

Aperture Radar (RAR, SAR) is available from a very small number of companies or organizations globally. The recent "GLOBESAR" exercise undertaken by RADARSAT INTERNATIONAL can supply a useful training base in this regard.

The conceptual modelling for Chart 2 is based on the assumption that the acquisition rate of satellite imagery will be approximately 600 scenes per year, and uses the 1993 costs charged by SPOT Image as an average. Prices for acquisition from Russian sources for NNTM imagery is likely to be less expensive. Personnel costs have been determined by using North American commercial sector rates. These have been reinforced by experience relating to the commercialization of certain verification functions gained from bilateral verification within the context of the INF Treaty. This latter experience suggests that some of the inflated costs sometimes associated with permanent international staff persons can be avoided without detriment to effectiveness.

**CHART 2**  
**IMAGERY ANALYSIS GROUP: ILLUSTRATIVE PERSONNEL STRENGTH**

DIRECTOR/ASSISTANT DIRECTOR		2 PY			
ADMIN SUPPORT		ANALYSIS PROCESS		TECHNICAL SUPPORT	
OFFICE MGT	1PY	SENIOR ANALYSST	2PY	TECHNICAL MGR	1PY
CLERKS	5PY	ANALYSTS	26PY	TECHNICAL SUPPORT	2PY
				ARCHIVIST	1PY
				ARCHIVIST SUPPORT	1PY
				PROGRAMMER	2PY
SUBTOTAL	6PY	SUB-TOTAL	28PY	SUB-TOTAL	8PY
				TOTAL	44PY
PY = PERSON YEAR					

An imagery analysis group staffed at the level shown above could produce in excess of 50,000 person hours of imagery analysis per year. This would be focussed into updating of existing maps, providing an ability to undertake broad area coverage, identify and draft site maps, provide graphic material required for briefing and familiarization purposes and develop data fusion techniques. With familiarity gained from experience and the progressively improved resolution quality of imagery acquired, effectiveness could be increased significantly over time without additional PYS.

This cost estimate does not include capital costs incurred in setting up an imagery analysis capability. An estimate of these one-time costs can be interpolated from the United Nations Experts Study undertaken in 1981 following the submission by France for a proposal for an International Satellite Monitoring Agency (ISMA).