

Special Educator AI

National Conference on Artificial Intelligence for Empowering Persons with Disabilities held in Bengaluru



Artificial Intelligence (AI) holds transformative potential to empower persons with disabilities. At the heart of the India AI Mission is a deep collaboration with the Department of Empowerment of Persons with Disabilities to co-develop AI-driven solutions addressing diverse challenges—from visual and hearing impairments to learning disabilities.

One such initiative enables access to public services using sign language. In partnership with CDAC and Amrita Vishwa Vidyapeetham, this solution allows hearing-impaired individuals to interact with digital systems via sign inputs, which are converted into text, processed by AI, and then translated back into sign language—making governance more inclusive.

The mission is also promoting AI tools for individuals with visual, cognitive, and intellectual disabilities. Accessibility guidelines under the GIGW mandate AI-powered features like adjustable fonts, contrast settings, and voice outputs to make digital services universally usable.

Several innovative assistive solutions from startups are being incubated. These include Jeevisha, a tool for diagnosing learning disabilities; Special Educator AI, addressing the lack of trained educators; and Readable, which helps dyslexic children build phonetic skills. Others, like Voice Fusion AI, offer speech-impaired individuals personalized, expressive voice options through generative AI. Screening tools for autism, such as ScreenPlay, use game-based assessments to identify early signs in young children, especially in underserved areas.

The Bhashini project is enabling real-time speech-to-text and text-to-speech for multi-language accessibility. CDAC is also converting textbooks into braille formats using AI.

Youth involvement is growing too—school students trained under the “YUVAi” initiative have built AI-enabled tools, like a smart walking stick for Alzheimer’s patients. Together with startups, ministries, and communities, the India AI Mission is committed to scaling these innovations for inclusive growth and equitable digital access for all.



Department of Empowerment of PwDs, Ministry of Social Justice and Empowerment, Govt. of India in Collaboration with Artificial Limbs Manufacturing Corporation of India (ALIMCO) had organised the National Conference on 30th May 2025 at Bengaluru.

Abstract of the address of Shri Abhisekh Singh, IAS, Additional Secretary, MeitY and Director General, NIC

Hon'ble Prime Minister unveiled Vision Document in the presence of Hon'ble Chief Minister, Odisha

On 20th June, 2025 in a grand public gathering at Janata Maidan, Bhubaneswar, Hon'ble Prime Minister laid the foundation stones and inaugurated key developmental projects worth approximately Rs 18,600 crore. These included the launch of new railway services and a fleet of 100 electric buses aimed at bolstering urban mobility and green infrastructure.

He also unveiled the Odisha Vision Document 2036, outlining an ambitious roadmap for transformation of the state by the time Odisha celebrates 100 years of its formation. The event also marked the launch of the “Baraputra Aitihya Gram Yojana” to honour eminent Odias citizens who've made significant contributions to the society.

Villages to be covered under Baraputra Aitihya Gram Yojana, Boudh railway station and CRUT stations etc. were connected over video conferencing for the programme. Video Conferencing Division of NIC provided round the clock support for testing the links at twenty nine outdoor locations. NIC, Hqrs also provided webcasting service to webcast the event.



Hon'ble Minister for Forest & Environment, Odisha launched Fly Ash Management Portal

In a significant step towards sustainable infrastructure development and environmental protection, Odisha launched an online web portal dedicated to streamlining fly ash utilization in road projects across the state.

The innovative platform will serve as a central hub where thermal power plants and other ash generators can declare the quantity of fly ash they can make available for road projects. Conversely, construction agencies like NHAI and the state PWD can raise project-specific demands for the crucial material. A key feature of the portal is its intelligent allocation system. It will consider factors such as the distance between the ash generator and the project site, the declared availability of ash, and the willingness of generators to supply, ensuring rational and efficient distribution.

The Odisha State Pollution Control Board (OSPCB) will play a pivotal role as the facilitator, overseeing the operation and maintenance of the portal and acting as a mediator to resolve any issues that may arise during the allocation and execution process. The portal, developed by NIC with support from the National Highways Authority of India (NHAI) and patronage from the Works Department, was unveiled on the occasion of “State Level World Environment Day - 2025” celebrations on 6th June, 2025.





National Level Agristack Pre-Conference Technical Meet on “Synchronizing Land Records & Farmer Registry”

The National Level “Agristack Digital Core Technical Meet” was convened on 29th May, 2025 at the PUSA, New Delhi. The meeting was chaired by Shri Rajiv Chawla, IAS (Retd), Chief Knowledge Officer (CKO), Agristack, Ministry of Agriculture, Government of India, in the gracious presence of Shri Prashant Kumar Mittal, Dy Director General, NIC.

Delegates from 17 NIC State Centres participated, alongside representatives from the Asian Development Bank (ADB) and consultants from Ernst & Young (EY), contributing significantly to the technical discussions. Shri Jagannath Prasad Bakshi, Director(IT) represented from NIC, Odisha.

The deliberations centered on enabling real-time interoperability between the State Land Records Database and the Farmer Registry Database. The aim is to ensure that Land Records are updated with the Farmer ID during each land transaction. The Farmer Registry is to be enriched with Farm IDs sourced from the Land Records Database at the time of farmer registration by the respective State Agriculture Departments.



State-Level Revenue Officers’ Conference held in Bhubaneswar to strengthen Governance

A two-day State-Level Revenue Officers’ Conference was held on 4th –5th June, 2025 at the Convention Hall, Lok Seva Bhawan, Bhubaneswar, aiming to reinforce revenue administration of Odisha in alignment with Vision 2036. The conference brought together 317 Tahasildars, 58 Sub-Collectors, 30 ADMs, and 3 RDCs to discuss governance reforms and citizen-centric service delivery.

Inaugurated by the Hon’ble Chief Minister, the event saw participation from the Hon’ble Minister, Revenue and Disaster Management, Chief Secretary, and other top officials.

Deliberating on this occasion Sri Jageswar Sahu, Senior Director (IT), presented the preparation and maintenance of land records, mutation processes with special emphasis on Column-2 updation and e-Governance initiatives. He was joined by senior officials including Smt. Madhusmita Sahoo, IAS, Addl. Secretary, Sri Amiya Kumar Sahoo, Addl. Secretary and Sri Pradeep Kumar Sahoo, Joint Secretary fostering a comprehensive dialogue on digital transformation in the revenue sector. The conference concluded with a strong resolve to improve transparency, efficiency, and inclusiveness in revenue governance system of Odisha.



Sensitization on e-DAR for Officials of General Insurance Companies

A state-level training session was held at the RTO Office, Bhubaneswar, on 9th June, 2025, bringing together representatives from all General Insurance Companies operating in Odisha. The objective of the session was to raise awareness about the e-Detailed Accident Report (e-DAR) platform and to discuss its integration with the insurance claim portal to facilitate faster and more transparent claim settlements.

Technical presentations were delivered by Shri Prasanta Kumar Nayak, Senior Director (IT), and Shri Aditya Raghav, Scientific Officer/Engineer-SB, along with Shri Rajiv Mahapatra, State Resource Manager for iRAD/e-DAR. The session was conducted in the presence of the Additional Commissioner and Joint Commissioner of Transport, Odisha.

The session provided a comprehensive demonstration of the e-DAR application workflow. Officials were guided through the relevant digital forms and their functionalities, emphasizing the system’s potential to streamline and expedite the claim processing mechanism. A significant part of the discussion also focused on the challenges posed by uninsured vehicles and the possibility of leveraging the platform to enhance revenue and insurance coverage. The meeting concluded with a mutual resolve among all stakeholders to improve claim processing efficiency and strengthen insurance penetration across the state.



हिन्दी कार्यशाला: राजभाषा नियम व अधिनियम - अधिकारियों की उत्तरदायित्व

राष्ट्रीय सूचना-विज्ञान केंद्र, भुवनेश्वर में दिनांक 18-06-2025 को एक हिन्दी कार्यशाला का आयोजन किया गया, जिसमें STPI के राजभाषा सलाहकार श्री हरिराम पंसारी बतौर मुख्य अतिथि उपस्थित थे। इस कार्यशाला में राज्य तथा जिला केंद्र के लगभग 55 प्रतिभागियों ने भाग लिया था। दीप प्रज्वलन तथा वंदना गान से कार्यक्रम का शुभारंभ किया गया, तत्पश्चात सभी उपस्थित प्रतिभागियों का स्वागत करते हुए हिन्दी अनुवादक डॉ अलका प्रधान ने हिन्दी भाषा तथा राजभाषा हिन्दी के महत्व को रेखांकित करते हुए इसे सरकारी कार्य में अधिकाधिक प्रयोग करने की अपील की। SIO महोदय ने कहा कि कोई भी भाषा तभी सफल होगी जब उसका सतत प्रयोग हो, और हिन्दी का प्रयोग कोई विकल्प नहीं, बल्कि यह हमारा संवैधानिक दायित्व है।

मुख्य अतिथि श्री पंसारी जी ने कहा कि राजभाषा हिन्दी प्रेम, प्रेरणा तथा प्रोत्साहन की भाषा है। अपने वक्तव्य में श्री पंसारी ने हिन्दी के सरल, सहज तथा सटीक प्रयोग को लेकर कई सारे ई टूल्स के बारे में साझा किया तथा यूनिकोड के बारे में विस्तार से बताया। अंत में OLIC की उपाध्यक्षा सुश्री सुजाता दास ने हिन्दी पत्राचार को बढ़ाने के लिए कहा तथा उनके धन्यवाद प्रस्ताव के साथ कार्यशाला का सत्र समाप्त हुआ।



Conventions

eTRANS-2025: Zonal eTransport Conference Held at Chandigarh

The Ministry of Road Transport & Highways (MoRTH) and the NIC eTransport Project Group jointly organized the zonal eTransport Workshop – eTRANS-2025 – from 16th to 17th June, 2025 in Chandigarh. The event witnessed participation from 12 States and UTs including Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Gujarat, Rajasthan, Punjab, Haryana, Chandigarh, and Delhi.

The primary objective of the conference was to foster collaboration among stakeholders, highlight new initiatives under the eTransport project, promote awareness and adoption of emerging solutions, and collect valuable feedback through focused group discussions and brainstorming sessions.

The event was inaugurated by Shri Anil Vij, Hon'ble Transport Minister of Haryana, in the presence of Shri V. Umashankar, IAS, Secretary, MoRTH; Shri I. P. S. Sethi, Former Director General, NIC; and other senior dignitaries from MoRTH, NIC, and participating states.

Representing NIC Odisha, Shri Prasanta Kumar Nayak, Senior Director (IT) and Transport Project Coordinator, along with Shri Aditya Raghav, Scientific Officer/Engineer-SB, attended the workshop. They showcased key digital initiatives from Odisha including the eDetection system, EV Subsidy Portal, and AI-driven innovations in transport services, which received notable appreciation at the national level.

In recognition of NIC Odisha's contributions, Shri Prasanta Kumar Nayak was felicitated during the event, marking a proud moment for the state team.



Appreciation from the Vice-Chancellor, Berhampur University

On behalf of Berhampur University,

I take this opportunity to extend our deepest appreciation to the entire team of the Centre for Modernizing Government Initiative (CMGI) and the National Informatics Centre (NIC), Odisha, for the dedicated support, coordination, and professional expertise in the successful implementation of the e-Office system in our university.

The e-Office platform has already begun to streamline our internal processes, enhanced transparency, and improved overall efficiency –aligning with our vision for a modern, responsive, and digitally empowered academic institution. The transition to a digital workspace marks a significant milestone in our administrative reform journey, and your cooperation played a pivotal role in making this initiative a reality.

From initial planning and capacity building to the final execution and support, your team has exhibited exemplary professionalism, technical acumen, and a proactive approach throughout the process. We look forward to continued support and collaboration with CMGI and NIC in our future digital initiatives. Once again, we thank you for being a part of this significant transformation.

Prof. Geetanjali Dash
Vice-Chancellor, Berhampur University
Bhanja Bihar, Berhampur-760007, Odisha



Photo Story



Training Session on Case Information System (CIS) and e-Filing for Sub-Registrars and Assistant Sub-Registrars of Orissa High Court held at Odisha Judicial Academy



eOffice training at IISER, Berhampur by NIC eOffice team



Review meeting on the implementation and progress of eOffice held under the chairmanship of the Collector & DM, Jagatsinghpur



Publications



Video documentary
on
Fly Ash Management System
developed by NIC, Odisha



Our sincere tribute and honour to
■ Shri Chittaranjan Kanungo, Scientist-G (DDG) and
■ Ms Sreeprava Nanda, Scientist-E (Director - IT)
on the eve of their attaining superannuation
for the years of dedicated & exemplary service at NIC, Odisha.



Operation Sindoor: When Code Became the New Frontline

What if your next line of code doesn't power a website, but decides the fate of a battlefield? India's Operation Sindoor (May 2025) showcased how AI, edge computing, and cyber systems are rewriting the rules of warfare, merging IT infrastructure with battlefield strategy.

Tech Stack Behind the Tactics

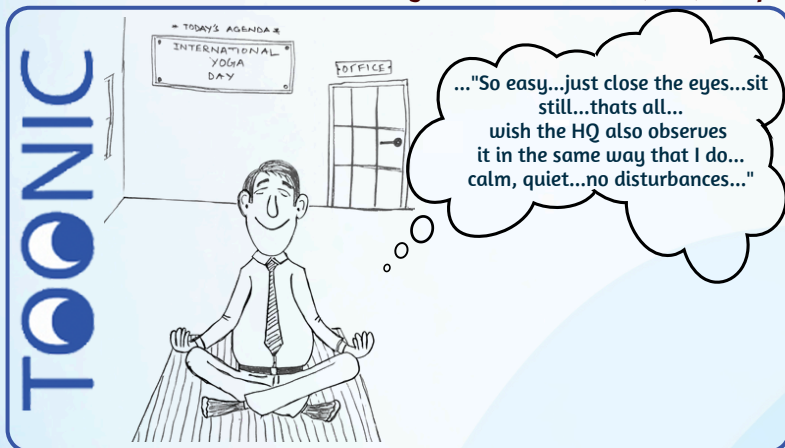
- **AI-Driven Threat Mapping :-** The Indian military used AI models (trained with machine learning libraries like PyTorch and TensorFlow) to scan terabyte-scale satellite data and drone images. Instead of humans spending hours analysing, AI instantly spotted enemy positions, vehicles, and weapons.
- **Swarm Intelligence :-** SkyStriker drones, which acted like a self-organizing swarm—no need for central command—used decentralized algorithms to coordinate strikes, bypassing jamming via mesh networks. India's Akashteer automated Air Defence Control and Reporting System neutralized 600+ UAVs using edge-AI for instant threat classification.
- **Precision Guided by Code :-** SCALP missiles used multi-layered localization system that combines several technologies to maintain accurate positioning throughout its long-range flight — without relying solely on GPS which can be jammed—a technology that lets machines build maps and localize themselves in real-time, commonly used in self-driving car for <10m accuracy, reducing collateral damage by 72% compared to traditional strikes. Using GPU-powered computing, the missile could make on-the-fly decisions while flying—correcting its path for precision. This led to strikes that landed within 10 meters of the target, avoiding nearby civilians or unintended damage.

IT Vs. Boots-on-Ground: A Paradigm Shift

Parameter	Conventional Warfare (2000s)	Operation Sindoor (2025)
Data Processing	Manual Intelligence (24-48 hrs)	Real-time analytic powered by AI
Attack Precision	~ 1 Km radius	<10m via LiDAR, G, and SLAM
Response Time	Several Hours	23 minutes (cloud-edge synergy)
Human Risk	High (pilots, infantry)	Minimal

Operation Sindoor proves that the future of conflict lies in code, not just combat. For NIC Odisha, this underscores the need to invest in AI-driven cybersecurity, quantum-resilient protocols, and edge-computing resilience.

Contributed by: : Shri Suresh Bairwa, DIO, Koraput



11th International Yoga Day Celebration

NIC, Odisha celebrated the 11th International Yoga Day on 21st June, 2025, at Dr. Seshagiri Memorial Hall, Bhubaneswar with great enthusiasm. Officers, staff, and yoga enthusiasts gathered to promote physical, mental, and spiritual well-being through yoga. The event began with the lighting of the ceremonial lamp and chanting of the Gayatri Mantra, setting a serene tone. Participants took part in a guided session of yogasanas and pranayama to enhance inner calmness, flexibility, and focus.

Renowned Yoga Guru and humourist poet Shri Pramod Kumar graced the occasion as Chief Guest and inspired the attendees to embrace yoga as a way of life. The theme "Yoga for One Earth, One Health" was explored through engaging discussions. Dr. Ashok Kumar Hota, DDG & SIO, Odisha, felicitated Jalasathis for their contribution during the months long Jalaseva by NEARS during the last peak summer. The event concluded with a collective resolve to integrate yoga into daily life.



IT by Tea



Zero Trust Security

Unlike traditional security models that trust users and devices inside the network, Zero Trust assumes that no one—inside or outside the network—is automatically trusted. Access is granted only after verifying multiple factors such as identity, device health, and behavior.

Myth:

Implementing zero trust means replacing everything and trusting no one at all. A firewall is enough without zero trust.

Truth:

Zero Trust is a strategy, not a product. It doesn't require ripping out your current infrastructure. Instead, it involves integrating Zero Trust principles into your existing systems—starting with identity management, device verification, and network segmentation.

Zero Trust doesn't eliminate trust—it validates trust continuously. The core idea is not to distrust everyone, but to verify each access request based on real-time context. Trust is earned through identity verification, device authentication, and behavior analysis—not assumed.

Firewalls protect network perimeters, but perimeters are dissolving due to remote work, cloud services, and mobile access. Zero Trust secures individual users and devices, regardless of location—filling the gap that firewalls alone cannot cover.

Contributed by: Shri Raj Anand, DIO, Bargarh