

Readiness for Frontier Technologies Index

Prelims: Current events of national and international importance | Reports & Indices

Why in News?

The United Nations Conference on Trade and Development (UNCTAD), in its Technology and Innovation Report 2025, emphasized India's enhanced preparedness for frontier technologies.

- **India's Improvement**

- In 2024, India achieved the **36th** position.
- In 2022, India was ranked **48th**.
- This represents an improvement of 12 positions.

- **Additional findings**

- The United States is the leading country in **private investment in artificial intelligence**.
- **China ranks 2nd**, while **India is 10th** among countries in terms of private investment in artificial intelligence.
- Brazil, China, India, and the Philippines are developing countries that demonstrate strong performance in technology readiness.
- Bhutan, India, Morocco, the Republic of Moldova, and Timor-Leste have recorded notable improvements in human capital.



INDIA'S RANK IN GLOBAL INNOVATION INDEX (GII)

2022

48th



Improvement:
12 positions

2024

36th



INDICATORS AND INDIA'S RANKINGS

Indicator		India's rank
	ICT deployment	99 th
	Skills	113 th
	Research and development (R&D)	3 rd
	Industrial capacity	10 th
	Access to finance	70 th

- Frontier technologies refer to emerging and rapidly advancing innovations with the potential to transform industries, communication systems, and strategies for addressing major global challenges.
- Key examples
 - Artificial Intelligence (AI)
 - Blockchain technology
 - Internet of Things (IoT)
 - Virtual Reality (VR)

GII vs Readiness for Frontier Technologies Index

- The rankings assess distinct dimensions of innovation and technological development.

Feature	Global Innovation Index	Readiness for Frontier Technologies Index
Organisation	WIPO	UNCTAD
Main focus	Overall innovation performance	Preparedness to use frontier technologies
Key indicators	Innovation inputs and outputs	ICT, skills, R&D, industrial capacity and finance
India's reported rank	38th in 2026	36th in 2024

Reference

[Indian Express | Readiness for Frontier Technologies Index](#)

