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Diving Into the Water Bodies Census

Editor's Note

Almost half the General Election is over. The fate of 285 Lok Sabha seats is locked in EVMs. The country waits for a new government but at The Infravision Foundation, it is business as usual. When the dust of campaigning settles, governance will take over again. There is much to be done if the new government wants to fulfill the aspirations of 1.4 billion people. And as the manifestos of most parties show, infrastructure will be very much on the agenda.



TIF CEO Jagan Shah speaks at the meeting

Findings from The Infravision Foundation's analysis of the first water bodies census will inform the second census by the Government. This was one of the major decisions to emerge after The Infravision Foundation (TIF) presented its findings to the Ministry of Jal Shakti on April 18. Among those who attended were Debashree Mukherjee, Secretary of the Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, officials from the National Water Mission, the National Institute of Hydrology, the Central Water Commission, the National Water Informatics Centre, the Ministry of Agriculture and Family Welfare, the Department of Land Resources, and the National Informatics Centre, as well as representatives of the ATE Chandra Foundation.

Event Alert

TIF and India Habitat Centre will be hosting the first InfraKatha, a series of conversations by multi-disciplinary experts who are creating and analysing the infrastructure of the future. The inaugural edition is on May 29, 2024, at 7 pm, at India Habitat Centre, New Delhi. Celebrated author Devdutt Pattanaik will be in conversation with TIF founder and managing trustee Vinayak Chatterjee on Mythology and Infrastructure.



TIF will conduct the first two capacity building workshops in collaboration with the World Bank in Delhi in June. The Municipal Finance Champions Labs will address the issues of land value capture in public transport and wastewater treatment.

Welcome Aboard



Akhilesh Tilotia joins TIF as Distinguished Fellow. With 20 years of experience in public policy and entrepreneurship, he is currently Head of Research at the National Investment and Infrastructure Fund. He is an alumnus of IIM Ahmedabad; an Advisor to the Drone Federation of India; alumni lead of the IIMA Public Policy Special Interest Group; and has served as independent director on several boards. He is also the author of two books on the Indian economy and administration, The Making of India (2015) and Through the Looking Glass (2021).



Vrinda Singh joins TIF as Research Associate. Armed with a dual master's degree—one in Political Science from Calcutta University and another in Public Policy and Governance from Tata Institute of Social Sciences (TISS), specializing in urbanisation—she embodies a profound commitment to understanding and addressing nuances of urban policy. Welcome and good to see her hard at work.

Work Update

- TIF reports on High Speed Rail and Safe Highways are in the process of being finalised.
- The InfraShakti Awards on NDTV are expected to happen in July, once the General Election is over and a new government is in place.
- TIF has won a bid and will be working on a project with the International Centre for Research in Agroforestry on amendment of state building codes to promote Trees Outside Forests (TOF)-based products in the construction sector. The TOF initiative is being run by the Ministry of Environment, Forest and Climate Change with support from USAID.

Centre for Urban Infrastructure and Management

TIF has begun work on shaping an urban centre which will link infrastructure, people and outcomes. Discussions are on in full swing to transform cities into engines of growth and generate fresh thinking about urban India. In bridging the gap between policy and implementation, the Centre intends to ensure that cities can raise their contribution to GDP from the current 60 per cent.



Pushing Semiconductors

TIF Founder and Managing Trustee Vinayak Chatterjee wrote about India's much-needed digital push in Business Standard. As he pointed out, semiconductor is a \$750 billion global industry set to double in the next 6-7 years, and India is purposefully striving to develop its own capabilities. Currently India imports 100 per cent of its semiconductors which leaves it vulnerable to geopolitical impact on the supply chain. What is working in favour of India is its abundant, technically oriented talent, access to green energy and a growing specialty chemicals manufacturing ecosystem.

Digital infra: Pushing chips hard governments are seen chipping in too. For example, beyond the S0 per cent central government support, the Gajara government has also committed 20 per cent capital support to the Tula project. purport of the J0 Mercen's assembly and desting faci-ity. In Gujarat's Sanand began construction in September 2023. Tata Electronics, partnering with Taiwan's Powerchip Semiconductor Manufacturing Com (DSAT). Is environ rawto no set up a semicor-

A the Business Standard Manthan on March 72, 2024, Astwini Vaishnaw, minister of Infor-matic nethonology, telecom and railways, made some hard-hitting points: 00 Semiconductor is a \$750 billion global industry set to double in the next 57 years, and Indui is purpose-fully striving to develop its own capabilities.

rumy attrying to acevelop its own capabilities. (if) What is working in favour of India is its abundant technically oriented talent, access to green energy and a growing specialty chemicals manufac-turing ecosystem. (iii) India is aiming to capture a significant share of the full value ohen. from consentue¹¹/internet and the full value ohen.

ultivalue channel of capture a significant state of ultivalue chann — from conceptualising a new to designing and validating it, and then taking it al fabrication. India's moves in this regard are also aimed at bol-ng its economic security.

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Sactions indeed hotting up in the bal marketplace. The US Commerce Department is heprocess of structuring a 539 bill ng ransts facility for chipmaking, it nderstood that the USA will award instotalling SLI & billion to Taiwan miconductor Manufacturing mgany (TSAKC) to assist the worlds nonservent Manufacturing paper TSMC to assist the world's INFRATALK INFRAT

y Japan, and the EU. ndia, the government has approved the estab-nt of semiconductor units as part of the opment of Semiconductors and Display acturing Ecosystems in India" policy, notified ember 21, 2021, with a total outlay of 75,000 his policy aims to make India self-reliant, and the main and a shall built for a determine search and the main and the shall built for a determine search and the shall be a det This policy aims to make India self-rei ition it as a global hub for electric and manufacturing. To attract invest ld, the central government will provide tr of 50 per cent of the project cost. Sp licy will incentivise the setting up of 5 "fabs" (fabrication units), display fabs, i c compound semiconductors, silicon p



Talwan's Powerchip Semiconductor Manufacturing Corp (PSMC), is getting ready to set up a semicon-ductor fab in Gujarat's Dholera with an investment of 891,000 crore. The second project spearheaded by Tata Semiconductor Assembly and Test (TSAT) Pvt "a will artiabileh an assembly packaging and testing

components are interconnected to perform a specific function, such as processing data in a computer or controlling electronic devices. Chips are highly com-plex products to manufacture. The critical stage of fabrication takes place in specialised facilities known as semiconductor fabrication plants or "fabs", where

Then its a unique industry where the annual invest ment in R&D is often as much as capital invest the need for deep technical knowledge with the second transformer in the second for electronic devices to process, store and trans-for electronic devices to process, store and trans-for decircular devices to process, store and trans-to second second second second second second second by packing billions of electronic components it we sensus millions for the second s

uana. I ney are integrated circuits made Hom Sillon by packing billions of electronic components in a few square millimetres. Chips are critical to all elec-tronics around use – from smarthhomes to servers, modern cars, machinery and automation, critical infrastructure and even defence systems. La structure and even defence systems. The structure and even defence systems and the structure and the system of the system of the phone market, which reached Silo Million in PYZI the country remains a passive consumer, vulnerable to geopolicital tensions that could divery the supply chain. For instance, the Couid-19 chips shortage and US sanctions on Huwei highlighted [leuks / chors) chain. For instance, the Covid-19 chip shortage and US sanctions on Huwein highlighted India's depen-dency on external suppliers, exposing it to risks of supply chain disuptions. Currently, India imports 100 per cent of its semiconductors, Projections indi-cate that import figures could surge to S110 billion 90 2030, underlining the critical need to localise the semiconductors pupply chain to algo with the vision of a self-reliant India in this area of critical and high-the hele tronies manufacturine

The Covernment Onlia has clearly taken a series of decisive measures. Stating in 2019, it awarded infractive measures. Stating in 2019, it awarded facilities, This was the first time a manufacturing facilities, This was the first time a manufacturing infrastructure. The process of dishumation of infrastructure. The process of dishumation of measurements of the series of the ser facility had been included in the official def infrastructure. The process of disbursing the subsidy marked the next logical step. Consid-criticality of this industry, the global, tech it approp Subsidy F

otential entrants. The country now looks forward to confidently pow-ing its digital infrastructure with a few more mmitted players, signifying that the chips are no

Capturing Land Value

Chatterjee was also guoted in an ET Now article on the Government exploring policy mechanisms to capture the increase in land value resulting from road projects, including auctioning exits at greenfield expressways, as it looks to ramp up funding for creating infrastructure.

Tracking Growth

In a detailed interview with ET Now on the new government's infra focus, Chatterjee said he envisages a prioritisation of Railways, from new tracks to modernisation of stations. For more, click on this link: https://youtu.be/dl3ap63s5JU

Counting the Benefits

Former TIF COO Nitin Zamre wrote an enlightening article in Financial Express on the impact of Prime Minister Narendra Modi's Surya Ghar Yojana. While he was at TIF, Zamre piloted the Sooraj Se Rozgari study which was presented to the Prime Minister's Economic Advisory Council. While unpacking all the announcements from the Government, Zamre said it is an excellent opportunity to scale up the adoption of clean energy as well as create local entrepreneurs and jobs.

India Rising Down Under

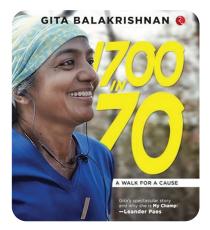
In a move towards fostering gender diversity and empowerment in the corporate world, the Confederation of Indian Industry (CII) and the Business Council of Australia (BCA) signed a memorandum of understanding (MoU) to establish the India-Australia Women's Leadership Forum. The forum aims to promote women leadership in the industry and strengthen bilateral ties between the two countries. TIF co-founder Rumjhum Chatterjee signed the MoU as head of the CII National Committee for Women Empowerment. Australia was represented by Business Council of Australia, CEO Bran Black.





TIF@Books

Gita Balakrishnan is an architect, trained at the School of Planning and Architecture. A remarkable woman, she was troubled by the absence of a design language in urban India. She decided to walk 1700 km in 70 days from Kolkata to Delhi. Balakrishnan encountered some fabulous individuals and institutions along the way including an anganwadi worker, a woman mason, a solar energy park in Rewa and a lifeline express in Jharkhand. Her walk taught her many things--highways in India are not at all friendly to pedestrians, architects have no connect with the people who execute their designs and those who live in them, and the local is losing out steadily to the global. More on her in a fascinating conversation on theinfravisionfoundation.org and in her book, 1700 in 70 Days (Rupa).



TIF@TCF

The Infravision Foundation features prominently in a video from The Convergence Foundation (TCF) which explains the concept of systems change, as a pivotal idea to catalyse development. The four point argument of systems change is simple: address root causes, have an impact at the population level, enable sustainability and ensure a shift in mindset. The video is part of TCF's first report on systems change. Here it is in full: https://theconvergencefoundation.org/systemicimpact/

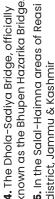


Test Your Infra Power

- 1. Which State in India has the highest number of metros?
- 2. Which is the highest airport in India?
- 3. How many kilometres of roads is India adding annually?
- 4. What is the first permanent road connection between northern Assam and eastern Arunachal Pradesh?
- 5. Where was a deposit of 5.9 million tonnes (mt) of inferred lithium ore found in 2023?



 UP, which has five metros that are operational, two that are being constructed and four that are being planned.
Kushok Bakula Rimpochhe Airport is a public use airport located 2 km southwest of Leh, a town in the state of Jammu and Kashmir, at an elevation of 3,256 m (10,682 ft) above mean sea leve
10,000 km





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