C satellite in a sequence of high-speed bursts timed almost to the billionth of a second. The signals are retransmitted back down to receiving earth stations where the system interconnects with the standard telephone network.

The service is aimed at large businesses, such as financial institutions and resource companies, that operate all over the country, generate huge volumes of voice, data and image traffic and require high-speed transmission. Costs are relatively low, because rates are based on satellite capacity, not distance.
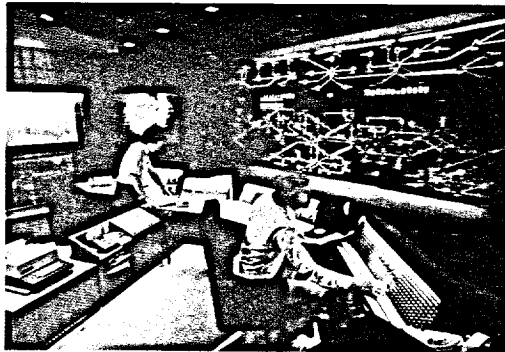
Newspaper Publishing

The text of a major Canadian daily, *The Globe and Mail,* is transmitted by Telesat every night from *The Globe's* Toronto news headquarters to 'satellite' printing plants in Vancouver, Calgary, Ottawa and Moncton. This eliminates the transportation time lag and makes *The Globe* a national publication.

Resource Exploration

Oil and gas company crews in remote locations can have reliable voice and data links with their headquarters through the use of small airtransportable earth stations, such as AEL Microtel Ltd's Spacetel system, and Telesat's satellite system.

Satellite News Gathering Terminals

Telesat's satellites provide TV broadcasters with a reliable, "go-almost-anywhere" means of covering fast-breaking news stories, elections, sports and special events. The satellite news gathering terminal, first developed by the Department of Communications, uses a portable earth station mounted on a truck to send signals *via* satellite to earth stations at network news headquarters. Events at remote locations can be transmitted live and appear instantaneously on television screens across the country.

Telecom Canada's operations management centre in Ottawa monitors the performance of its major transmission routes and switching locations ensuring the efficient operation of its national telecommunications network.

The satellite news-gathering terminal (SNG) uses a portable earth station mounted on a truck to send electronic signals to the Anik B satellite.