

TechArena
Stockholm Business Region

Space Technology
AI, Hardware & Software
Global Innovation in Stockholm Region
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Remarks
Ambassador Tanmaya Lal

Thank you, **Stockholm Business Region** for inviting me here today,
Happy to join the other **panelists**, who are the real experts in this exciting field.

Space has always caught human imagination.

For a long time, rocket science – and space technology - were the **exclusive preserve** of select governments. To demonstrate **Technological superiority**. But essentially out of bounds for private sector.

Today SpaceTech is becoming almost like a playground for **startups!**

Space and geospatial domains are being **transformed by disruptive digital technologies, policy reform and private enterprise.**

More than exploring deep space, Spacetechnology now takes an **ever-closer & affordable real time look at earth enabling ever smarter digital products & services.**

This means **Big business opportunities.**

By its very nature, spacetechnology requires transboundary collaboration.

It is a trans-global business, with cross-border supply chains, customers, investors and partnerships.

Therefore, the scope of public-private and international collaboration is expanding manifold.

Recent months have seen several exciting developments in space sector in India and Sweden.

From **India's recent Moon landing & deployment of a space-based solar observatory** to the **upgradation of Esrange spaceport** in Sweden and the **space flight of Swedish astronaut Marcus Wandt**.

Cooperation between national space programmes of India and Sweden, though relatively limited, goes back at least four decades.

From ongoing **TTC** telemetry, tracking & command operations to the research **payload SARA** that flew on India's first Moon orbiting mission Chandrayaan-1 fifteen years ago. We are also exploring avenues on India's future Venus mission.

Foreign Minister Billström was received at ISRO (Indian Space Research Organisation) in Bengaluru only two days back.

Our **Prime Ministers** have called for greater cooperation in space sector. They met recently in Dubai where they discussed deepening cooperation in **futuristic sectors of development**.

There is a **strong momentum** in our partnership.

More than **15 ministerial interactions** over the last one year.

Space race in India is now hotting up even further as space, geospatial and drone sectors have been liberalised.

The **first privately built rocket in India** was successfully launched in 2022.

36 satellites of OneWeb company were successfully deployed in a single ISRO/NSIL launch from India last year.

Around 400 industry partners are already involved in India's space programme.

The number of **space startups** has grown to around **200**.

Today Indian spacetechnology companies are engaged in entire spectrum of spacetechnology from **integrated solutions** offering launch services, satellites & earth stations; to launch pads & mission control centres; advanced **propulsion** systems for rockets & satellites; space-to-ground high speed laser **communication** links; **space debris** detectors; debris collision avoidance systems; satellite life enhancing and **deorbiting** services; **optical payloads**; space-qualified solar arrays; all-weather high-resolution sensors **imaging** through **small satellite constellation**; **robotics & intelligent electronics**; **geospatial data intelligence** for environmental indicators; **AI-based decision intelligence for agriculture, infrastructure to BFSI sectors.**

India's space economy aims to reach **10% of global share by 2030.**

India's geospatial market potential is expected to grow to **USD 20 billion by 2025.**

India provides scale and huge opportunities of **Technology co-development and collaboration.**

The latest **India Business Climate Survey** by Swedish Chamber of Commerce in India and Business Sweden shows **unprecedented** levels of **optimism. Sweden is a priority partner** for India.

A large percentage of Swedish companies in India also have **R&D operations** in India.

Sweden is a global leader in innovation. Stockholm is well known for its **bustling Tech and Startup scene**, including in spacetechnology.

India too is climbing innovation rankings rapidly and has **3rd largest startup ecosystem**, including in spacetechnology.

Going forward, India will be an important **source for next gen innovation for the world from digital public infrastructure to digital public intelligence**.

Two months ago, we facilitated technology and business leaders from India and Sweden in **space and geospatial** domains to come together here in **Stockholm** to discuss opportunities! It generated a lot of **exciting prospects**.

In conclusion, I would like to say that **Space & Geospatial technologies will increasingly influence every sector of economy**. Offering **new innovative solutions and opportunities**.

Whether we speak of **Innovation**, or **Talent** or **Market Opportunities** or **Trusted Technology collaborations**, India and Sweden and especially the Stockholm Business Region, are **natural partners** in the fast-expanding domain of SpaceTech.

Thank you.