

**Customer:** Bell Mobility Inc.

**Project:** Measurement monitoring to quantify the coverage and power of cell networks

**Duration:** 2002

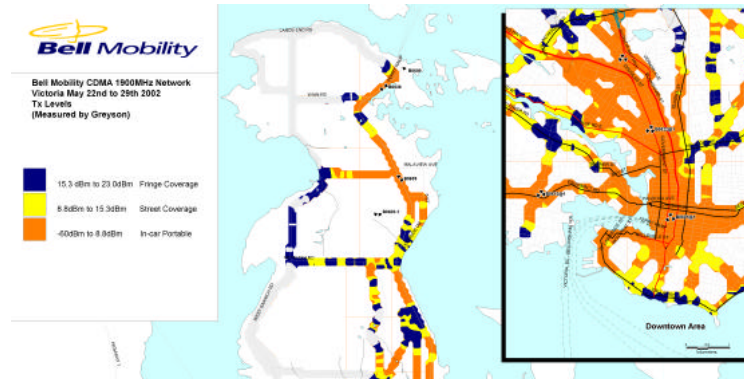
**Scope:** Design and use of a measurement system for cell network coverage.

**Value:** \$150,000

- Highlights:**
- Development of a cell coverage measurement system for AMPS and TDMA technologies.
  - Measurements of CDMA, GSM, TDMA and AMPS technologies.
  - Measurements taken for Bell Mobility, Telus Mobility, Microcell, Rogers AT&T networks.
  - Measurements taken in Calgary, Edmonton, Vancouver and Victoria.

**Description:**

First, the network phase-in process included, among other things, planning out-of-zone transitions to partner networks. This plan required accurate knowledge of the actual coverage of the partner networks that only on-site surveys could provide. Consequently, the first type of monitoring defined accurate maps of cell coverage for networks in the transition zones.



The second type of monitoring provided an overall image of the networks in operation. This measurement phase certified that the zones to be covered were properly covered. It also compared the coverage of the customer's network with that of its competitors' networks.

In all cases, data were collected, validated and compiled by the VIASAT team and then sent to the customer in the form of tables and digital maps.