## Topics - MINDS MAPS included (Daily current affairs ) 13th November 2024

- Long Range Land Attack Cruise Missile (LRLACM)
- Carbon Emissions Report 2024
- Intelligent Bacteria development
- Uranus and Voyager 2 Findings
- IMEC
- MAINS



By saurabh Pandey



#### **Target Mains -2025/26 -**

Q "IMEC Successful implementation depends on multiple factors "Discuss

प्रश्न "IMEC का सफल कार्यान्वयन कई कारकों पर निर्भर करता है" चर्चा करें

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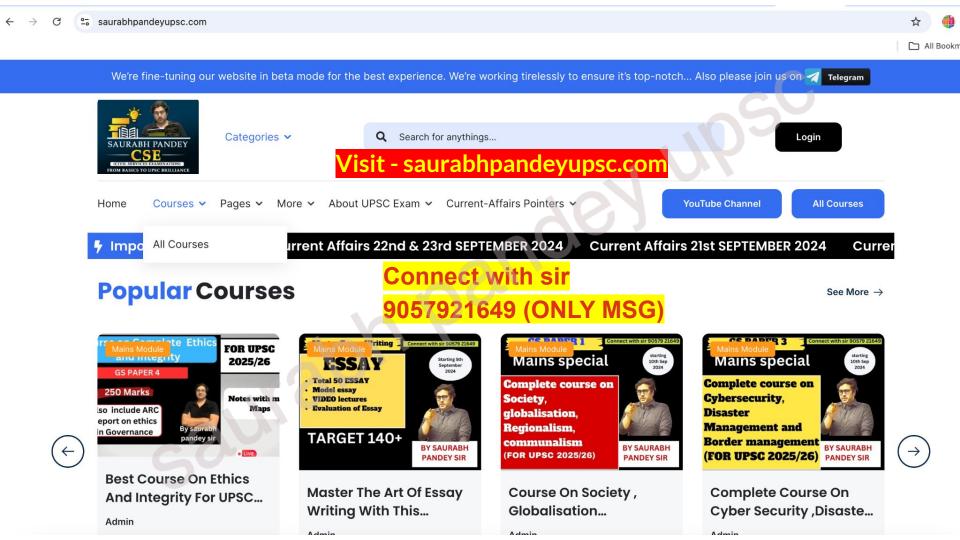
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### 50 PER OFF TODAY



#### DRDO carries out test of long-range cruise missile

#### The Hindu Bureau

NEW DELHI

Defence Research and Development Organisation (DRDO) on Tuesday conducted the maiden flighttest of a Long Range Land Attack Cruise Missile (LRLACM), with a range of 1,000 km, from the Integrated Test Range, Chandipur off the coast of Odisha from a mobile articulated launcher. This is a new variant of Nirbhay LRLACM with improved features, officials confirmed.

The Defence Acquisition Council had approved procurement of the LRLACM in July 2020.

The missile has been developed by the Aeronauti-



The Long Range Land Attack
Cruise Missile being launched
off Odisha. SPECIAL ARRANGEMENT

cal Development Establishment, Bengaluru.

Once inducted, the LRLACM, similar to U.S. Tomahawk cruise missile, will give Indian armed forces a long-range standoff capability to strike targets on land.



#### **Topic** → **Long Range Land Attack Cruise Missile (LRLACM)**



Maiden Flight Test: DRDO conducted the first flight test of the Long Range Land Attack Cruise Missile (LRLACM) on Tuesday.

Range: The missile has a range of 1,000 km, allowing for significant strike capabilities.

✓ Launch Site: The test was conducted from the Integrated Test Range in Chandipur, off the coast of Odisha.

Improved Variant: This LRLACM is a new variant of the Nirbhay missile, featuring enhanced capabilities.

Approval Date: The Defence Acquisition Council approved the procurement of the LRLACM in July 2020.

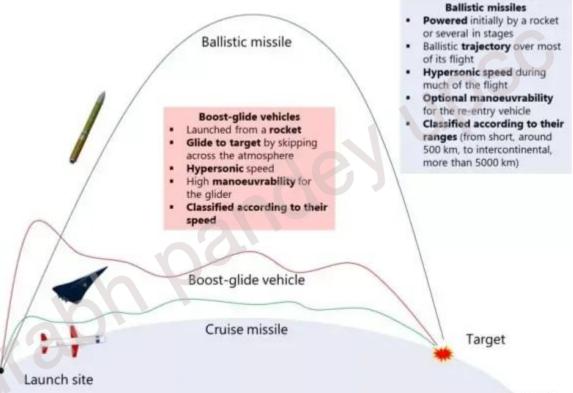
SAURABH PANDEY
CSE
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Development: The missile was developed by the Aeronautical Development Establishment located in Bengaluru.

© Strategic Capability: Once inducted, the LRLACM will provide Indian armed forces with a long-range standoff capability similar to the U.S. Tomahawk cruise missile.

Summary: DRDO successfully tested a new variant of the Long Range Land Attack Cruise Missile with a 1,000 km range, enhancing India's strike capabilities.





Cruise missiles

- Unmanned vehicle propelled by jet engines
- Remain within the atmosphere during the flight
- Subsonic, supersonic, or hypersonic
- Self-guided or manually guided
- Classified according to their speed

Credits: FRS

#### **Topic** → **Carbon Emissions Report 2024**



#### **Overview of Carbon Emissions**

#### Global Emissions Rise V



Expected increase of 0.8% in 2024 Previous rise of 1.2% in 2023

#### **Major Contributing Regions**

#### Top Contributors 🌍



China: 31%

United States: 13%

India: 8%

EU-27: 7%

Total of these four regions accounts for 59% of global fossil CO2 emissions





#### **Emissions Per Capita**

#### Global Average

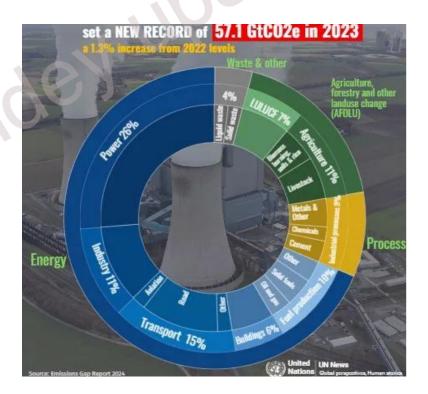
1.3 tonnes of CO2 per person per year Breakdown:

U.S.: 3.9 tonnes

China: 2.3 tonnes

EU-27: 1.5 tonnes

India: 0.6 tonnes



#### **Future Projections**

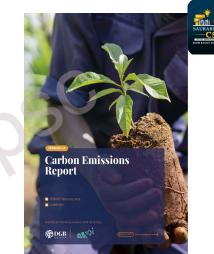
India's Emissions Expected increase by 4.6% in 2024 China's Emissions Expected increase by 0.2%



Annual peer-reviewed estimates of atmospheric carbon 2024 CO2 Concentration: Set to reach 422.5 ppm Paris Agreement Goals: Urgent need for emission cuts to maintain temperature below 2°C

#### **Climate Change Impacts**

Increasingly dramatic effects of climate change observed GCB predicts a 50% chance of breaching the 1.5°C target in about 6 years



#### Team at Kolkata institute engineers bacteria to solve maths problems

Saha Institute of Nuclear Physics scientists introduced genetic circuits' in bacteria that could be activated by a combination of chemical inducers then they combined bacteria with different engineered circuits in a solution to build bacterial computers that behaved like artificial neural networks





t the Saha Institute of Nuclear Physics, Kolkata, synthetic biologist Sangram Bagh has a major and somewhat unusual goal: to build intelligent bacteria. Despite being single celled, bacteria are very sensitive and responsive to thei environments. Organisms that are generally called intelligent – including dolphins, chimpanzees, octopuses, crows, and humans – are on the other hand multicellular, with brains composed of billions of specialised cells called

But in a major breakthrough, Bagh's lab has engineered bacteria that can decide whether a given number is prime and whether an alphabet is a vowel. These could earlier be done only "by humans or computers," Bagh said, "but now genetically engineered bacteria are doing the same. Such observations raise new questions about the meaning of intelligence." Bagh's team introduced 'genetic

circuits' in bacteria that could be activated by a combination of chemical inducers. Then they combined bacteria with different engineered circuits in a solution to build bacterial 'computers' that behaved like artificial neural networks. In this setting, each type of engineered bacteria was a "bactoneuro and the combination of bactoneurons behaved like a multicellular organism canable of abstract mathematics The team reported its findings in Nature Chemical Biology in Septembe The paper's publication has stirred significant interest among synthetic significant inferest among symmetric biologists – experts who engineer new abilities in organisms. For example Pawan Dhar, executive director of the C.V.J.

Centre for Synthetic Biology and Biomanufacturing, Kochi, said, "We've entered a new era where bacteria can b programmed to solve mathematical inversations".
The creation of these bacterial

advances in the pharmaceutical industry and medical sciences and in the In an artificial neural network (ANN), processing units called nodes are connected to each other in layers. Each node takes in an input (or inputs), performs a computation on it, and produces an output - which can be the ANN's output or the input for another node. ANNs with more layers can perform

more complex computational tasks. Bagh's team used tools from molecular biology to introduce transcriptional genetic circuits in Escherichia coli, a During transcription, a bacteria transcribes a part of its DNA into RNA and reads from that RNA to make proteins. The microbe knows to begin transcription or absence of red and green fluorescent when proteins called transcription factors recognise specific DNA sequences called promoters, and kick off transcription.

The team built the genetic circuits in bacteria by introducing synthetic promoters that could be recognised by four transcription factors, individually or together. "The transcription factors and promoters and their interactions formed various feed-forward, feedback, and combination mechanisms," the authors wrote in their paper. (Machine-learning

In this way the researchers created 14 bactoneurons that could be brought together in different combinations, each working like a single-layered ANN. They tested each combination for its

voltage of electrical devices made of silicon to perform calculations. High voltage is the 'on' state, represented by I, and low voltage is the 'off' state, represented by 0. To mimic this in a bacterial computer, Bagh's team coded their problems first in the language of 0s and is and translated this to the presence (f) or absence (0) of the chemical inducers. For example, to ask a bacterial computer if a number between 0-9 is one, two, and three (III), and the absence of chemical four (0) would be read by the

#### Is n a Prime Number?

#### Bits

					Yes	No
0	0	0	0		0	1
0	0	0	1		0	1
0	0	1	0	. 8	1	0
0	0	1	1	<b>-</b>	1	0
0	1	0	0		0	1
0	1	0	1		1	0
0	1	1	0		0	1
0	1	1	1		1	0
1	0	0	0		0	1
1	0	0	1		0	1
	0 0 0 0 0 0 0	ARA IPTG 0 0 0 0 0 0 0 0 0 1 0 1 0 1 1 0	ARA IPTG aTC  0 0 0  0 0 0  0 0 1  0 0 1  0 1 0  0 1 1  0 1 1  1 0 0	0     0     0       0     0     0       0     0     1       0     0     1       0     0     1       0     1     0       0     1     0       0     1     1       1     0     0       0     0     0	ARÁ IPTG aTC AHL  0 0 0 0  0 0 1  0 0 1 0  0 1 0 0  0 1 0 1  0 1 0 1  0 1 1 0  1 1 0  0 1 1 1  1 0 0 0	ARÁ IPTG aTC AHL  0 0 0 0 0  0 0 0 1  0 0 1 0  0 1 0 0  0 1 0 1  0 1 1 0  0 1 1 1  1 0 0 0 0

A table from the study showing the input and the output for a bacterial computer calculating whether a given number is prime. ARA, IPTG, aTc and AHL are the

absence of chemicals one, three and four. | | A striking feature of the work of and the presence of chemical two would signal '4'. Similarly, the team understood the output by checking for the presence proteins, engineered into the bacteria along with the genetic circuits. In ANNs, the relationship between the

output and the input of a node is captured in an equation called the activation function. When we write f(x, y) = z, we're using the language of \*2, WET ISING the Dinguage or mathematics to say the value of 2 depends in a specific way on the values of x and y. (Do un not the red (0). The computer could also say whether a value of the bactoneuron's output unamber between 0 and 9 was a perfect. depends on (i) the strength of the input: (ii) its relative importance with respect to other inputs, called the weight; and (iii) a

constant added to the weighted sum of all inputs, called the bias.

A node is activated when the weighted sum of the inputs plus the bias crosses a threshold. The weighted sum is calculated crys consecuted committation for its additive portions specific stask. A combination could be switched 'on' by the presence or absence of four-theral compounds in the solution containing the bacteria.

weighted sum would be war + wry.
According to Bagh, all ANNs have a
similar activation function in form. The
differences arise due to the inputs and their weights. Whether each bactoneuron produced red or green fluorescent protein was contingent on an activation function that captured whether a certain concentration of chemical inducers, their weights (i.e. each inducer's ability to trigger a genetic circuit relative to other inducers), and a bias (which the team is

yet to explain in molecular terms) crossed a threshold. According to Bagh, the team did this princ, the team first converted it to binary, then used the 0s and 1s in the binary form to present or withhold the chemicals E.g., the presence of chemicals recognised and processed by the circuits proteins could be interpreted as I ('on')

Bagh et al. is that the bacterial computers are able to work on progressively more complex tasks

and their absence as 0 ('off'). A combination of 0s and 1s could be used to computer if 7 is prime, it responded "ves"

power (a number that can be expressed as whether a letter between A and L was a vowel. Encouraged by this success, the team raised the ante by having the computers answer more complex questions. They were able to say whether adding three to an integer would create a prime number (e.g. "is 2+3 a prime number?") and whether the square of a

certain number could be expressed as the sum of three factorials. Finally, the researchers tested whether

the bactoneurous could solve problems that couldn't be settled with yes/no answers. For this, they asked one computer to find the maximum number of pieces cutting a pie using a fixed number of straight cuts would create. This is an example of an optimisation problem, where researchers try to identify the best solution from a pool of possible solutions. The team input the number of straight

cuts in the form of chemical signals again including certain compounds and leaving others out. Since the output in this case would have to be a number, the team to produce specific fluorescent proteins
(output)." The presence of the fluorescent
other fluorescent proteins (blue and orange) in addition to the green and the

crimson ones. The presence or absence of these fluory and converted to decimal.

When they asked the computer to solve the problem for two straight curs, it didn't

express the orange fluorescent protei (0), expressed the blue fluorescent protein (i), and didn't express either the green or crimson fluorescent protein (00). 0100 in binary is 4 in decimal, and the correct answer. Then they asked it to solve for four straight cuts, and the computer responded by expressing the orange fluorescent protein (I), not expressing the blue (O), and expressing

both the green and crimson ones (II). Together, 10H is the code for the decimal

Breaking new ground Areejit Samal, a professor of computational biology at the Institute of Mathematical Sciences, Chennai, said a

striking feature of the work of Bagh et al. is that the bacterial computers are able to work on progressively more complex mathematical and computational tasks. Calling the paper "groundbreaking", Dhar, the Kochi-based synthetic biologis

said the future may not be far off where such biocomputers \*recognise the molecular patterns of cancer at its earlies ments before tumours ever form." H added that as scientists engineer bacteria computers with the ability to perform more complex tasks, "computational tasks could be outsourced to microbes, reducing the need for traditional

reinvigorated his hunger for more innovations in biocomputing, for Bagh, his engineered bactoneurons are a gateway to "think about the biochemical nature of intelligence." Sayantan Datta is a science journalist and (attacawintan95@cmail.com)





#### **Topic** → **Intelligent Bacteria development**

#### **Intelligent Bacteria Development**

Objective: Build intelligent bacteria at Saha Institute of Nuclear Physics,

Kolkata 🧬

Key Concepts:

Understanding of intelligence in single-celled vs. multicellular organisms

Developing bacteria that can solve mathematical problems like prime number

detection and vowel identification 12 about







Genetic Circuits:

Activation via chemical inducers 宗

Combination of engineered circuits to form bacterial computers 

Bactoneurons:

Engineered bacteria acting as neurons in artificial neural networks (ANNs)



Capability of performing tasks through combinations and interactions of bactoneurons

#### **Research Findings**

Published in Nature Chemical Biology 📜

Significant interest in synthetic biology and engineering new organism abilities Q Expert Opinions:

Comments from Pawan Dhar on programming bacteria for mathematical tasks •••

#### **Applications and Implications**



Potential advances in:

Pharmaceutical Industry 💊

Medical Sciences

Biomanufacturing Sector 🏭

#### Methodology

Molecular Biology Tools:

Introduction of transcriptional genetic circuits in Escherichia coli \$\square\$ Use of transcription factors and synthetic promoters for circuit building \$\square\$

ANN Structure:

Nodes connected in layers for computational tasks 🕸

**Testing Combinations:** 

Examining abilities of 14 different bactoneurons for specific tasks Q



Uranus is the first planet to be discovered with the aid of a telescope. FILE PHOTO

#### Scientists uncover a mix-up about Uranus

In 1781, German-born British astronomer William Herschel made Uranus the first planet discovered with the aid of a telescope. This frigid planet, our solar system's third largest, remains a bit of an enigma 243 years later. And some of what we thought we knew about it turns out to be off the mark.

Reuters

we intiggit we size amount it unris out to be off the mark.

Much of the knowledge about Uranus was gleaned when NASA's robotic species of Nayage? Conditioned a five-day species of Nayage? Conditioned as five-day observed that the probe visited at a time of unusual conditions – an intense solar wind event – that feet to misleaning observations about Uranus, and specifically in magnetic field.

wind over: - that for to misleading observations about Crains, and Debeverations about Crains, and The solar wind is a high-speed flow of changed particles amounting from the soun. The researchers to do A fresh look at time of Vouger 22 wish and found that it encountered Uranna just a few days after magneted before the plant's procretice magnetes bubble, to about 25% of its manual volume. We found that the solar magnetes plant is planted to the solar and volume with the maximum peaks with the material of the solar and wind mentally the maximum peaks with mentally and the crain register mounting and the solar an

The Voyager 2 observations left a misimpression about the magnetosphere of Uranus as lacking in plasma and possessing uncommonly intense belts of highly energetic electrons

"We would have observed a much bigger magneto-pure? Woyager 24 has bigger magneto-pure? Woyager 24 has bigger magneto-pure? Woyager 24 has bigger magneto-pure? I want to the Unam supersposhpore is similar that the Unam suspensposhpore is similar that the Unam supersposhpore is not be solar system; other giant planets, the researches said. A magneto-planet is the solar system of the giant planets, the researches said. A magneto-planet is decinition, extending a proceeder zone demandation. The Voyager 2 deservations left amisting research said a proceeder zone a miningression about the locking in a miningression about the locking in the said in the said of the

is a common feature in the magnetosphere of other planets so its low concentration observed around Uranus was puzzling. "The plasma environment of any planetary magnetosphere is usually formed of plasma from the solar wind, plasma from any moors present inside the magnetosphere and plasma from the atmosphere of the planet," Justinski said. "Mt Uranus, we did not see plasma from the solar wind on from the moors. And the solar wind on from the moors.

tenuous," Jasinski said.

Uranus has 28 known moons and two
sets of rings. The Voyager 2 observations
had suggested that its two largest moons,
Titania and Oberon, often orbit outside



#### **Topic** → **Uranus and Voyager 2 Findings**



#### **Overview of Uranus**

Discovered by William Herschel in 1781 Third largest planet in the solar system Remains an enigma even after 243 years



#### **Voyager 2 Mission**

Conducted a flyby in 1986 🚀

Provided much of the current knowledge about Uranus

Encountered unusual solar wind conditions during the flyby



#### **Key Findings**

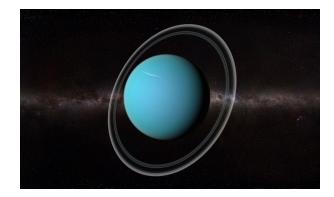


Magnetosphere: Observed to be only 20% of its usual volume during the flyby



Solar Wind Effects: Encountered during maximum intensity, leading to misleading observations **\Discrete** 

Plasma Environment: Low plasma concentration was puzzling, as it is typically present in other planetary magnetospheres



#### **Implications of Findings**



Suggests Uranus's magnetosphere may be more similar to Jupiter and Saturn than previously thought (3)

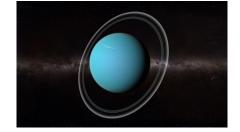
New understanding of the plasma and magnetic field dynamics around Uranus

Indicates potential for subsurface oceans on its moons, Titania and Oberon



#### **Future Research Directions**

Need for re-evaluation of past observations and data **T**Explore the possibility of life on Uranus's moons



#### A mixed report card for the IMEC



#### Progress on both ends Over the past year, various

challenges have delayed progress on the project. The announcement of the corridor came with much optimism. However, this did not last long, as the very premise which led to the conception of this idea, namely, the normalisation of Arab-Israel relations, came to a sudden halt with the escalation of the conflict between Israel and Palestine on October 7 last year. This crisis engulfed the whole of West Asia for the larger part of the year. which put the corridor on the back-burner. As a result of the temporary pause, two key stakeholders, Saudi Arabia and Jordan, have not been able to make any progress on the project. Though it may be argued that the official relations between Arab countries and Israel won't impact completion of work on the ground, the two governments, which will have to work closely with the Israeli establishment for the project, would not want the optics and its geopolitical dimension. Therefore, implementation on the northern part of the corridor, which is mostly in West Asia, is going to move slowly until the ongoing escalation subsides.



Afaq Hussain

Director, Bureau of Research on Industry and Economic Fundamentals, New Delhi



Akhtar Malik

Head of Programmes at Bureau of Research on Industry and Economic Fundamentals, New Delhi

Implementation

on the northern

corridor is going

to move slowly

until the West

Asian conflict

subsides, while

on the eastern

leg connecting

the UAE and

Indian ports

progress is faster

part of the

Arab Emirates (UAE) and Indian ports, things are moving forward at a relatively fast pace. The economic relations of the two countries are on a northward trajectory, which is also reflected in the increasing bilateral trade numbers. Post the signing of the Comprehensive Economic Partnership Agreement (CEPA) in 2022, bilateral trade has grown from \$43.30 billion in 2020-21 to \$83.64 billion in 2023-24 (a staggering 93%). Another important feature of the growing bilateral trade is the diversification of the trade basket between the two countries, which is reflected in the growing non-oil trade. The non-oil trade between India and the UAE grew from \$28.67 billion in 2020-21 to \$57.81 billion in 2023-24. This represents a healthy shift from an Indian perspective. considering that most of these commodities will be transported further west and north through the IMEC, thereby improving India's export share in the larger region. Beyond amplifying trade

On the eastern leg of the

corridor connecting the United

standardisation and facilitation of trade processes. Recently, India and the UAE launched the Virtual Trade Corridor. This will be an integral part of the IMEC, aimed at the reduction of administrative processes and time, reduction of logistics and transportation costs, and ease of doing trade. The streamlining of trade processes would not only serve bilateral relations, but also pave the way and provide a working model for other countries involved in the IMEC to develop similar frameworks for cross-border trade facilitation.

volumes, the two countries are

also working on the

After more than a year since the IMEC was announced, we see an uncertain western part of the corridor trying to navigate through the conflict and a committed eastern part that is forging new linkages to ready itself for the new maritime order.

Further, given the one-year progress and the situation on the ground, it is clear that only the connectivity aspect of the IMEC initiative is gaining some traction at the moment. Other elements of the corridor, including clean energy export, undersea fiber-optic cables and pipelines, energy grid linkages, telecommunication lines, and clean energy technology cooperation, will have to wait till the situation in West Asia normalises. Therefore, the countries on the eastern part of the corridor should use this time to develop their capacity to improve connectivity among them.

#### What India can do

India, especially, can use this time to prepare its ports, develop specific economic zones along the connectivity nodes, and improve its domestic logistics for seamless integration with the IMEC. There is a need to improve the digital footprint in the domestic logistics landscape, which will help reduce logistics time and costs, thereby making Indian exports more competitive. Further, the corridor, as ambitious as it may be, is just the means. The actual benefits will be seen only if India can improve its integration in the global value chains. With IMEC, India aims to position itself as a global supply chain alternative. This can only happen if the country takes steps towards enhancing its manufacturing competitiveness.

Finally, it is time to push for the IMEC secretariat, which can make the structure and working of the IMEC more organised. For starters, the secretariat can work on developing the framework for streamlining the cross-border trade processes and empirical evidence-based research on benefits accruing to participating countries. This would help countries in the neighbourhood of the corridor to better understand the project. This may end up generating interest, which could result in them joining it.



#### **Topic - IMEC**



Announcement of IMEC: The India-Middle East-Europe Corridor (IMEC) was announced in September 2023 during the G20 summit in New Delhi.

Teduced Transit Time: The corridor is expected to reduce transit time between eastern and western nodes by 40%.

⚠ Challenges and Delays: Progress on the project has faced delays due to geopolitical tensions, particularly the Israel-Palestine conflict that escalated on October 7, 2022.





Stakeholder Involvement: Key stakeholders, including Saudi Arabia and Jordan, have been unable to advance the project due to the ongoing conflict.

Geopolitical Implications: The normalization of Arab-Israel relations is crucial for the corridor's success, but current tensions hinder cooperation.

Slow Implementation: The northern part of the corridor, primarily in West Asia, is expected to progress slowly until the regional conflict subsides.

Bilateral Trade Growth: Trade between the UAE and India surged from \$43.30 billion in 2020-21 to \$83.64 billion in 2023-24, marking a 93% increase post-CEPA signing in 2022.

Diversification of Trade: Non-oil trade between the two nations rose from \$28.67 billion in 2020-21 to \$57.81 billion in 2023-24, indicating a healthy diversification in trade commodities.

Living Trade Corridor: India and the UAE launched a Virtual Trade Corridor to streamline trade processes, reduce logistics costs, and enhance ease of doing business.

MEC Integration: The Virtual Trade Corridor is part of the India-Middle East-Europe Economic Corridor (IMEC), aimed at improving trade facilitation and serving as a model for other countries.

Eastern Corridor Commitment: The eastern leg of the IMEC is progressing well, while the western part faces challenges due to regional conflicts.



Future Prospects: Other elements of the IMEC, such as clean energy exports and telecommunication links, are on hold until stability in West Asia is achieved.

Z Capacity Building: Eastern corridor countries are encouraged to enhance their connectivity capabilities during this period of uncertainty.

What india can do ??



Tort Development: India should focus on preparing its ports and developing specific economic zones along connectivity nodes.

Logistics Improvement: Enhancing domestic logistics is crucial for seamless integration with the International Multi-Modal Connectivity (IMEC) initiative.

Digital Footprint: There is a need to improve the digital landscape in logistics to reduce time and costs, making Indian exports more competitive.

Global Value Chains: India aims to enhance its integration into global value chains to position itself as a viable global supply chain alternative.

Manufacturing Competitiveness: Steps must be taken to improve India's manufacturing competitiveness to fully benefit from the IMEC.

SAURABH PANDEY

CSE

FOOT MICE THE CHILDREN

FOOT MICE

IMEC Secretariat: Establishing an IMEC secretariat is essential for organizing the structure and operations of the initiative.

Research and Awareness: The secretariat can facilitate research on cross-border trade processes and benefits, potentially attracting neighboring countries to join the project.

Summary: India has the opportunity to enhance its logistics, manufacturing, and global integration through the IMEC initiative, which requires the establishment of a dedicated secretariat for better organization and research.

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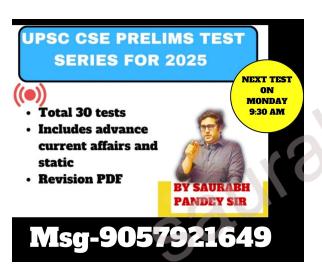
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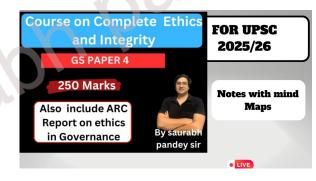
Q "Carbon market without environment integrity will not be effective" Examine

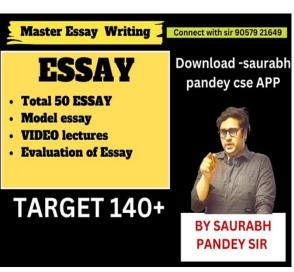


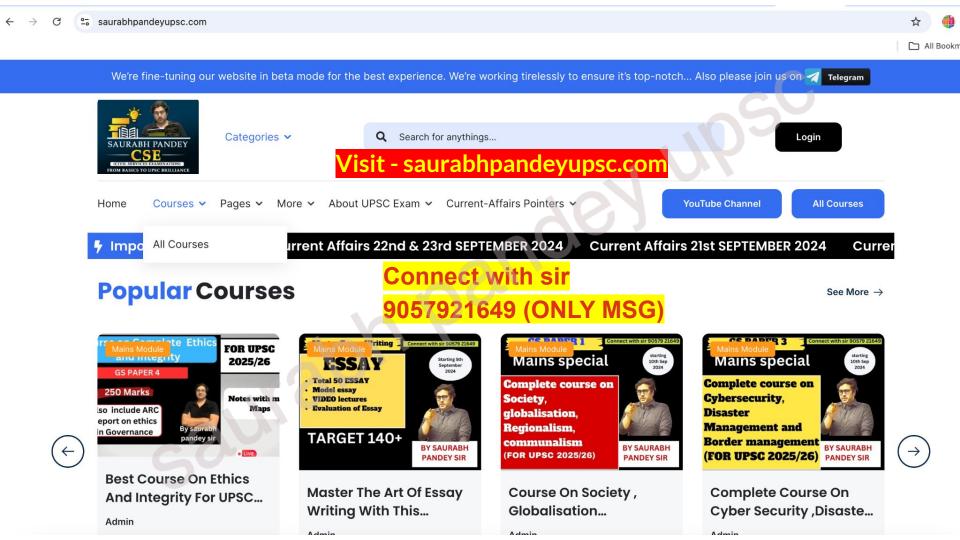
















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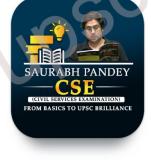
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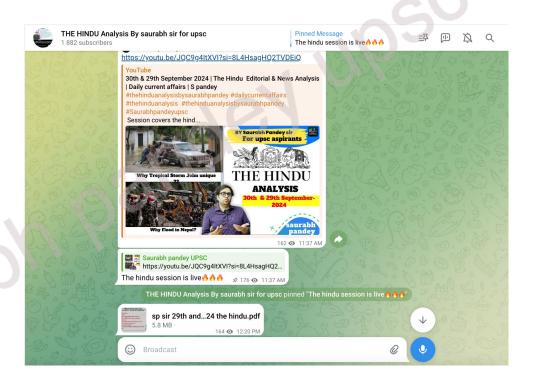


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Q "IMEC Successful implementation depends on multiple factors "Discuss

प्रश्न "IMEC का सफल कार्यान्वयन कई कारकों पर निर्भर करता है" चर्चा करें

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