

रक्षा मंत्रालय
MINISTRY OF
DEFENCE



रक्षा उत्पादन विभाग
DEPARTMENT OF
DEFENCE PRODUCTION

Shared Horizons of Inn--vation

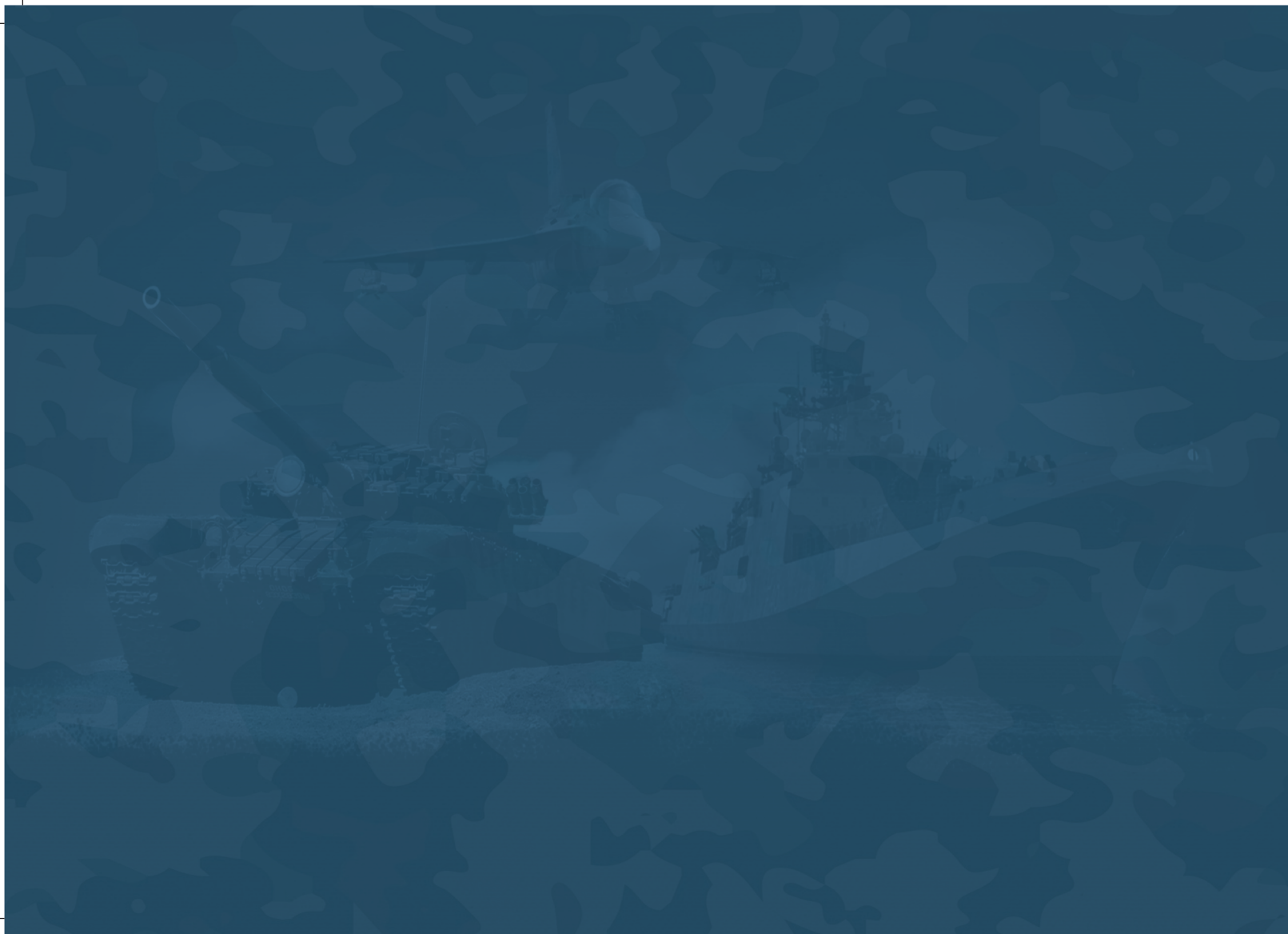
Dual-Use Products of iDEX



iDEX

PM Awardee

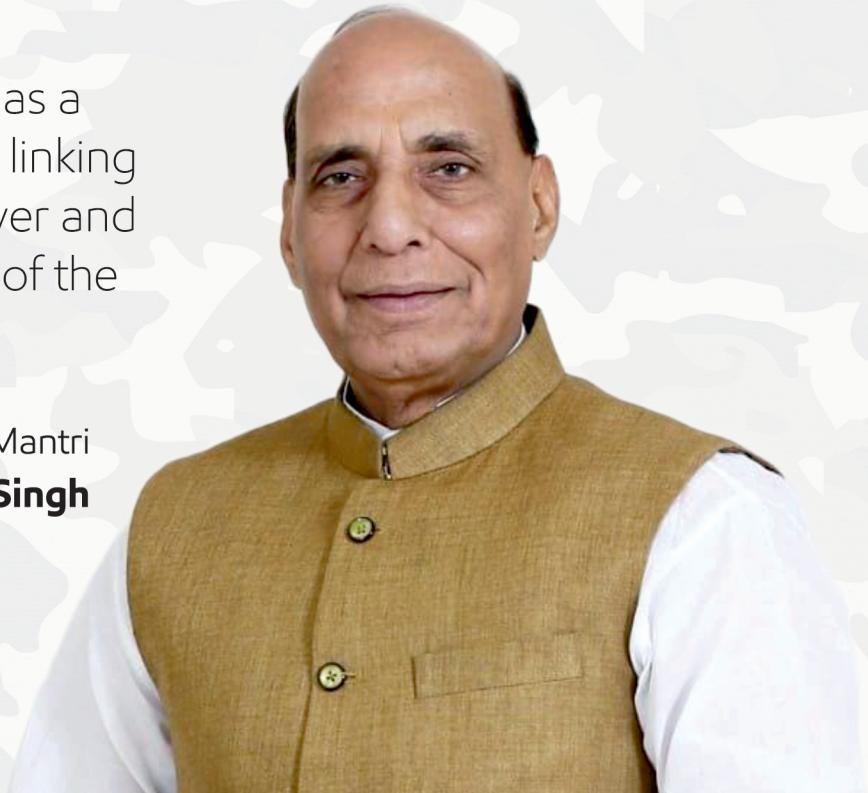
Innovations for
Defence Excellence





iDEX is emerging as a
suitable platform for linking
knowledge and power and
tapping the energy of the
youth.

Hon'ble Raksha Mantri
Shri Rajnath Singh





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राजनाथ सिंह
RAJNATH SINGH



रक्षा मंत्री
भारत
DEFENCE MINISTER
INDIA

MESSAGE

The Innovations for Defence Excellence (iDEX) initiative under the Defence Innovation Organisation has emerged as a cornerstone of India's journey to self-reliance in defence. This platform has proven as a great facilitator by connecting startups, MSMEs, academia, and individual innovators with the Armed Forces, DPSUs, and the wider defence ecosystem. This vibrant platform has also provided a vehicle for co-creation of technologies vital to national security and growth.

This coffee table book showcases innovations that not only meet the critical defence needs but also open avenues for wider industrial and commercial adoption by States and Union Territories. It celebrates pioneering entrepreneurs, showcases breakthrough technologies, and highlights milestones that reflect our nation's growing stature as a global leader in defence innovation.

I extend my congratulations to all innovators, industry partners, and institutions who have contributed to the success of iDEX. May this compendium inspire many more to join this journey of innovation and nation-building.

New Delhi
01 Oct, 2025


(Rajnath Singh)

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Shri Rajnath Singh

Hon'ble Raksha Mantri
Ministry of Defence, Government of India

संजय सेठ
SANJAY SETH



रक्षा राज्य मंत्री
भारत सरकार
Minister of State for Defence
Government of India

Foreword

India's defence ecosystem is undergoing a remarkable transformation, driven by the collective strength of our innovators, startups, MSMEs, and industry partners. Guided by the vision of the Hon'ble Prime Minister and under the leadership of the Hon'ble Raksha Mantri, the Ministry of Defence has nurtured an environment where cutting-edge ideas are being translated into operational technologies that empower our Armed Forces and strengthen national security.

The Innovations for Defence Excellence (iDEX) initiative has become a trusted platform that connects innovation with opportunity. It empowers startups to innovate boldly, with the confidence that their solutions will be adopted and scaled in the defence sector. By creating assured pathways for procurement, access to advanced testing facilities, and direct engagement with the Armed Forces, iDEX is transforming the ingenuity of our entrepreneurs into frontline capabilities that reinforce both national security and India's position as a global hub of innovation.

This volume is a celebration of the spirit of innovation that is reshaping India's defence sector while opening new horizons for industrial and commercial adoption across States and Union Territories. Each innovation tells a story of ambition, perseverance, and the unwavering belief that India's future in defence technology will be written by its own innovators.

I deeply value the contributions of the startups, iDEX team, industry partners, and stakeholders in this transformative mission. Let these milestones ignite new possibilities, strengthen our resolve for self-reliance, and propel India towards becoming a global leader in defence innovation — in line with the vision of *Aatmanirbhar Bharat* and the national goal of *Viksit Bharat@2047*.

Sanjay Seth
(Sanjay Seth)

Dated: 03rd Sep, 2025

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Shri Sanjay Seth
Hon'ble Raksha Rajya Mantri
Ministry of Defence, Government of India

संजीव कुमार
सचिव
Sanjeev Kumar
Secretary



भारत सरकार
रक्षा मंत्रालय
रक्षा उत्पादन विभाग
Government of India
Ministry of Defence
Department of Defence Production

FOREWORD

The vision of Hon'ble Prime Minister for Atmanirbhar Bharat is driving India's journey towards self-reliance, indigenization and technological leadership. Under the guidance of Hon'ble Raksha Mantri, the Ministry of Defence has nurtured a vibrant ecosystem of innovation, entrepreneurship, and indigenous capability in defence and aerospace in last 6 years or so.

2. At the heart of this transformative journey is the Innovations for Defence Excellence (iDEX). Since its launch in 2018, iDEX has enabled startups, MSMEs, academia, and innovators to solve problem faced by our Armed Forces & DPSUs using and developing relevant technologies. Its impact extends beyond defence into critical sectors such as disaster response, healthcare, agriculture, logistics, energy, and smart infrastructure reflecting a shared horizon of innovation. By reducing import reliance and creating indigenous solutions, these innovations give confidence to us to make India as a hub of strategic and technological excellence.

3. Building on, the Coffee Table Book released by Hon'ble Raksha Mantri at Aero India 2025, this volume features innovations that not only fulfill critical defence needs but also open pathways for States and Union Territories to harness them for wider industrial and commercial applications.

4. I am confident that the inspiring stories and milestones captured in these pages will motivate more innovators to contribute to this journey and accelerate India's progress towards realizing the Prime Minister's vision of a secure, resilient, and self-reliant nation.

5. My best wishes to the startups, iDEX team, and all stakeholders for their continued contributions to this transformative endeavour.

Place: New Delhi

Date: September 30, 2025

Sanjeev Kumar
(Sanjeev Kumar) 20/09/2025

Office : South Block, New Delhi-110011, Tel : +91 11 23012527 (O) 23012300 (Fax)



Shri Sanjeev Kumar

Secretary, Defence Production & Chairman, DIO
Ministry of Defence, Government of India

iDEX – Shared Horizons of Innovation

The Hon'ble Prime Minister had laid the foundation for a transformative shift in the nation's defence ecosystem with the launch of Innovations for Defence Excellence (iDEX) in 2018. At the time, the country's defence innovation landscape was still at an early stage, without the structured support needed to build strong indigenous solutions. iDEX was conceived to fill this gap—encouraging innovation, supporting disruptive technologies, and accelerating their adoption by the Armed Forces.

Over the years, iDEX has grown into a dynamic innovation hub. It offers grants of up to INR 25 Crores for the development of critical and advanced technologies. What began as a strategic initiative, has now become a pivotal cornerstone of India's ambition to lead in defence innovation on the global stage. The tangible impact of iDEX is clearly visible. So far, 50 prototypes developed under iDEX have received clearance for procurement and 36 procurement contracts worth INR 1652 Crores have been signed. These milestones highlight the growing confidence of defence establishments in iDEX's framework and its ability to deliver impactful solutions.

The iDEX Coffee Table Book – Shared Horizons of Innovation is a compilation capturing the journey of iDEX. It presents the spirit of creativity and problem-solving that startups, MSMEs, academia, and individual innovators have brought into the national defence & security landscape.



Expanding on the previous edition of iDEX Coffee Table Book, released by Hon'ble Raksha Mantri during AeroIndia 2025, this volume features innovations/technologies that not only address critical requirements of the Armed Forces but also have the potential for wider industrial/commercial applications which states/UTs may adopt to meet their existing and emerging needs.

The evolution of iDEX is a testament to vision, determination, and collaboration. Today, iDEX is more than just an initiative – it is a launchpad for reshaping India's defence capabilities and advancing the vision of an "Aatmanirbhar Bharat" in defence.

iDEX Journey so far

- Launch of DISC 2
- Startup Manthan at AeroIndia 2019
- DefConnect 1.0
- Launch of Open Challenge
- Launch of DISC 3

2019

2018

- Launched in DefExpo 2018
- Launch of Defence India Startup Challenge 1 (DISC 1)

- Startup Manthan at Aero India 2021
- iDEX at Combined Commanders Conference 2021
- Launch of DISC 5

2021

2020

- Startup Manthan DefExpo 2020
- Launch of Innovate4Defence (i4D) Internship
- Launch of DISC 4

- PM Award for Public Policy in Innovation Category
- DefConnect 2.0
- Launch of DISC 6 & DISC 6 Prime
- iDEX-DIO signs 100th contract
- Launch of DISC 7 (SPRINT) & DISC 7 Prime (SPRINT)
- Startup Manthan at DefExpo 2022
- Launch of DISC 8 (Mission DefSpace) & DISC 8 Prime (Mission DefSpace)

2022

2023

- ➔ Startup Manthan at AeroIndia
- ➔ Launch of DISC 9
- ➔ Launch of iDEX Investor Hub (iIH)
- ➔ iDEX-DIO signs 200th contract
- ➔ Launch of INDUS-X
- ➔ Launch of DISC X & DISC X Prime
- ➔ Launch of IMPACT Challenges (INDUS-X)
- ➔ iDEX at Combined Commanders Conference 2023
- ➔ iDEX-DIO signs 300th contract

2024

- ➔ 2nd Edition of INDUS-X
- ➔ DefConnect 2024
- ➔ Launch of ADITI 1.0 & DISC 11
- ➔ Announcement of SIDBI seed fund for iDEX Startups
- ➔ iDEX & AFMS sign MoU
- ➔ 3rd Edition of INDUS-X
- ➔ MoU with Defense Innovation Unit (DIU), US DoD
- ➔ DefConnect 4.0
- ➔ Launch of ADITI 2.0 & DISC 12
- ➔ Launch of ADITI 3.0 & DISC 13
- ➔ iDEX-DIO signs 400th contract
- ➔ Launch of FRIND-X

2025

- ➔ Startup Manthan at AeroIndia
- ➔ iDEX-DIO signs 500th Contract
- ➔ iDEX & EdCIL sign MoU
- ➔ DDP's brainstorming sessions with leading Defence Startups, Investors, Banks and Academia to address challenges in defence sector

Nodal Agency(s)

1. Armed Forces



2. MHA & Others



3. DPSUs



Major Technology Domains

								
AI/ML	Unmanned/ Autonomous Systems	Communication Systems	Cybersecurity	Smart Human Protection Systems	Ammunition Systems	Navigation Systems	Structural Engineering	Cryptography
								
Radiofrequency	Telemetry Systems	Energy Engineering	Cubesat Technology	Fire Safety & Hazard Management Sys	Simulation System	Chemical/ Bio-Engineering	Material Science	Quantum Computing & Tech
								
Automotive System	Instrumentation/ Control systems	AR/VR	Smart-Weapon Systems	Electro-Optical Systems	Mechanical Systems	Radar Systems	Subsystem/ Components Engineering	

and others

iDEX WINNERS - SUCCESS STORIES

Adisan Systems LLP

Pune

Founder(s) : Capt Javed Hasan (Retd.)



Challenge Category:

DISC - 7

Challenge Title:

Development of indigenous morpene compound.

Initiated By:

Indian Navy

Innovation Domain:

Fire Safety

Product Details:

Indopene is a versatile firefighting foam designed to effectively extinguish Class A and Class B fires. It is compatible with both fresh water and sea water. This foam is a part of the Reeled Compressed Air Foam System (RCAAF), making it suitable for a wide range of firefighting needs. Its adaptive properties allow for efficient use in different fire types, ensuring reliable fire suppression in critical and emergency needs. The solution has its applicability in challenging environments of Marine, Aviation, Oil & Gas for safeguarding people, assets, and critical infrastructure.

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hasanjav@gmail.com/ adisansystemsllp@gmail.com



Armor Grandeur Pvt. Ltd.

Chennai



Founder(s) : K. Nareshraj, Dr. K. Porkumaran, Dr. A. Sanjeevi Gandhi, C.Jeeva

Challenge Category:

DISC - 7

Challenge Title:

Autonomous operation of starting running shutting down of diesel alternator suitable for charging lithium ion batteries.

Initiated By:

Indian Navy

Innovation Domain:

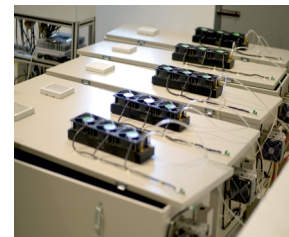
Autonomous systems

Product Details:

The 50kW High Voltage Battery Management System (HVBMS) with integrated control panel features modular battery packs, a rugged control panel, and an IoT-enabled monitoring dashboard, ensuring safe, efficient, and autonomous energy management. Originally developed for powering unmanned submarine platforms, its scalable architecture also makes it highly suitable for electric vehicles, renewable energy storage, smart grids, and other civilian clean energy applications.

Contact Details:

porkumaran@gmail.com



ASP Innovative Solutions Pvt. Ltd. **Bengaluru**



Founder(s) : B Satya Prashant, Arun Devaru Bhat

Challenge Category:

DISC - 7

Challenge Title:

Light weight portable illumination device

Initiated By:

Indian Navy

Innovation Domain:

Lighting and Optics

Product Details:

The multipurpose, military-grade torch is an indigenously developed, portable, rugged, waterproof, and lightweight Li-ion battery-operated device. Its precision-engineered design ensures suitability across a wide range of applications, including Search and Rescue (SAR), Humanitarian Assistance and Disaster Relief (HADR) operations, Quick Reaction Teams (QRT), Counter-Insurgency/Counter-Terrorism (CI/CT) missions, security and sentry duties, civil authority support, underwater search and salvage operations, firefighting, and damage control.

Contact Details:

sprashantme119@gmail.com



Astrome Technologies Pvt. Ltd. Bengaluru



Founder(s) : Neha Satak, Dr. Prasad HL Bhat

Challenge Category:

DISC - 1

Challenge Title:

4G/LTE Tactical Local Area Network Radio

Initiated By:

Indian Army

Innovation Domain:

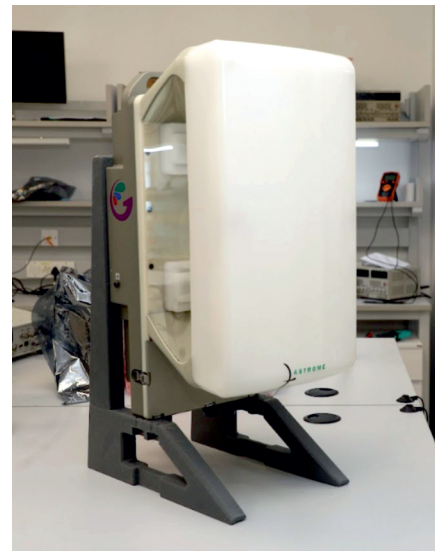
Wireless Communications

Product Details:

Tac-Lan radio is a high-throughput wireless solution with multi-beam technology for long-range, point-to-multipoint communication. It delivers fiber-like connectivity to the Indian Army in remote terrains and to gram panchayats in rural regions. Self-aligning and low-maintenance, it reduces infrastructure costs, making it ideal for defence, disaster management, and rural broadband by enabling secure, scalable, and resilient connectivity in remote areas.

Contact Details:

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Blurgs Innovations Pvt. Ltd. **Bengaluru**



Founder(s) : Roshan Raj, Avinash Kori

Challenge Category:
DISC - 5

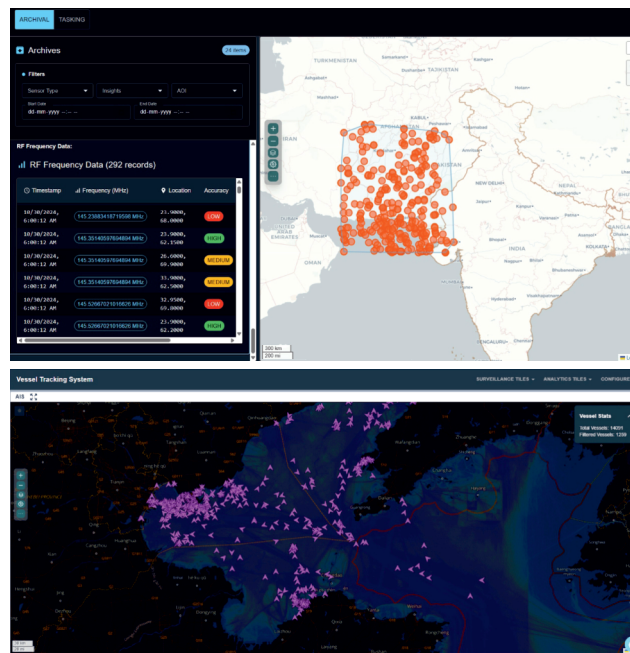
Challenge Title:
Motion Pattern Classification of Online/Active Vessel Data

Initiated By:
Bharat Electronics Limited (BEL)

Innovation Domain:
Maritime and Defence

Product Details:
Trident provides real-time situational awareness on land and at sea by integrating radar, AIS/GIS, satellite imagery, and intelligence systems into a single view. It supports traffic management at ports, detection of illicit activities, early alerts for oil spills, monitoring of fishing quota compliance, and identification of fishing hotspots. The solution is applicable across multiple sectors, including defence, ports, shipyards, and fisheries.

Contact Details:
roshan.raj@blurgs.com



Brisk Olive Business Solutions Pvt. Ltd.

Gautam Buddha Nagar

brisk olive

Founder(s) : Sunil Prem

Challenge Category:

Open Challenge 2.0

Challenge Title:

Rapid Foldable Infantry Assault Bridge (RFIAB)

Initiated By:

Indian Army

Innovation Domain:

Lightweight deployable infrastructure / rapid mobility

Product Details:

RFAIB is a portable, durable crossing solution for water bodies up to 50m wide. Its trolley-style design allows easy transport by one or two soldiers with auto-locking mechanisms for quick deployment. With its unsinkable hydrophobic floats, it ensures reliability in combat, disaster relief, and rapid response. Successfully tested and approved by the Indian Army, it is now being inducted for infantry use.

Contact Details:

sunil.prem@briskolive.com



Chipspirit Technologies Pvt. Ltd. Bengaluru



Founder(s) : Mohan Jindal

Challenge Category:

DISC - 1

Challenge Title:

Secure Hardware Encryption Device

Initiated By:

Indian Navy

Innovation Domain:

Cybersecurity

Product Details:

Abhed1 is a hardware-based encryption device that operates without an operating system or software. It securely encrypts data from a USB 3.0 source to a USB 3.0 or Ethernet 1G destination using AES256 encryption, ensuring safe data transactions over public networks. Its hardware-only design eliminates vulnerabilities like backdoors or torjans, providing enhanced security. It has several use cases, including the protected transfer of sensitive data, end-to-end encrypted video conferencing, reliable backup and recovery of critical information, and secure file sharing among remote teams.

Contact Details:

mohan.jindal@chipspirit.com



Coratia Technologies Pvt. Ltd. Rourkela



Founder(s) : Debendra Pradhan, Biswajit Swain

Challenge Category:

DISC - 7

Challenge Title:

Tethered underwater ROV for underwater inspection and repairs

Initiated By:

Indian Navy

Innovation Domain:

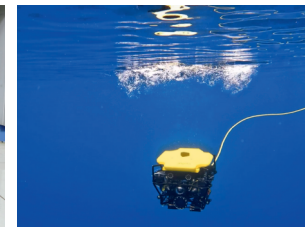
Deep-tech, Underwater Robotics

Product Details:

Jalasimha is a high-performance Remotely Operated Vehicle (ROV) developed for maritime surveillance, coastal security, and underwater search and recovery operations. Successfully tested at a depth of 311 m and rated for 450 m, it is equipped with multi-beam SONAR, a 3-DOF (Degree of Freedom) robotic arm, and an ultrasonic thickness gauge for precision tasks. In addition to defence applications, Jalasimha supports scientific research and environmental monitoring, strengthening both national security and maritime domain awareness.

Contact Details:

debpradhan@coratia.com



Gurutuva Systems Pvt. Ltd.

Pune



Founder(s) : Harshad Dave, Sonika Sehraya

Challenge Category:

DISC-2

Challenge Title:

Illegal usage of Drones

Initiated By:

Indian Air Force

Innovation Domain:

Anti-Drone

Product Details:

Gurutuva Systems Dronaam-R is a modular, state-of-the-art system designed for comprehensive protection against hostile Unmanned Aerial Systems (UAS). It features a handheld, rifle-style configuration for ease of operation and probability. The system jams GNSS, control, video, and telemetry signals, disrupting drone navigation and control for soft-kill defence. Built to withstand harsh environments, it is compact, durable, and easy to maintain.

Contact Details:

harshad@gurutvaa.com



Inferigence Quotient Pvt. Ltd. Bengaluru



Founder(s) : Dr Neeta Trivedi, N Krishnamurthy

Challenge Category:

DISC - 5

Challenge Title:

Image Recognition, Target Tracking, and Non-cooperative Collision Avoidance for UAVs

Initiated By:

Hindustan Aeronautics Limited (HAL)

Innovation Domain:

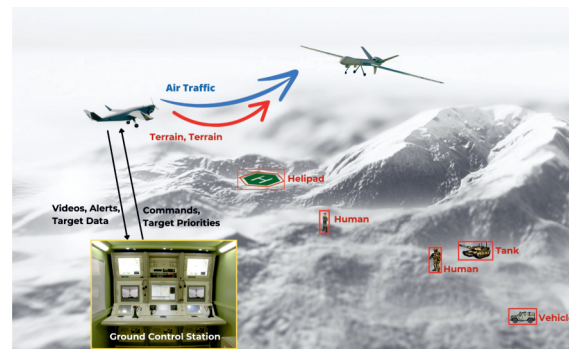
Advanced Navigation

Product Details:

Chetas (Sanskrit for 'Aware') is a system designed to prevent collisions of the host aircraft (ownship) with both static and dynamic obstacles, including cooperative and non-cooperative entities. The system's capability addresses a critical requirement for all categories of aircraft, particularly as Unmanned Aerial Vehicles (UAVs) become increasingly integrated into national airspaces.

Contact Details:

neeta@inferq.com



IROV Technologies Pvt. Ltd. **Kochi**

Founder(s) : Johns T Mathai, Kannappa Palaniappan P



Challenge Category:

DISC - 7

Challenge Title:

Underwater Remotely Operated Vehicle (UWROV) for Underwater Inspection and Repairs

Initiated By:

Indian Navy

Innovation Domain:

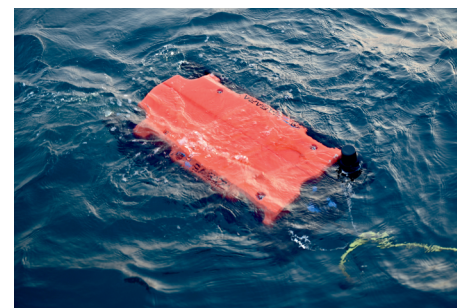
Underwater Autonomous Systems

Product Details:

EyeROV TROUT is a cutting-edge Remotely Operated Vehicle (ROV) designed for deep-sea operations, capable of reaching 300m underwater. It is connected to the surface via a 400m neutrally buoyant tether cable, transmitting both power and data. It excels in challenging environments, offering unparalleled maneuverability, autonomous navigation including GPS waypoint navigation, and advanced imaging allowing for simultaneous views of multiple 4K video cameras.

Contact Details:

johns@eyerov.com



Lekha Wireless Solutions Pvt. Ltd. Bengaluru



Founder(s) : Amarnadha Reddy & Ramu TS

Challenge Category:

DISC - 1

Challenge Title:

Development of 4G/LTS based Tactical local area network

Initiated By:

Indian Navy

Innovation Domain:

Modern Wireless Radio communication Systems

Product Details:

Network-in-a-Box (NIB) systems provide compact, self-contained mobile communication networks with dual-use applications in military and civilian sectors. They enable secure communications in remote areas, support disaster response, and protect critical infrastructure. With rapid deployment, scalability, and cost-efficiency, NIBs support defence operations and humanitarian missions, ensuring connectivity in crisis situations.

Contact Details:

amar@lekhawireless.com



NimbusParc TechnoLab Pvt. Ltd.

Bengaluru

NimbusParc

Founder(s) : Srinivas Reddi

Challenge Category:

OC - 6.0

Challenge Title:

High Definition Video Data Streaming engine capable of overcoming high latencies and packet loss over limited bandwidth

Initiated By:

Indian Navy

Innovation Domain:

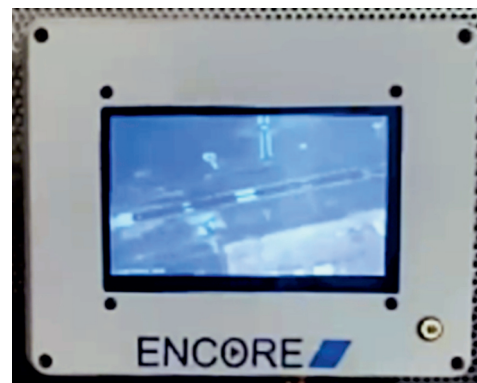
Data Communications

Product Details:

Encore provides secure live video streaming over low-bandwidth networks. It enables the transfer of data and visuals from sensors and UAVs to designated users across all operational levels in near real-time, even over challenging satellite connectivity. In the civilian space, the solution can be leveraged for remote education and healthcare in areas with limited internet access.

Contact Details:

srinivas@nimbusparc.com



NimbusParc TechnoLab Pvt. Ltd. Bengaluru

NimbusParc

Founder(s) : Srinivas Reddi

Challenge Category:

OC - 6.0

Challenge Title:

Next Generation File Transfer Solution Capable of Overcoming High Latencies and Packet Loss over limited bandwidth

Initiated By:

Indian Navy

Innovation Domain:

Data Communications

Product Details:

Vegazel is a next-generation data transfer technology capable of transmitting digital assets at very high speeds over challenging satellite networks. The solution is being used in the military sector to transfer high value data in real time, and in civilian space to transfer software patches across thousands of retail outlets simultaneously across India using satellite connectivity.

Contact Details:

srinivas@nimbusparc.com



Optrel India Pvt. Ltd. **Pune**



Founder(s) : Lakshmi Vijay Ratnaparkhe, Shreyasi Sunil Hasabnis

Challenge Category:

DISC - 7

Challenge Title:

Filteration based breathing apparatus

Initiated By:

Indian Navy

Innovation Domain:

Safety

Product Details:

Optrel India's PAPR (Powered Air Purifying Respirator) provides better protection than N95 masks, filtering particles and gases for enhanced safety. It's lightweight, comfortable, and suitable for extended use. Beyond maritime, PAPRs are versatile and usable across sectors like firefighting, chemical processing, healthcare, and industrial settings, protecting workers from hazardous substances and improving overall safety and productivity.

Contact Details:

amit@optrelindia.com



Parachute Technologies Pvt. Ltd. Bengaluru



Founder(s) : Satheesh N, Mahadev H K

Challenge Category:
DISC - 7

Challenge Title:
GNSS based 3-D helo approach and landing aid for IN helicopters for assistance in approach on landing in bad weather/ reduced visibility/ night at sea states

Initiated By:
Indian Navy

Innovation Domain:
Airspace navigation, Airspace Safety, Positioning/ Geolocation

Product Details:
Pathfinder is a GNSS based solution designed to help shipborne helicopters recover and land safely in poor visibility conditions such as bad weather and dark nights with limited visibility. Its applicability further extends to providing landing support in low-visibility environments, particularly within the challenging mountainous terrain of the Himalayas.

Contact Details:
kanwar.sk@parachutetech.ai



Pine Automation LLP

Greater Noida

Founder(s) : Manish Srivastava, Sarthak Saxena



Challenge Category:

OC-6

Challenge Title:

Material movement shifting onboard ship over hatch door coaming

Initiated By:

Indian Navy

Innovation Domain:

Mechanics

Product Details:

The system for 'Material Movement Onboard Ship Over Hatch Door Coaming' consists of seven modular components for efficient horizontal and vertical material transfer in tight ship spaces. Made from carbon fibre and stainless steel, it offers durability and reliability, ensuring safe and streamlined logistics in commercial shipping, shipyards, and industrial maritime environments.

Contact Details:

manish@pineautomation.com



Radome Technologies and Services Pvt. Ltd.

Bengaluru



Founder(s) : Nagendra Prasad Kumble

Challenge Category:

DISC - 1

Challenge Title:

Artificial Intelligence in Supply Chain Management & Logistics

Initiated By:

Indian Navy

Innovation Domain:

Aircraft Health Safety

Product Details:

ProHM+ is an AI/ML asset health monitoring tool that tracks parameters, detects anomalies and predicts asset lifespan. It process over 3 million data points from 180+ sensors, enabling predictive maintenance, minimizing downtime, and reducing costs by identifying potential issues early. Its predictive insights on the aircraft health conditions ensure safety of the passengers and attendants.

Contact Details:

sumukh.kumble@radometech.com



Resonating Mindz Pvt. Ltd. Pune



Founder(s) : Avinash Manerahimatpurkar

Challenge Category:
DISC - 7

Challenge Title:
Multi-Sensor Monitoring of Machinery

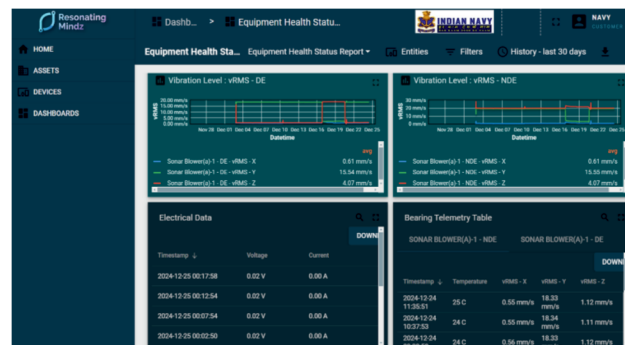
Initiated By:
Indian Navy

Innovation Domain:
Industry 4.0

Product Details:

This AI-powered solution monitors equipment condition and predicts maintenance needs, applicable to defence assets like tanks, vehicles, artillery, and aircraft, as well as industrial machinery and critical infrastructure. It captures operational parameters, detects anomalies, predicts failures, and provides alarms for proactive maintenance, enhancing reliability and reducing downtime.

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avinashm@resonatingmindz.com



Robosys Automation & Robotics Pvt. Ltd.

Ahmedabad



Founder(s) : Aditya Nawab

Challenge Category:

DISC - 7

Challenge Title:

AI based autonomous collision avoidance

Initiated By:

Indian Navy

Innovation Domain:

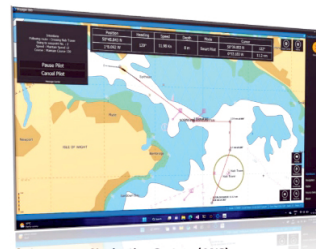
Autonomous systems, Artificial Intelligence

Product Details:

VOYAGER AI transforms vessels into autonomous Uncrewed Surface Vessels (USVs) with capabilities like collision avoidance, obstacle detection, and dynamic route optimization. It provides scalable autonomy levels, from remote control to autonomy. The AI software enhances safety, productivity, and efficiency, with applications in commercial and defense sectors, including autonomous navigation and intelligent autopilot systems.

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Autonomous Navigation System (ANS)

- Mission Planner
- Situational Awareness – Radar, AIS and Tracks overlay
- ENC S57 Charts
- AutoPilot Control – Route(s), Waypoint(s) & Loiter
- CA, OAS and Anti-grounding



Vessel Control System (VCS)

- Remote Steering & Control
- Engine & Propulsion Control & Monitoring
- Integrated Alarm, Monitoring & Switch Control
- E-Stop

Saif Automations Services LLP Visakhapatnam



Founder(s) : Ahmed Shaikh Abdeally, Taher Ahmedbhai Calcuttawala, Aliasgar Calcuttawala

Challenge Category:

DISC - 1

Challenge Title:

Battery Powered Self Propelled Life Buoy

Initiated By:

Indian Navy

Innovation Domain:

Marine Safety

Product Details:

SaifSeas life buoy is a remote-controlled, dual-jet propelled device for water rescue. It operates across diverse sectors including defence, marine, and civilian rescue, enabling rescuers to reach individuals in distress quickly and safely. Its lightweight & durable design ensures effective performance in both fresh and saltwater.

Contact Details:

saif.automations@gmail.com/ taher@saifseas.com



Saif Automations Services LLP Visakhapatnam



Founder(s) : Ahmed Shaikh Abdeally, Taher Ahmedbhai Calcuttawala, Aliasgar Calcuttawala

Challenge Category:

DISC - 7

Challenge Title:

Autonomous Beach Check Survey Device

Initiated By:

Indian Navy

Innovation Domain:

Marine Surveying, Robotics & Automations

Product Details:

Saif Seas Hawk 1600 "Tatshak" is an autonomous craft for hydrographic surveys, enhancing safety and precision. Its applications span defence, agriculture, dam management, and hydrography, supporting data-driven decision-making. It enables precise mapping, optimizes resource usage, and ensures timely interventions, serving multiple sectors with dual-use innovation.

Contact Details:

saif.automations@gmail.com/ taher@saifseas.com



Seconize Technologies Pvt. Ltd. **Bengaluru**



Founder(s) : Chethan Anand, Dr. Sashank Dara

Challenge Category:

DISC – 9

Challenge Title:

Continuous Attack Surface Monitoring and Vulnerability Management.

Initiated By:

Bharat Electronics Limited (BEL)

Innovation Domain:

Cybersecurity

Product Details:

The developed platform offers continuous attack surface monitoring and vulnerability management, originally built for defence. It discovers exposed assets, detects misconfigurations, and prioritizes fixes using AI. This dual-use technology can safeguard critical infrastructure, BFSI (Banking, Financial Services, and Insurance), healthcare, and enterprises, preventing cyberattacks, ensuring compliance, and maintaining operational continuity.

Contact Details:

chethan@seconize.co



Securweave Research Labs Pvt. Ltd. Hyderabad



Founder(s) : Dr. Prem Chand, T Gopakumar, M Dinakar

Challenge Category:

DISC - 7

Challenge Title:

Hardware enforced solution against advanced, persistent and coordinated attacks which acts by executing a privilege greater than that of OS Kernel to prevent kernel mode malware

Initiated By:

Indian Navy

Innovation Domain:

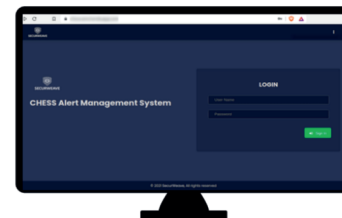
Cybersecurity

Product Details:

SecurWeave's Configurable Hardware Enforced Safety and Security (CHES) platform offers holistic security solutions, addressing advanced persistent malware threats. CHES features a lightweight security hypervisor, ideal for systems requiring multiple levels of security and safety criticality, catering to evolving autonomous digital world demands. The platform is designed for safety and security of critical systems across both defence and civilian domains.

Contact Details:

dinakar@securweave.com



Swadeshi Empresa Pvt. Ltd. Ahmedabad



Founder(s) : Abhishek R Modi

Challenge Category:

DISC - 7

Challenge Title:

Fire Fighting Bot

Initiated By:

Indian Navy

Innovation Domain:

Fire Safety

Product Details:

FFBOT (Fire Fighting Bot) is a rugged, reliable firefighting robot designed for extreme conditions, serving defence and civilian sectors. With advanced firefighting capabilities and a robust design, it protects lives, assets, and infrastructure in high-risk environments like oil refineries, mines, and power plants. Its dual-use capability ensures operational continuity and safety, supporting effective disaster response.

Contact Details:

dir@swadeshifire.com



TSC Technologies Pvt. Ltd. Bengaluru



Founder(s) : Sanketh Huddar, Anirudh Dube

Challenge Category:

DISC - 7

Challenge Title:

Portable RCS Measurement Device

Initiated By:

Indian Navy

Innovation Domain:

Central Command and Control

Product Details:

Portable RCS Measurement Device is a lightweight and mobile Radar Cross Section (RCS) measurement device designed for rapid deployment in field conditions. It enables armed forces to evaluate stealth characteristics of platforms on-site. The system has strong civilian applications in aerospace testing, academic research, automotive radar signature studies, and electromagnetic compatibility validation.

Contact Details:

sanketh.huddar@tsctech.in



TSC Technologies Pvt. Ltd. Bengaluru



Founder(s) : Sanketh Huddar, Anirudh Dube

Challenge Category:

DISC - 7

Challenge Title:

Underwater Vision System

Initiated By:

Indian Navy

Innovation Domain:

Marine & Underwater Technologies

Product Details:

Underwater Vision System is an advanced underwater vision solution that enhances visibility and situational awareness in low-light and turbid water conditions for naval operations. Beyond defence diving and mine detection, it supports offshore oil & gas exploration, underwater infrastructure inspection, search-and-rescue operations, and marine research.

Contact Details:

sanketh.huddar@tsctech.in



Vimal Fire Controls Pvt. Ltd. Vadodara



Founder(s) : Falgun Doshi

Challenge Category:

DISC - 7

Challenge Title:

Aerogel based fire fighting proximity suit

Initiated By:

Indian Navy

Innovation Domain:

Fire Safety

Product Details:

This fire suit is a multi-layer protective garment designed for firefighters, featuring a Drag Rescue Device (DRD) for rescuing downed firefighters. Tested to National Fire Protection Association (NFPA) standards, it's lightweight, breathable, and resistant to abrasion, tears, and chemical penetration. The suit provides high thermal protection, helping firefighters stay cooler while ensuring safety in flash fire situations.

Contact Details:

falgun@vimalfire.com



Vimal Fire Controls Pvt. Ltd. Vadodara



Founder(s) : Falgun Doshi

Challenge Category:

DISC - 7

Challenge Title:

Smart Fire Fighting Breathing Apparatus (Smart BASCCA)

Initiated By:

Indian Navy

Innovation Domain:

Fire Safety

Product Details:

Smart Firefighting Breathing Apparatus (SFBA) is designed for real-time monitoring of breathing air and cylinder pressure, featuring a lightweight carbon composite cylinder and electronic gauge. It includes safety features like man-down alert, distress alarm, and communication system for firefighters. The face mask is fitted with lighting equipment to facilitate operations in dark environments, thereby enhancing safety and visibility. This solution improves operational readiness for the armed forces while also elevating safety standards across industries, commercial establishments, and public domains, ensuring both reliability and efficiency..

Contact Details:

falgun@vimalfire.com



Vimal Fire Controls Pvt. Ltd. Vadodara



Founder(s) : Falgun Doshi

Challenge Category:

DISC - 7

Challenge Title:

Fire Suppressant material that can suppress fire in the initial stage

Initiated By:

Indian Navy

Innovation Domain:

Fire Safety

Product Details:

The fire suppressant material is comprised of microcapsules designed in the form of a compact sticker. When fire comes into contact with the microcapsules, it triggers the release of gas from the sticker, effectively extinguishing the fire. This solution enhances operational readiness for armed forces and strengthens safety standards across industries, commercial establishments, and public spaces, ensuring reliable and efficient fire suppression.

Contact Details:

falgun@vimalfire.com



Partner Incubators (PI)



FITT, IIT-Delhi

FITT is an industrial interface organization established at the IIT-Delhi as a Registered Society on 9th July 1992. The mission of FITT is to be an effective Interface with Industry to foster, promote & sustain the commercialization of Science & Technology in the Institute for mutual benefit. **PI for ADITI & DISC.**



FSID – IISc, Bangalore, Karnataka

Foundation for Science, Innovation, and Development (FSID), was established by the Indian Institute of Science to harness the knowledge within IISc to help industry and society. FSID acts as an interface between the university and the rest of the world. **PI for ADITI & DISC.**



FORGE Coimbatore, Tamil Nadu

FORGE offers holistic incubation services covering innovation labs, incubation grants, product & business acceleration, and seed capital investment to transform innovative hardware products/systems into successful enterprises with potential for growth, impact, and profits. **PI for ADITI & DISC**



IIT-Madras Incubation Centre, Tamil Nadu

IITMIC coordinates and leverages the synergies in various strands of excellence driving innovation entrepreneurship at IIT Madras, consisting of cutting-edge research, industrial interactions, India's first university-driven Research Park, and a stellar record of incubation in rural, social, and industrial technologies.



SIIC IIT Kanpur, Uttar Pradesh

The Start-up Incubation and Innovation Centre (SIIC), IIT Kanpur, is one of the oldest technology incubators, with a successful track record of exiting notable startups like Curadev Pharma, Geokno, and WeatherRisk Management among others. **PI for ADITI & DISC.**



SINE, IIT Mumbai, Maharashtra

Society for Innovation and Entrepreneurship (SINE), established in 2004 at IIT Bombay, is among the earliest incubators in academia with a proven track record of creating economic growth, strategic value, and social relevance. Over 140+ startups and 380+ innovators supported by SINE have created 3600+ jobs. **PI for ADITI & DISC.**



IIT-Hyderabad, Telangana

IITH is known for its academic strength, research, publications, and proximity to IT and industrial hubs. The very foundation of IITH is based on research & innovation. **PI for ADITI & DISC.**



T-Hub, Hyderabad, Telangana

T-Hub is a unique public/private partnership between the government of Telangana, 3 of India's premier academic institutes (IIIT-H, ISB & NALSAR), and key private sector leaders. It stands at the intersection of the start-up, academic, corporate, research, and government sectors.



Maker Village, Kochi, Kerala

Maker Village is the largest electronic hardware incubator and ESDM facility in the country, which is a pioneering startup initiative of MeitY, GoI with the IIIT-Trivandrum as the implementation agency and Kerala Startup Mission as the supporting partner.



TIDES, IIT-Roorkee, Uttarakhand

TIDES facilitates the incubation of new enterprises with innovative technologies by admitting them at its Incubation Centre and provides physical, technical, financial, and networking support and services.



IIT Guwahati - TIC, Assam

IITG-TIC is registered as a Society under the Registration of Societies Act XXI of 1860. Its goal is to encourage entrepreneurial initiatives amongst the faculty and alumni of the IITG community in particular and other State or Central Government Technical Institutions of the Northeast.



CIIE, IIM Ahmedabad, Gujarat

CIIE at IIMA helps entrepreneurs turn ideas into viable businesses. In partnership with their mentors, corporates, development agencies, IIMA community, and investors, CIIE cultivates a rare breed of entrepreneurs by incubating, accelerating, mentoring, and funding innovative startups.



Venture Centre, Pune, Maharashtra

Venture Center (registered service mark) is a non-profit company incorporated as Entrepreneurship Development Center hosted by CSIR-NCL, Pune, and the first incubator in CSIR. Its mission is to nucleate and nurture technology and knowledge-based enterprises in India.



mac33.aero, Bangalore, Karnataka

Mach33.aero is a multi-stage innovation curation and venture development platform for deep tech ventures in aerospace & defense to address commercial, environmental, and social challenges through the power of innovation and entrepreneurship to make India self-sustainable in these sectors of national strategic importance



MaDeiT Innovation Foundation, IIITDM Kancheepuram, Tamil Nadu

MaDeiT Innovation Foundation is a design-driven Technology Business Incubator promoted by the IIITDM, Kancheepuram, funded by the Ministry of Human Resource Development, Govt. of India.



MAGIC, Maharashtra

MAGIC is India's first Regional Industry Association-led Business Incubator & SME accelerator promoted by members of the Chamber Of Marathwada Industries & Agricultural (CMIA). MAGIC is a Not-For-Profit Section-8 company, driving entrepreneurship and innovation, with a special focus on student & grassroots innovators.



KIIT-Technology Business Incubator, Bhubaneswar, Odisha

KIIT-TBI is a non-profit incubator set up in 2009 as the Sec (8) company at KIIT University, Odisha. It is generously supported by various Government bodies i.e. DST, BIRAC, MeitY, MSME, TDB, DFID, UK, and other industries to boost the entrepreneurial ecosystem in the country.



PSG-STEP, Coimbatore, Tamil Nadu

The PSG-Science & Technology Entrepreneurial Park (PSG-STEP) was established in 1998 with support from the DST-Gol, to promote technology-based enterprise in the areas of Software, Electronic Products, Eco-friendly Textile Products, Bio-Technology, and Nano Technology.



TBI-KIET, Ghaziabad, Uttar Pradesh

TBI-KIET jointly established by DST-Gol & KIET Group of Institutions in 2007 under society registration act 1860. They are supported by DST, Govt. of India, MEITY, Govt. of India, StartInUp, U.P. Government etc.

Incubation Centre IIT Patna, Bihar



Incubation Centre IIT Patna is the ideal destination for startups taking early entrepreneurial steps in Electronic System Design and Manufacturing, with a focus on Defence and Security Applications, Medical Electronics, & Information and Communication Technology domains.

PIEDS-TBI, BITS Pilani, Rajasthan



PIEDS-TBI initiatives are spread across incubation, acceleration, seed funding, and innovation. They aim to provide world-class support for DeepTech Innovations, bringing advanced tech labs, mentoring experts, product innovation, and acceleration programs.

SASTRA, Lavad, Gujarat



SASTRA is India's first National Security Innovation Center which facilitates a three-way engagement between the Academia, Industry, and the Government for Innovation, Incubation and Technology Acceleration in the National Security domain.

AIC-RNTU Foundation, Bhopal, Madhya Pradesh



AIC-RNTU Foundation, supported by AIM, NITI Aayog is one of Central India's leading Incubator which has been working to support Start-ups across all the functions viz. funding, business & technical mentoring, handholding, industry connects, workshops, investor connects, competitions, etc.

CIIC, Vandalur, Tamil Nadu



CIIC is being supported by 7 Union Ministries and the Government of Tamil Nadu. CIIC acts as a "One Stop Shop – Startup Incubator" for startups that facilitate entrepreneurial & innovative ecosystems to all the stakeholders including the Students, faculty members, industries, investors, and society at large.



Amity Technology Incubator (ATI), Noida, Uttar Pradesh

ATI takes pride in introducing the incubator as the most comprehensive ecosystem across the Entrepreneurial world with 360-degree support by way of Infrastructure, Mentoring, Human Resource Support, IPR protection, Funding Support, Technology, and product development support.



TBI NIT-Calicut, Kerala

TBI-NITC, at NIT Calicut, was established in 2003-04 with the support of NSTEDB DST-Gol to develop technology-based entrepreneurs. TBI-NITC is a sector-agnostic incubator that supports ventures from the IT, Electronics, Electrical, Mechanical & agriculture sectors.



IIIT-Bangalore Innovation Centre, Karnataka

IIITB-IC takes pride in handholding innovators in their challenging phases of building thriving enterprises in the earliest - the pre-incubation and incubation stages. Their vision is to contribute to India's economic development & social well-being by improving the survival and growth of new tech ventures.



IIIT - Hyderabad Foundation, Telangana

CIE-IIITH was supported by DST (TBI) and MeitY (TIDE). Since 2015, has been financially self-supporting. Under the CIE umbrella, there are 3 active incubators: Deeptech, MedTech, and Social Tech.

Investments by iDEX Partners

INR
1100 Cr
Investment
Pledged

INR
447 Cr
Investments Made
by Partners

21
Startups Supported

29
Funding Partners

iDEX Investor Hub (iIH) – Investor Pool



SIDBI-iDEX SEED Fund - PIs





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