

THE NEXT COMPASS
Precision Navigation for the 21st Century

PRECISION. REDEFINED.
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INSIGHT



A few questions first



**POSITION
NAVIGATION
TIME**



Powers the World

Aviation

Maritime

Drones

Construction

Cars

Finance





Countless GNSS Failure and Refusal Incidents

USA Refuses India's Request for GPS Data During Kargil Conflict

New Delhi, June 1999 — In a setback to India's military operations in the Kargil sector, the United States has refused New Delhi's request for access to high-accuracy Global Positioning System (GPS) data. The data was sought to

Defense analysts say the denial underlines India's strategic vulnerability in depending on foreign technology during wartime. Military officials believe that real-time GPS inputs could have significantly aided artillery and air strikes

BrahMos failed as US shut its eyes in the sky?

DRDO scientists have launched a probe and examining the failure of the BrahMos missile.



World Shipping Routes Crippled by Navigation System Crash

A massive wave of electronic warfare attacks has crippled GPS-based

blackouts and false positioning data, forcing captains to reduce speed or halt

Azerbaijan Airlines Flight 8243 Crashes Near Aktau

December 25, 2024 — An Azerbaijan Airlines Embraer 190 operating Flight 8243 from Baku to Grozny crashed near Aktau, Kazakhstan, after multiple failed landing attempts in poor weather.

ward the rear of the plane. Preliminary investigations revealed signs of external shrapnel damage, that the jet was struck amid





Solving these problems by building
extremely PRECISE & SECURE PNT



OUR JOURNEY



Led Avishkar
Hyperloop

Graduated From IIT
Madras



OUR JOURNEY



Built 50-Drones
Swarm Fleet

4 Commercial Shows

Realised GNSS
Problem



OUR JOURNEY



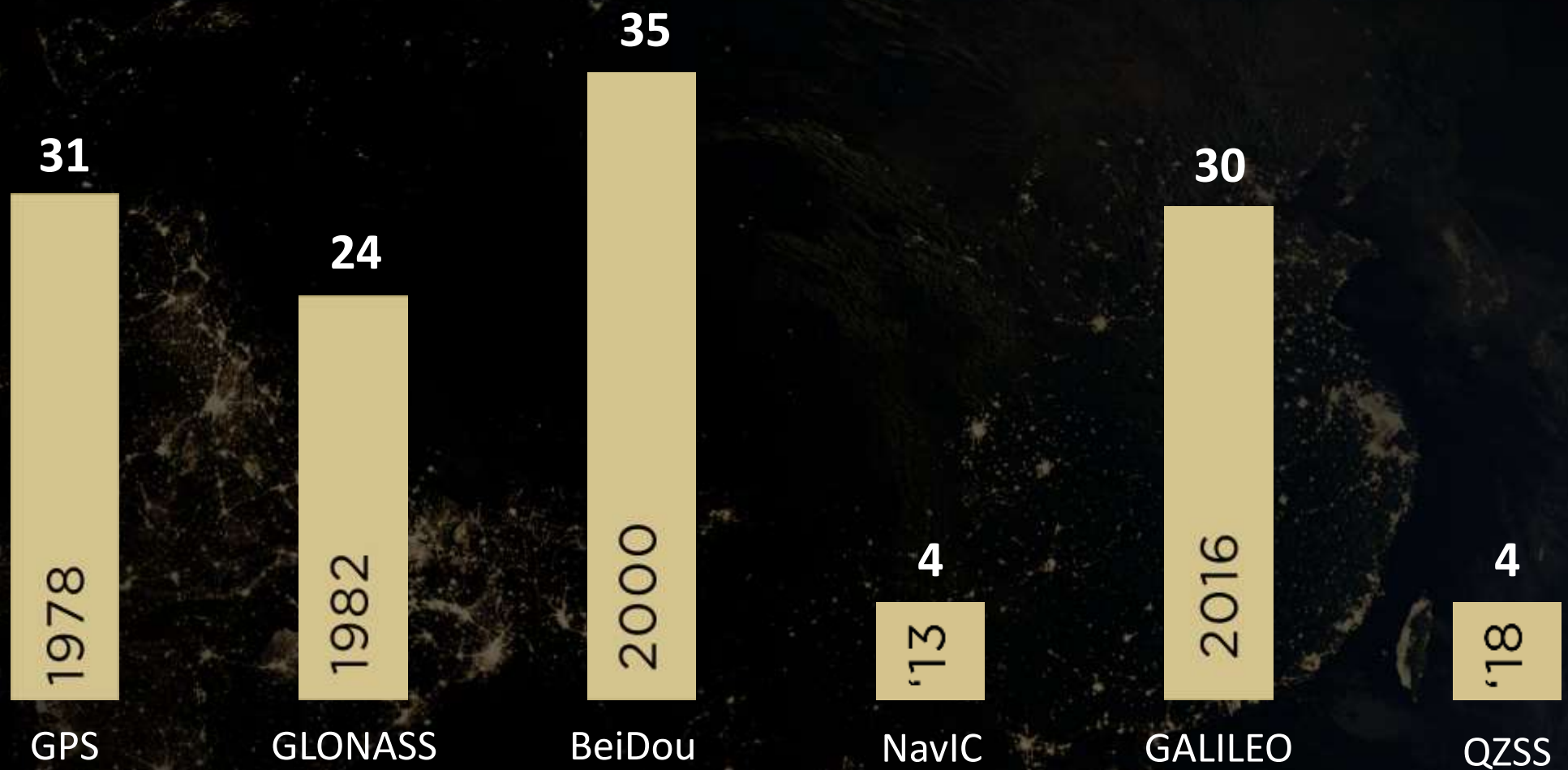
BUILDING



VYOMIC



How PNT is done today



Coverage

Global

Global

Global

India & 1500km
beyond borders

Global

EU

Country of Origin

USA

Russia

China

India

EU

Japan



Gaps Identified



Positioning Inaccuracy



Signal Vulnerability
(Easy to Jam/Spoof)



Urban Unavailability
(Multipath Loss)



Geopolitical Risks
(Kargil War 1999)



High Infra Cost
(Bulky & Expensive)



Outdated Satellites
(~15 years life)



VyomIC's New Age PNT

Building Bharat's first and largest private Global
PNT Satellite Constellation

Precise

cm-level & ns-
level precision

Secure

Jamming &
Spoofing
Resistant

Strong

100x to 1000x
stronger signals



Why Now?

Sovereign Infrastructure that
is Autonomous



Autonomous Future Demands
Precision & Security



Aatmanirbhar
Secure | Precise



To impact **9 billion devices**



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