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16 February 2024

National & International News

Replica of Mohammad Quli Qutb Shah's tomb



Context:

- Recently, a digital replica of **Mohammad Quli Qutb Shah's tomb** was revealed by the reality technology company **Hexagon** in **Hyderabad**.

Background:

- Mohammad Quli Qutb Shah was the **fifth sultan of the Qutb Shahi dynasty of Golkonda**, known for founding the city of **Hyderabad** and constructing its iconic landmark, the **Charminar**.
- His reign is celebrated for its administrative prowess and cultural achievements.
- He was also a prolific Urdu poet, composing verses in the Persian diwan style.
- His rule coincided with the times of **Akbar the Great, Jagat Guru, and Ibrahim Adil Shah**.

About:

- Qutb Shah's tomb, located in **Ibrahim Bagh, Hyderabad**, is an architectural marvel blending Persian, Hindu, and Pathani styles.
- **The digital twin technology used to create this replica offers a digital representation of a physical object, person, or process, providing insights for better decision-making.**

Digital Twin: Sangham

Context:

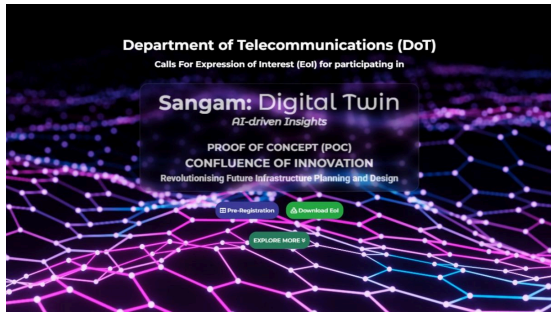
- The Department of Telecommunications (DoT) has launched the **'Sangam: Digital Twin' initiative**, aiming to utilize Digital Twin technology for innovative infrastructure planning and design.



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Digital Twin Technology

Definition: Digital Twins are detailed and **dynamic virtual models** that replicate the behavior and performance of real-world assets in real-time.

Components: They consist of **physical assets, virtual models, sensors/IoT devices for data collection**, and data analytics/machine learning for insights and decision-making.

Benefits: Digital Twins enable organizations to **optimize operations, predict maintenance needs, and drive innovation by analyzing real-time data and integrating various data sources.**

Objective:

- The 'Sangam: Digital Twin' initiative **aims to leverage Digital Twin technology to create virtual replicas of physical assets, enabling real-time monitoring, simulation, and analysis.**

Stages:

- It consists of **two phases:**
- These are an **Exploratory phase** for creative exploration and horizon clarity, followed by a **practical demonstration stage** focusing on specific use cases for future scalability and replication.

Technological Integration:

- The initiative integrates advanced technologies like **5G, IoT, AI, AR/VR, AI-native 6G**, and next-gen computational technologies to foster collaboration and innovation in infrastructure planning.

Baltic Sea



Context:

A Stone Age wall discovered beneath the Baltic Sea in Germany is believed to be Europe's oldest megastructure built by humans.

About:

- The Baltic Sea is a **semi-enclosed inland** in Northern Europe, extending from southern Denmark to the Arctic Circle.
- It has an approximately **8,000 km coastline** shared by countries such as Sweden, Poland, and Russia, covering an area of about 377,000 sq. km.



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	<ul style="list-style-type: none">• Major gulfs like the Gulf of Bothnia and the Gulf of Finland, are known for their low water salinity due to inflowing fresh water and shallowness.• The sea is fed by over 250 rivers and streams, with the Neva being the largest.• It boasts more than 20 islands and archipelagos, with Gotland as the largest.
Electoral Bonds Scheme	<p>Context:</p> <ul style="list-style-type: none">• Recently, the Supreme Court directed the SBI to stop issuing these bonds immediately.• Electoral Bonds (EBs) are interest-free bearer bonds or money instruments available for purchase by companies and individuals in India from authorized branches of the State Bank of India (SBI). <p>About:</p> <ul style="list-style-type: none">• EBs can be bought in denominations of Rs 1,000, Rs 10,000, Rs 1 lakh, Rs 10 lakh, and Rs 1 crore, similar to banknotes, and are payable to the bearer on demand without interest.• They are purchased through a KYC-compliant account and can be used for making donations to political parties.• EBs have a short lifespan of 15 days for making donations.• The donor's name and information are not mentioned on the bond, making them anonymous.• There is no limit on the number of EBs a person or company can purchase.• Donations made through EBs are tax-exempt under Section 80 GG and Section 80 GGB of the Income Tax Act.



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	<ul style="list-style-type: none">• Only political parties registered under Section 29A of the Representation of the People Act, 1951, and which secured not less than 1% of votes in the last general election, are eligible to receive EBs.• Political parties must encash the bonds within a specified period through a designated bank account and disclose the amount to the Election Commission.
Forest Dwellers' Rights in Tamil Nadu	<p>Context:</p> <ul style="list-style-type: none">• Tamil Nadu has been slow in implementing the Forest Rights Act (FRA) compared to other states in India, particularly evident in the Thanthai Periyar Sanctuary notification in Erode district.• This notification raised concerns among forest dwellers about the potential denial of their rights under the FRA. <p>Key points:</p> <ul style="list-style-type: none">• Forest villages are settlements within forest areas inhabited by tribal or indigenous communities.• In 1990, the Union Ministry of Environment and Forests (MoEF) mandated the conversion of forest villages into revenue villages, a process also reinforced by the Forest Rights Act (FRA) of 2006.• The recent sanctuary notification acknowledges that rights granted under the Tamil Nadu Forest Act of 1882 and the FRA will be preserved. Still, Tamil Nadu has been slow in implementing the FRA compared to other states in India.

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