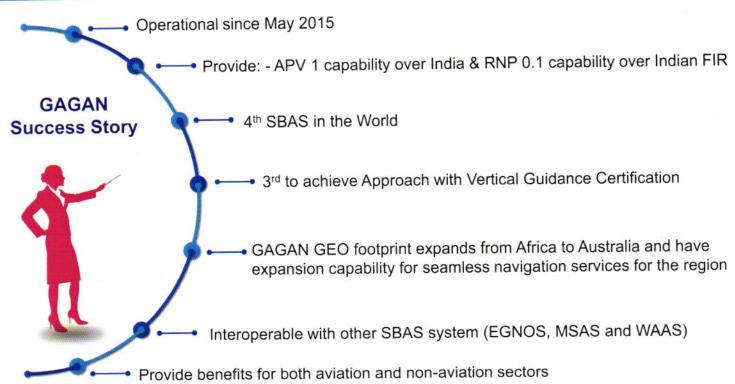


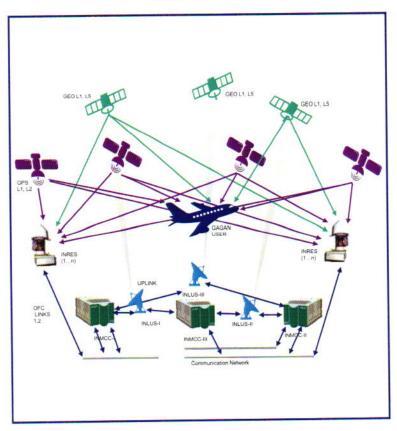


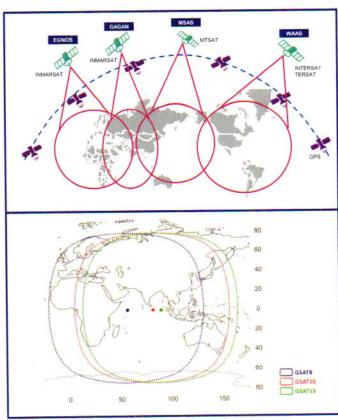




GPS Aided GEO Augmented Navigation (GAGAN) Indian Satellite Based Augmentation System













Benefits in Indian Aviation Sector

Significant cost savings due to withdrawal of ground navigational aids

Provides improved efficiency - direct routes, increased fuel saving

Ensures reduced workload of flight crew and Air Traffic Controllers

Optimum air-space utilization - Improved capacity through reduced airspace separation

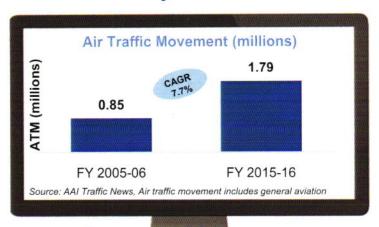
Enhances safety - higher accuracy, global coverage

Compatible with non-aviation receivers

Provide ease of search and rescue operations

Reduced noise pollution footprint

GAGAN will improve air traffic movements that has grown two-fold over the last 10 years



By adopting GAGAN for aviation, flight delays, diversions, and cancellations will be minimized, while reducing controlled flight into terrain incidents by 75 percent

Enhances regional connectivity

GAGAN system will enhance regional connectivity in an economic way -

Through increased accessibility to smaller airports, especially during adverse weather conditions

Changing all VFR (Visual Flight Rules) airport to IFR (Instrumental Flight Rules) airport (without putting any equipment)

The Regional Connectivity Scheme of the government of India envisions to bring affordable flying to masses. GAGAN will play a crucial role in reducing cost and ensuring safety for increased air traffic

GAGAN Geo-Footprint

Airports Authority of India is taking initiative to support countries in the South Asian, South East Asian region to leverage the GAGAN system for providing seamless navigation signal accuracy in the larger region neighboring India up to 1500 nautical miles.

National Civil Aviation Policy 2016 prescribes "New aircraft being registered in India from 1st Jan 2019 will mandatorily have to be GAGAN enabled"

Benefits to Non-Aviation sector

GAGAN signal can be used by a wide range of civilian and non-aviation users

Railways Roads With the use of GAGAN

software system, a train GAGAN will enhance safety, mob egulation and enable payment

would know the location of any unmanned level signal can be given

crossing and a warning

Others

GAGAN has potential to support other sectors including mapping & surveying, telecom, disa ster mitigation as well as search and rescue operations

Maritime

GAGAN will

Navigation and

Positioning in

Subcontinent

improve

the Indian

and Inland

waterways

Agriculture

applications

GAGAN will offer a low cost solution for precision farming in India where 85% of the farm holdings are less than 20 acres

Benefits to Non-Aviation sector

www.gagan.aai.aero