

suitable for deployment in aircraft, and designed for the detection of small moving targets. Something smaller than AWACS, with a radar taking advantage of the remarkable signal processing techniques of the 1990s, and with advanced electro-optical sensors, could play a part in North American defence, for which an inadequate number of AWACS are assigned. Such an aircraft would also be of great value for arms control verification and peacekeeping abroad, and the gamut of peacetime applications in Canada. Another area in which research should be pursued is in the possible application of Over-the-Horizon radar inside of the Auroral Zone. If successful, this would offer the possibility of detecting cruise missiles in the Arctic.

When more is known regarding engineering feasibilities, and enough evidence has been accumulated on which to make realistic cost estimates, it should be possible to come to a major decision about a programme for surveillance of Canadian territory and the approaches thereto. The decision will affect the extent to which the Canadian Armed Forces and Canadian science and industry will participate in the aerospace technology of the future.