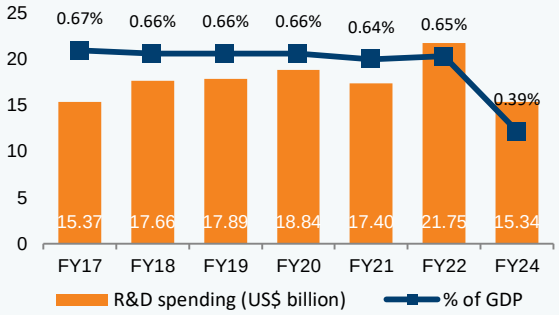
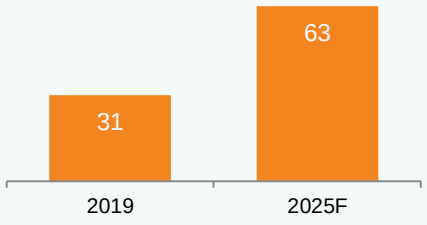
SCIENCE AND TECHNOLOGY

MARKET SIZE

R&D spending In India



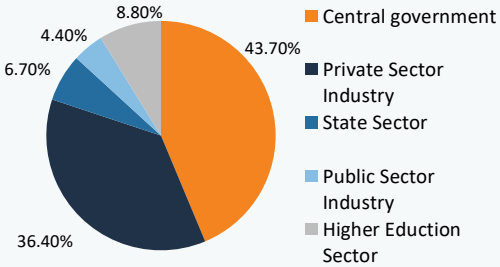
Engineering R&D and product development (US$ billion)



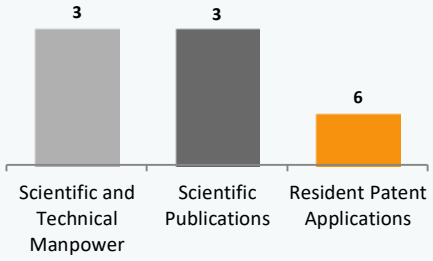
Note: *F-Forecasted*

SECTOR COMPOSITION

Sector-wise R&D spending

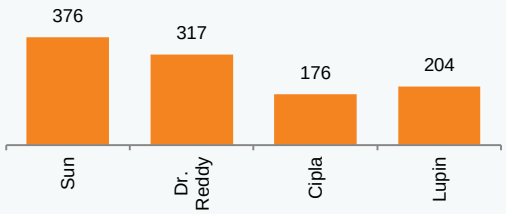


Global Rank (2022)

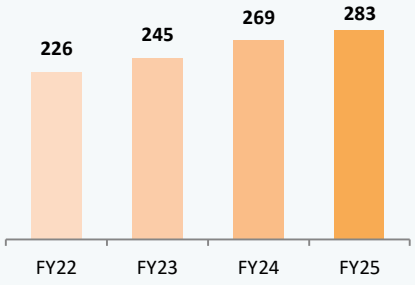


KEY TRENDS

R&D spending by top pharma companies in FY25 (US$ million)



Indian Technology Revenue (US$ billion)



GOVERNMENT INITIATIVES

- **Strengthening, Upscaling & Nurturing Local Innovations for Livelihood (SUNIL) Programme, 2023**
- **Technology Interventions for Disabled and Elderly (TIDE) programme, 2023**
- **CSIR technologies for rural development**
- **National Quantum Mission (NQM) for scientific and industrial R&D in Quantum Technology**

ADVANTAGE INDIA

- **Robust demand:** India's artificial intelligence (AI) industry is set to reach Rs. 2,47,766 crore (US$ 28.8 billion) by 2025, driven by rapid talent growth and demand projected to touch one million professionals by 2026.
- **Rising Private Activity:** Under the IndiaAI Mission, startups like Sarvam AI, Soket AI, Gnani AI, and Gan AI are building open-source models, backed by affordable GPUs, datasets, and global programmes to drive AI solutions in key sectors.
- **Policy support**: India has active bilateral science and technology (S&T) programs of cooperation with more than 45 countries, including dedicated programs for Africa, ASEAN, BRICS, EU and neighboring countries. The Union Cabinet approved a Rs. 99,771 crore (US$ 11.65 billion) scheme under Anusandhan National Research Foundation (ANRF) to boost deep-tech R&D.
- **Attractive opportunities**: India is the top exporter of IT products, has the third largest pharma sector and a fast-growing contract research segment. India's drone market could grow from Rs. 35,696 crore (US$ 4.2 billion) in 2025 to Rs. 1,95,477 crore (US$ 23 billion) by 2030, as per the EY-FICCI report "Making India the Drone Hub of the World." Between 2010 and 2025, over 86,000 AI-related patents were filed in India, representing more than 25% of all technology patents in the country. The number of AI patents filed from 2021 to 2025 was seven times higher than the filings between 2010 and 2015. Of these, 63% originated in India. Union Minister Dr. Jitendra Singh launched new tools on MoES' 19th Foundation Day to boost climate resilience and forecasting.