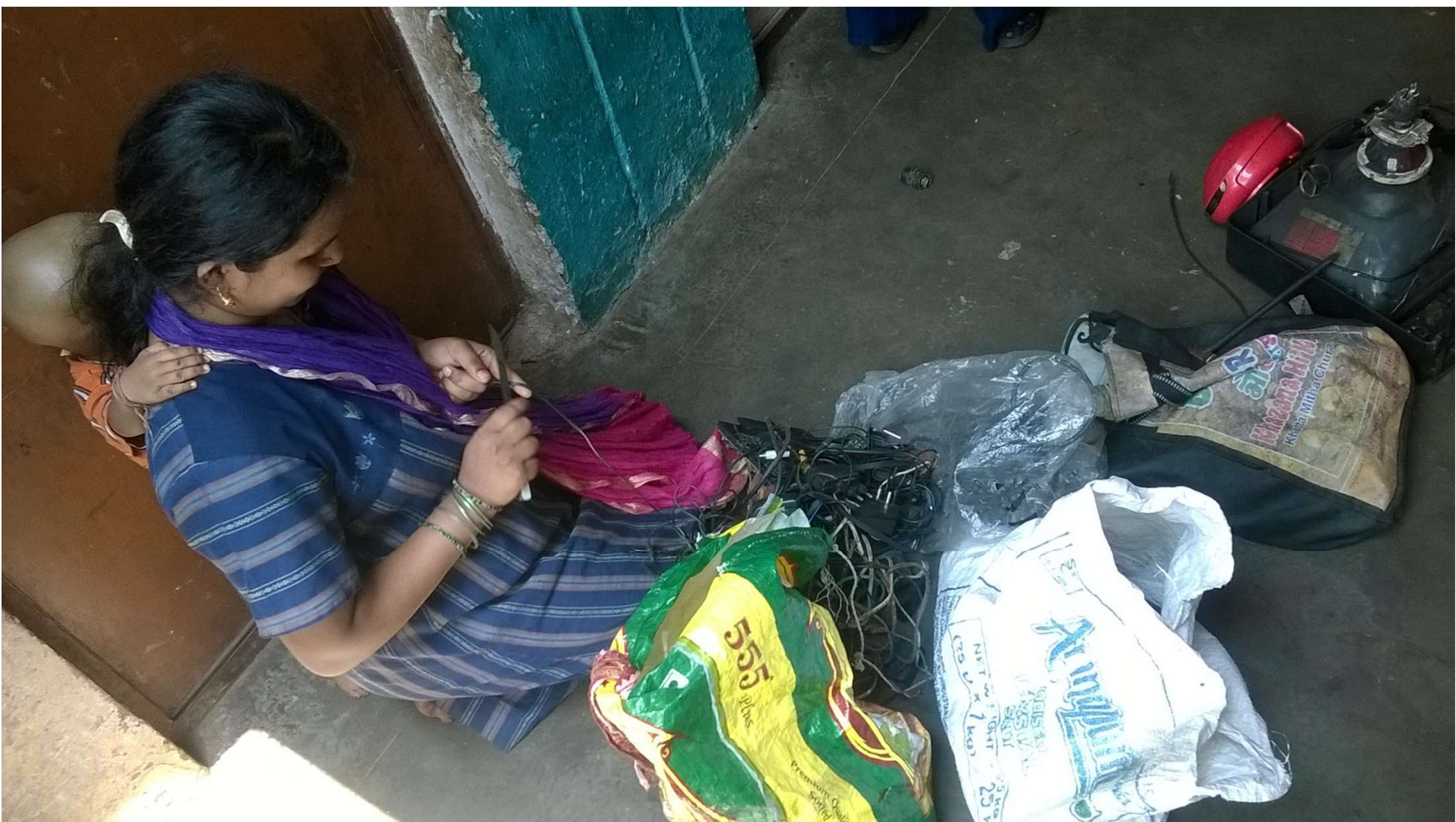


Trixie

A SafeTool

for peeling the plastic covering from wires to extract metal



Present Method

YouTube link

<https://youtu.be/h3DSPr3J0W0>



Problem Statement

Primitive & junked tools

Hazardous & dangerous,

Kids safety put to risk

Polluting to environment

Not scalable



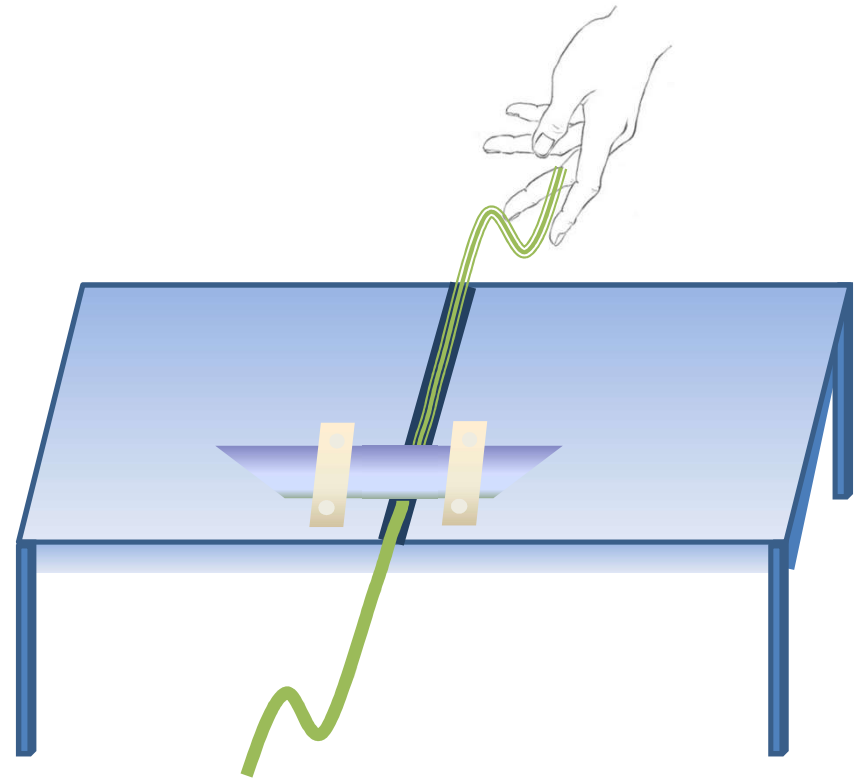
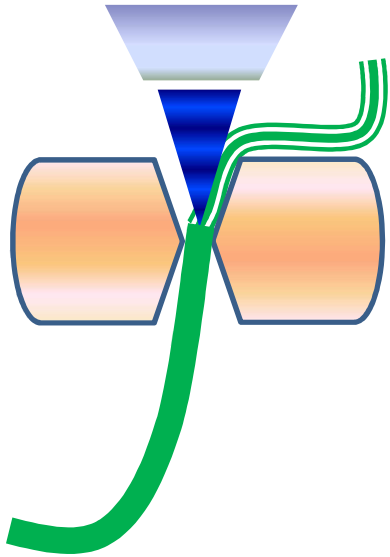
Burning Needs

A safe, portable, affordable tool to peel the plastic cover
on wires -

increase productivity, thereby increase earnings



Schematic sketch




Trixie Prototype- 45 day challenge

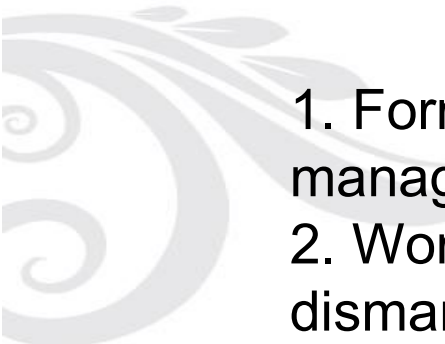


Status of Pilot


1. 4 working prototypes ready
2. Identified family for trials and pilot
3. Trained the family in using Trixie machines
4. Baseline study conducted to study productivity under 'as-is' condition
5. Field trials of machines and various iterations being done.
6. Baseline study with 'Trixie' completed.
7. Analysis of date to be taken up from 13/03. rough indications show a 3+ times increase in productivity
8. A pilot SHG formed to take up this activity as a group enterprise.
9. DesIC – IISc is the technical partner




- 
- Provide informal waste workers safe & efficient product to improve livelihood
 - Catalyse replicable & sustainable business models to manage e-waste (wires & cables) in India
 - Generate employment opportunity at the bottom of the pyramid
 - Facilitate women's economic empowerment in urban areas

- 
1. Formed and Registered Trixie E-Waste management Pvt.Ltd.
 2. Working towards obtaining Licence for collecting, dismantling, and recycling of E-Waste
 3. Working towards forming 2/3 SHGs to take up wire stripping as an enterprise.
 4. One of the 5 short listed for PopUp India Challenge
 5. Semi- finalist in 3M-CII challenge
 6. Semi Finalist in Design Impact Challenge

Present Status

- 
- Design Improvement of Trixie
 1. To include all kind of wires to separate metals effectively
 2. Eliminate burning of wires by 100%
 3. Significant reduction in per unit product
 - Replication of 15 enterprise models in 2 years
 1. Empower ~200 women
 2. Ten in Bangalore & Five in other nearby cities
 - Mapping the potential & eco-system of recycling wires and cables in the urban cities.
 - Leveraging corporate sector to procuring raw materials (wires & cables)

Journey Ahead

- 
- Mainstreaming the Trixie model in the informal sector to the formal sector
 - Lacking knowledge in the e-waste ecosystem WRT to cables & wires
 - Transforming SHGs to successful co-operative enterprises

Challenges

TEAM TRIxie

#	Name	Role
1	Gayitri Handanahal / Waste Impact	Mentor
2	Chethan C N / Director, Trixie E-Waste Management Pvt. Ltd.	Project Manager
3.	Rajesh Babu/ Director, Trixie E-Waste Management Pvt. Ltd.	
3	IISc	Technical Expert Fabricating support
4	IDPMS	Community Engagement
5	Target Communities engaged in Wire Stripping activities	Project Implementation

Please see the trial run of the machine on :
https://drive.google.com/file/d/0B_CIDluA-YtgTHNnbVpkN3ZPak0/view?usp=sharing

Thank You

