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Swadesh Darshan 2

The Ministry of Tourism has revamped its Swadesh Darshan scheme as Swadesh Darshan 2.0 (SD2.0) with an aim to develop sustainable and responsible infrastructure at destinations.

- The government launched the Swadesh Darshan Scheme in 2014-15 for the integrated development of **theme-based tourist circuits**.
- **Ministry** Swadesh Darshan Scheme is a **Central Sector** scheme under the Ministry of Tourism and Culture.
- **Objective** The scheme aims to promote, develop and harness the potential of tourism in India.
- **Funding** Under the Swadesh Darshan scheme, **Central Financial Assistance** is provided for the State Governments and Union Territory Administrations for the infrastructure development of circuits.
- Some of the prominent circuits launched under this scheme are:
- 1. The Buddhist tourist circuit,
- 2. Ambedkar Tourist Circuit,
- 3. The North-East Tourist Circuit,
- 4. Coastal Circuit,
- 5. Desert Circuit and
- 6. Tribal Circuit.

Swadesh Darshan 2.0

- The Swadesh Darshan scheme has been revamped with the mantra of 'vocal for local'.
- 15 states with two or three destinations each have been identified to be developed under the scheme.
- The scheme was envisioned to synergise with other government schemes such as Swachh Bharat Abhiyan, Skill India, and Make in India.
- The aim is to enable tourism to realise its potential by positioning tourism as a major engine of economic growth and job creation.
- Related Links Swadesh Darshan Scheme
- Similar Links Eco-Circuits Projects, Rural Circuit, Gandhi Circuit, Tribal Circuit, Tourism related facilities at Buddhist Sites, Ambedkar Circuit

References

- 1. The Hindu | Govt. to launch Swadesh Darshan 2
- 2. Ministry of Tourism | Swadesh Darshan Scheme

3. Indian Express | Tourism ministry revamps Swadesh Darshan Scheme

Web3

India is rapidly growing its Web3 ecosystem with more than 450 active start-ups with four unicorns making India one of the highest growth markets for Web3 globally.

India is home to over 11% of global Web3 talent, making it the third-largest Web3 talent pool in the world

- Web 3.0 or Web3 is the third generation of the World_Wide_Web technologies.
- Web 3.0 is still evolving technology.
- It has a strong emphasis on Decentralised applications and makes extensive use of blockchain-based technologies.

Web 1.0	It was only a basic read-only version of the internet.
	It enables us to read, write, upload, send & receive various forms of content - text, image & video, via the internet.
	It is a new, improved, and decentralised internet ecosystem that uses blockchain technology.

- HTML will continue to be a foundational layer with Web 3.0, like Web 1.0 and Web 2.0.
- With Web 3.0, applications and services use a decentralised blockchain instead of a centralised database.
- The 4 main pillars/features of Web 3.0
 - 1. Artificial Intelligence
 - 2. Semantic Web
 - 3. **Ubiquity**
 - 4. 3D Graphics

Web 3.0 applications

- **Non-fungible tokens (NFT) NFT** are tokens stored in a blockchain with a cryptographic hash, making the token unit unique.
- **Decentralised finance (DeFi) DeFi** uses decentralised blockchain to enable financial services outside the confines of traditional centralised banking infrastructure.
- **Cryptocurrency** Cryptocurrencies like Bitcoin are Web 3.0 applications.
- **Decentralised applications (dApps) dApp** are applications built on top of blockchain and use smart contracts to enable service delivery in a programmatic approach logged in an immutable ledger.
- **Cross-chain bridges It** enables a degree of interoperability across the multiple block chains in the Web 3.0 world.
- **Decentralised Autonomous Organization (DAO)** DAOs provide a form of self-governance in an attempted decentralised approach.
- Related links Web 3.0, Web 5.0

References

- 1. The Hindu | Web 3 ecosystem
- 2. Business Today What is Web 3.0?

Mission DefSpace

The Prime Minister launched Mission DefSpace to develop innovative solutions for the Defence Forces in the Space domain.

- Mission DefSpace was launched with 75 Challenges at the DefExpo 2022.
- The Mission aims to develop innovative solutions for the Defence Forces through industry & start-ups.
- This is the first time private industry is given an opportunity in the defence space sector.
- The programme will focus on various challenges in this area that have been reviewed and identified by the **3 defence services**.
- Under Mission Def-Space, 75 challenges are being opened to get innovative solutions, based on the defence requirements in the space domain.
- The initiative will also prepare India for future possibilities in space domain and will also increase the country's preparation further.
- The space sector has shown a thriving ecosystem of entrepreneurs and private businesses with aid from government policies and reforms.
- Over 55 start-ups have registered with the Indian Space Research Organisation (ISRO) in 2 years.
- Mission DefSpace realises the potential of start-ups in Space technology.
- The mission also aids in boosting the domestic defence industry.
- Space technology is also helping in shaping the definitions of India's space diplomacy.
- There are more than 60 developing countries with whom India is sharing its space science.

References

- 1. Business Line | PM launches Mission DefSpace for Armed Forces
- 2. The Hindu | We have to work fast to solve various challenges in space technology: Modi

Lothal National Maritime Heritage Complex

Lothal in Gujarat is to get National Maritime heritage complex (NMHC).

Lothal

- Lothal is located along the **Bhogava River**, a tributary of river Sabarmati, in the Gulf of Khambat.
- It was one of the **southernmost sites** and only port-town of the Indus Valley civilization.
- It was a trade centre for beads, gems and ornaments in ancient times that traded with West Asia and Africa.
- Lothal (Loth + thal) means 'the mound of the dead' in Gujarati.

Mohenjo-Daro, an Indus Valley Civilisation site, (now in Pakistan) also means 'the mound of the dead' in Sindhi.

- Lothal was a major trading centre of the Indus Valley Civilisation, and also a symbol of India's maritime power and prosperity.
- According to the Archaeological Survey of India (ASI), Lothal had the world's earliest known dock, connecting the city to an ancient course of the Sabarmati River.
- The excavations shows Lothal had the upper town (citadel), the lower town, a bead-making factory, a ware house and a tidal dockyard.
- Lothal is in the tentative list of UNESCO World Heritage Site.

National Maritime Heritage Complex

- National Maritime heritage complex (NMHC) is being developed to showcase India's rich and diverse maritime heritage.
- The construction of the National Maritime Heritage Complex is being developed by the Ministry of ports, shipping and waterways.
- The Heritage complex comprises of -
 - 1. Lothal mini recreation to recreate Harappan architecture and lifestyle,
 - 2. Memorial theme park,
 - 3. Maritime and Navy theme park,
 - 4. Climate theme park and
 - 5. Adventure and amusement theme park.
 - 6. World's tallest lighthouse museum,
 - 7. 14 galleries highlighting India's maritime heritage

References

- 1. <u>Indian Express | Lothal to get heritage complex</u>
- 2. PIB | National Maritime Heritage Complex
- 3. Live Mint | National Maritime Heritage Complex in Lothal

Pongamia Pinnata

Pongamia pinnata has attracted the attention of global investors and companies that have committed to net-zero emissions for agro-forestry and carbon sequestration projects.

- *Pongamia pinnata* is better known in the subcontinent as Indian beech, karum tree, mullikulam tree, pongam and pongam oil tree.
- The tree has a broad-spreading canopy, short leaf-shedding season, nearly evergreen leaves and minimal maintenance.
- **Soil** The tree can grow on various soil types, including rocky, heavy clay, sandy, alkaline, and saline soils.
- However, drained sandy-loam soil with adequate moisture is ideal for it.
- **Drought tolerance** The tree is drought-tolerant and adapted to intense heat with its marvel of a root system.
- The tree's tap roots go as deep as 10 metres, can be grown on marginal lands, and won't compete with food crops.

- **Significance** It is a popular feedstock for biodiesel, an indigenous medicine, a good fodder, soil binder.
- With the UN declaring 2021-30 the decade of ecosystem restoration, the Pongam has gained a lot of significance.
- Many investors are interested in funding *Pongamia pinnata* plantations for carbon offsets.
- **Carbon Sequestration** Pongamia's carbon dioxide sequestration potential during the 10–15 years of its growth is many folds that of several other tree species.
- Over a 25-year period, one Pongamia tree can sequester 767 kg of carbon.
- Oil Pongamia seeds give out an oil known as Karanja or poonga oil.
- The oil is yellowish-orange to brown and can be used to produce biodiesel through transesterification.
- The poonga oil is used as a liniment for skin and rheumatic disorders in the Ayurvedic and Siddha systems.
- **Biodiesel** Biodiesel production from Pongamia generates 7.88 kg of biomass waste per kg of biodiesel, mainly in the form of seed cake.
- Biomass waste can potentially be used as anaerobic digester feedstock for biogas production.
- **Fertiliser** The seed oil cake is used as an organic pesticide and fertiliser, given its high nitrogen content.

References

- 1. The Hindu Business line | Pongamia pinnata Tree of sustainable life
- 2. <u>India Biodiversity | Pongamia pinnata</u>
- 3. Live Mint | The Indian Beech tree is a powerhouse on the sidewalk

