

BIRAC KIIT-TBI SPARSH CENTRE

SOCIAL INNOVATION IMMERSION PROGRAM

NEWSLETTER
JUNE 2022



Theme

WASTE TO VALUE

HIGHLIGHTS

**TISS Pre-Immersion
Workshop**

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**26 PRE-IMMERSION
SESSIONS**

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TECHNICAL MATERCLASS

The BIRAC Social Innovation Immersion Program has been structured to help them develop an enhanced problem solving skills, increased understanding of the immediate surroundings and target audience and better cognitive skills.

The Immersion period of 6 months helps them explore the diverse waste generating sources and the impact of waste on the environment and community.

We have been scheduling master classes focusing on the various sectors of waste and the challenges in all sectors.

These knowledge sessions were conducted to give the fellows an idea of where they can fit their skill sets and find a possible solution for the waste issues.

The sessions were segregated into the following focus areas:

- Food Waste
- Agricultural Waste
- Plastic Waste
- Metal and Metallurgical Waste
- Industrial Waste
- Biomedical Waste
- Construction and Demolition Waste
- Petroleum refining and renewable energy

Pre-Immersion Workshop by TISS

13-15 June 2022

An three day workshop was conducted by Tata Institute of Social Sciences (Knowledge Partner) to set the path forward for the newly on-boarded cohort of SPARSH-SIIP Fellows across 14 SPARSH Centers. The three day workshop covered all subjects like basic entrepreneurship, social impact of ventures and sector specific sessions that are listed below:

- 1 **13.06.2022**
 - **Introduction, Orientation and Context Setting on entrepreneurial approach to problem solving**
Professor Satyajit Majumdar
 - **Individual as decision maker and entrepreneur to solve problem – rational and intuitive**
Professor Satyajit Majumdar
 - **Entrepreneurial method of problem solving – how to select problems to solve – individual perspectives**
TISS resource persons
 - **Group Presentations**
TISS resource persons
 - **Political, Environmental and Regulatory Environment in India**
Dr. Reji E M

- 2 **14.06.2022**
 - **Society and Culture as Contexts in India**
Dr. Archana Singh and Dr. Reji
 - **Group Work and Discussion – social issues in India: effect on my journey**
All Resource Persons from TISS
 - **Group Presentations**
TISS resource persons
 - **Session on Problem Mapping**
Professor Satyajit Majumdar

TECHNICAL MATERCLASS

Pre-Immersion Workshop by TISS

3 15.06.2022

- **Presentation on Problem Mapping**

TISS resource persons

- **Session on Methods of Data Collection, Recording and Stakeholder Identification**

Dr Archana Singh

- **Stakeholder Identification, Data Collection Method**

TISS resource persons

- **Session on Methods of Data Collection, Recording and Stakeholder Identification**

Dr Archana Singh

Activities Conducted

1. Building a Sustainable Business Plan for Social Enterprise

2 June 2022

Expert: Mr. Mukesh Malik, CEO, Project GK

KIIT TBI hosted a session on building a sustainable business plan with the mindset of creating a social impact, and the interactive session elaborated the best practices of designing a sustainable business for a social enterprise.

2. Market and Competitive Landscape Analysis

2 June 2022

Expert: Dr. Aparajita Prasad, Director, PwC

Market and Competitor Analysis for a social venture would require certain other parameters while evaluation. Dr. Aparajita who has been assistive in building many social ventures and market analysis being a critical part, she detailed the fellows on the process on how to identify the competitors and do a market analysis.

3. Business Communication Skills for Entrepreneurs

3 June 2022

Expert: Ms. Nidhi Mehta, Founder, SelfAchievers

The session by Ms. Nidhi Mehta was to help the fellows understand the importance of effective communication and how sharp communication evolves innovation and creativity within the business and also builds better associations.

4. Problem Statement Canvas for Startups

6 June 2022

Expert: Dr. Guruprasad Kuppu Rao, Director, Imaginarium

The Problem Canvas discussed during the session was a psychological approach to “deconstruct” the potential problem statement, the canvas allowed the fellows to look at the problem from several different angles.

5. Essentials for Successful Prototyping

6 June 2022

Expert: Dr. Suresh Nair, Chief Technology Advsiior, Social Alpha

Dr. Nair described the essentials of proper prototyping for successful product development and commercialization. He also discussed topics like how to test product features, manufacturing methods, user experience before full –scale production.

6. Insights on existing innovation in waste related to pharmaceutical based companies

7 June 2022

Expert: Dr. Rambabu Alturi, Founder, Elvikon

Dr. Rambabu has prior experience of working with various industries and has developed solutions to tackle the problem of waste. He shared few pressing problems with the fellows.

Activities Conducted

7. Grassroot level existing innovation on waste to value sector

7 June 2022

Expert: Mr. Vivek Kumar, NIF Bhubaneswar Cell Head

In order to solve the real life challenges of the rural communities, the fellows need to learn how to identify the challenges in these areas. NIF is dedicatedly working in promoting grassroots innovations and Mr. Vivek explained how they reach out to various impacted communities and look for innovations or problem statements, conduct surveys and interact with the tribal and rural people.

8. Existing Innovation in Agrowaste Sector

8 June 2022

Expert: Ms. Nikita Baliarsingh and Ms. Nishita Baliarsingh Founder of Nexus Power

Working in the domain of agro waste, they have developed a disruptive bio-organic and rechargeable batteries. They discussed the challenges of working with waste and the opportunities in this domain.

9. Waste to Value: Priority sectors, ecosystem partners and funding landscape

8 June 2022

Expert: Ms. Madhushree BN, Social Alpha

Ms. Madhushree elaborated the working and structure of Social Alpha and how they support waste to wealth startups. She also discussed few case studies and technologies supported by Social Alpha

10. Waste to Value: Priority sectors, ecosystem partners and funding landscape

9 June 2022

Expert: Mr. Ravi Beniwal & Mr. Saurabh Dutta, Invest India

Mr. Ravi and Mr. Saurabh from Invest India handhold startups/technologies in the sector of waste to value. They elaborated the funding opportunities and how they support waste to wealth startups. They also discussed few case studies and technologies supported by Invest India.

11. Opportunities for Startups in Waste to Value Sector

10 June 2022

Expert: Dr. Shruti Pavagadhi, Senior Manager, NUS

Dr. Shruti has an extensive experience of working in Environment, sustainability and agri-food domain. Her session covered all the opportunities for startups/innovators working in the domain of waste to value.

Activities Conducted

12. Idea Validation

16 June 2022

Expert: Mr. Manoj Arora, Chief Strategy / Business & Technology Innovation, Crest Innovations Foundation

Mr. Manoj Arora explained how the Process of idea validation is testing business ideas to understand their viability. Also Expert provides brief insights about the scenario that helps to prove the market need and target audience's willingness to pay from the perspective of Waste to-value sector.

13. Mineral & Metallurgical Industry focused on W2V: Case Studies of new technologies & Industry Partners & Social Media Outreach

18 June 2022

Expert: Dr. Chinmay Kumar Sarangi, Principal Scientist, CSIR - IMMT

KIIT TBI conducted a session on waste to value in the mining and metallurgical industries with CSIR-IMMT expert Dr. Chinmay Kumar Sarangi. He has described the potential opportunity areas in the mining and metallurgical industries, as well as providing insight into the case studies accessible to determine the issue statement.

14. Waste to Value Focused on Petroleum refining, natural renewable gas

20 June 2022

Expert: Dr. Suhas Dixit, Serial Entrepreneur, ApChemi Pvt Ltd

Mr. Suhas Dixit, Co-founder, ApChemi Pvt Ltd, took a waste-to-value session centred on petroleum refining and natural renewable gas. He described how the incineration process aids in the conversion of garbage to renewable energy. Mr. Suhas shared various case studies that will assist the Cohort of SIIP fellows in developing a potential problem statement.

15. Waste to Value focused on Pharmaceutical-Based companies

20 June 2022

Expert: Mr. Rambabu, Co-founder, Elvikon Pvt Ltd

KIIT TBI hosted a session physical session to discuss the sector of waste to value-focused on the Pharmaceutical industry. Dr. Rambabu discussed the various challenges of working with wastes from pharma sector and how to deal with it. He also proposed some possible areas to work in the waste domain.

16. W2V focused on Food Sector

21 June 2022

Expert: Dr. Shivanand Shirkole, ICT

Food Waste from both commercial and industrial activities is increasing rapidly. In order to encounter the food wastage and food security, Dr. Shivanand explained the current scenario in India and also highlighted few novel technologies established in this sector.

Activities Conducted

17. Valorisation of Renewable /Bio-Based Waste

22 June 2022

Expert: Dr. Saurabh C. Patankar, Assistant Professor, ICT

Being an entrepreneur and a professor, Dr. Patankar revealed the leanings of his journey of building a company to deal with the organic wastes. He discussed the various types of waste valorization being used by different segments of the society.

18. W2V focused on Paper & Pulp industry Waste

23 June 2022

Expert: Dr. Amit Arora, Associate Professor, IIT Bombay

This session covered the elements that contribute to agricultural waste and its influence on the environment. Expert Dr. Shrutika Pavagadhi thoroughly addressed major environmental and socio-economic challenges related to agricultural activities, such as changes in the hydrologic cycle, the introduction of harmful chemicals, fertilizers, and infections, and the loss and alteration of wildlife habitats, and invasive species.

19. W2V Focused on Biodiesel Production

24 June 2022

Expert: Mr. Rahul Chatterjee, Co-founder, Krea Foods & Beverages Pvt Ltd

Mr. Rahul started as a student entrepreneur and currently a successful entrepreneur. He started working on Biodiesel and he shared his experience of ideation to commercialization and the scenario of various industries and start-ups working in the biodiesel sector.

20. W2V Focused on Fishery Waste

24 June 2022

Expert: Prof. Winny Routray, Assistant Professor, NIT Rourkela

Dr. Winny has a vast experience of working with waste from fishery and aquaculture sector. She has developed technologies and value added products from these waste. She explained the different types of wastes generated and how they can target.

21. W2V focused on Health Care Sector

25 June 2022

Expert: Dr. Vijay Simha, CEO, Audicor Cardiometrics Pvt. Ltd

Dr. Simha discussed in detail the types of wastes in healthcare sector relating to biomedical devices and the current developments in this sector. He also discussed the opportunities of 3D printing in this sector and how the fellows can contribute to it.

Activities Conducted

22. W2V focused on Plastic Waste

28 June 2022

Expert: Dr. Sanchita Chakraborty, Co-Founder, Rigel Bioenviron

Dr. Sanchita is a successful BIRAC BIG awardee and the startup is related to development of bioplastic from waste. She detailed the fellows about her technology and the possible opportunities of working with bioplastics.

23. W2V focused on Agriculture Sector

28 June 2022

Expert: Dr. Bala Subramaniam, Assistant Professor, NIT RKL

This session covered the elements of sources of agricultural waste and the ways the community deals with it. He also discussed few case studies and technologies using agro waste.

25. W2V focused on Healthcare Sector

29 June 2022

Expert: Dr. Debashish Das, Principal Scientist & Head, Technology Strategy Group, CSIR- National Chemical Laboratory

Biomedical and hospital wastes are being treated at individual levels by the authorities, Dr, Debashish detailed them about the existing solutions in this area, the challenges faced by startups and how the fellows can contribute to eradicating harmful biomedical waste.

26. W2V focused on challenges and opportunities in Northeast

29 June 2022

Expert: Dr. K Karthikeyan, CEO, NeatHuB

Dr. Karthikeyan started the session with explaining the availability of rich resource pool in Northeast that is unexplored. He also mentioned the startups who are in waste sector and how they are growing inspite of various geographical and infrastructural obstacles. He also discussed the various potential problem statements that the fellows can work upon focused to Northeast.

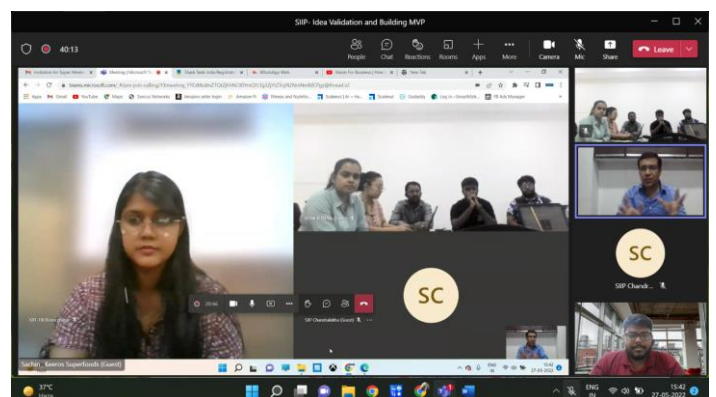
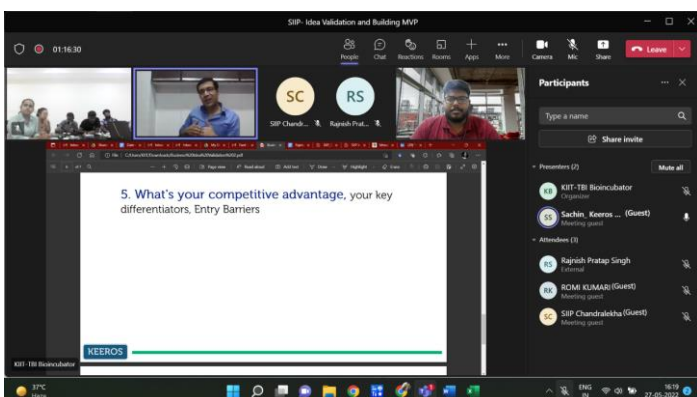
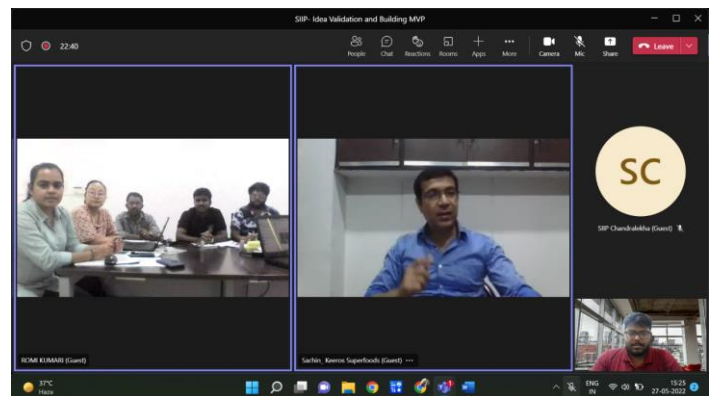
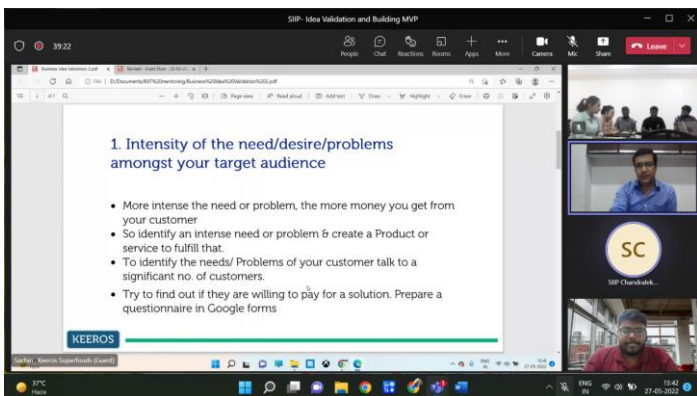
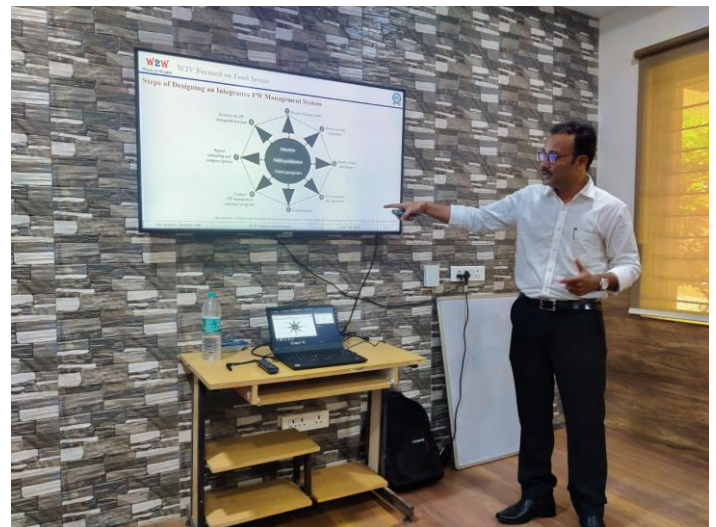
24. W2V focused on Plastic Waste

30 June 2022

Expert: Dr. Magesh Nandgopal, NCL Pune

Being an expert supporting technologies working on plastic waste, he initiated the session with detailing the fellows about the current scenario of plastic waste generation and technologies/measures being used to reduce the production of plastic waste. He detailed about the composition of various types of plastic wastes to help them find a solution to it.

Glimpses of the session



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