

REIMAGINE WASTE 5

Hacking for a Clean Nation

Organised By



Hackathon 2021

Plastics and Data Analytics



Venue:
Ramaiah Institute of Technology



Winning teams to receive benefits worth **INR 20 lakhs!**

- Investment to build MVP
- Incubation and Mentorship



Date:
9th - 11th April 2021



Register on:
www.reimaginewaste.org

Deadline: **4th April**

Supported By



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Press Note

Hackathon 2021: Plastics and Data Analytics

Plastic is perhaps one of the most versatile materials of this world, with a vast variety of useful applications, but it is still one of the worst contaminants for nearly every facet of everyday life. Today, the world generates about 300 million tonnes of plastic every year. Only 9% of all plastic waste ever produced has been recycled. About 12% has been incinerated, while the rest — 79% — has accumulated in landfills, dumps, or the natural environment, causing plastic pollution.

Plastic waste data can play a very pivotal role in optimising the waste supply chains. Data and the insights gained by analysing it can enhance efficiency, transparency, accountability and thereby increase compliance from various actors in the supply chain.

Waste Knot Foundation, Waste Impact Trust, Ramaiah Institute of Technology IEEE Student branch and Ramaiah Institute of Technology EDC cell with the support of KSPCB Wipro and AMIMEDCURA, organised “REimagiNEWaste 5” hackathon on “Plastics & Data Analytics” between April 9th and 11th. The online hackathon saw the participation of over 80 innovators, 20 mentors, 15 waste pickers and other stakeholders of the waste management systems.

The hackathon was organised with the objective of engaging students and young innovators to develop mainstream solutions that capture and analyze plastic waste data, bring efficiency to the current waste management processes, thus reducing pollution and facilitate India’s transition to a circular economy.

After the hackathon, teams pitched and demonstrated their ideas. Winners of the hackathon came up with the following ideas:

1. Team PlasPicker – An AI-powered plastic sorting solution.

Shruthi Srinarasi, Reshma Ram, Sanjay R, Dept. of CSE, MSRIT.

2. Team Waste Sank – A data dashboard aggregating all plastic waste data.

Nikhil Agarwal, Kabya Sharma, Ayush Mani, Shilpa Kini, Dept. of CSE, ECE, ML, MSRIT.

These winning teams will receive an investment of Rs.2.5 Lakhs. They will also be incubated and supported by the organisers with the support of Wipro, KSPCB and ELCITA, to build more robust prototypes and deploy them.

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“KSPCB has taken up various successful initiatives to bring in data-driven decision making. We also see immense potential in students, young innovators and would like to explore the creative solutions they conceive in this hackathon. This hackathon was a good platform to instigate innovative brains, support entrepreneurs and make them ambassadors of pollution control,” – says Shri. Srinivasulu, IFS, Member Secretary, KSPCB.

“Data on plastic waste is incomplete or inconsistent most of the times. We supported the innovators to ideate and build solutions to streamline the data and generate valuable insights that can bring efficiency, transparency and accountability to our waste management processes” – Ravi Theja Muthu, Waste Knot.

“ReimagiNEwaste” Hackathons are the ideal platform for all stakeholders in the Waste Eco-System to come together, identify the problems and find inclusive solutions for the festering day-to-day problems we face in waste management “ -Gayatri Handanahal, Waste Impact Trust.

“Plastics pollution-free world is not a choice, but a Commitment to Life and Next Generation “, with this in mind MSRIT is keen on making a Significant Impact on a greener environment. The hackathon is one of the initiatives in this direction – Dr N V R Naidu, Principal MSRIT.

Dr. Annapurna P Patil, Professor, Dept of CSE, Dr Shobha K R, Associate Professor, Dept of ETE, Dr. Jyothilakshmi R, Assistant professor, Dept of MECH, Dr. Parbha Ravi, Associate professor, Dept of

ML Ramaiah Institute of Technology, Bangalore-560054, were the Co-designers, Mentors and Coordinators of the event.

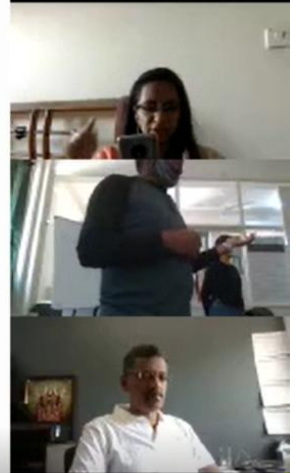


The Solution- Phase 1

- The PlasPicker Phase 1 is an intelligent modularized plastic segregation solution with three modules.
- Function: Classify different types of plastic to enable easier segregation using visual sensors i.e. cameras on smartphones

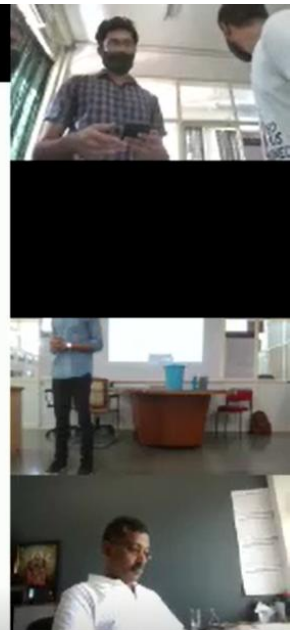
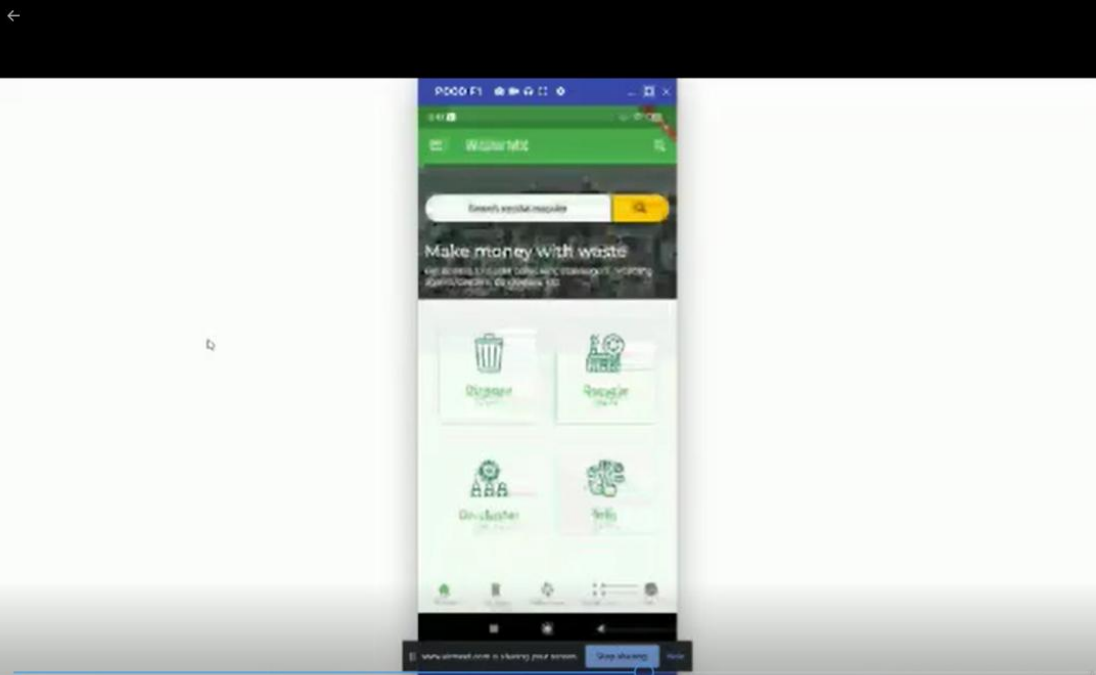


The three modules of the PlasPicker solution



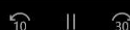
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Airmeet REImagine Waste Hackathon - IEEE RIT-B 2021 Take a break End Session

SPEAKER



HOST



David Woolcombe
Founder, Peace Child International
NA, NA

Talk by David Woolcombe & Eileen Goh
9 Apr 2021 at 15:30 IST

SPEAKERS

- DW** David Woolcombe
Founder, Peace Child International
NA, NA
- EG** Eileen Goh
Programmes Officer, The Commonwealth
NA, NA

LIVE 04:18 49 HD REC

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