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## development of a long term strategy for the sustainment of the International Monitoring System Sustainment

Sustaining the International Monitoring System (IMS) network, operated by the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), has become one of the key focus areas of the CTBTO as the installation and certification of more than 90% of the IMS network facilities is complete. The network has evolved over time from the initial focus on station installation and certification, to maintenance of stations, to the current situation where the primary focus is on sustainment. A significant proportion of IMS stations will exceed 20+ years of continuous operation. It is therefore expected that an increasing number of stations and their infrastructure will need to be recapitalized. In anticipation of this, a sustainment strategy for the IMS has been developed that includes a comprehensive understanding of the lifespans of the subsystems at IMS stations for all technologies, the ages of the currently installed subsystems, and the anticipated time when certain stations will require recapitalization. This strategy has enabled the CTBTO to develop various scenarios and their associated risks that can be considered over the next 20 years.

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