



## Global Innovation Index 2022

**For Prelims:** Global Innovation Index 2022, World Intellectual Property Organisation

**For Mains:** Growth & Development, Global Innovation Index 2022

### Why in News?

Recently, India was ranked 40<sup>th</sup> position out of 132 in the **Global Innovation Index (GII) 2022 rankings** released by **World Intellectual Property Organisation (WIPO)**.

- India was ranked 46<sup>th</sup> position in 2021, and 81st rank in 2015.

### What are the Highlights of the Report?

- **Ranking of the Countries:**

- **Most Innovative Economy:**

- Switzerland is the most innovative economy in the world in 2022 - for the 12<sup>th</sup> year in a row - followed by the United States, Sweden, the United Kingdom and the Netherlands.
- China is nearing the top 10 while **Türkiye and India enter the top 40 for the first time.**

- **Performance of India:**

- **India is the innovation leader** in the lower middle-income group.
- It continues to lead the **world in ICT services exports** and holds top rankings in other indicators, including venture capital receipt value, finance for [startups](#) and scaleups, graduates in science and engineering, labor productivity growth and domestic industry diversification.

- **Increase in R & D Expenditure:**

- The top global corporate R&D spenders increased their **R&D expenditure by almost 10% to over USD 900 billion in 2021**, higher than in 2019 before the pandemic.

- **Venture Capital (VC) Growth:**

- It exploded by 46% in 2021, recording levels comparable to the internet boom years of the late 1990s. Latin America and the Caribbean and Africa regions are witnessing the strongest VC growth.

### What is the Global Innovation Index?

- **About:**

- The Global Innovation Index, which is **published annually**, has been a **leading reference for measuring an economy's innovation performance.**
- A large number of countries use the GI to **assess and improve their innovation ecosystems** and use the GI as a reference in economic plans and/or policies.
- The GI has also been **recognized by the UN Economic and Social Council** in its 2019 resolution on Science, Technology and Innovation for Development as an authoritative

benchmark for measuring innovation in relation to the [Sustainable Development Goals \(SDGs\)](#).

▪ **Indicators of the index:**

- Parameters for computing the index include 'institutions', 'human capital and research', 'infrastructure', 'market sophistication', 'business sophistication', 'knowledge and technology outputs' and 'create outputs'.

▪ **Theme for 2022:** “What is the future of innovation-driven growth?”.

▪ **Effects of Two Novel Innovation Waves:** The GII 2022 also **outlines the positive effects of two novel innovation waves**, although it emphasizes that such effects would take some time to be realized:

- **A digital age innovation wave** built on [supercomputing](#), [artificial intelligence](#), and automation. **Effect:** making ample productivity impacts across all sectors and fields of scientific research.
- **A Deep Science innovation wave** built on breakthroughs in biotechnologies, nanotechnologies, new materials, and other sciences. **Effect:** revolutionizing innovations in health, food, environment, and mobility (four fields of key importance to society).

## What is WIPO?

- WIPO is the **global forum for intellectual property (IP) services**, policy, information and cooperation.
- It is a **self-funding agency of the United Nations**, with 193 member states.
- Its aim is to **lead the development of a balanced and effective international IP system** that enables innovation and creativity for the benefit of all.
- Its mandate, governing bodies and procedures are set out in the WIPO Convention, which established WIPO in 1967.

## What are the Related Initiatives by India?

▪ **Digital India:**

- India embarked on the '[Digital India](#)' **journey in 2015** and have set up a goal of a trillion-dollar digital economy in the next few years.
- Digital technologies are used in several areas, including mapping capital assets using GIS technology and revolutionizing payments through [Unified Payments Interface \(UPI\)](#).
- In fact, **40% of global real-time digital transactions** happened in India in 2021.

▪ **National Education Policy 2020:**

- To further strengthen innovation, the [National Education Policy](#) was introduced which promoted the spirit of enquiry by setting up incubation & technology development centers.

▪ **Atal Tinkering Labs:**

- Over 9000 [Atal Tinkering Labs](#) encourage youth to develop solutions to society's problems.

▪ **Structural Reforms in IPR:**

- India has taken up **structural reforms to strengthen its [Intellectual property rights \(IPR\) regime](#)** including modernization of IP offices, reducing legal compliances and facilitating IP filing for start-ups, women entrepreneurs, the small industries and others.
- Domestic filing of Patents registered a 46% growth in the last 5 years.

[Source: PIB](#)

