Beidou satellite navigation system of China

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In news— China has recently outlined plans to further expand the global reach of its home-grown Beidou satellite navigation system, billed as its alternative to America's Global Positioning System (GPS).

About Beidou satellite navigation system(BDS)-

- It consists of two separate satellite constellations.
- The first BeiDou system, officially called the BeiDou Satellite Navigation Experimental System and also known as BeiDou-1, consisted of three satellites which, beginning in 2000, offered limited coverage and navigation services, mainly for users in China and neighboring regions.
- BeiDou-1 was decommissioned at the end of 2012. The second generation of the system, officially called the BeiDou Navigation Satellite System (BDS) and also known as COMPASS or BeiDou-2, became operational in China in December 2011 with a partial constellation of 10 satellites in orbit.
- Since December 2012, it has been offering services to customers in the Asia-Pacific region.
- In 2015, China launched the third generation BeiDou system (BeiDou-3) for global coverage. The first BDS-3 satellite was launched on 30 March 2015.
- On 27 December 2018, BeiDou Navigation Satellite System started providing global services
- BDS, which now has a "constellation" of 30 satellites in orbit, began its international outreach once the set up was finished in 2018.
- It is now in use "in more than half of the world's countries".

- Pakistan in 2014 became the first foreign country to set up a Beidou network.
- Beidou has set up a first of three Continuously Operating Reference Stations (CORS) for its network in Thailand in 2013, to serve as a hub for ASEAN.
- China and Sri Lanka also agreed plans to set up 10 CORS.
- Its application in China now included use in guiding drones, autonomous cars, in agriculture and forestry, as well as launching with Chinese mobile phone companies, using Chinese chips, satellite-powered messaging for smartphones that provides for connectivity in remote areas even in the absence of ground reception.