

**INDO-PACIFIC
GEOINTELLIGENCE**



**THEME SPACE INFRASTRUCTURE
AND GEOINT STRATEGY**
A SHARED VISION

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Asserting Data Sovereignty

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Data Sovereignty



- Is it an Oxymoron term ?
- Metcalfe's law requires more the computers in a network, exponentially more will be its power, but Sovereignty requires that the communication between computer (processing of data) is controlled.
- Data Sovereignty is not Data Resilience, it is the absolute right of government over data generated and/or processed with in Indian Physical territory
- Governance, Public Administration

Data as per Personal Data Protection Bill 2019



"data" includes a

- representation of information,
 - facts,
 - concepts,
 - opinions or
 - instructions
- in a manner suitable for
 - communication,
 - interpretation or
 - processing
 - by humans or
 - by automated means

Is data equal to electronic records as mentioned in the Information Technology Act 2000?



Section 4. Legal recognition of electronic records

- Where any law provides that information or any other matter shall be in writing or in the typewritten or printed form, then, notwithstanding anything contained in such law, such requirement shall be deemed to have been satisfied if such information or matter is--
 - (a) rendered or made available in an electronic form; and
 - (b) accessible so as to be usable for a subsequent reference.

Section 11. Attribution of electronic records.

- An electronic record shall be **attributed** to the originator--
 - (a) if it was sent by the originator himself;
 - (b) by a person who had the authority to act on behalf of the originator in respect of that electronic record; or
 - (c) by an information system programmed by or on behalf of the originator to operate automatically

Why there is need to assert Data Sovereignty?



Nation State

- National Prosperity
- National Security
- Safety and Security of Citizen's well being
- Strategic Digital Transformation

Big Corporate

- New Version of “East India Company”
- Global digital colonization
- Corporate Profits
- Securing Corporate Rights
- Corporate rules overriding Nation-state laws

Signs of Data Sovereignty in India



- Laws

- The Information Technology Acts 2000
- Digital Personal Data Protection Bill 2023??
- Digital India Bill 2023??
- The Telegraph Act
- Regulators -----
- Cyber Security Strategy/ Policy/ Approach?????

- Structures

- National Cyber Security Coordinator
- CERT-In
- NCIIPC, Other CERTs, NTRO, CDS, NCPCI, I4C, Cyber Police Stations.....

The Index (How Data Sovereignty can be measured)



- Laws, Rules and Regulations And there enforcement
- National Cyber Security Structures
- Governmental Data Analytics Capabilities (Refining the Petroleum)
- Protection of Fundamental Rights in Digital World
- National Data classification approach (Financial, Personal, Defence)
- National capacity building strategy

Signs of assertion of Data Sovereignty in India



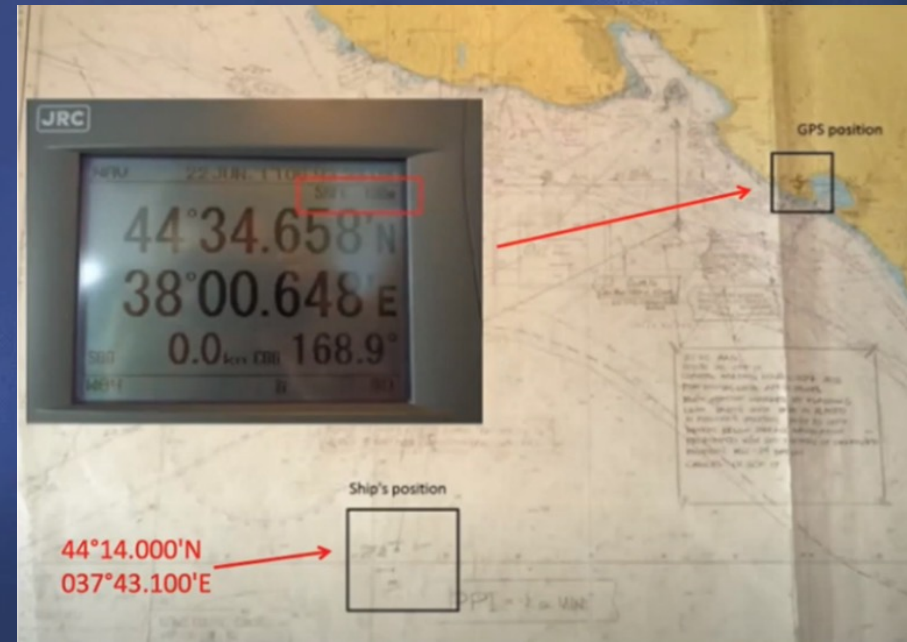
Role of Geo-Intelligence is Data Sovereignty



Indicated Position

2017- Mass GPS Spoofing – 37.5K ton tanker in Black Sea ATRIA off Russian port GPS location at Gelendzhik Airport 20 nm away.

Actual Position



44°14'00.0"N 37°43'06.0"E

East Mediterranean Sea - 2018



Lost or erratic GPS signals, accuracy issues, and other GPS signal interference reported in:

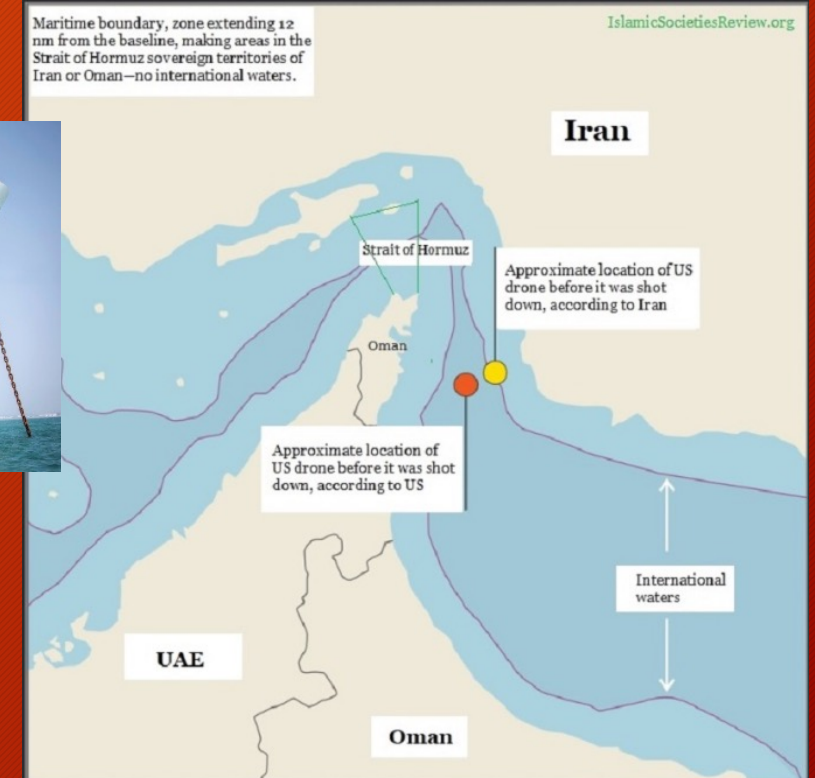
- Cyprus (Mar, Nov)
- E. Med region (Mar-May)
- Haifa (Nov)
- Jedda Port (Oct)
- Port Said & Suez Canal (Mar, Jul, Oct, Nov)



Stena Impero Case - 2019



Tankers' routes through the Strait of Hormuz



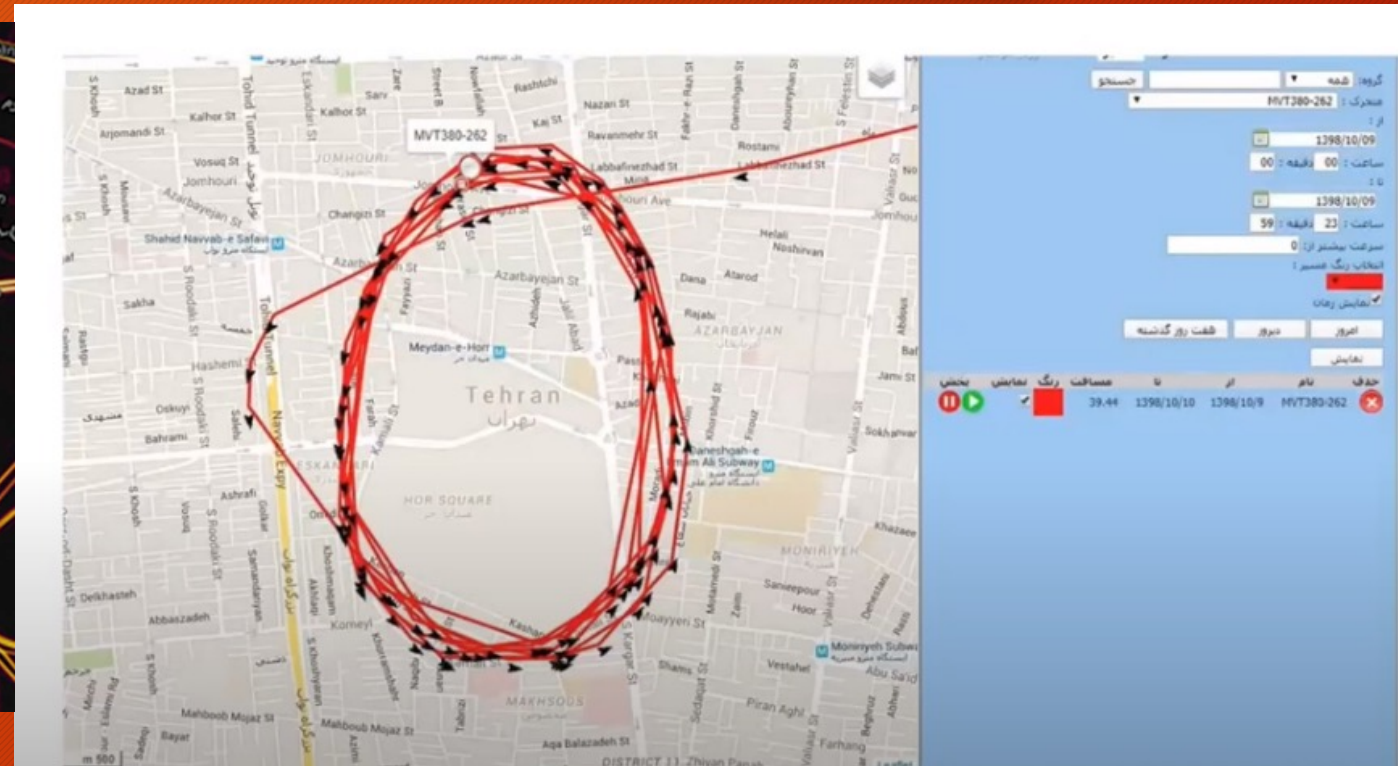
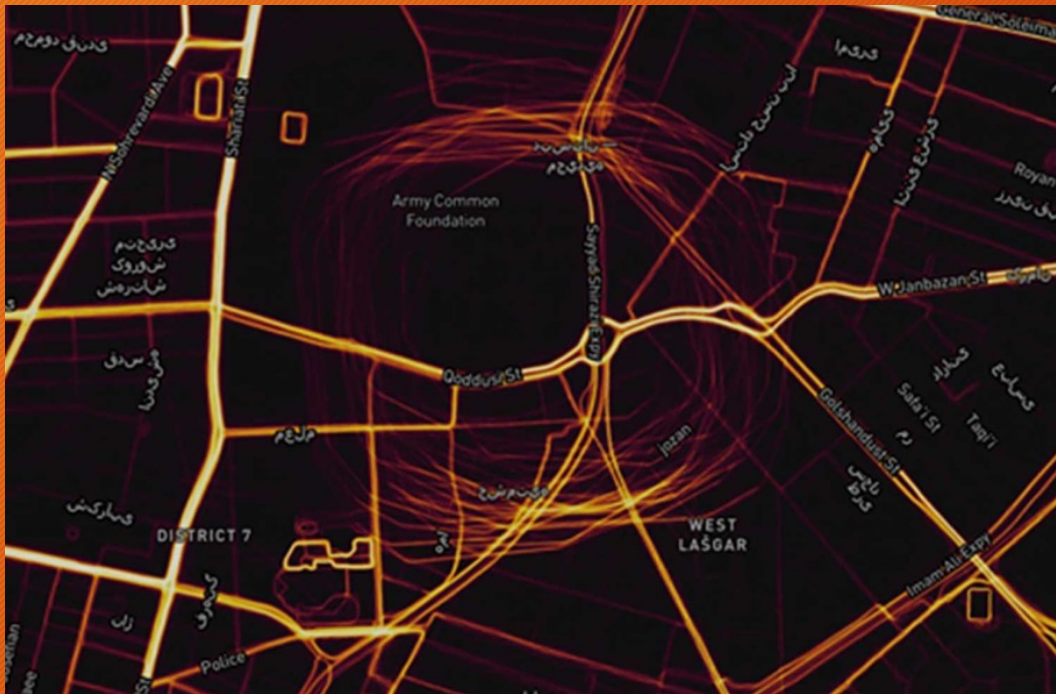
Port of Shanghai – 2019 MV Manukai - US Flag



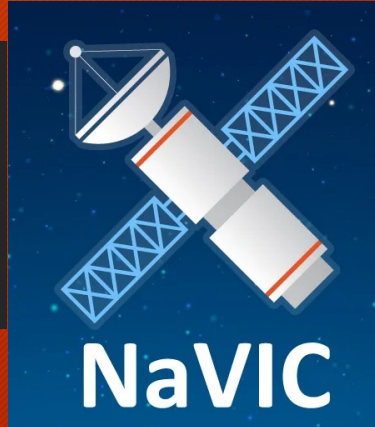
"Crop circle" in Shanghai



Circle Spoofing by Iran



Asserting Data Sovereignty in Geolocation

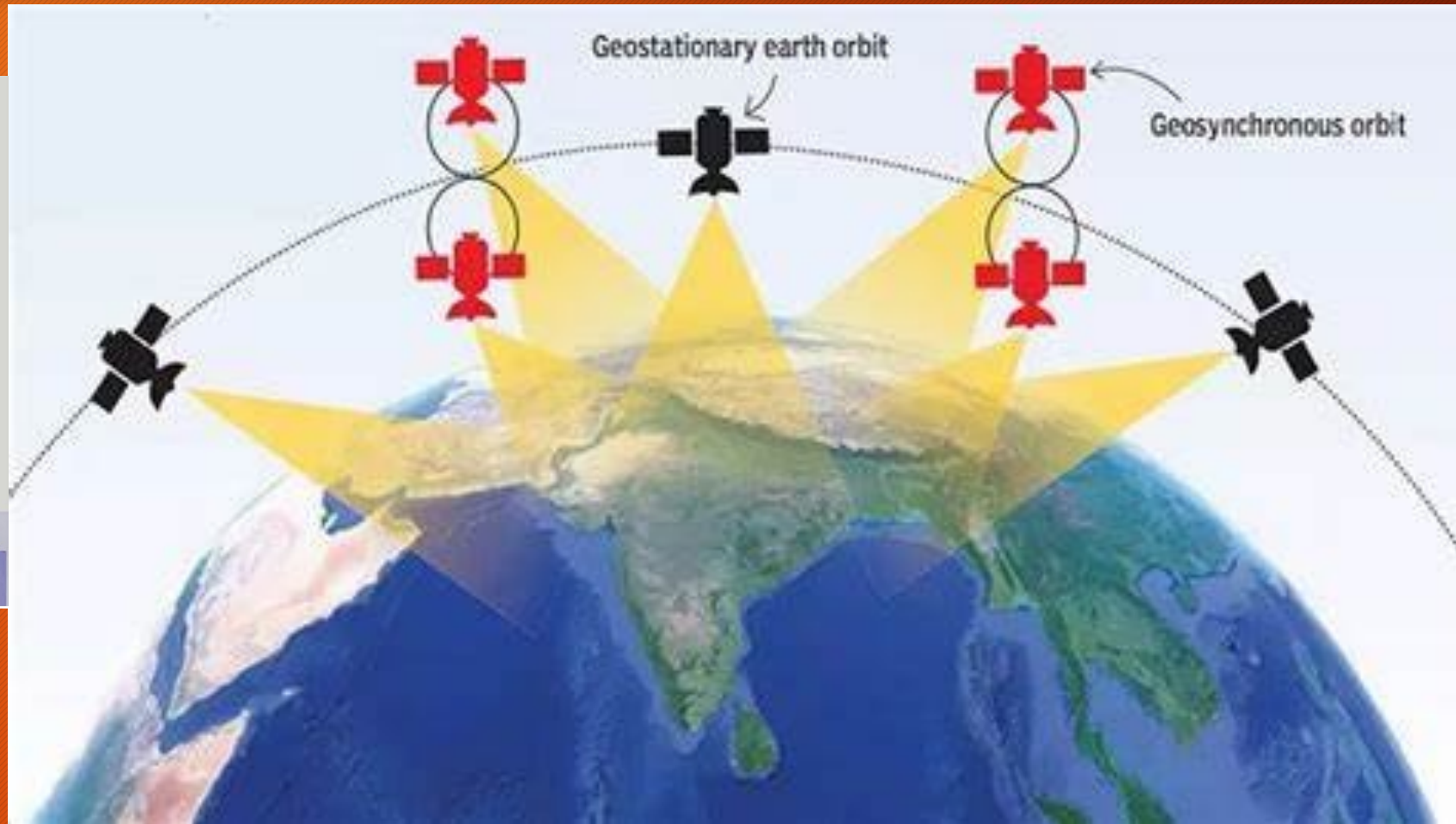


NVS 01

GSLV - F12 / NVS-01 Mission



29th May 2023 -
First of the second-
generation
navigation satellites



NavIC offers two services -- Standard Position Service (SPS) for civilian users and Restricted Service for strategic users.

Final Statement



“If Data is like petroleum then unless it is refined and processed it is just a googy slippery fluid product. Therefore no point claiming data sovereignty and sitting on Zeta x Zeta amount of data and not processing it for national wealth creation.”

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Jai Hind



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