GIS and Remote Sensing Job Market in India (2016–2030)

Market Size, Employment Trends, Salary Analysis, and Projections in Indian Rupees

COMPILED FROM PIB INDIA, GEOSPATIAL ARTHA REPORTS & VERIFIED INDUSTRY SOURCES | APRIL 2026

Introduction

A Decade of Expansion

The Indian geospatial economy has witnessed significant growth driven by government policy reforms, ISRO's satellite infrastructure, and private sector adoption across defence, urban planning, agriculture, and infrastructure.

The Watershed Moment

The **Geospatial Data Policy liberalisation in February 2021** opened the sector to broader private participation — a turning point for the industry.

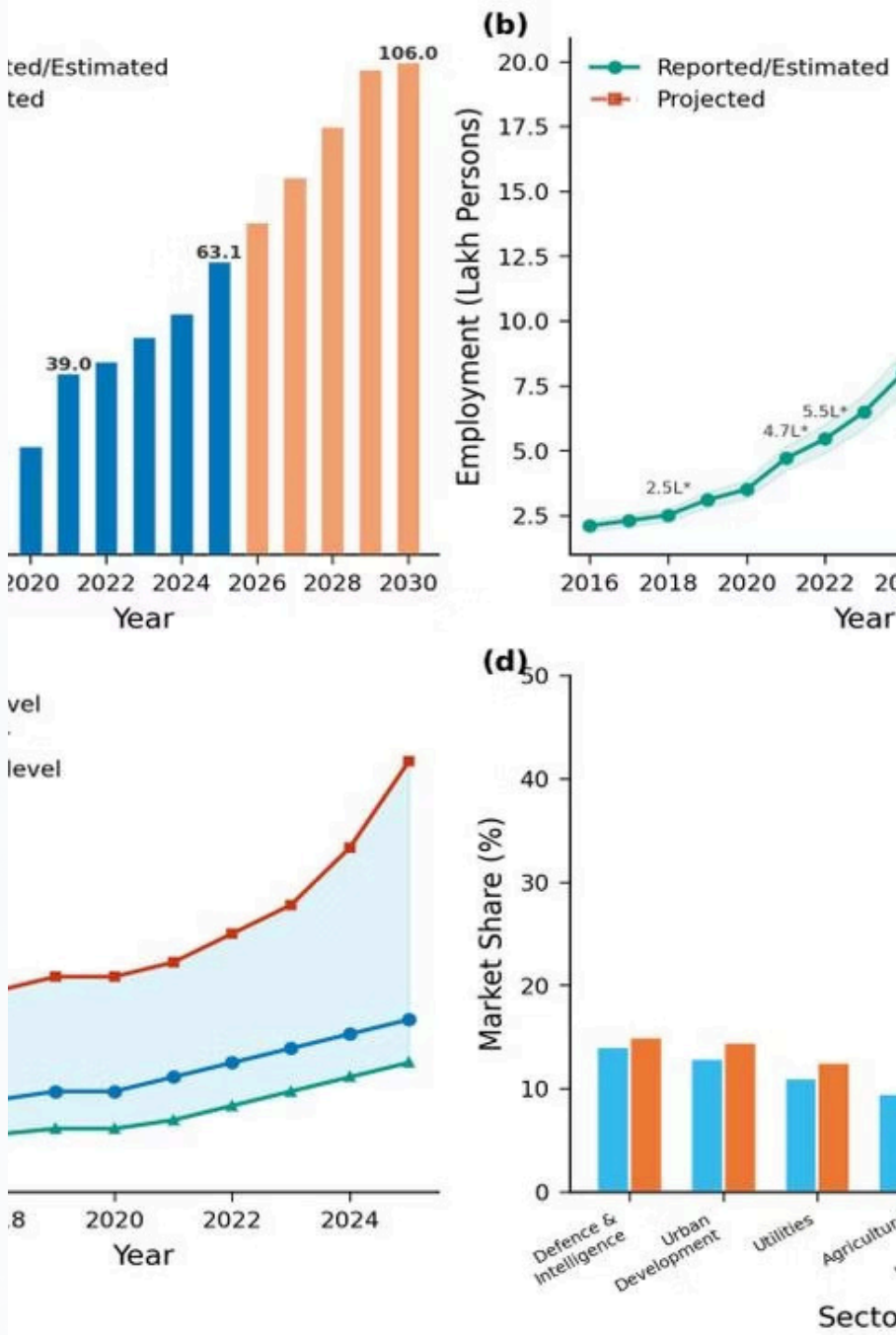
What This Report Covers

Market size (INR Crore), employment figures, salary trends, and sectoral distribution from 2016 to 2025, with projections to 2030.

Market Overview — Four-Panel Summary

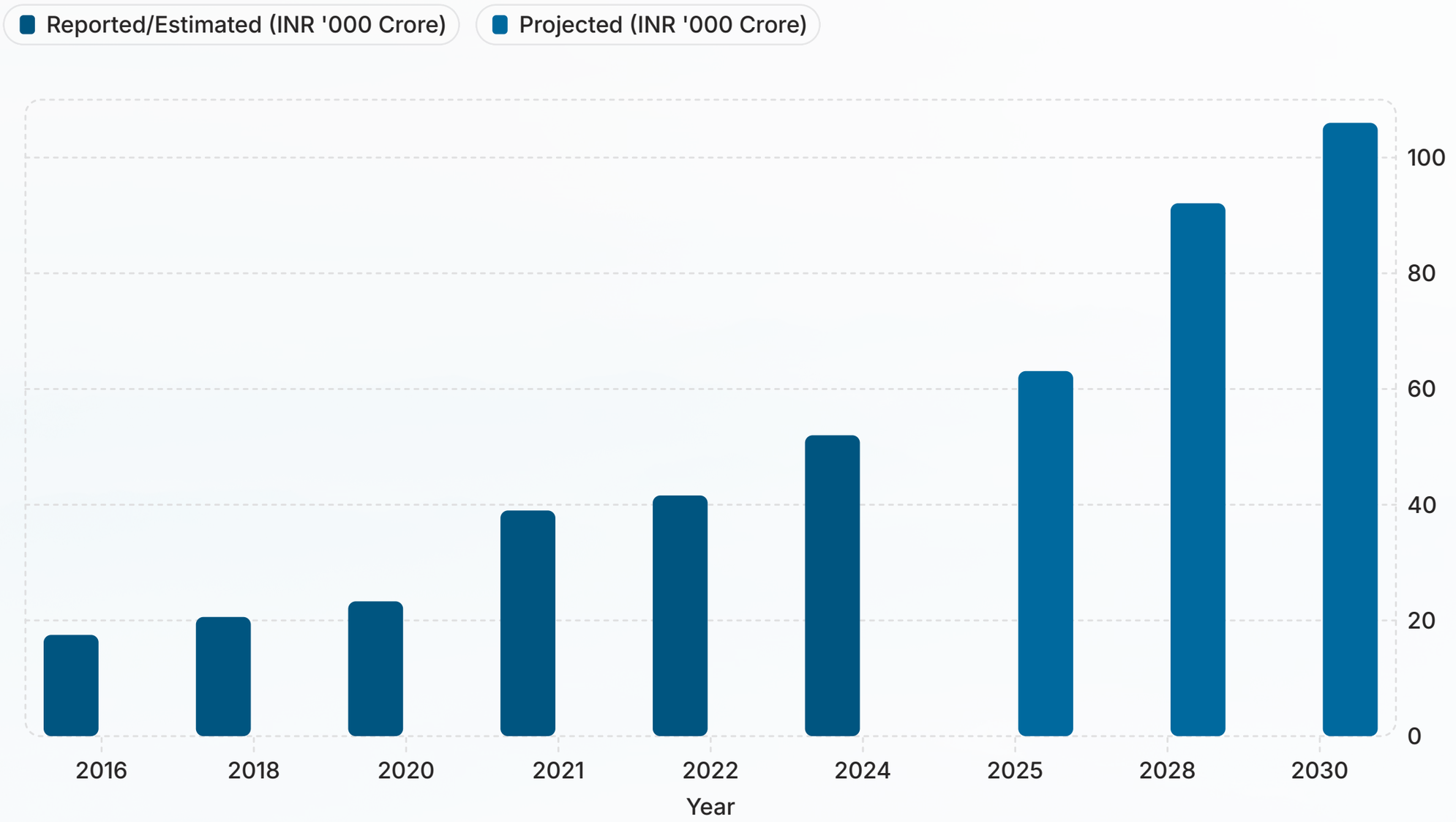
The figure below presents: (a) total geospatial economy market size in INR Crore, (b) employment growth, (c) salary trends across experience levels, and (d) sector-wise market share comparison between 2022 and 2025 estimates.

Figure 1. India GIS and Remote Sensing Job Market (2016–2030). Blue = reported/estimated data; orange = projected values. Sources: Geospatial Artha Reports (2018, 2021, 2022); PIB India; Business Standard; Convergence Now; PayScale; Glassdoor.



Geospatial Economy — Market Size (INR Crore)

Total geospatial economy including domestic revenue, export earnings, and government expenditure. Interpolated values use a reported CAGR of **12.8–13.45%**.



The 2021 jump reflects post-COVID recovery, Geospatial Data Policy liberalisation, and expanded scope in Artha 2021 methodology. The market is projected to reach **INR 1,06,000 crore by 2030** (Convergence Now, 2024; WebIndia123).

Market Size — Detailed Data Table

Year	Market Size (INR Crore)	Data Type	Source
2016	~17,500	Interpolated	Artha 2018 (12.9% CAGR)
2018	20,629	Reported	Geospatial Artha Report 2018
2020	~23,345	Reported	Artha 2021 (COVID stagnation)
2021	38,972	Reported	Artha 2021; PIB India
2022	41,600	Reported	Artha 2022; Geospatial World
2024	~52,000	Interpolated	IMARC Group trajectory
2025	63,100	Projected	PIB India; Business Standard
2028	~92,103	Projected	13.45% CAGR; WebIndia123
2030	1,06,000	Projected	Convergence Now (2024)

Conservative 2025 estimate = INR 52,770 crore. Interpolated values derived via CAGR-based extrapolation between verified anchor points.

Employment in India's Geospatial Sector

2.51L

Jobs in 2018

Reported by Geospatial Artha Report 2018

5.45L

Jobs in 2022

Reported by Geospatial Artha Report 2022

10L

2025 Target

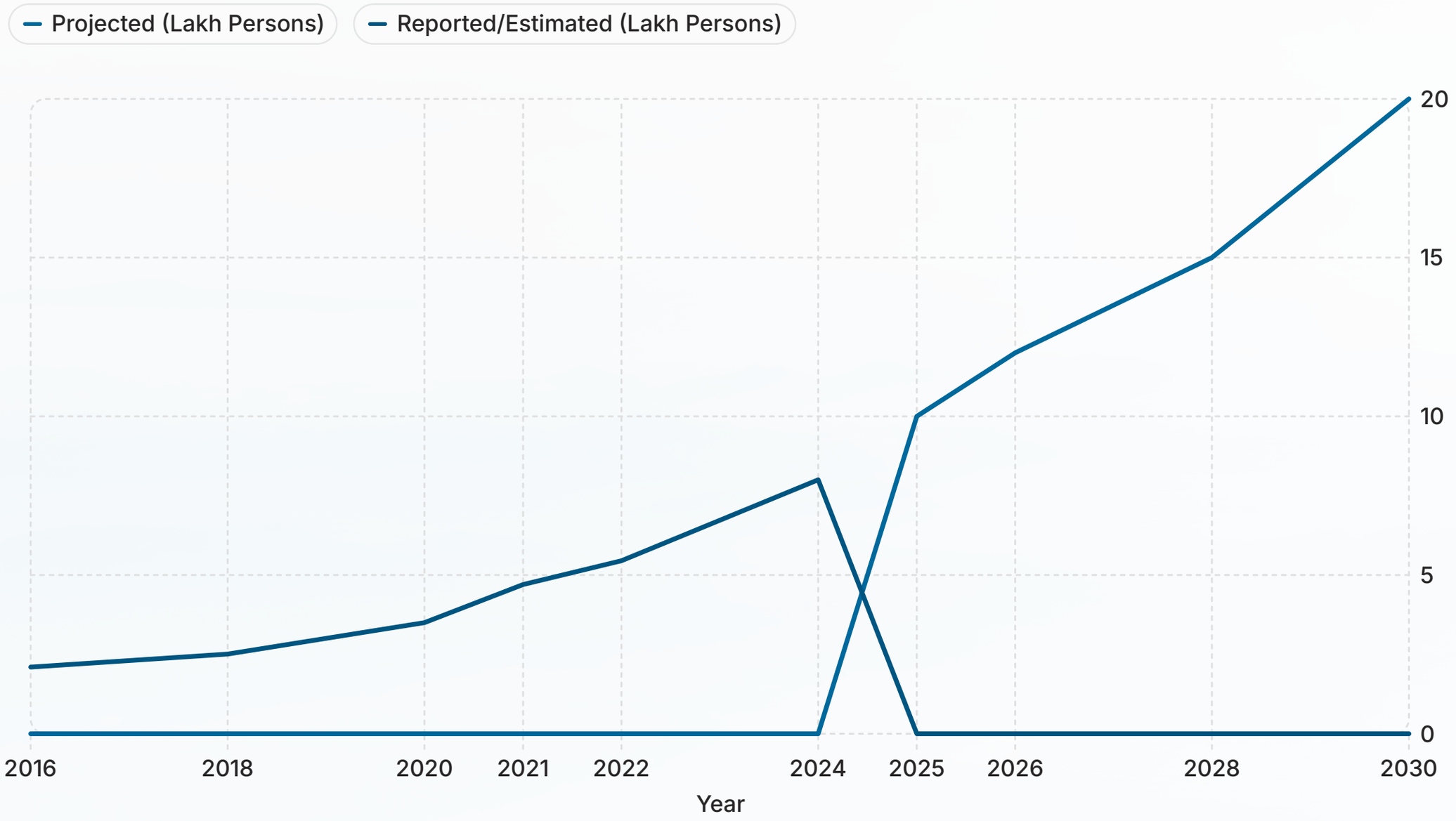
Government of India target via PIB India (2022)

20L

2030 Projection

Based on market doubling and workforce trends

Employment Growth — Trend Chart



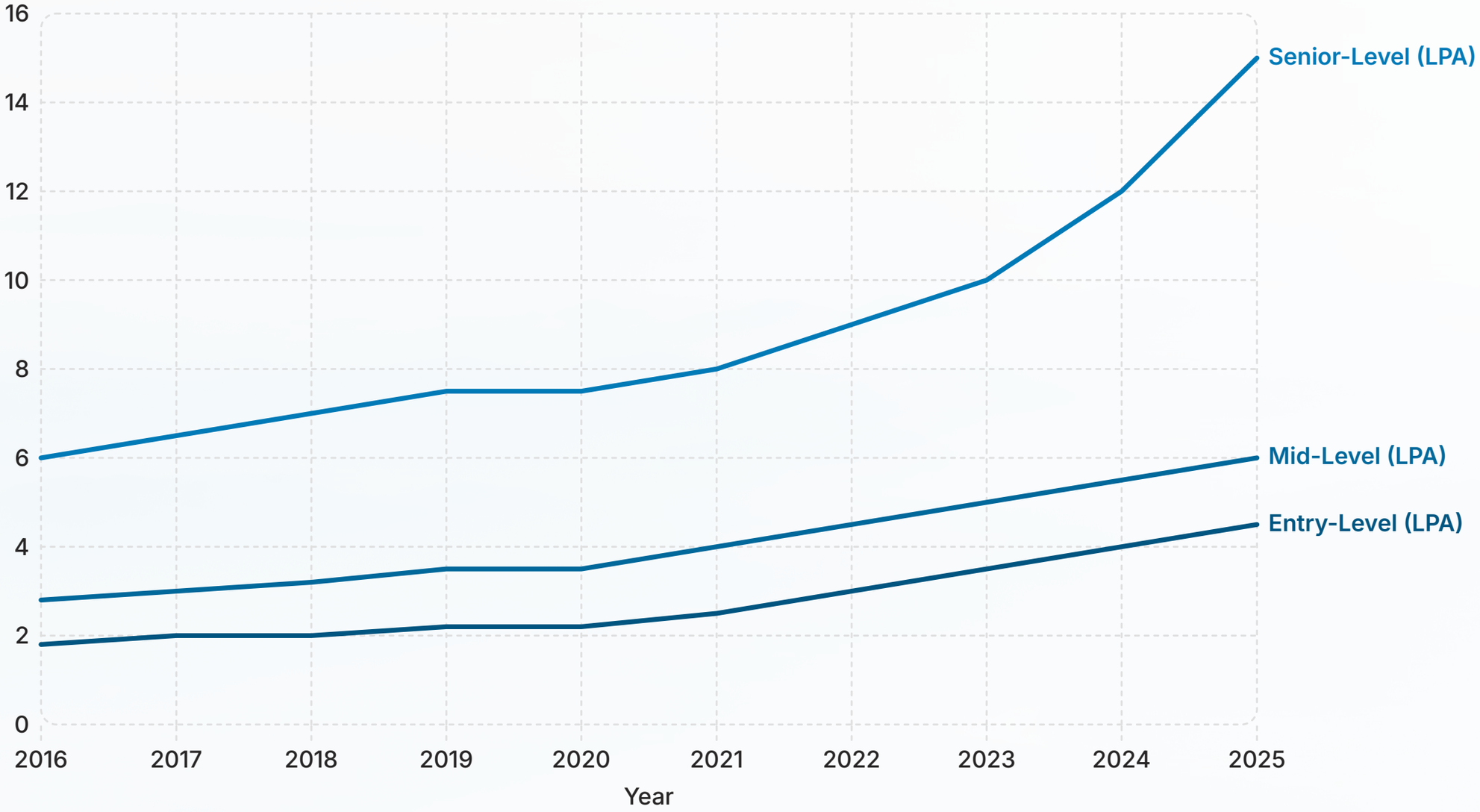
The Government of India has set a target of **10 lakh (1 million) jobs by 2025**, driven primarily through geospatial start-ups and private sector expansion. Employment is projected to reach **20 lakh by 2030**. COVID-19 impacted hiring in 2020, but post-pandemic recovery was swift.

Employment — Detailed Data Table

Year	Employment (Persons)	Data Type	Source
2016	~2,10,000	Interpolated	Pre-2018 baseline extrapolation
2018	2,51,300	Reported	Geospatial Artha Report 2018
2020	~3,50,000	Interpolated	COVID impact on hiring noted
2021	4,70,000	Reported	Geospatial Artha Report 2021
2022	5,45,000	Reported	Geospatial Artha Report 2022
2024	~8,00,000	Estimated	Acceleration toward 2025 target
2025	10,00,000	Target	PIB India (Government target)
2030	~20,00,000	Projected	Market doubling and workforce trends

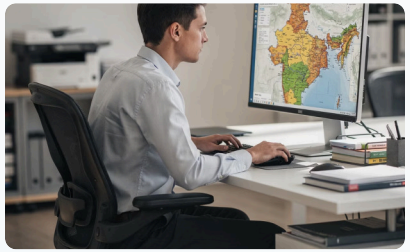
GIS/Remote Sensing Salary Trends (INR LPA)

Salary trends across three experience tiers: **entry-level (0–2 yrs)**, **mid-level (3–7 yrs)**, and **senior-level (8+ yrs)**. Data for 2023–2025 compiled from PayScale, Glassdoor, Indeed, and Talent500.



PayScale (2026) reports: GIS Analyst at **INR 3.6 LPA**, GIS Specialist at **INR 4.9 LPA**, and Remote Sensing Specialist at **INR 8.0 LPA**. Senior salaries have grown most sharply, reflecting demand for experienced professionals post-liberalisation.

Salary by Experience Level — 2025 Snapshot



Entry-Level (0–2 Years)

INR 4.5 LPA (2025 estimate)

- Up from INR 1.8 LPA in 2016
- 150% growth over a decade
- Source: PayScale, Glassdoor

Mid-Level (3–7 Years)

INR 6.0 LPA (2025 estimate)

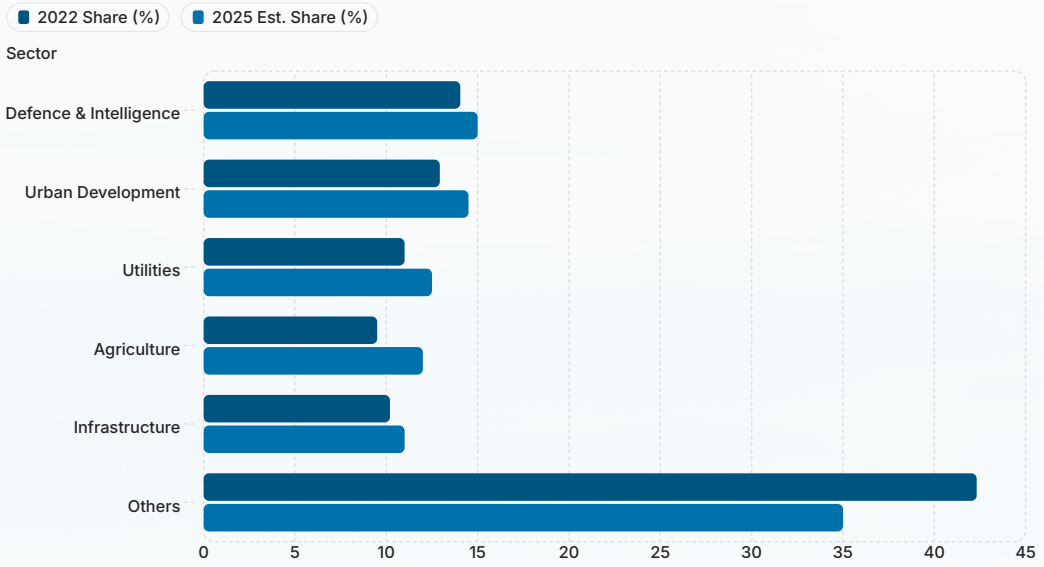
- Up from INR 2.8 LPA in 2016
- 114% growth over a decade
- Source: Talent500, Indeed

Senior-Level (8+ Years)

INR 15.0 LPA (2025 estimate)

- Up from INR 6.0 LPA in 2016
- 150% growth over a decade
- Source: PayScale, Glassdoor

Sector-wise Market Share Distribution



Key Observations

Defence and intelligence, urban development, and utilities together constitute approximately **38% of the total market** (Geospatial Artha 2021).

Agriculture's share is expected to rise significantly with **PM Gati Shakti** and precision agriculture programmes, growing from 9.5% to 12% by 2025.

The "Others" category is shrinking as specific sectors mature and gain dedicated geospatial investment — from 42.32% in 2022 to an estimated 35% in 2025.

Source: Geospatial Artha Report 2021; IAS Score.

Key Growth Drivers

Geospatial Data Policy Liberalisation (Feb 2021)

Removed restrictions on acquisition, production, and dissemination of geospatial data by Indian entities — the single biggest policy catalyst.

PM Gati Shakti National Master Plan

Integrated geospatial planning for multimodal infrastructure connectivity across **16 ministries**.

Smart Cities Mission

GIS-based urban planning and monitoring deployed across **100 smart cities**.

DILRMP

Digital India Land Records Modernisation Programme — digitisation of land records using GIS-based survey and mapping.

ISRO Satellite Constellation Expansion

RISAT, Cartosat, and EOS series providing enhanced earth observation capabilities.

National Geospatial Programme

INR 3,700 crore allocated in 2023 to foster AI-driven geospatial technologies.

Methodology Note

Four Source Categories

01

Geospatial Artha Reports

2018, 2021, 2022 — principal industry reports by Geospatial Media and Communications

02

Government of India (PIB)

Official Press Information Bureau publications and policy documents

03

Market Research Firms

IMARC Group, Mordor Intelligence, and Ken Research

04

Salary Aggregation Platforms

PayScale, Glassdoor, Indeed, and Talent500

Interpolation Approach

Where year-wise data were unavailable, values have been interpolated using reported CAGR values of **12.8–13.45%** between known anchor points.

Interpolated values are clearly marked and should be cited as *'Authors' estimates based on [source]'* in academic publications. Reported values are directly sourced from cited industry reports and government documents.

References

- ### Industry Reports

  Geospatial Media and Communications. Geospatial Artha Reports: 2018, 2021, 2022. Hyderabad.

- ### Government Sources

  Press Information Bureau, GoI (2022). PRID/1866812. Business Standard (2021, Dec 7). Convergence Now (2024). WebIndia123 (2024, Nov 24).

- ### Market Research

  IMARC Group (2025). India GIS Market Size and Forecast to 2033. Mordor Intelligence (2025). India Geospatial Analytics Market Size and Growth to 2031.

- ### Salary Data

  PayScale (2026); Glassdoor (2025); Talent500 (2023); Indeed. GIS Analyst and Remote Sensing Specialist salary data, India.

- ### Other Sources

  Geospatial World (2018). IAS Score (n.d.). India's geospatial technology industry set to grow at 12.8%.

Disclaimer: Values marked as 'Interpolated' or 'Estimated' have been derived through CAGR-based extrapolation between verified data points. These should be cited as 'Authors' estimates based on [source]' in any academic publication.