

Mr. Amarnath from Karnataka Renewable Energy Development Limited explained the state government policies and opportunities related to the green hydrogen value chain in the state. The event had Speaker sessions and Open discussions on Global perspectives of green hydrogen, Leveraging the cost of hydrogen by 2030, Green hydrogen research overview, Storage and transportation to non-grid areas followed by a workshop that collected challenges and problem statements from the participants.



From left to right, Mr. Rahul Kulreshtha, Office of Principal Scientific Adviser, Dr. Ranjith Krishna Pai, Department of Science and Technology, Mr. Amarnath, Karnataka Renewable Energy Development Limited, Ms. Gunjan Krishna, IAS, Department of Industries and Commerce

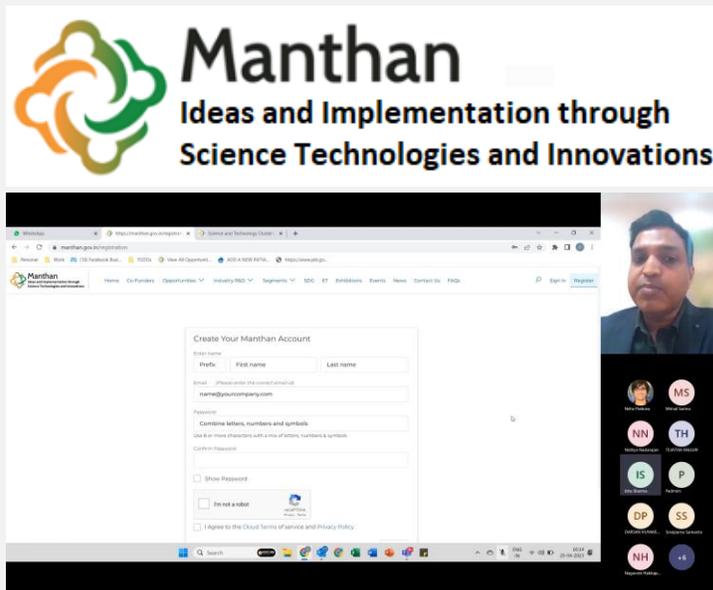


The event had active representations from industries such as Volvo, Reliance industries, Grassroots energy, Newtrace, Swagelok, India Energy Storage Alliance, 1H1 labs, Ayana renewables, Autometers Energitec, Syscon instruments. The list of all member organizations from academic and research institutions, companies in the sector of hydrogen generation, renewable energy generation, hydrogen storage and transport, hydrogen aggregation, OEMs, EPCs, off-takers, knowledge partners, consultants, think tanks, NGOs and start-ups engaged with the brainstorming sessions and consortium formation are as follows.



Awareness session about the Manthan Platform

The BeST Cluster organized an online session to promote awareness of the Manthan Platform on April 25th 2023. Manthan is a digital platform developed by the Office of Principal Scientific Adviser to empower various stakeholders to scale up their interactions with researchers/ innovators and facilitate R&D/innovations, share opportunities in various emerging technologies and scientific interventions as well as those that make a Social Impact. It aims to foster innovation and collaboration in the field of science and technology to address the challenges faced by India and contribute towards achieving the United Nations' Sustainable Development Goals (SDGs). The session brought together diverse stakeholders from academia, industry, government, and nonprofit organizations to understand and explore the Manthan platform.



Mr. Rahul Kulshreshtha from Strategic Alliance Division, Office of the Principal Scientific Adviser, Government of India presented an interactive talk on 'Multistakeholder Collaboration Opportunities over Manthan Platform for Research & Innovation Aligned with Social Impact'. To explore related opportunities, proposals, events, exhibitions, and various national resources in science and technology, visit <https://manthan.gov.in/>.

One Health Bengaluru City Consortium updates



The One Health Bengaluru City Consortium gathered for an online meeting on 13th April 2023 to discuss the topics prioritized by the consortium members:

- ❖ Effective collaboration platform
- ❖ Champions and community building within the consortium
- ❖ Identify disciplinary areas of interest
- ❖ Data management
- ❖ Cross-sector opportunities for intervention
- ❖ Outreach

BeST explores collaborative opportunities with Thales



The BeST Cluster facilitated a dialogue between the Quantum Technology, Active matter, and micro-robotics teams from the Indian Institute of Science (IISc) Bangalore and The Thales Group, a global technology leader in 'Deep Tech Innovations' on the 25th of April 2023. Thales has been doing business in India for more than 70 years and has continually supported the Indian government in areas of defense and security, aerospace and space, digital identity and security, and transportation. Representatives from the Thales R&D center in France accompanied their Indian counterpart and interacted with various eminent researchers from the quantum and active matter & micro-robotics community of IISc Bangalore. The interactions resulted in identifying key areas of collaboration aligning with their business outlay for India, especially post-quantum cryptography, SQUID magnetometry, quantum sensing, RISC V – open standard instruction set architecture, quantum random number generation, micro-robotics for certification and optimization along with a willingness to explore other various deep tech innovations going on within the Bangalore scientific community. Dr. Cédric Jean-Jacques Demeure, VP R&T, Daniel Glazman, VP, Software Technologies from Thales France, and Dr. Subhra Kanti Das, Head, R&T Thales ECC, Bangalore India represented the Thales Group. Prof. Ambarish Ghosh and Prof. Prosenjit Sen from Active Matter & Micro-robotics team, and member faculties from IISc Quantum Technology Initiative, Dr. Utsav Banerjee, Prof. Sanjit Chatterjee, Prof. Kausik Majumdar, Dr. Srividya Kumar (Technology Manager, IQTI) participated in the discussion.

The Union Cabinet recently approved the National Quantum Mission (NQM) at a total cost of Rs.6003.65 crore from 2023-24 to 2030-31, aiming to seed, nurture and scale up scientific and industrial R&D and create a vibrant & innovative ecosystem in Quantum Technology. This will accelerate QT-led economic growth, nurture the ecosystem in the country and make India one of the leading nations in the development of Quantum Technologies & Applications. The Mission will also provide a huge boost to National priorities like Digital India, Make in India, Skill India and Stand-up India, Start-up India, Self-reliant India, and Sustainable Development Goals (SDG).

Cross-Sectoral panel discussion on

Interdependence of Climate, Monsoon and Agriculture

BeST Cluster organized an online cross-sectoral panel discussion on the interdependence of climate, monsoon, and agriculture on 10th April 2023. Topics discussed were impact of changing ocean weather systems on climate, climate-smart agriculture, cloud and rain patterns over the subcontinent, harnessing technology and data towards predictive agriculture. It was an insightful and engaging event, featuring experts from various fields who shared their perspectives on the crucial link between these three factors. The panelists provided in-depth analyses of how climate change impacts monsoon patterns, which in turn affects agricultural production. They also discussed potential solutions to mitigate these effects and highlighted the need for cross-sectoral collaboration to address these issues. The event provided a unique opportunity for individuals from

different backgrounds such as industries, policymakers, researchers, and farmers to come together and exchange ideas.



Prof. Spenta Wadia, TIFR-ICTS, Prof. Debasis Sengupta, IISc, Prof. Rama Govindarajan, TIFR-ICTS, Dr. Praveen Pankajakshan, Cropin, Mr. Jai Warriar, Zero2Positive and ICA were in the panel.

YOUNG SOCIAL ENTREPRENEUR SAYS...

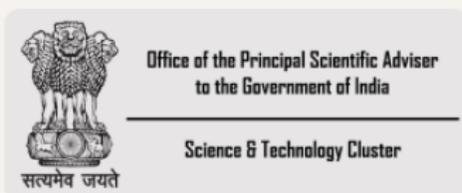
I am inspired by the impressive range of climate action and sustainability innovations being developed and implemented in Bengaluru. However, there remains a critical need for more designed spaces and opportunities for collaborations between academia, startups, civil society organisations, resident welfare associations, and government initiatives. The BeST cluster is uniquely positioned to serve as a facilitator for these collaborations.



*Jai Warriar, Co-founder,
Initiative for Climate Action
Zero2Positive Consulting*



BeST announces student internship opportunities



Summer Internship

SCIENCE COMMUNICATION AND POLICY

Where: Bengaluru Science and Technology Cluster,
IISc Campus

When : Summer 2023 (Dates negotiable)

Who : Students interested to explore cross-sectoral
opportunities in science and technology

- Draft communication to researchers, industry and policy makers
- Create scientific content for newsletter
- Participate in stakeholder meetings
- Identify funding opportunities

APPLY NOW

office@bestkc.in



- Preference given to those with inter-disciplinary experience and experience in working outside of science.
- We encourage students to apply under Sugam Parivahan and Swasthya Rakshan topics.

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