

# **Software Technology Parks of India**

#### Source: PIB

Software Technology Parks of India (STPI) recently celebrated its 33<sup>rd</sup> Foundation Day.

- Software Technology Parks of India (STPI) was established and registered as an autonomous society under the <u>Societies Registration Act 1860</u>, in 1991, under the Ministry of Electronics & Information Technology.
- The objective was to implement <u>Software Technology Park (STP)</u> and <u>Electronics Hardware Technology Park (EHTP)</u> schemes and set up and manage infrastructure facilities.
- STPI is nurturing the pan India start-up ecosystem through its initiatives like Centres of Entrepreneurship (CoEs) & Next Generation Incubation Scheme (NGIS).
  - STPI launched a networking and resource discovery platform (SayujNet) and STPI Workspace portal (STPI-Workspace).
- The STPI announced "Ananta", which will be a hyperscale cloud made by Indians for Indians.
  - Apart from the conventional Compute Infrastructure Services (IAAS), Ananta will also offer PAAS (platform as a service), SaaS (software as a service) and graphics processing unit (GPU) based services.
- The DeepTech Knowledge Report on, 'Cutting-Edge Tech Forging India as a Software Product Nation', was also released to provide strategic insights into the current state of cutting-edge technologies in India.

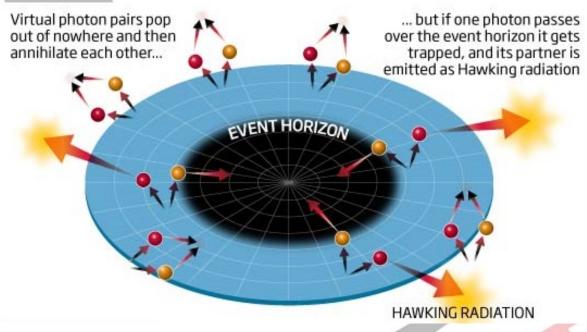
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# **Hawking Radiation**

Recently, scientists proposed that small, hot "morsel" black holes, ejected during larger black hole mergers, could emit detectable high-energy photons. These morsel black holes would emit Hawking radiation (named after Stephen Hawking) at an increasing rate as they lose mass, leading to their explosive demise.

- Smaller black holes are hotter and emit Hawking radiation faster than larger ones.
- <u>Gravitational waves</u> could detect black hole mergers, followed by <u>gamma-ray telescopes</u> spotting **high-energy photons** from morsel black holes as they emit Hawking Radiation.
  - It is predicted that the gravitational field of a black hole should cause the creation of particles, mostly photons directly from the vacuum of space.
- Hawking's Radiation:
  - It is the idea that black holes leak <u>thermal radiation</u>, gradually evaporating and ending their existence with a final explosion.
  - When one particle goes past the <u>event horizon</u>, it can't join back with its partner. The particles outside are known as Hawking radiation.
    - The event horizon is a region of space **beyond the black hole** or "point of no return.





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# **Pump and Dump Scheme**

#### Source: BS

Recently, the <u>Securities Exchange Board of India (SEBI)</u> has slapped a fine on 11 individuals for allegedly operating a 'pump and dump' scheme.

A pump-and-dump scheme is a type of <u>manipulation activity</u> that involves artificially inflating
the price of a stock through false and misleading information, only to sell the stock at the inflated
price and leave investors with significant losses.

the Vision

- This manipulative tactic is particularly prevalent in the micro-cap and small-cap sectors, where companies often have limited public information and trading volumes are lower.
- Under the SEBI guidelines, pump-and-dump schemes are completely banned.
- Participants in pump-and-dump manipulation can face severe legal penalties, including fines, disgorgement of profits, and imprisonment.
- These schemes **undermine confidence** in the <u>financial markets</u> making legitimate investors wary of potential <u>fraud</u>.
- Pump and Dump scheme is different from Insider trading as there is no misuse of confidential information of company in pump and dump scheme.
  - While, <u>Insider trading</u> is **buying or selling** a publicly traded company's stock by someone
    with information that could **substantially impact an investor's decision** to buy or sell a
    security that has not been made available to the public.

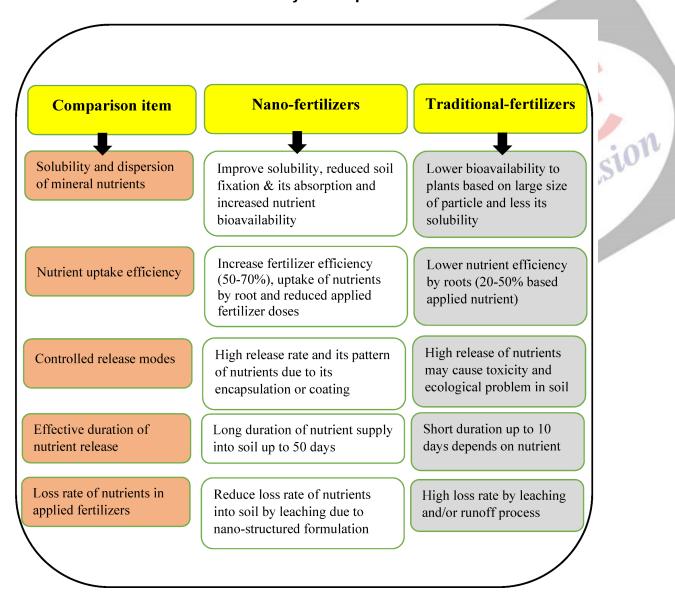
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#### Nano-Fertilizer Plant at Kakinada

#### Source: TH

Recently, Coromandel International (an agriculture solutions provider) has opened a <u>nano-fertiliser</u> plant at its Kakinada complex in Andhra Pradesh.

- The nano fertilisers (such as Nano DAP and Nano urea) ensure optimal nutrient delivery and absorption by the plants, potentially replacing conventional fertilisers and increasing crop yield.
- Nano fertilisers are highly efficient types of fertilisers that provide nutrients like nitrogen to crops through fine granules.
  - They are made up of nanoparticles, which are particles that are less than 100 nanometers in size.
  - This small size allows the nanoparticles to penetrate plant cells more easily and deliver nutrients directly to the plant.



Read more: Nano Fertilisers, Nano DAP

## **Authorised Economic Operators Programme**

#### Source: ET

#### Why in News?

Recently, the **gem and jewellery sector has been granted Authorised Economic Operator (AEO**) status by the <u>Ministry of Finance</u>, easing export-import processes with shorter cargo release times and reduced bank guarantees.

### What is the Authorised Economic Operators Programme?

- The <u>Authorised Economic Operator (AEO) programme</u> is a global initiative launched in 2007 under the <u>World Customs Organization's (WCO)</u> SAFE Framework of Standards. It serves a dual purpose
  - Enhancing International Supply Chain Security: The AEO programme aims to strengthen security measures throughout the international movement of goods, minimising risks associated with smuggling and counterfeiting.
  - Facilitating Trade Flow: By recognising businesses that meet stringent security standards, the programme aims to expedite customs clearance processes, reducing delays and costs for legitimate traders.
- Under this, an entity engaged in international trade is approved by WCO as compliant with supply chain security standards and granted AEO status.
- An entity with an **AEO status** is considered a **'secure' trader** and a reliable trading partner.
- Benefits of AEO status include expedited clearance times, fewer examinations, and improved security and communication between supply chain partners.
- AEO is a voluntary programme.
- India has also launched **pilot project** in 2011, the <u>Indian AEO Programme</u> that leverages the security standards established by the **WCO SAFE Framework**.
  - This program offers a three-tiered system for both exporters and importers, allowing companies to progressively demonstrate their commitment to secure trade practices.

## **World Customs Organisation**

- The <u>World Customs Organization (WCO)</u>, **established in 1952** as the **Customs Co-operation Council (CCC)** is an independent intergovernmental body whose mission is to **enhance the effectiveness and efficiency** of **customs administrations**.
- At present, it represents **183 customs administrations** across the globe that collectively process approximately 98% of world trade.
- India became the vice-chair (regional head) of the Asia Pacific region of the WCO for a period of two years 2018- 2020.
- It is the only international organization with competence in **customs matters** and which can rightly call itself the voice of the international Customs community.
- It has its headquarters in Brussels, Belgium.

### **SAFE Framework**

- In June 2005 the WCO Council adopted the Framework of Standards to Secure and Facilitate Global Trade (SAFE Framework) that would act as a deterrent to international terrorism, to secure revenue collections and to promote trade facilitation worldwide.
- The SAFE Framework has emerged as the global customs community's concerted response to threats to <u>supply chain security</u>, equally supporting facilitation of legitimate and secure businesses.
- It **prescribes baseline standards** for trade facilitation that have been tested and are working well around the globe.

### **UPSC Civil Services Examination, Previous Year Questions (PYQs)**

#### **Prelims:**

- Q1. In the context of which of the following do you sometimes find the terms 'amber box, blue box and green box' in the news? (2016)
- (a) WTO affairs
- (b) SAARC affairs
- (c) UNFCCC affairs
- (d) India-EU negotiations on FTA

Ans: (a)

- Q2. Consider the following statements: (2017)
  - 1. India has ratified the Trade Facilitation Agreement (TFA) of WTO.
  - 2. TFA is a part of WTO's Bali Ministerial Package of 2013.
  - 3. TFA came into force in January 2016.

#### Which of the statements given above is/are correct?

- (a) 1 and 2 only
- **(b)** 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Ans: (a)

**Developmental Groups in India** 

# DEVELOPMENTAL GROUPS IN INDIA

## Self-Help Groups (SHGs)

- Self-governed peer-controlled information group of people with similar socio-economic backgrounds and interests
  - Members allowed: 5-20 | Registration not required
  - SHGs use savings amounts for giving loans to members
- NABARD's SHG-Bank Linkage Programme (1992) - To connect SHGs with formal banking institutions
- 9~88% of SHGs in India have all-women members
- Success Stories:
  - Self-Employed Women's Association (SEWA) since 1972
  - (5) Kudumbashree (1998) in Kerala

#### **Cooperative Societies**

- People-centred enterprises, owned, controlled, and run by and for their members.
  - Capital raised through shared contributions from members.
- Regulating Acts:
  - Multi-State Co-operative Societies Act, 2002
  - State Cooperative Societies Acts
- 997th Constitutional Amendment (2011):
  - Right to form cooperatives a fundamental right (Article 19(1)(c))
  - O Article 43B (DPSP) Promotion of Cooperatives
  - Part IX-B titled "The Co-operative Societies" (Articles 243-ZH to 243-ZT).
- (9) Examples: AMUL, IFFCO and PACS

## Non-Governmental Organisations (NGOs)

- Pursue activities to relieve suffering, promote the interests of the poor, protect the environment, provide basic social services, or undertake community development
- Registered as:
  - Societies: Societies Registration Act, 1860
  - Trusts: Indian Trusts Act, 1882
  - Ocompanies: Section 8 Companies Act, 2013
- (9) Constitutional Provisions:
  - Article 19(1)(c)
  - Article 43
  - Concurrent List mentions Charities and charitable institutions

FCRA mandates registration for all NGOs intending to receive foreign donations.

- 9 Prominent NGOs:
  - NGO Pratham: Pioneered the ASER report to assess the learning levels of children in rural India.
  - Akshaya Patra Foundation: Provided nutritious mid-day meals to school children.

NGO-DARPAN Platform - An interface between NGOs and Government Bodies.



**Read More:** <u>SBI's Study on Empowering Women Through SHGs</u>, <u>Cancellation of FCRA Registration of NGOs</u>, <u>India's Cooperative Sector</u>.

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