

# Socio-Economic Benefits of Satellite Technologies

## *Abstract*

The curiosity is ever pushing human race to see and achieve what is beyond our limits. Once we achieved our utmost desire to fly like birds, sky becoming limit to human determination. Now we have wings (Planes) and eyes (Satellite) in space, the eagerness to understand more and more bring us close to the endless opportunities for the benefits of mankind on Earth. Since the very first endeavor in space, almost 60 years back in time, the human bustle in outer space have generated a lot of ways through which the quality of life on Earth has improved. The advancement in satellite technologies and space explorations contribute a lot towards the overall socio-economic developments of the countries. Despite of being the most challenging and risky field, satellite technologies broadens our perspective about Mother Nature, enhance our understanding of Universe and enable us to play smartly with our space knowledge for the betterment of our race.

Satellites, started journey from being merely the Earth & Space observes, have found applications implanted virtually in every field of the world stretching from National Security to Oceanography. Over the years space technologies have played a major role towards the socio-economic gains of the Nations. Apart from the conventional use in Telecommunications, Weather Forecasting and Navigations, Satellite data is being used in Agriculture for crops estimation, irrigation and to identify deforestation; In Geology for petroleum and mineral exploration; In Urban Planning for population density and land information; In Environment for water and air pollution and wild life protection and most importantly in Tsunami & Flood early warning systems and Disaster & Relief Management.

In 2016, global space economy was worth around US \$329 Billion and its strategic importance is evident in every country's social and economic development. Although space technology is a luxury for under-developing nations it has huge returns on investment.

## *Bibliography*

[1] SUPARCO, Pakistan's National Space Agency, [www.suparco.gov.pk](http://www.suparco.gov.pk)

[2] Annalisa, Nicola, Space Industry and R&D, Australia "Societal and Economic Benefits of a Dedicated National Space Agency for Australia", August 2017.