The Virtual Laboratory for Education and Training in Satellite Meteorology (VLab) was established by the World Meteorological Organization (WMO) and the Coordination Group for Meteorological Satellites (CGMS) back in 2000. The VLab mission is to help improving the utilisation of satellite data and products from meteorological and environmental satellites across the globe. Over the past ten years, the VLab became a global network of Centres of Excellence (CoEs) specialised in Satellite training for Meteorology. Supported by one or more CGMS satellite operators, CoEs are often co-located with WMO Regional Training Centres (RTC). They are established in the various WMO Regions to meet user needs for increased skills and knowledge in using satellite data within their Region. Each CoE is responsible for conducting training activities, developing and sharing online training materials, and supporting one or more online Forums to build up the community of practice. From the six original CoEs, the VLab has grown to the actual eleven Centres, and seven satellite operators. The technological advances of the past few years have not only offered possibilities of using new learning approaches but also posed challenges to the training strategies used. Building upon the currently available expertise within the VLab network, training activities have mainly focused on satellite remote sensing, with emphasis on high impact weather, climate and hydrometeorology. Taking into account evolving satellite user requirements, the focus of VLab activities could be widened to support training related to ocean applications, hydrology and water management; and also GEO societal benefit areas, such as agriculture, biodiversity, disasters, ecosystems, and energy. The recently revised WMO competency standards call for the VLab community to incorporate the competency-based approach into its education and training activities. The sustainability and success of the VLab model of education and training has relied on the commitment of all partners, cooperation in the virtual environment, and collaboration in developing, delivering and sharing training resources. Taking into account the dynamic expansion of VLab capabilities, sponsorship from additional satellite agencies and the inclusion of more CoEs can be expected in the coming years. This growth will ensure that all countries within a particular WMO Region can benefit from VLab training activities and where possible, that training can be provided in more WMO official languages.