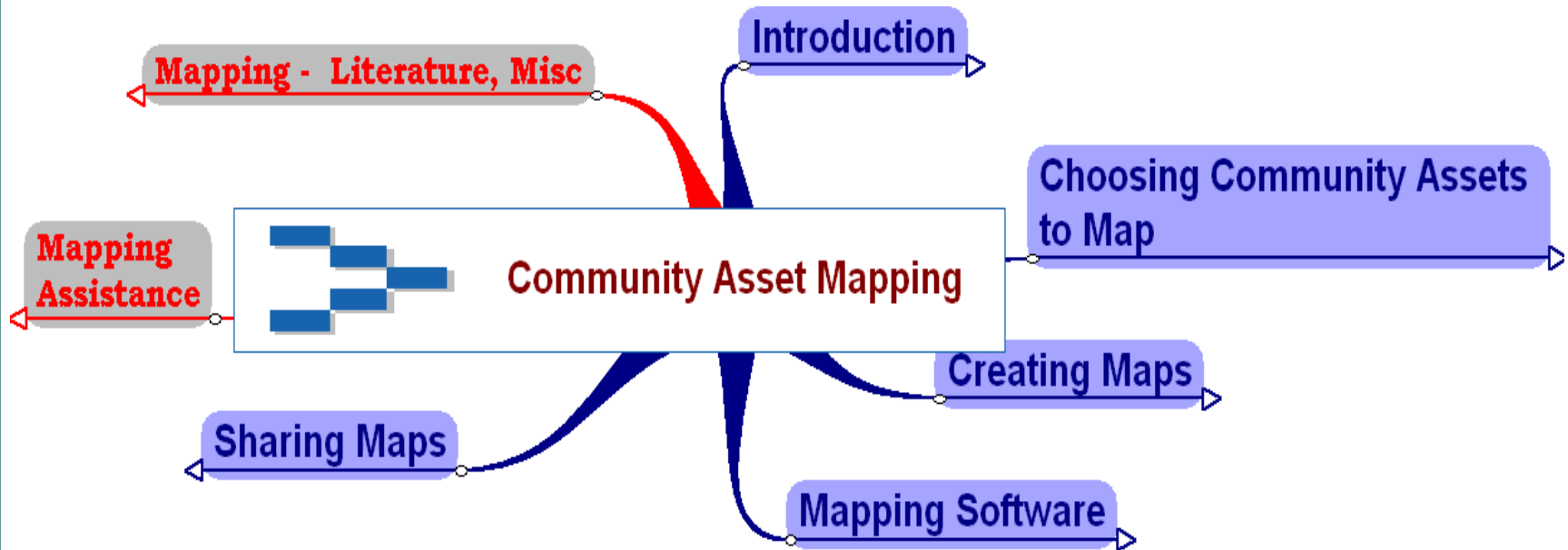
- Description and details on the EDI –
the tool and training

EDI (jpegs)

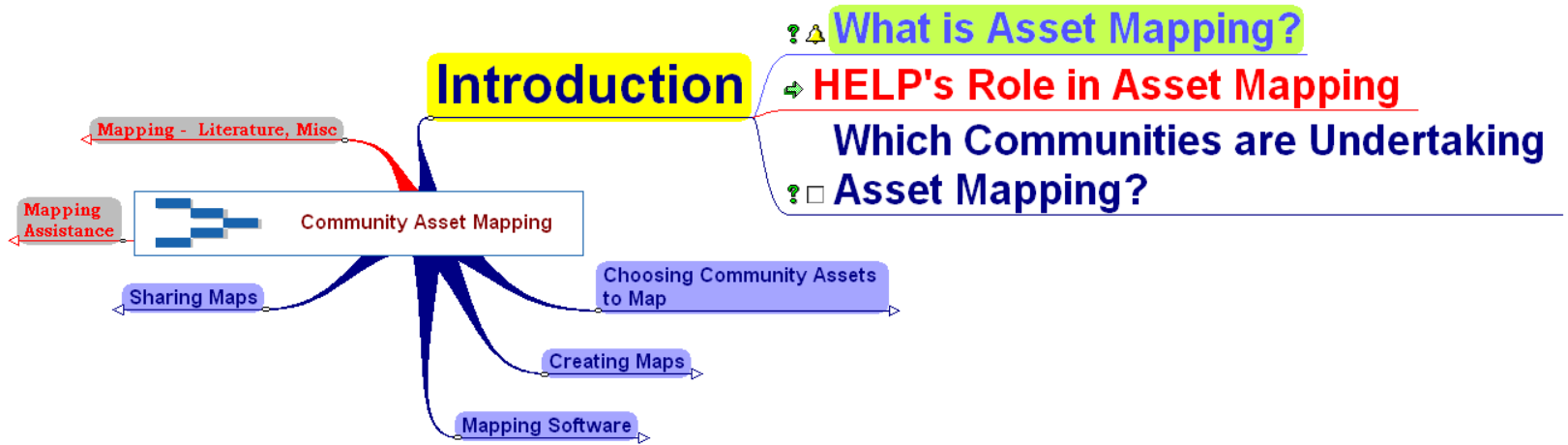
Summary of Outcomes

- Outcomes:
 - Abbotsford
 - Central Vancouver Island
 - Fraser North
 - Prince George
- Future Directions:
 - Child Health Atlas
 - ArcIMS website
 - Community Asset Mapping

Presentation Framework



Introduction



This map provides partial information and by no means is it complete.

What is Community Asset Mapping?

- Mapping services and resources within communities serve to show what programs and resources are available, where these programs are located, program capacity, frequency of access, etc.
- For children under 6, we have produced a variety of maps for Vancouver showing neighbourhood, educational and parenting resources. For example:
 - parks, libraries
 - recreation and community centres
 - vision screening locations
 - food bank locations
 - literacy programs
 - child care services, parenting programs



Please refer to accompanying sheet: **Early Development and Community Asset Mapping**

HELP's Role in Community Asset Mapping

- To increase awareness in communities of the value of community asset mapping
- To initiate mapping in communities by:
 - meeting with Intersectoral Coalitions to discuss community mapping strategies, particularly:
 - *definitions of community and neighbourhood for the purposes of mapping*
 - *relationship of statistical boundaries with social planning areas and other administrative/physical units*
 - *data collection and access (gathering information from community service providers)*
 - *supports/ resources for mapping*
 - *networks (community- and provincial-level) for mapping*

Which Communities are Undertaking Asset Mapping?

- **Central Vancouver Island**
- **Eastern Fraser Valley**
- **Fraser North**
 - *(Coquitlam, Port Coquitlam, Port Moody, Anmore and Belcarra)*

In the Early Stages:

- **Burnaby**
- **Central Okanagan**
- **East Kootenay**
- **Kamloops**
- **South Fraser (Surrey, Langley, Delta, Ladner...)**
- **Sunshine Coast**
- **Victoria**

Choosing Community Assets to Map



This map provides partial information and by no means is it complete.

Which questions would you like to answer?

- What are the common concerns of your community? (i.e. child care, literacy, teen pregnancy, domestic violence)
- What particular services or resources tie to these issues? (library outreach services, literacy programs, ESL programs, parenting programs)
- What aspects of the services are of interest? (i.e. capacity of programs, frequency of programs, number of programs, ages serviced by programs)
- Where are child care services located? (spatial location/distribution of services)

Examples of asset maps that have been created (municipal level)

Vancouver Maps produced by HELP

All Licensed Child Cares, Preschools, Family Places and Drop-In Centres

Licensed Child Care and Preschool Spaces per Capita for Children 0-5

Child Care Subsidies ages 0-5 by Care Type ,1999-2000

1999-2000 Kindergarten Vision Tests, Proportion of Referrals

Food Banks: Clients age groups as a Proportion of all Recipients

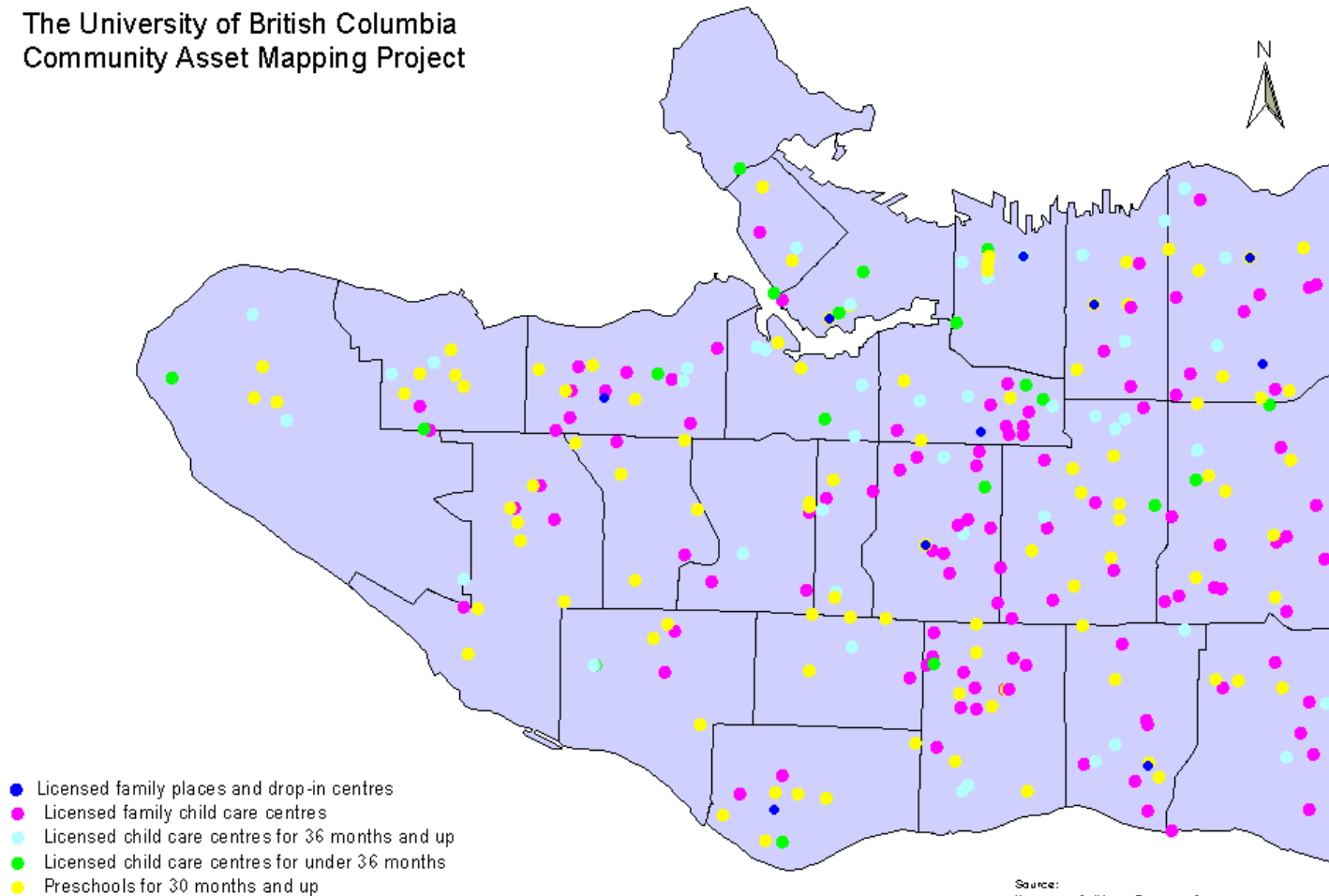
Family Strengthening Programs: Number of Families Served by Cap-C coalitions, partner agencies and other programs, 2000-2001

Cost of a Nutritious Food Basket as a Proportion of Neighbourhood Mean Household Income and Children (0-6) served by Food Banks

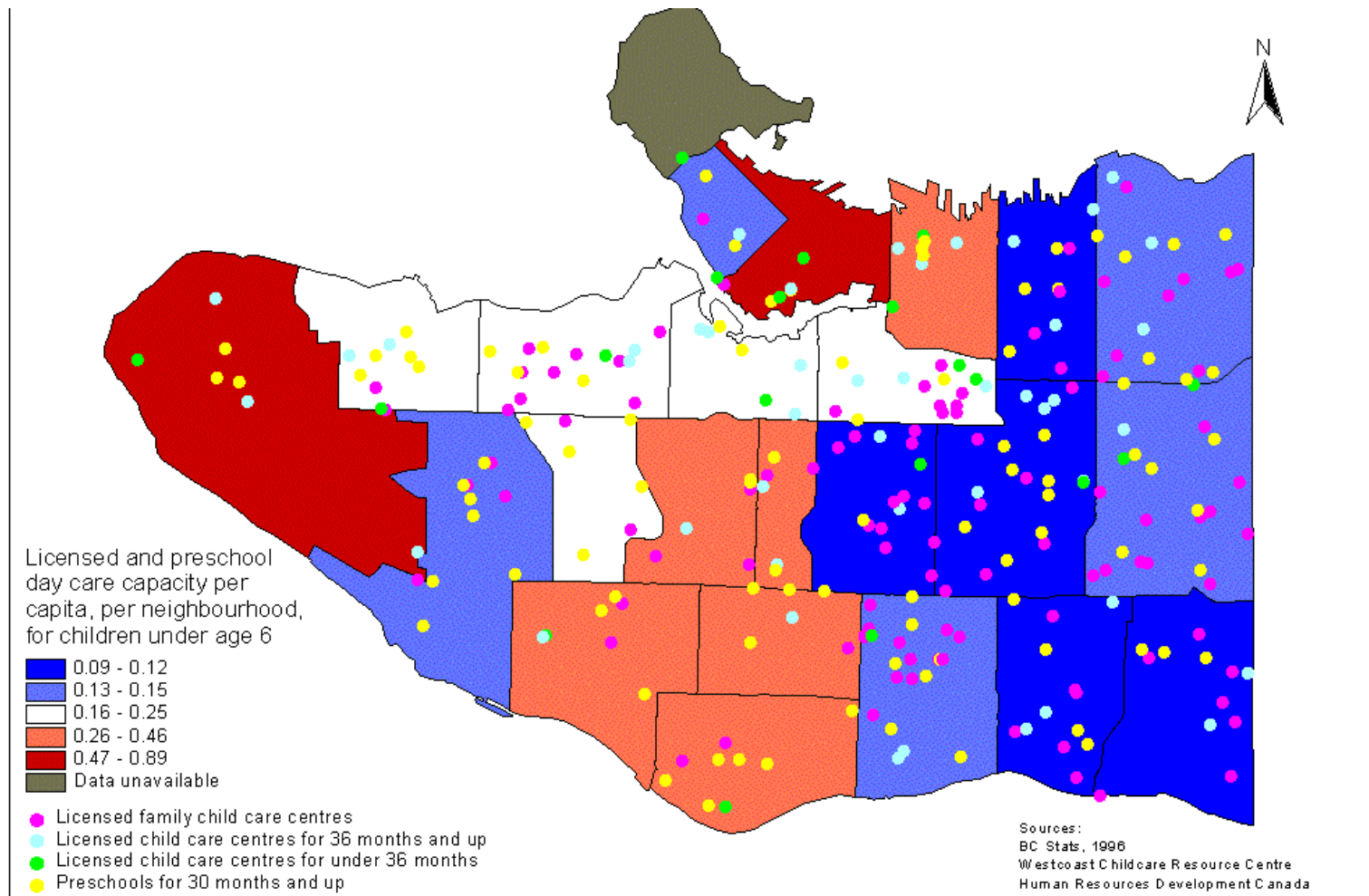
Please refer to accompanying list (Appendix 1 - Vancouver Asset Maplist)

All Licensed Childcares, Preschools, Family Places and Drop-in Centres

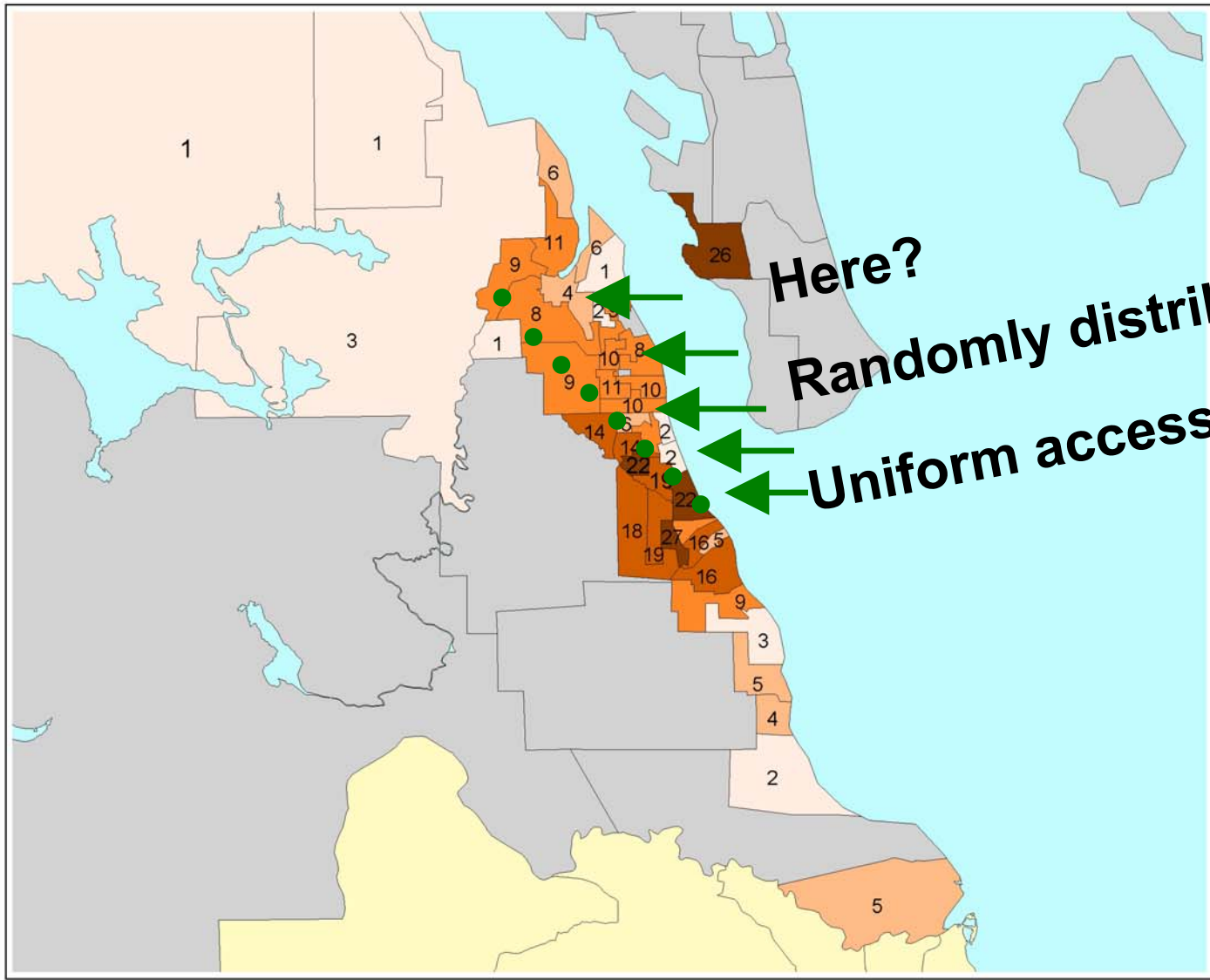
The University of British Columbia
Community Asset Mapping Project



Licensed Child Care and Preschool Spaces per capita for children 0-5



Where are the Child Care Places and Spaces in Campbell River?



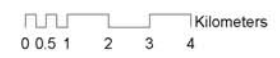
SD72 Campbell River

Legend

COUNT

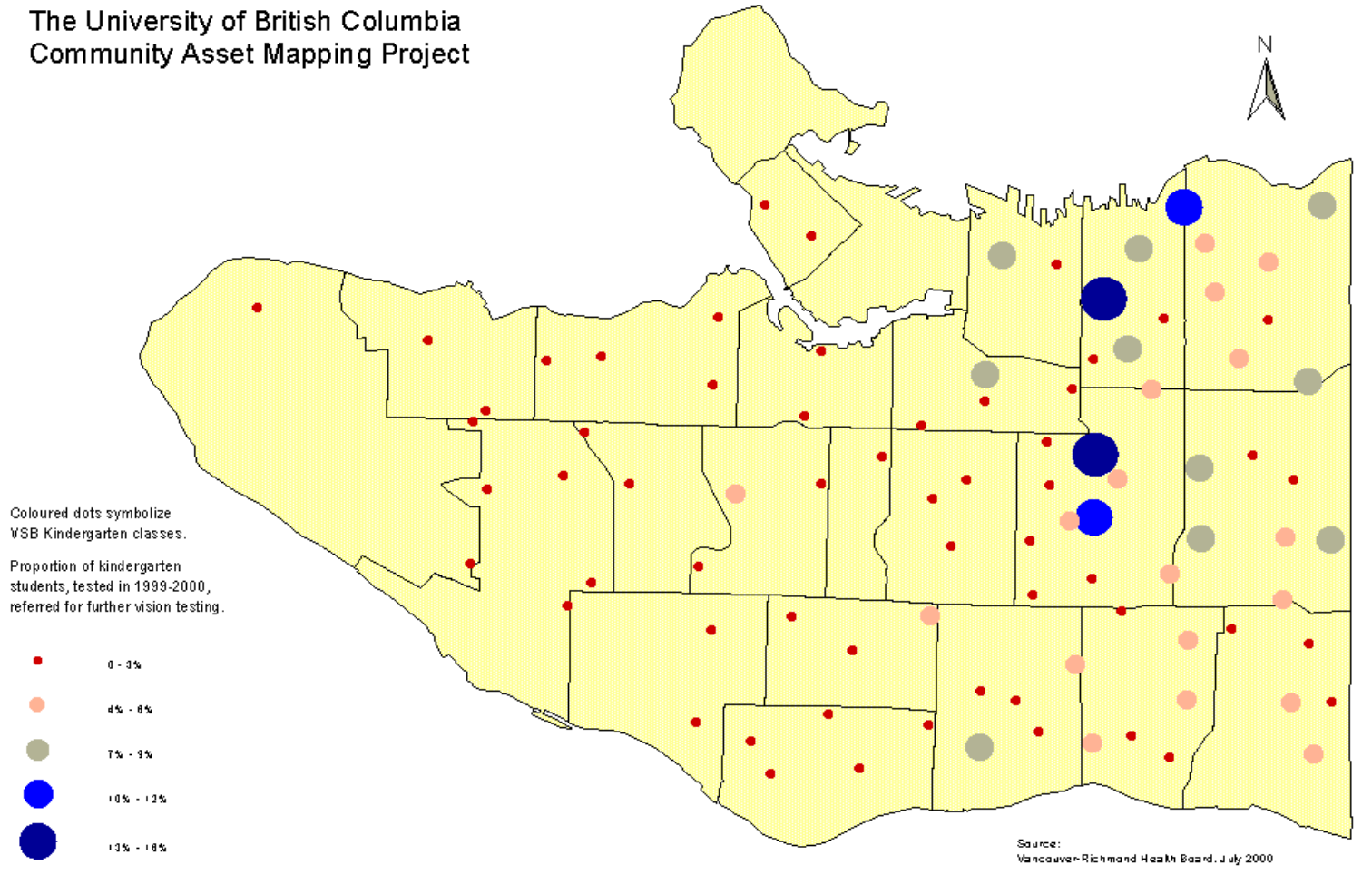
- 1 - 3
- 4 - 7
- 8 - 13
- 14 - 19
- 20 - 27
- No Data Reported
- Dissemination Areas (DA)
- Border School Districts
- Water

427 - Participants

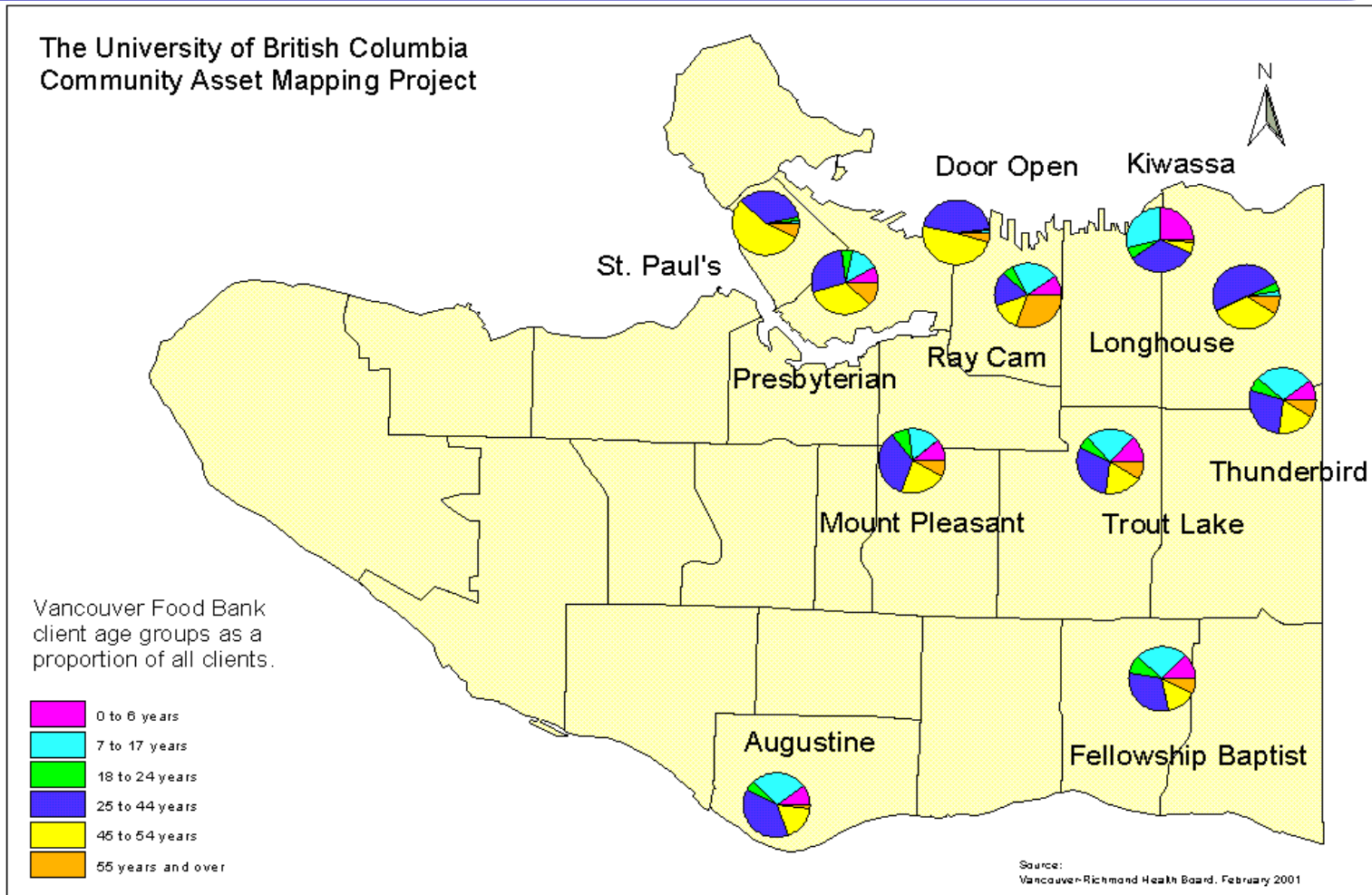


1999-2000 Kindergarten vision tests, proportion of referrals

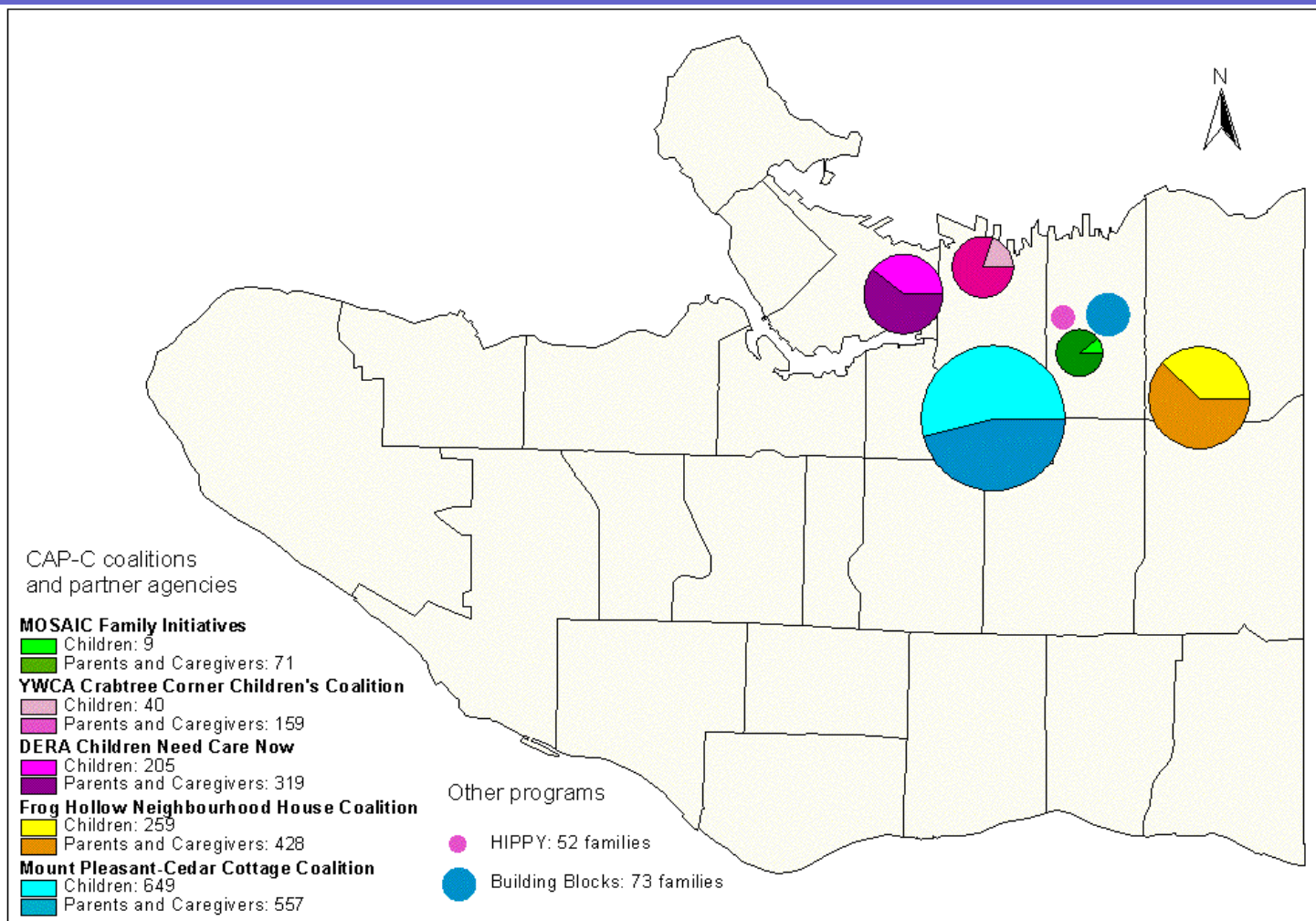
The University of British Columbia
Community Asset Mapping Project



Food Banks: Client age groups as a proportion of all recipients

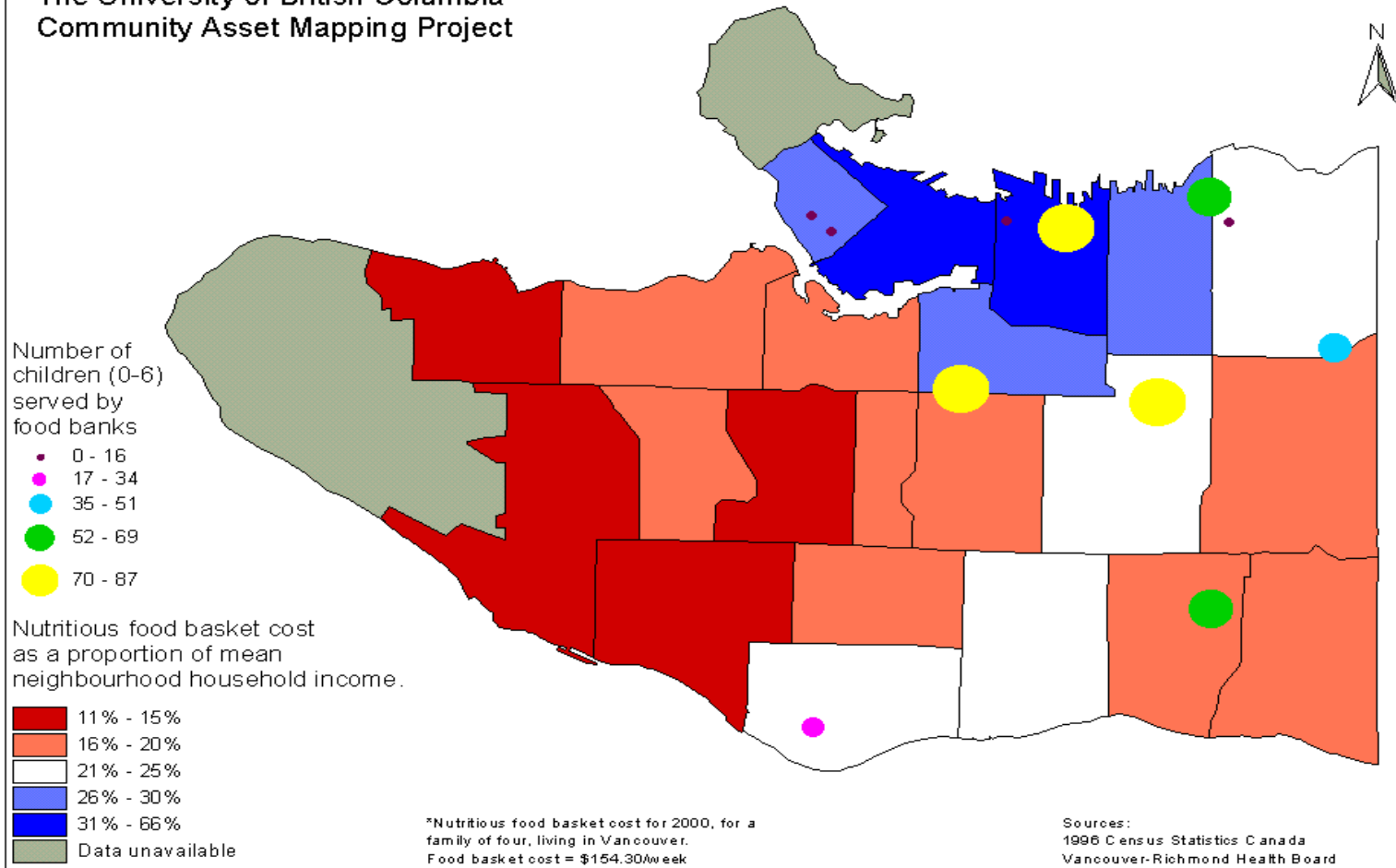


Family Strengthening Programs: Number of families served by CAP-C coalitions, partner agencies and other programs, 2000-2001

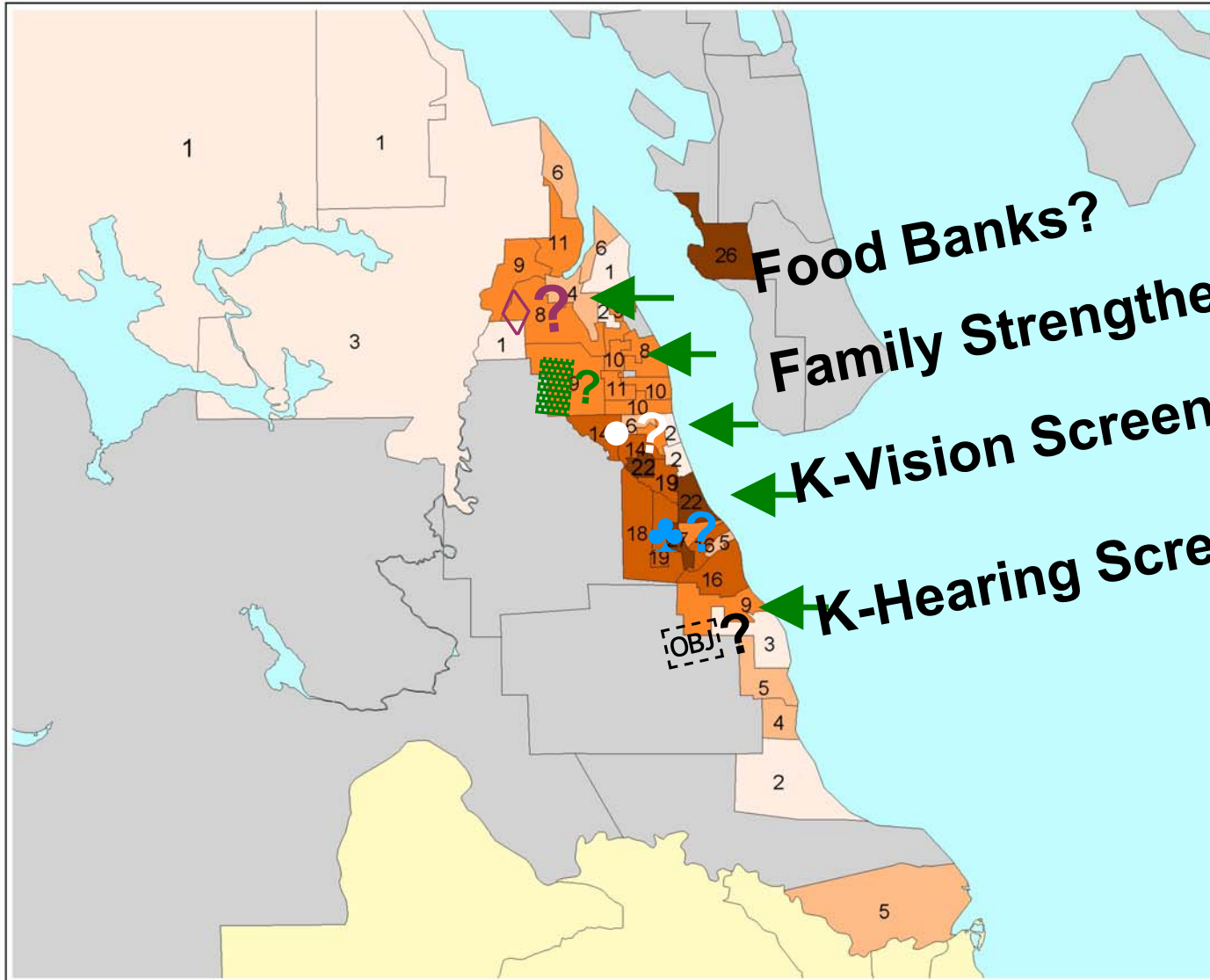


Cost of a nutritious food basket* as a proportion of mean household income and children (0-6) served by food banks

The University of British Columbia
Community Asset Mapping Project



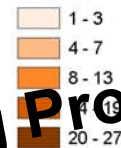
Where are community assets in Campbell River?



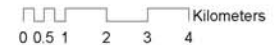
SD72 Campbell River

Legend

COUNT



427 - Participants



Food Banks?

Family Strengthening Programs?

K-Vision Screening Programs?

K-Hearing Screening Programs

Examples of asset maps that have been created (provincial level)

BC Provincial Maps produced by HELP

Building Blocks: Provincial Sites and Number of Families Served

Cap C Location and Number of Sites

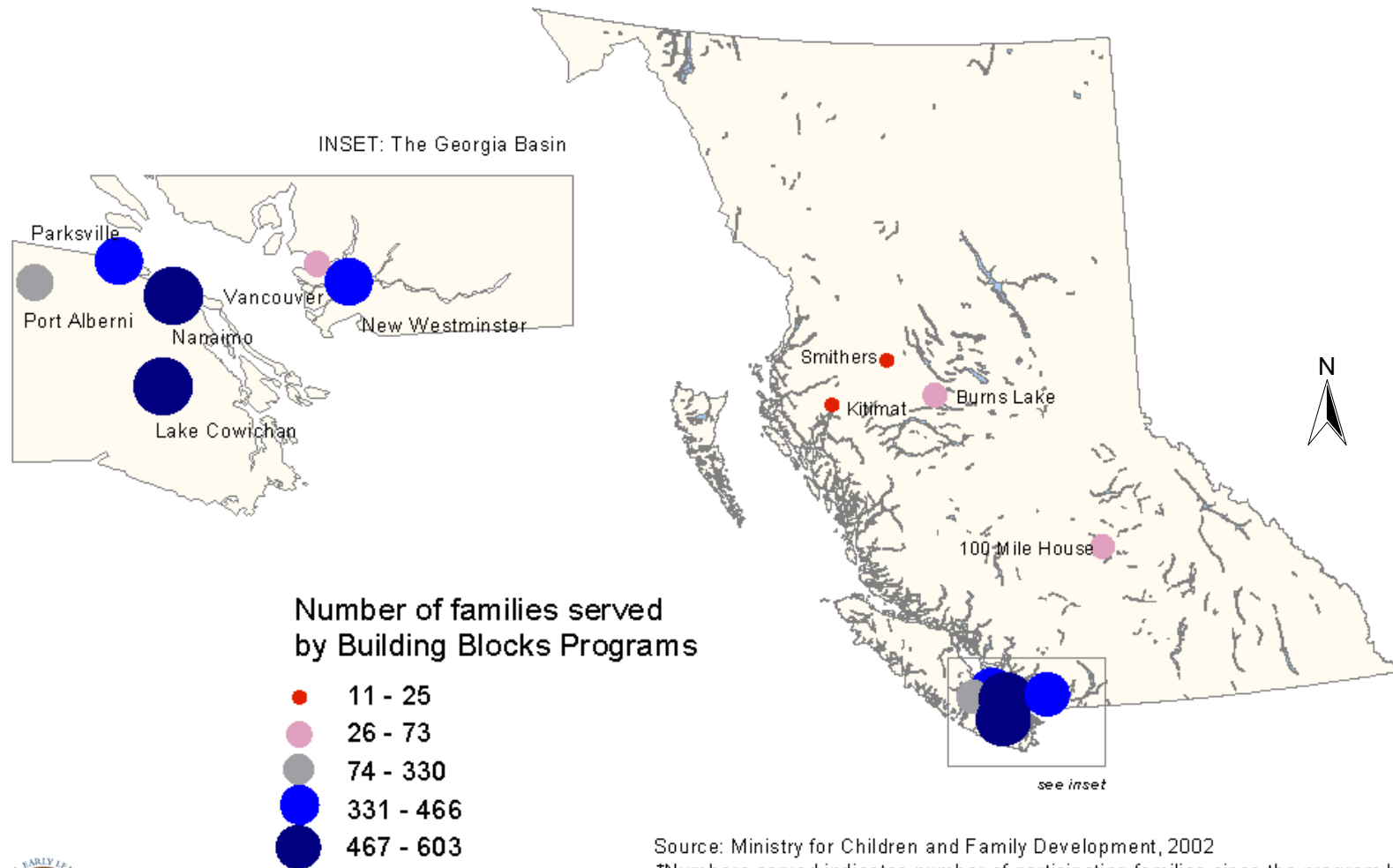
Child Investigations by Local Health Area for Ages 0-4, British Columbia, 1998-2000 (Quintiles based on a rate per 1000)

Aboriginal Human Resource Development Agreement (AHRDA) Regions
Number of Child Care Spaces per Capita (0-5 on-reserve) funded by the
First Nations and Inuit Child Care Program

First Nations Aboriginal Head Start Projects. On-reserve and Off-reserve
Aboriginal Head Start Projects in BC as of Dec 03, 2001

Please refer to accompanying list (Appendix 2 - Provincial Asset Maplist)

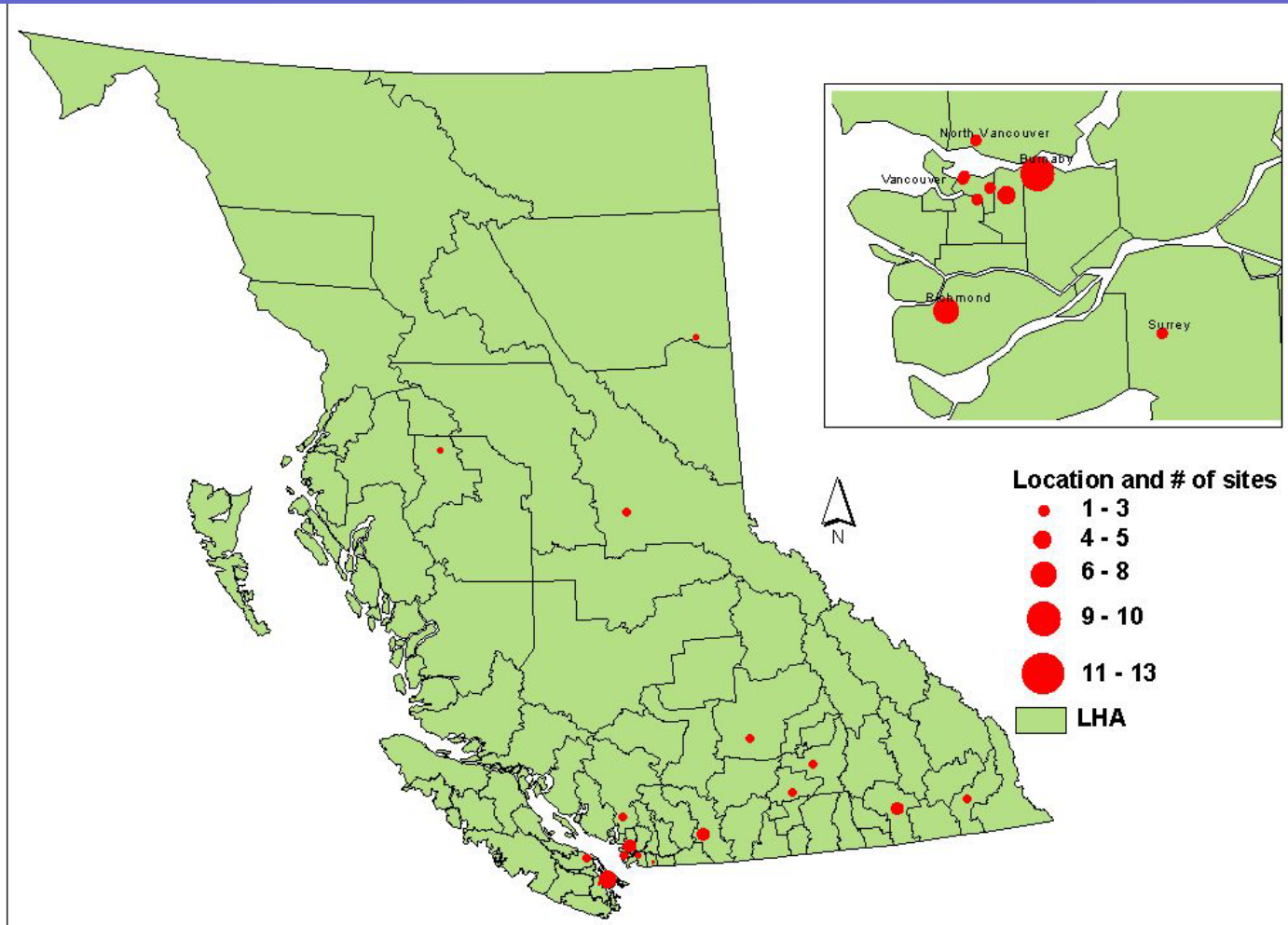
Building Blocks Programs Number of Families Served (2001-2_)



Source: Ministry for Children and Family Development, 2002

*Numbers served indicates number of participating families since the program began

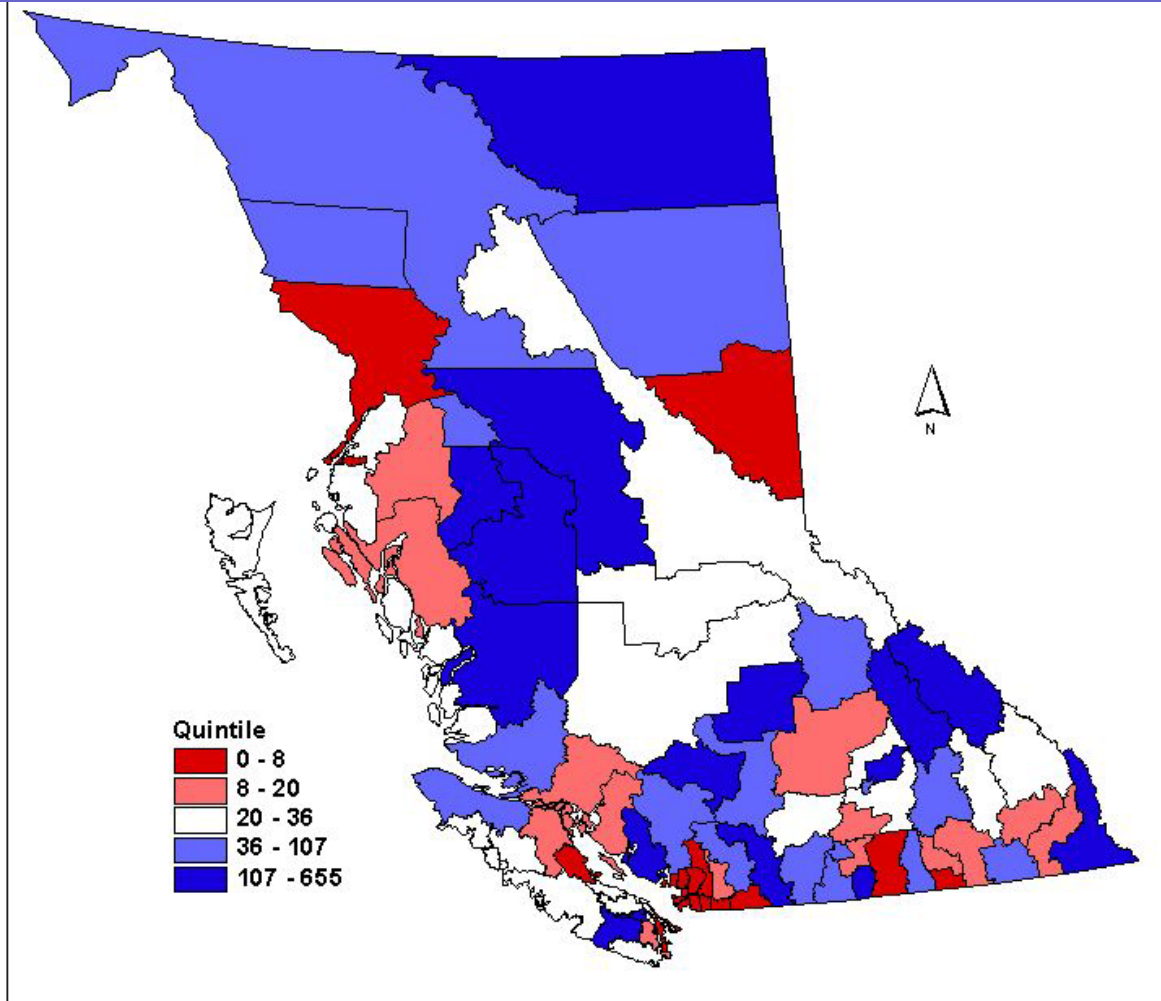
Cap-C Location and Number of Sites



Data Source: Health Canada, Community Based Programs

* CAP-C: Community Action Program for Children

Child Investigations by Local Health Area for Ages 0-4, BC, 1998-2000. Quintiles (based on rate per 1000)

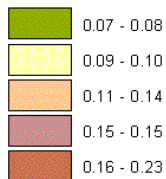


Data Source: Data Service Branch, Ministry of Children and Family Development
Vancouver data mapped separately by neighbourhood

Aboriginal Human Resource Development Agreement (AHRDA) Regions Number of Child Care Spaces per capita (0-5 on-reserve) funded by the First Nations and Inuit Child Care Program



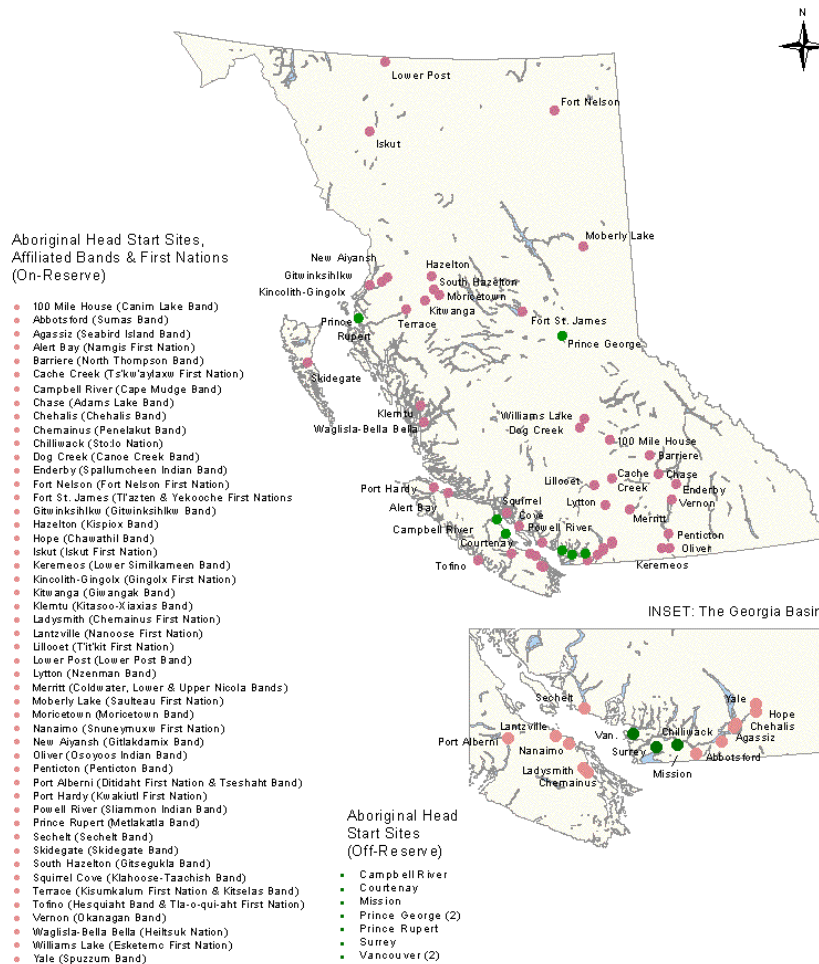
First Nations and Inuit Child
Care funded spaces per
capita 0-5 on-reserve



Sources:
Department of Indian Affairs and Northern Development, 1998
Human Resources Development Canada, 200-2001

First Nations Aboriginal Head Start Projects

On-reserve and Off-reserve Aboriginal Head Start Projects in BC as of Dec 03, 2001



Source: Health Canada

Examples of BC Atlas Maps (CHSPR)

BC Local Health Area Maps produced by Centre for Health Services and Policy Research

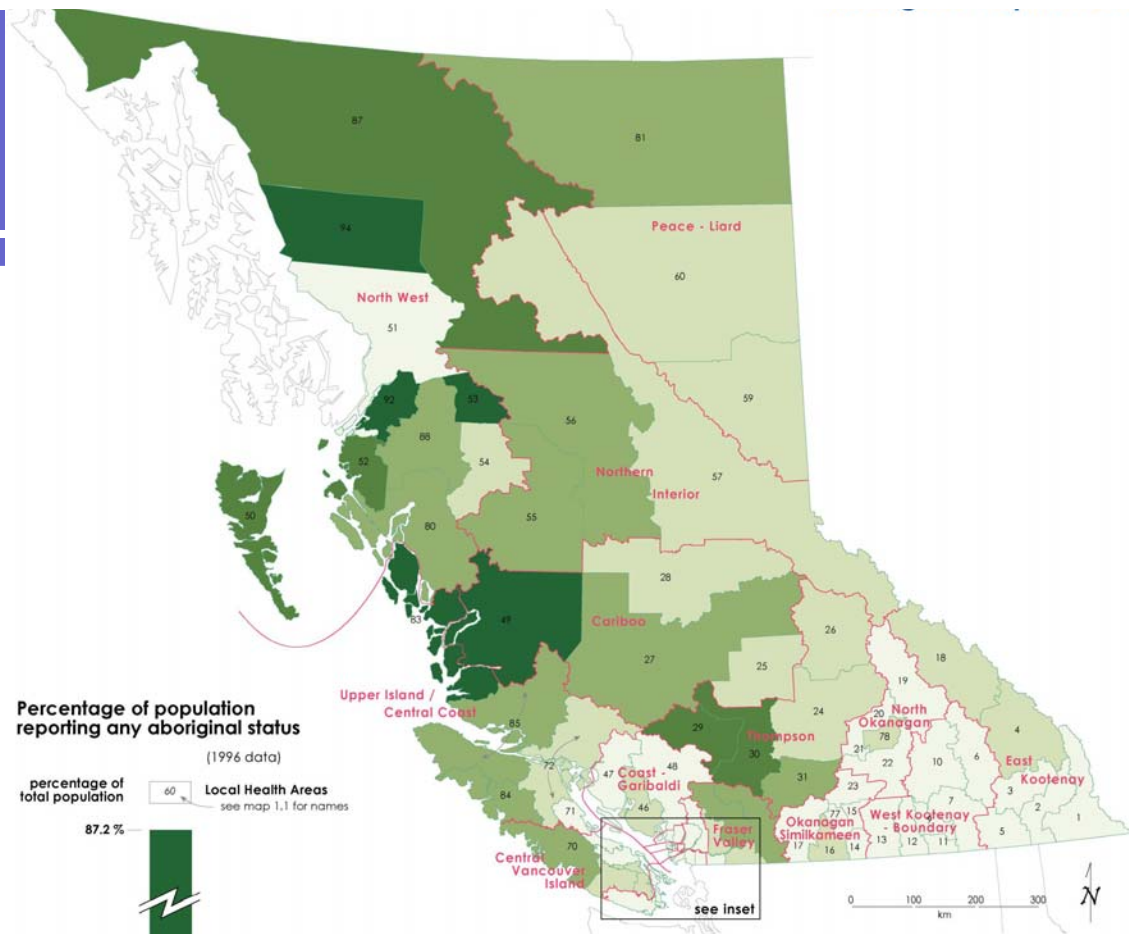
Aboriginal Population

Incidence of Low Income in British Columbia

Unemployment

of Students Enrolled in Band Schools per School District (*HELP)

Aboriginal Population

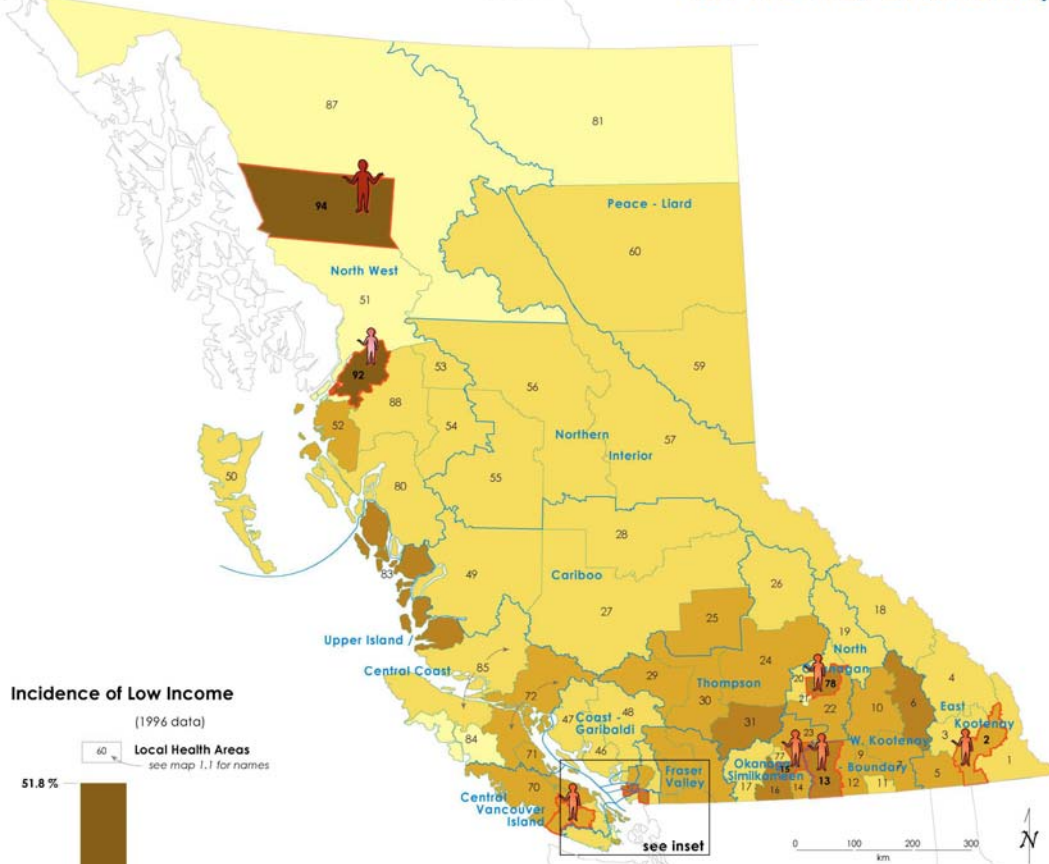


INSET - The Georgia Basin



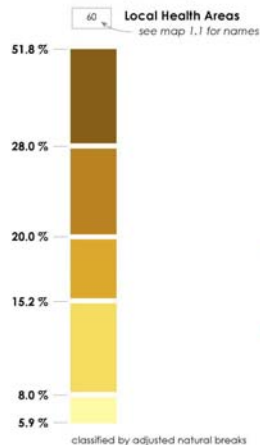
source: 1996 census, semi-custom area profile, Health Data Warehouse, BC Ministry of Health

Incidence of Low Income (1996 Census data)



Incidence of Low Income

(1996 data)



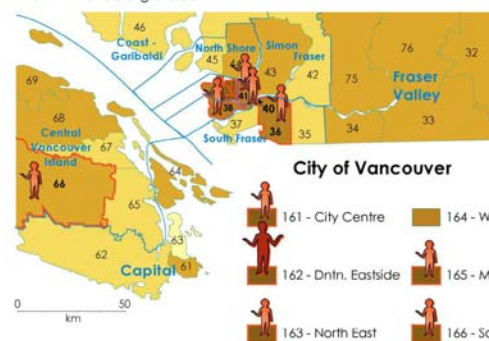
Cariboo Health Regions
see cartogram on following page

Child Poverty

(1996 data)



INSET - The Georgia Basin

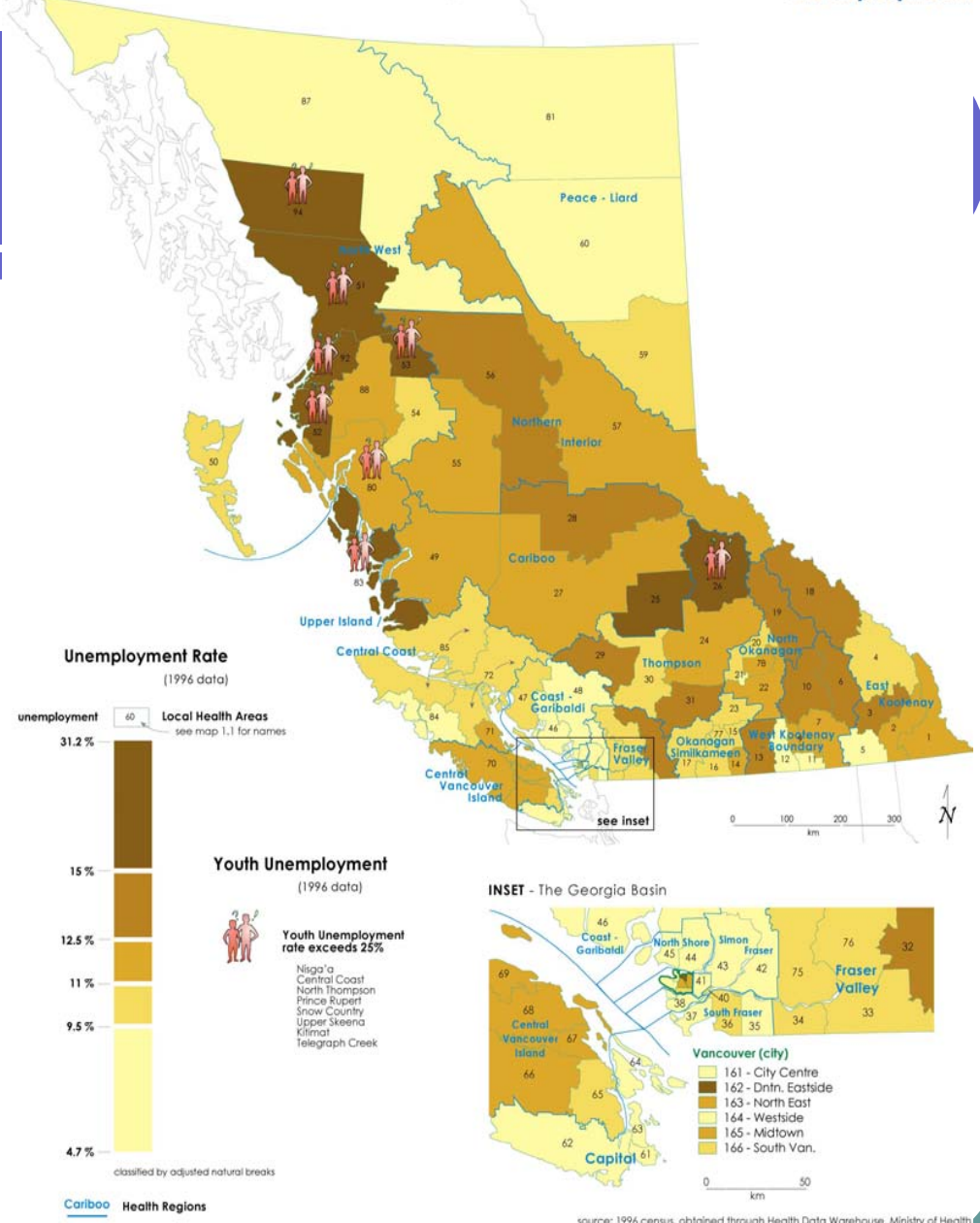


City of Vancouver



source: Health Data Warehouse, Ministry of Health

Unemployment



Examples of Socioeconomic Maps

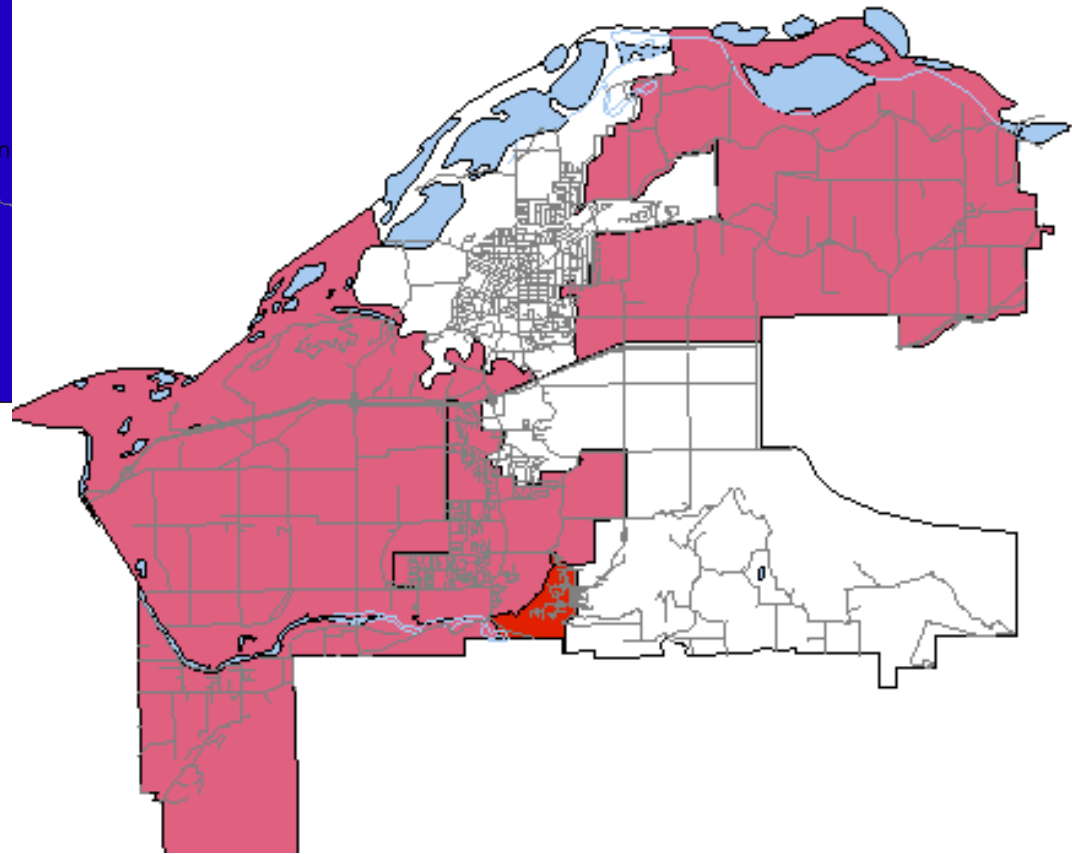
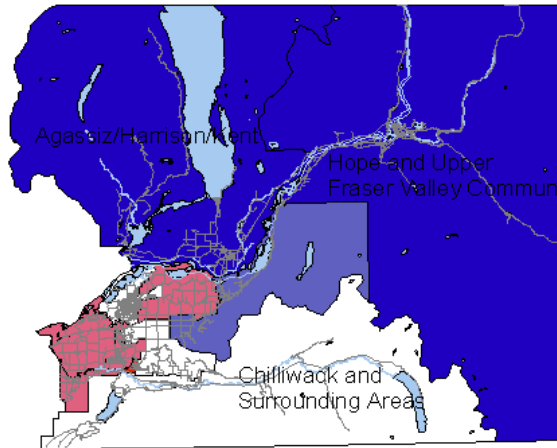
Eastern Fraser Valley

Average Census Family Income, 1996






Vancouver

Renters, Spending 30% or more of their Income on shelter costs

Average Census Family Income, 1996 (E Fraser Valley)

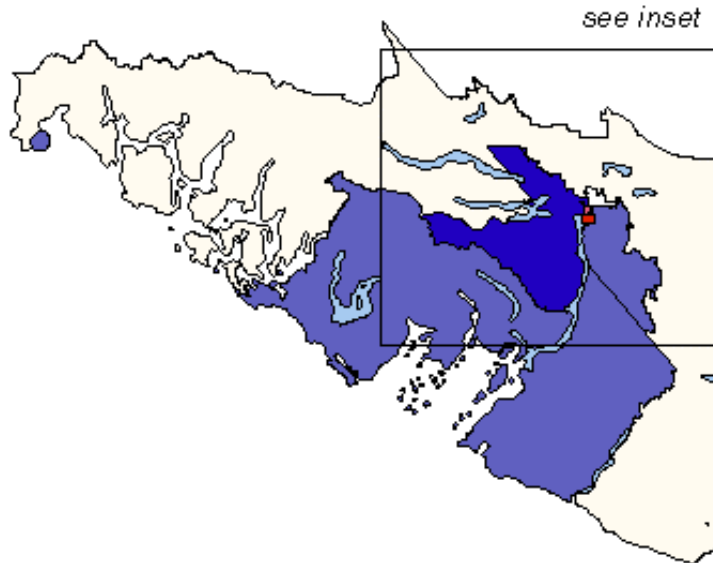


Average Census Family Income

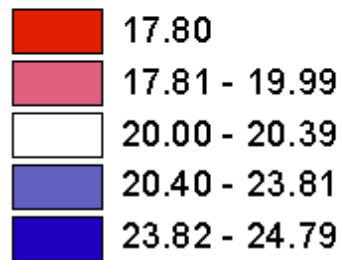
	\$24,757 - \$25,849
	\$25,850 - \$31,472
	\$31,473 - \$38,749
	\$38,750 - \$47,183
	\$47,184 - \$54,220

INSET: City of Chilliwack

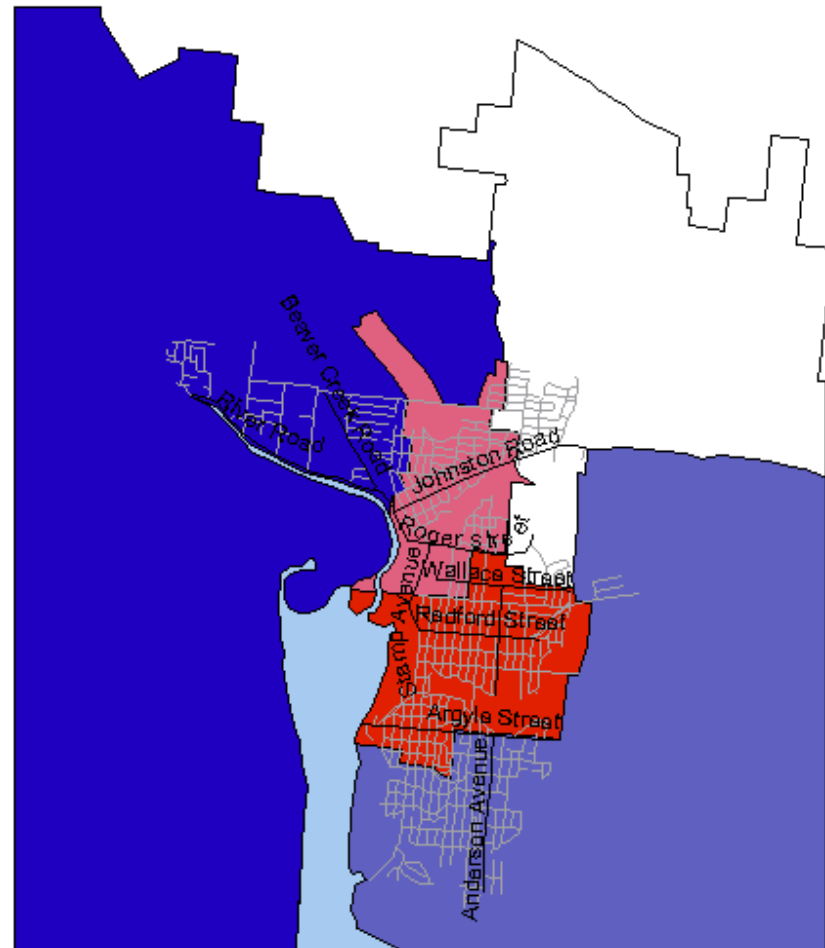
Proportion of the Population 15 Years and Over Performing 15 or More Hours of Unpaid Child Care per Week, 1996



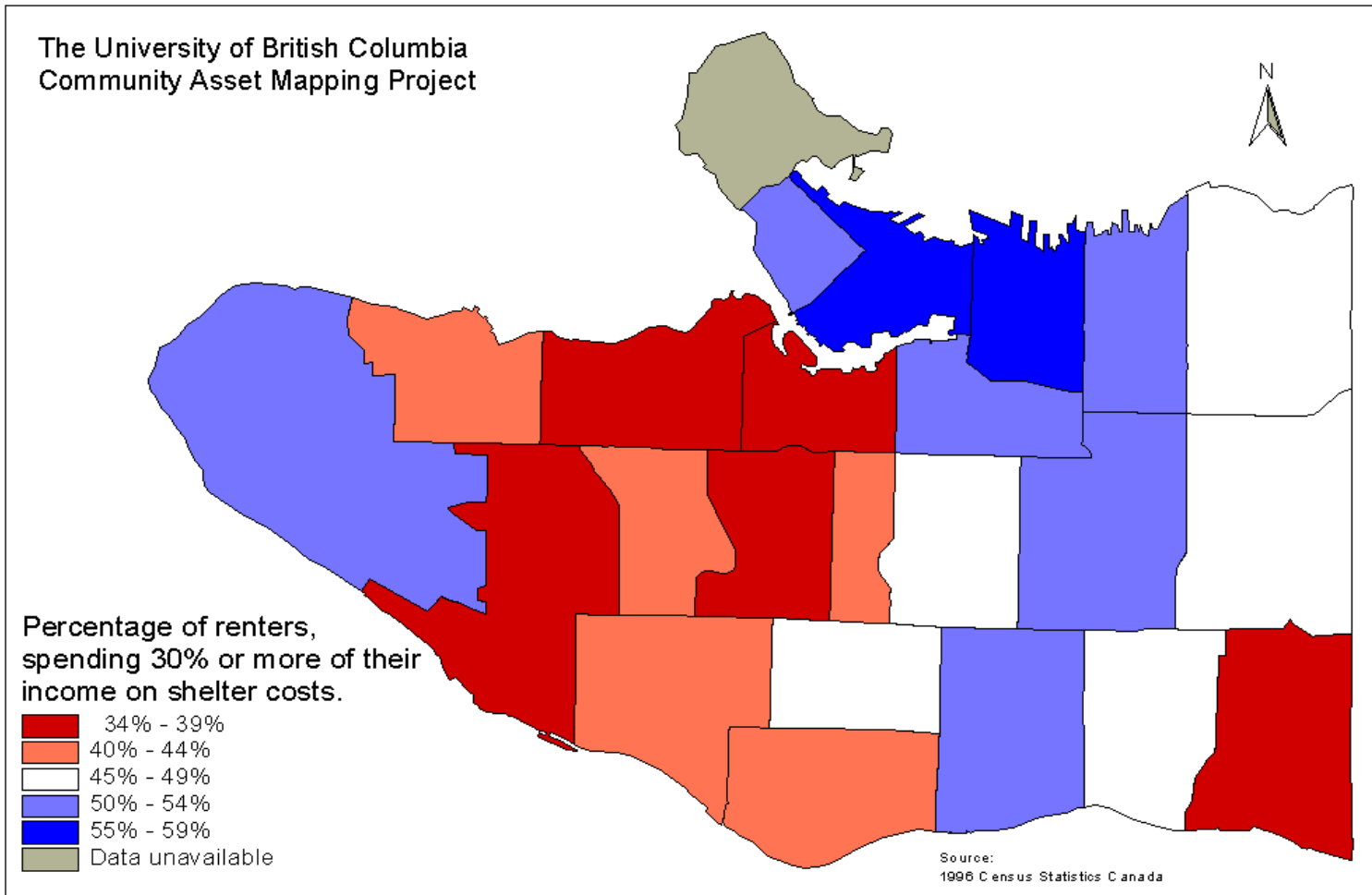
Hours of Unpaid Child Care per Week



INSET: City of Port Alberni



Renters, spending 30% or more of their income on shelter costs



What data are available?

Your Community

Surveys – Conducting Original Community Research

- What programs/services are out there? How do you find this out? (conceptualizing community network of programs)
- What information is collected?
- Is the data collected and inputted into a electronic spreadsheet?
- How long has the data been collected?
- Is address/postal code information available?
- Is the data confidential?

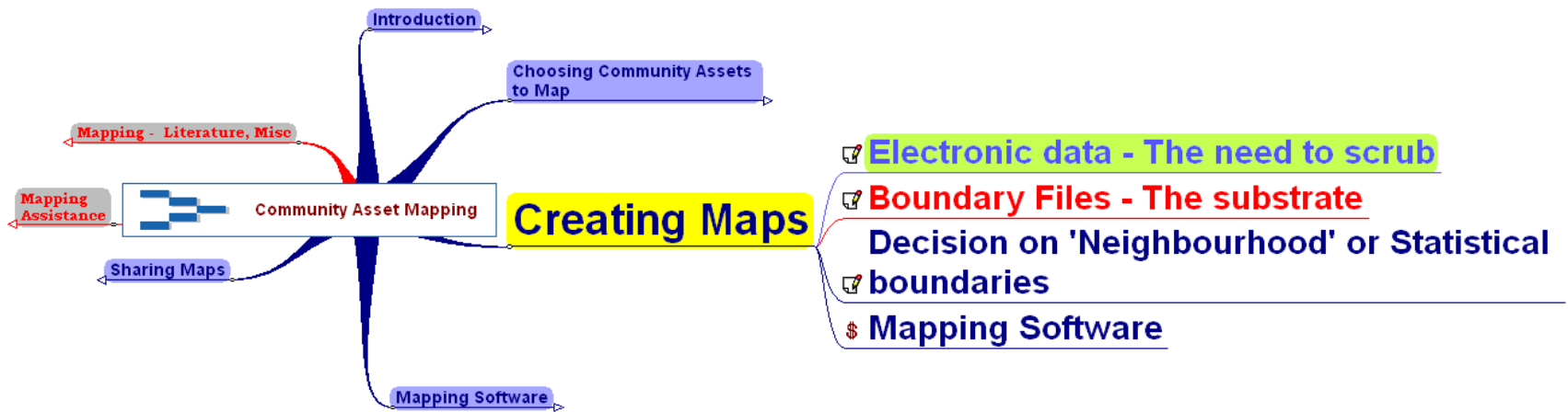
Sample form for collecting data is available, modified from HRDC

Conceptualizing community functions

- Network of functions to provide support related to categories, e.g. domestic violence
- Alternative community support frameworks



Creating Maps: an Overview



This map provides partial information and by no means is complete.

Location Maps – Working with Electronic Data and Preparing to Map

- Getting database information (e-form) (community data survey form)
 - Reviewing data for accuracy & completeness
 - Coding data (no=0; yes=1; missing=9; bdate, postal code)
 - Finding missing postal codes
- *Time budgeted for this is generally underestimated

Taking it further (Maps requiring Data Manipulation....)
(statistics, merging...)

Viewing/Displaying Data

Boundary Files / Choosing 'Neighbourhoods'

Electronic data files for your community (source, type)

- Dissemination Areas, Census Tracts
- Social Planning Areas
- School Catchment

-
- Local Health Areas
 - Micro Health Regions
 - Electoral Districts

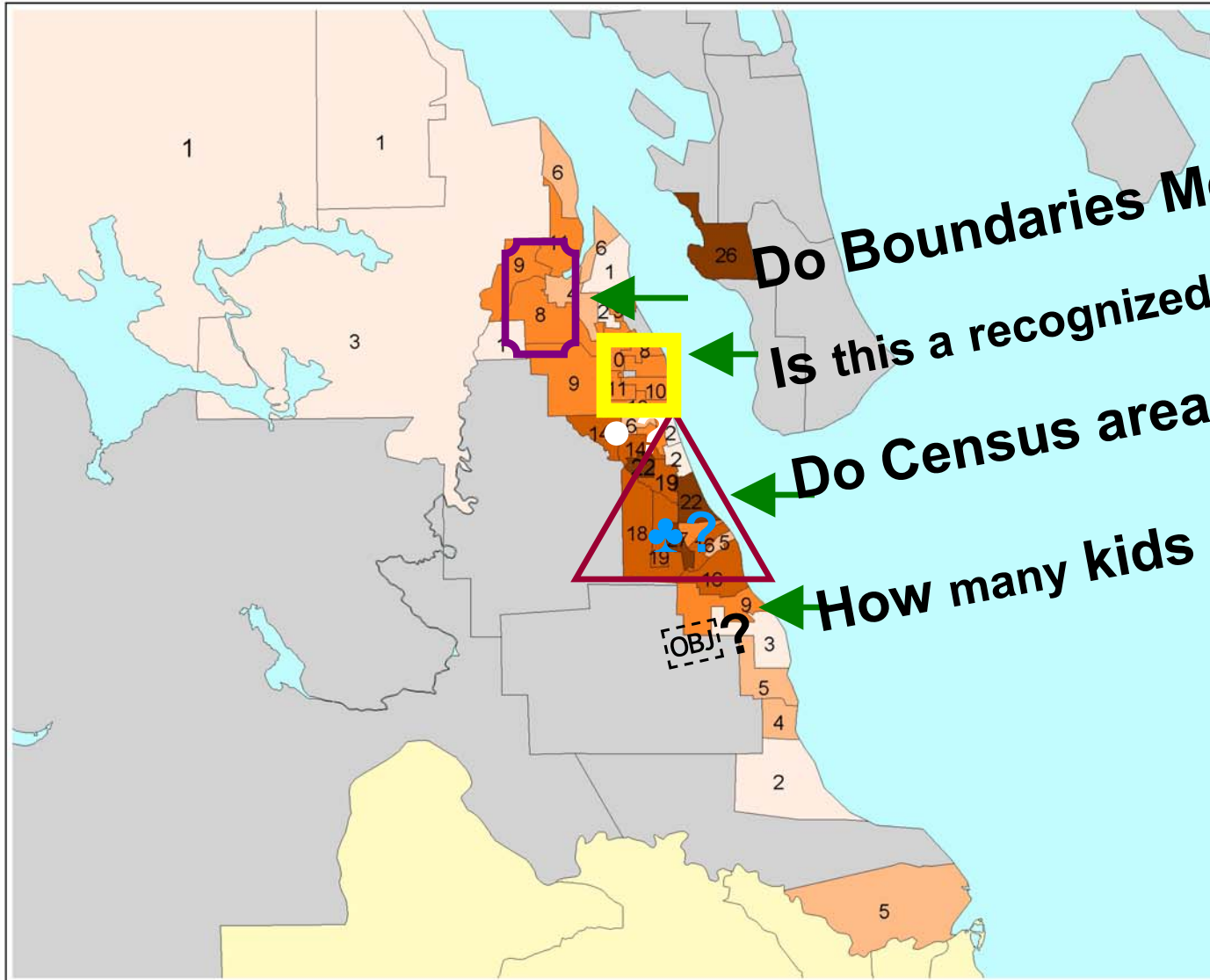
Choosing 'Neighbourhoods'

How would you like to "view" this data?

How do you aggregate your data?

**What are most meaningful
'neighbourhoods'?**

Where are the “recognized” neighbourhoods in Campbell River? How do you identify them?



Do Boundaries Mesh?
Is this a recognized neighbourhood?
Do Census areas aggregate?
How many kids are there per “unit”?

SD72
Campbell River

Legend

COUNT

- 1 - 3
- 4 - 7
- 8 - 13
- 20 - 27
- No Data Reported
- Dissemination Areas (DA)
- Special Service Districts
- Water

427 - Participants



0 0.5 1 2 3 4 Kilometers



Choosing “Neighbourhoods” - Decisions to be Made

One Option of Data Display – Dissemination Areas (aggregated)

- **Dissemination Area (DA)** (new for 2001 Census)
- The DA replaces the Enumeration Area (EA) for 2001, as the smallest unit for which census profile data will be available. The block is the basic unit used to construct the dissemination areas.
- Blocks were aggregated to produce DAs with:
 - - a compact shape
 - - a population of 400-700 (optimum 500);
 - - visible features for boundaries

*approx 50,000 DAs for Canada; 7400 for BC

DAs are based on population, not dwellings as EAs were. Implication-less suppression (3-7% c/f 30%); more stable(?); different boundaries-conversion)

Census Hierarchy (*basic)

Federal Electoral District (FED)

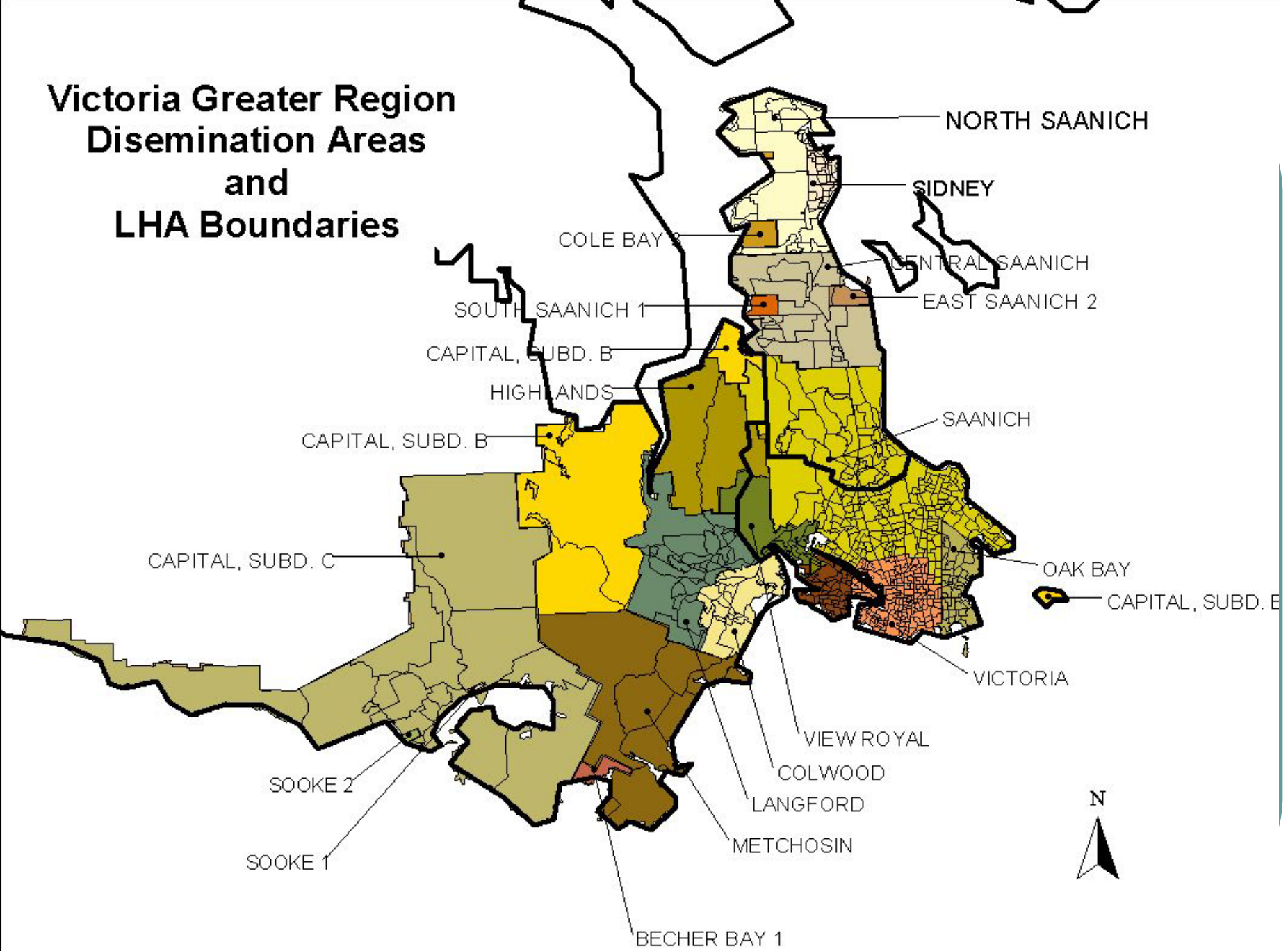
Census Division

Census Subdivision

Census Tract

Dissemination Area

Victoria Greater Region Dissemination Areas and LHA Boundaries



School District 61

SD61 Greater Victoria

Legend

EDI Participants

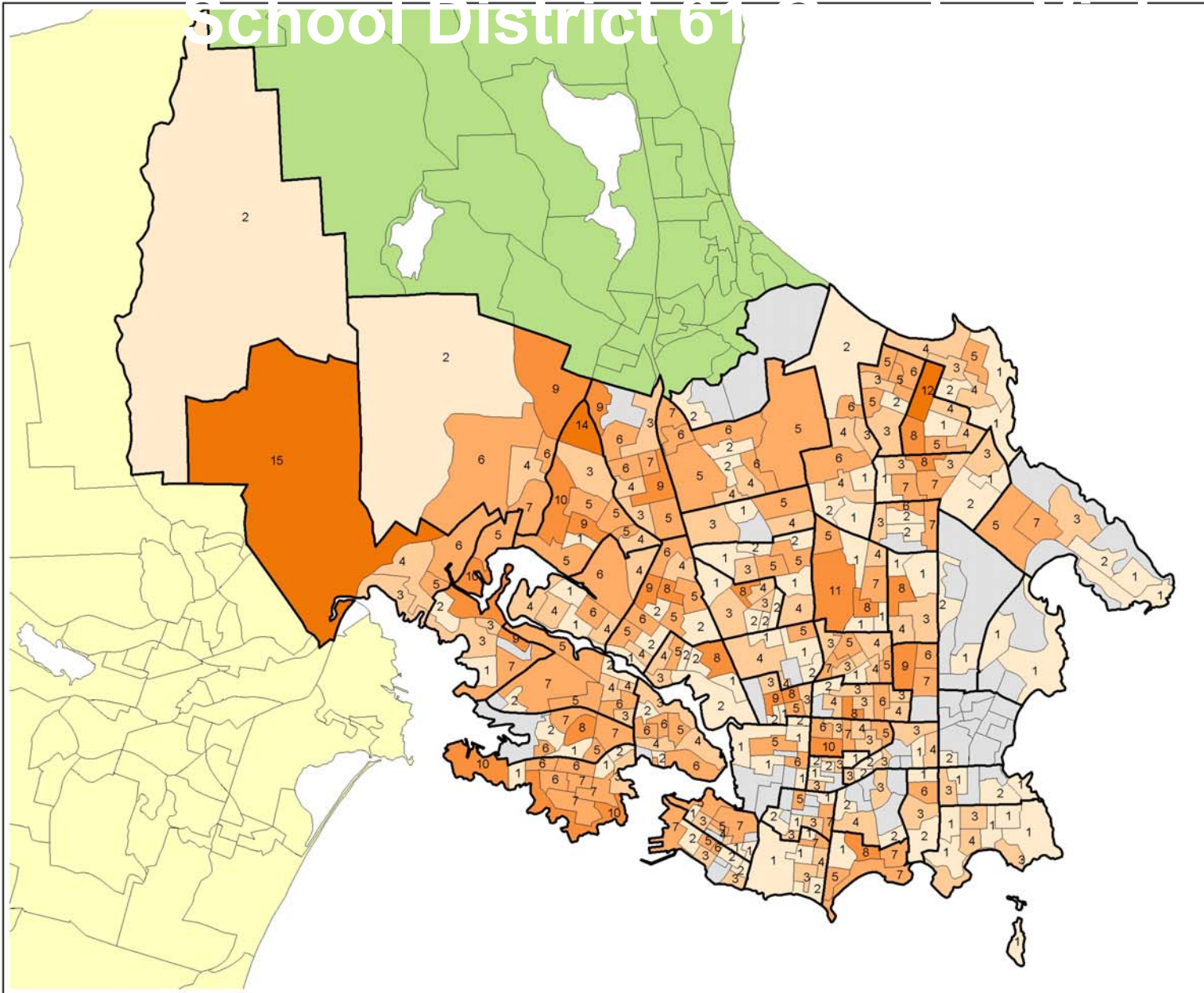
- 1 - 2
- 3 - 4
- 5 - 7
- 8 - 11
- 12 - 15

No Data Reported

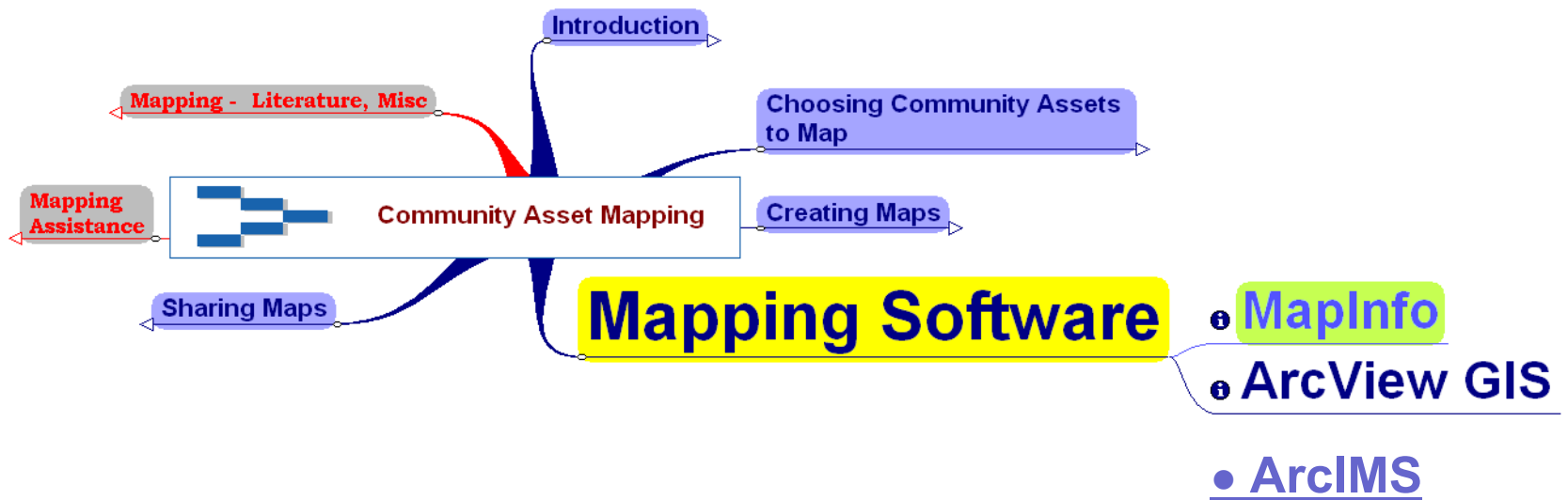
School Districts

- Saanich
- Sooke
- Dissemination Areas (DA)
- Census Tracts (CT)

Participants- 1287



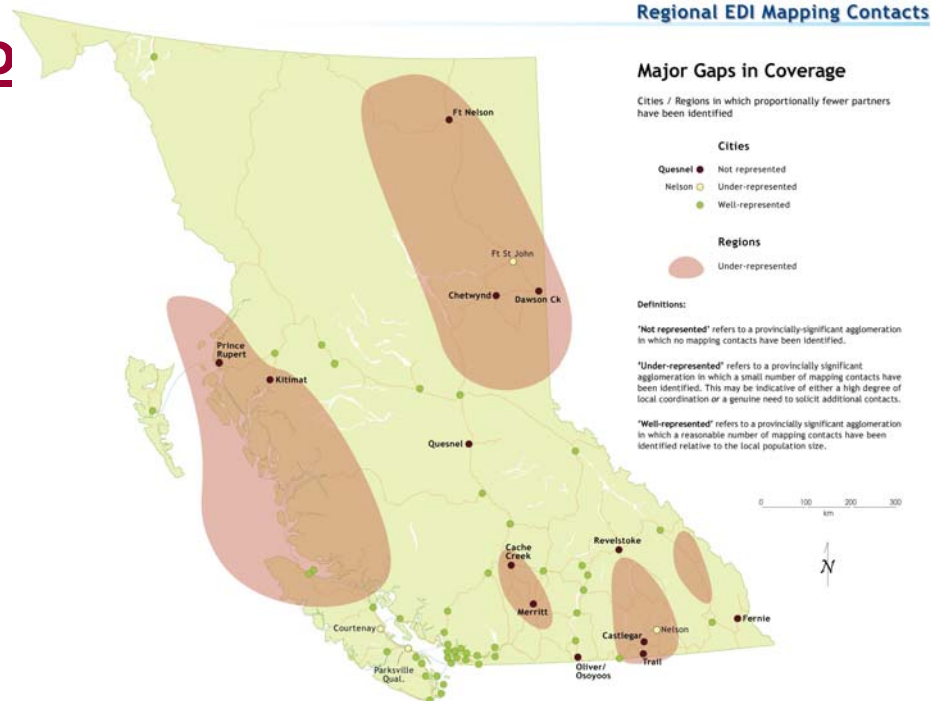
Mapping Software and Creating Maps



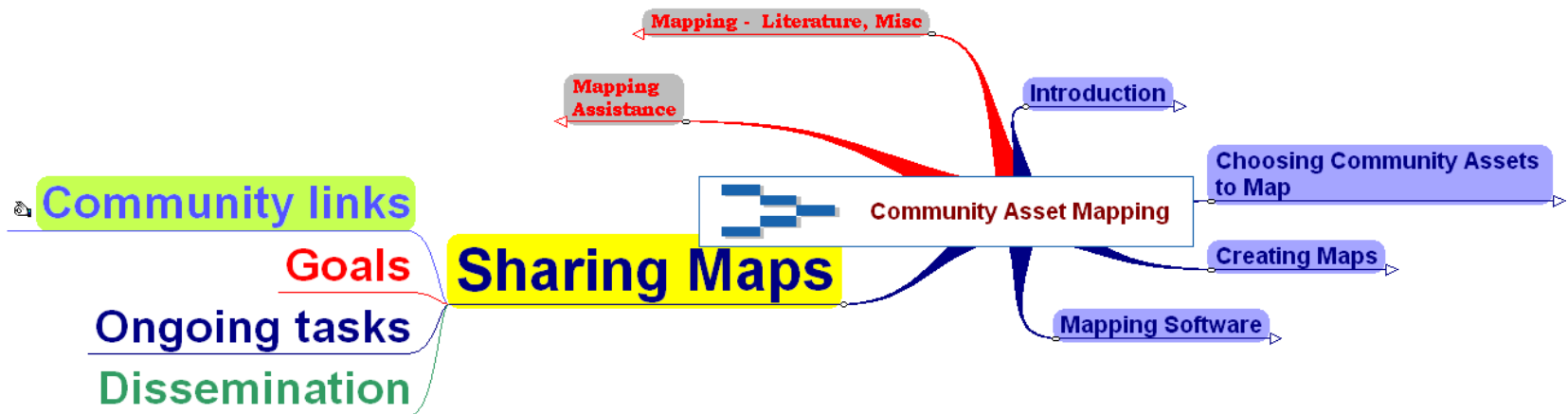
This map provides partial information and by no means is it complete.

- Making maps using a website

- MCFD demo



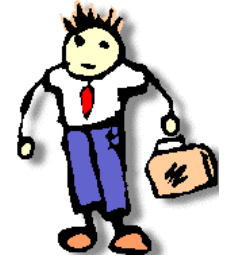
Sharing Maps with the Community



This map provides partial information and by no means is it complete.

Sharing Maps with the Community

- Why have you done the community mapping study?
- What do you want the community to be able to do with the information you have mapped?
- Who are your target audiences?
- What are the best ways to reach them?
- What level of statistical language will be comfortable for each group?



Sharing Maps with the Community

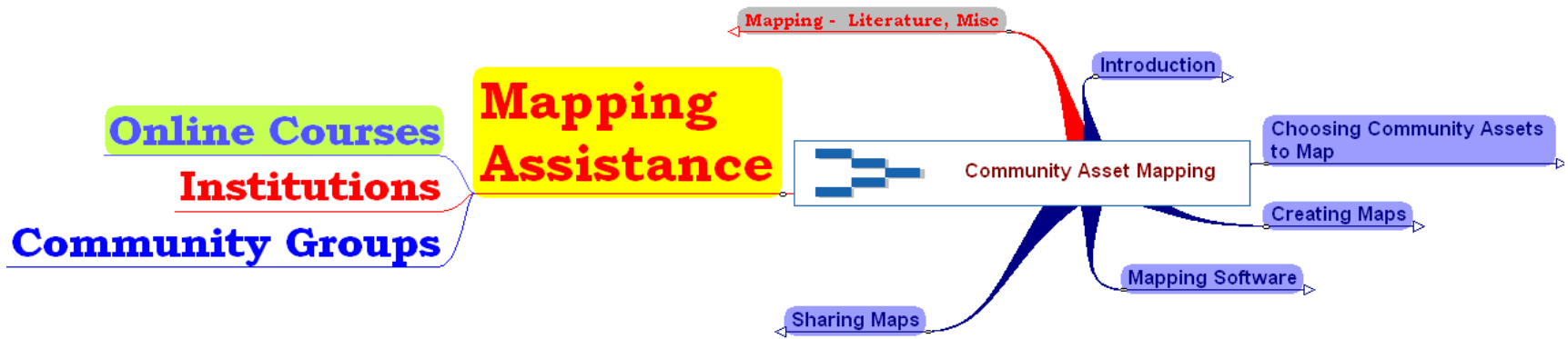
- Who are your target audiences?
 - Community infrastructure
 - Education sector: School district
 - Health sector: Health units/agencies/authorities
 - Other local ministries, e.g. MCFD
 - Municipal governments
 - Business sector
 - Family-serving agencies
 - Voluntary/Service Club sector, etc.



Sharing Maps with the Community

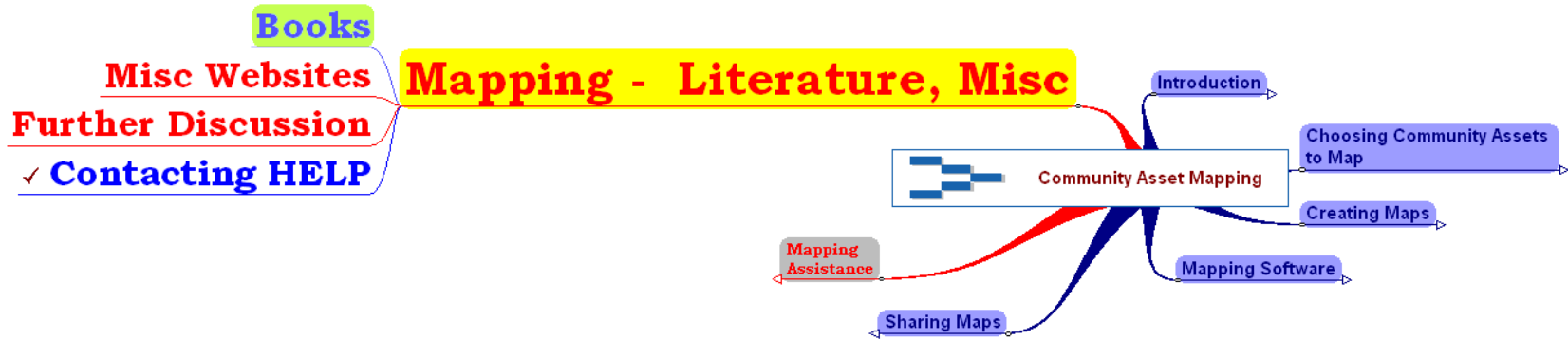
- Who are your target audiences?
 - Community residents
 - Neighbourhood-by-neighbourhood
 - Contact neighbourhood-based hosts
 - Community associations
 - Neighbourhood houses
 - Recreation centres
 - Local Parent Advisory Councils, etc.

Mapping Assistance



This map provides partial information and by no means is it complete.

Mapping - Literature, Misc



This map provides partial information and by no means is it complete.

Learning Sites and Literature

NCGIA Core Curriculum

GIS course notes for all levels

<<http://www.ncgia.ucsb.edu/pubs/core>>

Beginner's Guide to GIS (online)

<<http://info.er.usgs.gov/research/gis/title.html>>

GIS Online Tutorials

<<http://www.geog.ubc.ca/vgd/gis>>

Introduction to Geographical Information Systems

(Heywood 2002)

Community Participation and GIS

(Craig, Harris, and Weiner, 2002)

Books



Books, HELP Website Links...

HELP: Maps

http://www.earlylearning.ubc.ca/pub_map.htm

HELP: EDI

http://www.earlylearning.ubc.ca/mapping_cd_edi.htm

HELP: Vancouver Report

<http://www.earlylearning.ubc.ca/vancouverreport.pdf>

BC Health Atlas:

<http://health-atlas.chspr.ubc.ca/>



Please visit HELP's website:

<http://www.earlylearning.ubc.ca>

Sign up for HELP's Listserv online.

Listserv includes:

Quarterly updates, research projects, new publications and resources, upcoming events, forum notes, etc

HELP's Mission:

“To create, promote and apply new knowledge through leading interdisciplinary research to help children thrive”