Product Design Workshop

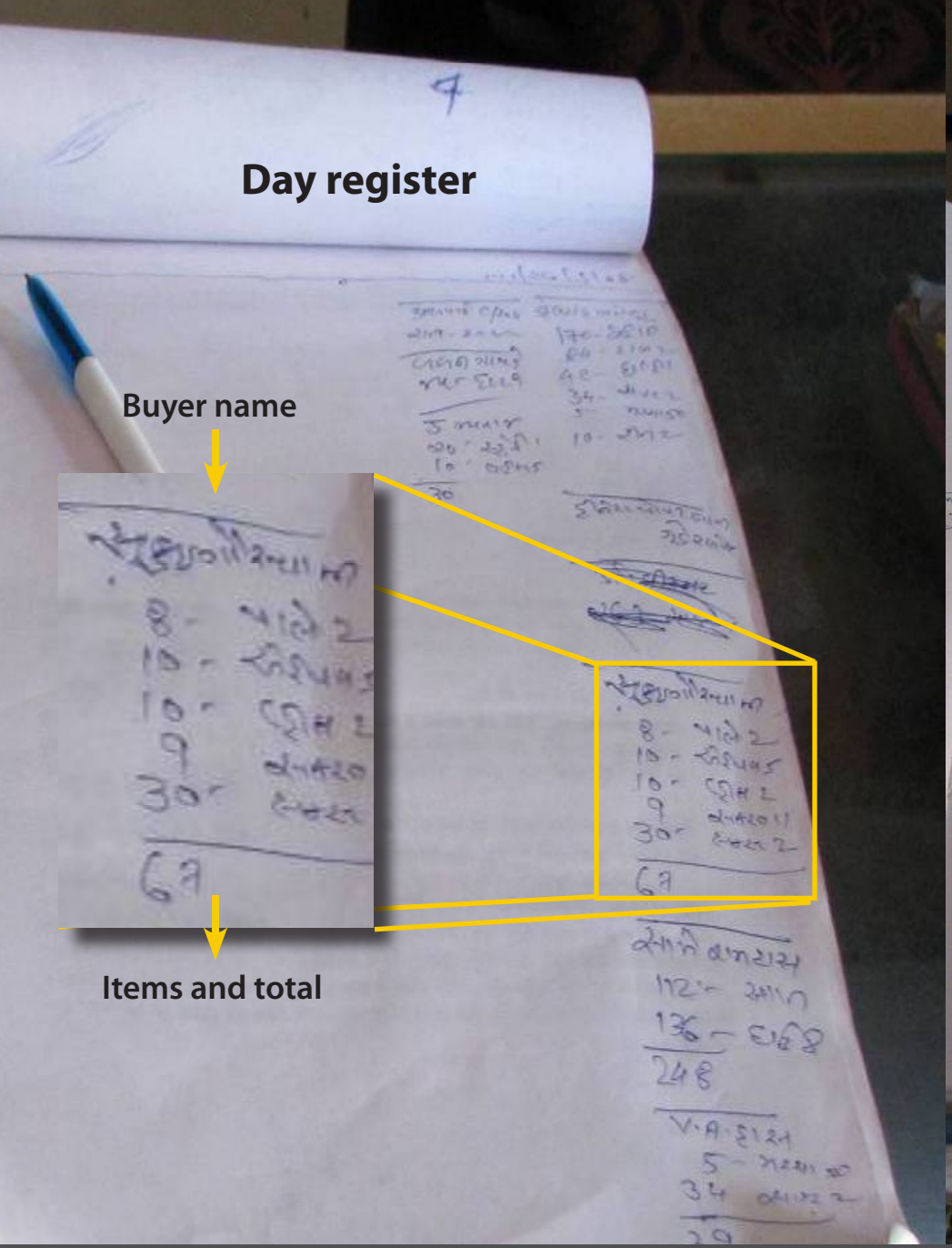
Nai-Hwa Chiang | Antonio Quinones | Swapnil Jadhav | Preethi Lakshminarayanan

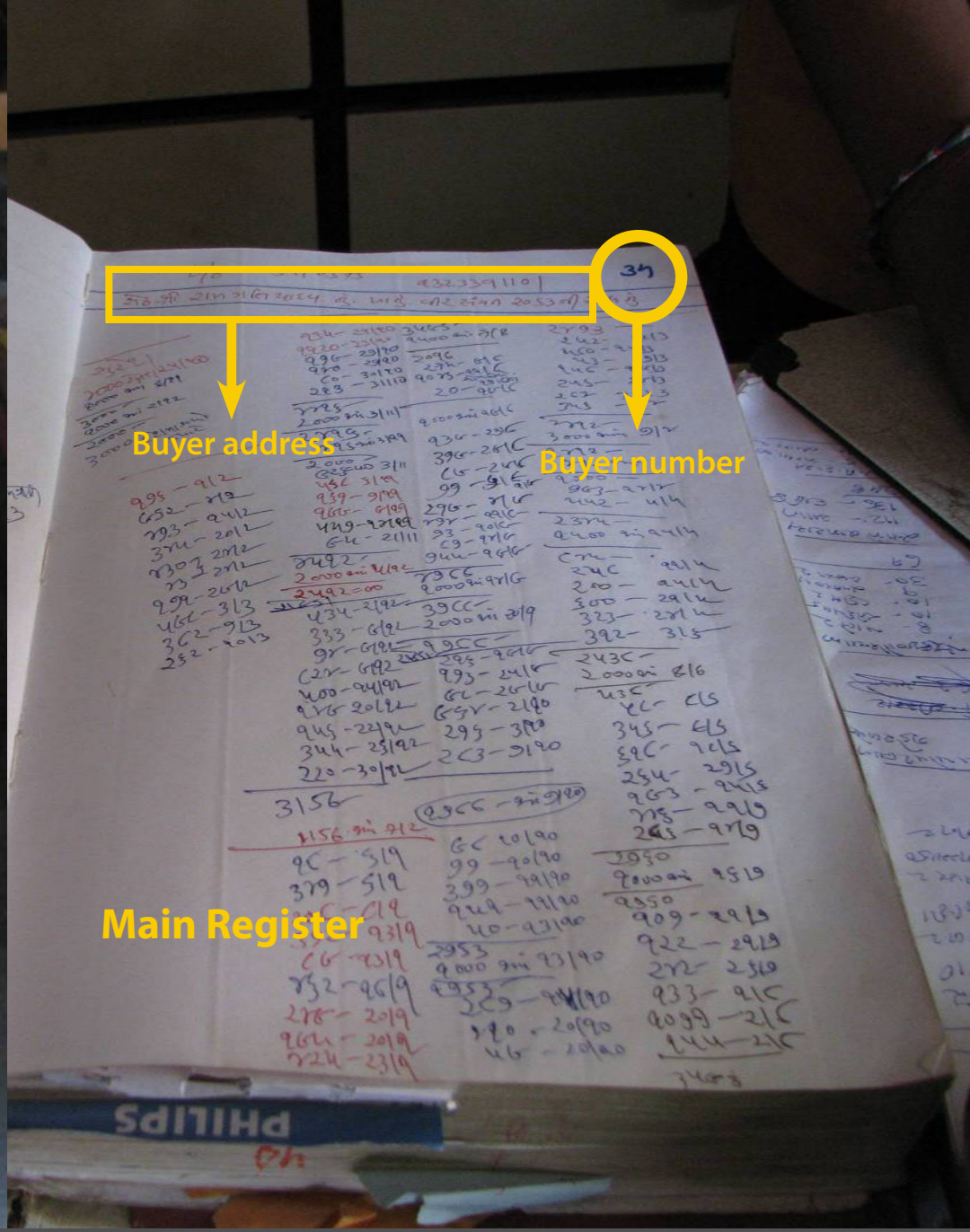
Record Keeping

Powai, India

Project Focus : Kirana Stores

Nai-Hwa Chiang | Antonio Quinones | Swapnil Jadhav | Preethi Lakshminarayanan





Problem : Multiple and Cryptic Record Keeping

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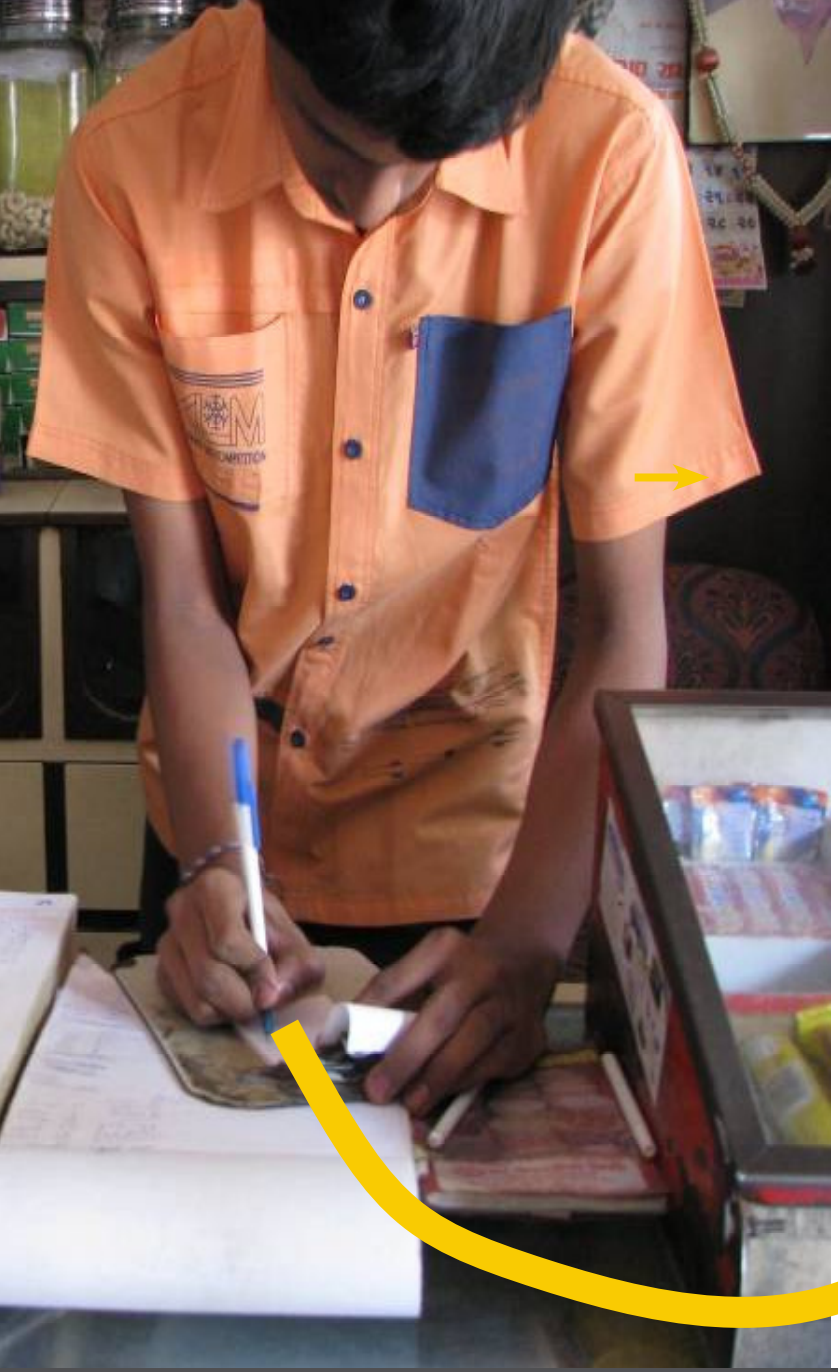
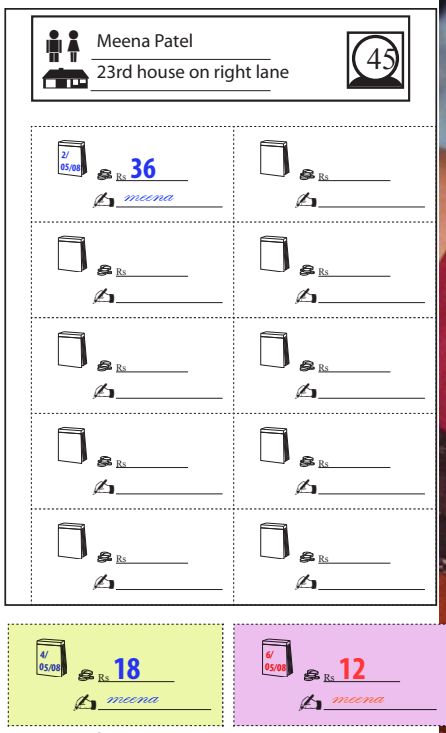
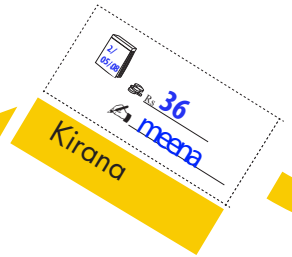


Credit sales journal



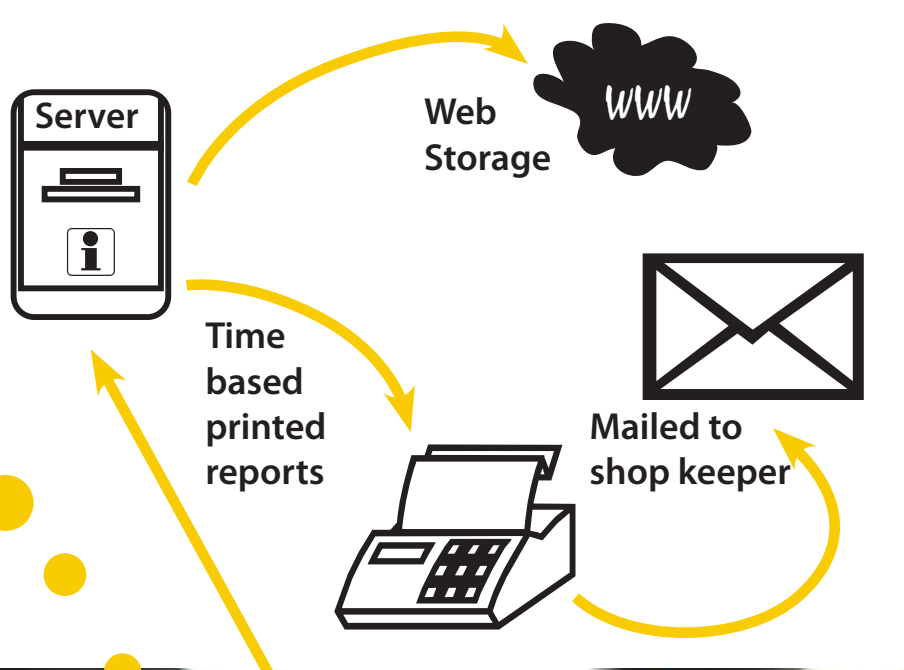
Dairy shop Medical



Heavily credit based buying and informal payback systems lead to inconsistency in sales records of both grocer and buyer.

Concept : Hisaab Kitaab

Nai-Hwa Chiang | Antonio Quinones | Swapnil Jadhav | Preethi Lakshminarayanan



Record keeping practices are meticulous but encoded and highly informal; thereby limiting financing options for the shopkeeper.

Concept : Mobile Hisaab

Nai-Hwa Chiang | Antonio Quinones | Swapnil Jadhav | Preethi Lakshminarayanan

Mobile based application allows for the shop keeper to keep his records in order and facilitates greater access to finance from banks etc.

Concept : Mobile Hisaab

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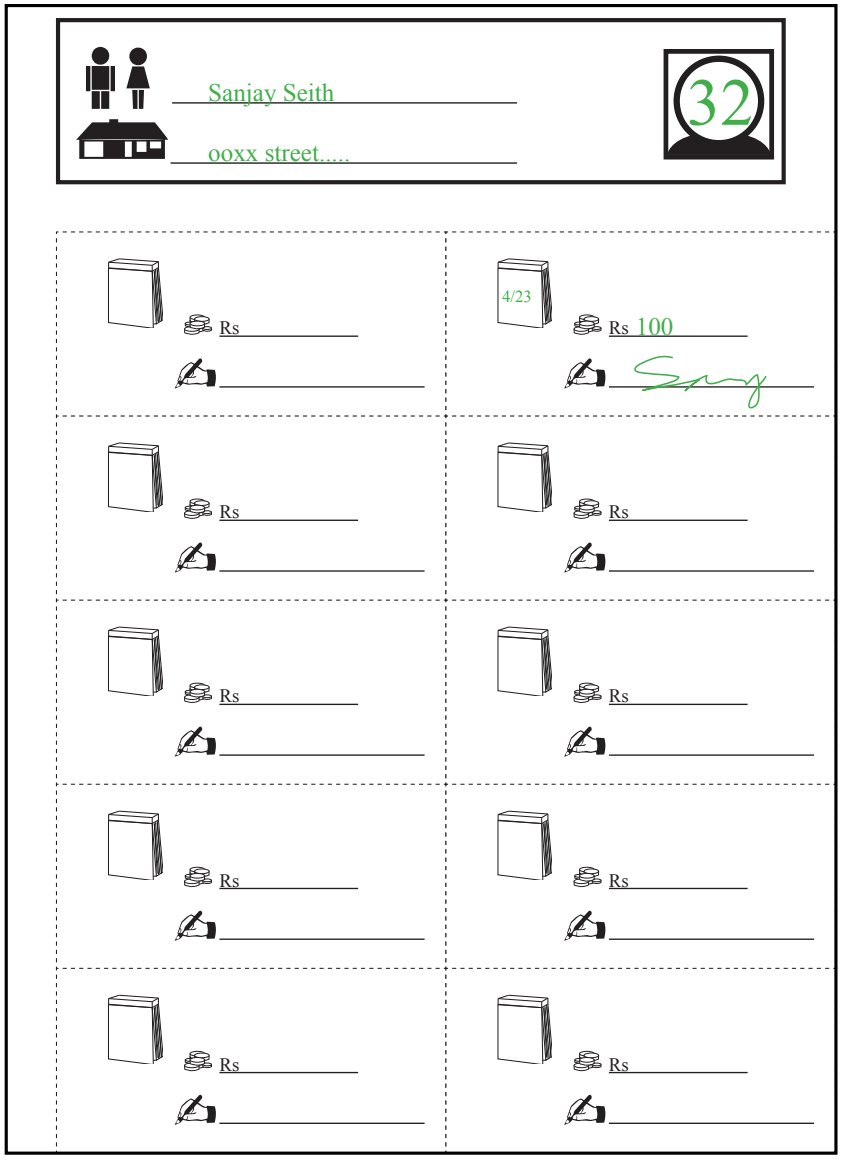
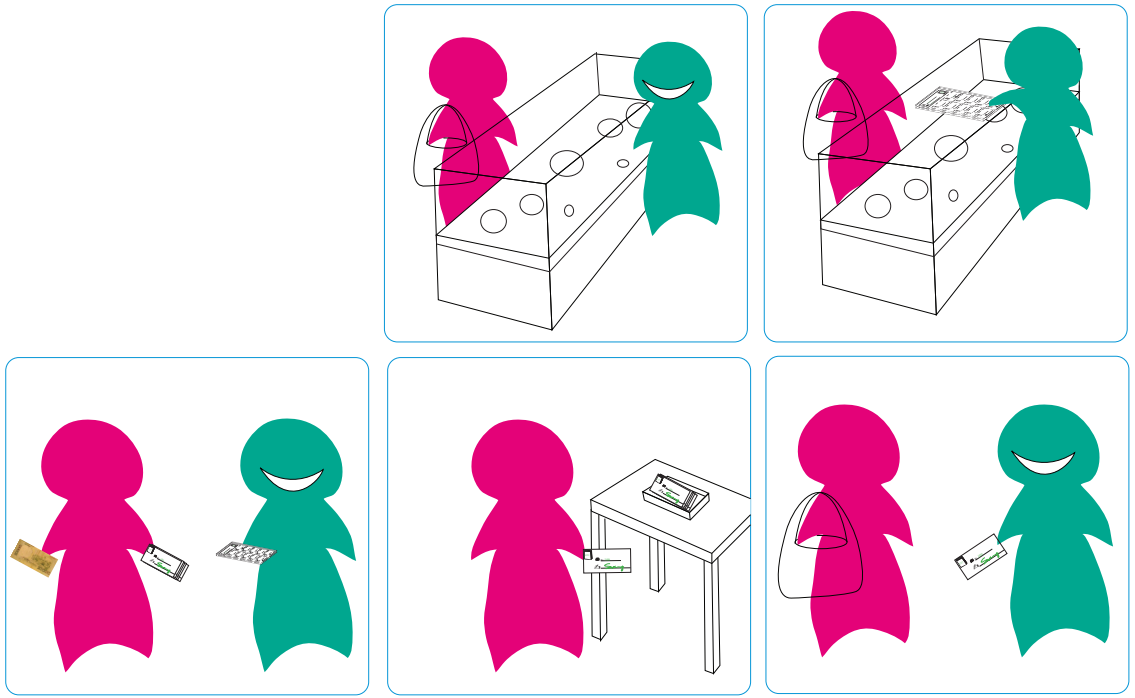




Time frame : 1 week
Results : Still Pending

Validation : Prototype and Scenario

Nai-Hwa Chiang | Antonio Quinones | Swapnil Jadhav | Preethi Lakshminarayanan

Using design to foster social networks in slums of Powai

[IPRO 305] PRODUCT WORKSHOP

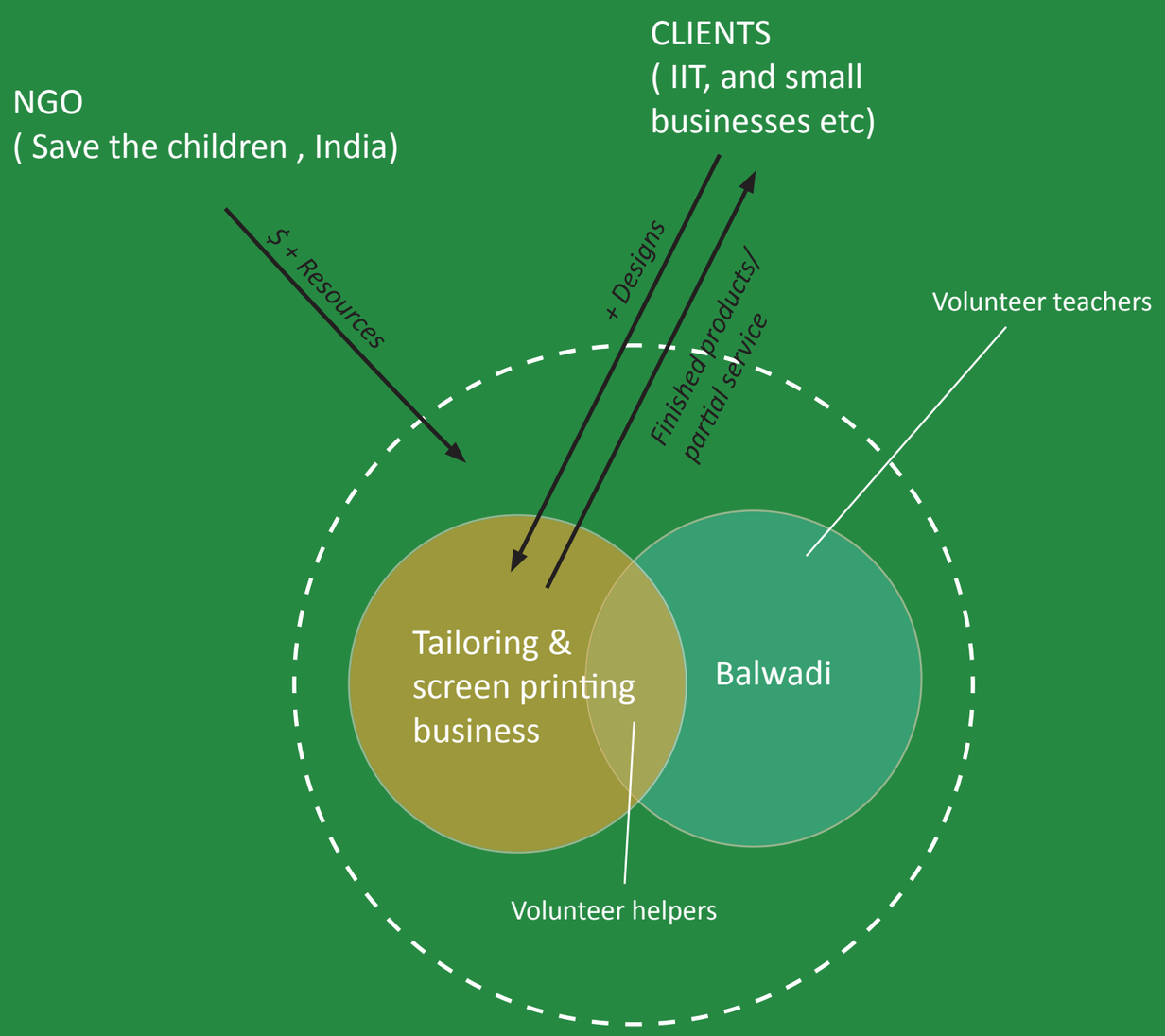
Spring 2008, IIT Chicago

Gauri Verma, Valerie Campbell, Edwin Steinmetz , Vishwesh Kelkar

THE BALWADI - play school - preschool - remedial classes - coaching centre

THE BALWADI : tailoring and screen printing business

EXISTING STRUCTURE



Strengths:

-Manageable scale

-Sharing space

-Combination of women and children

-Strong social bonds

Weaknesses:

-Money doesn’t flow between the two

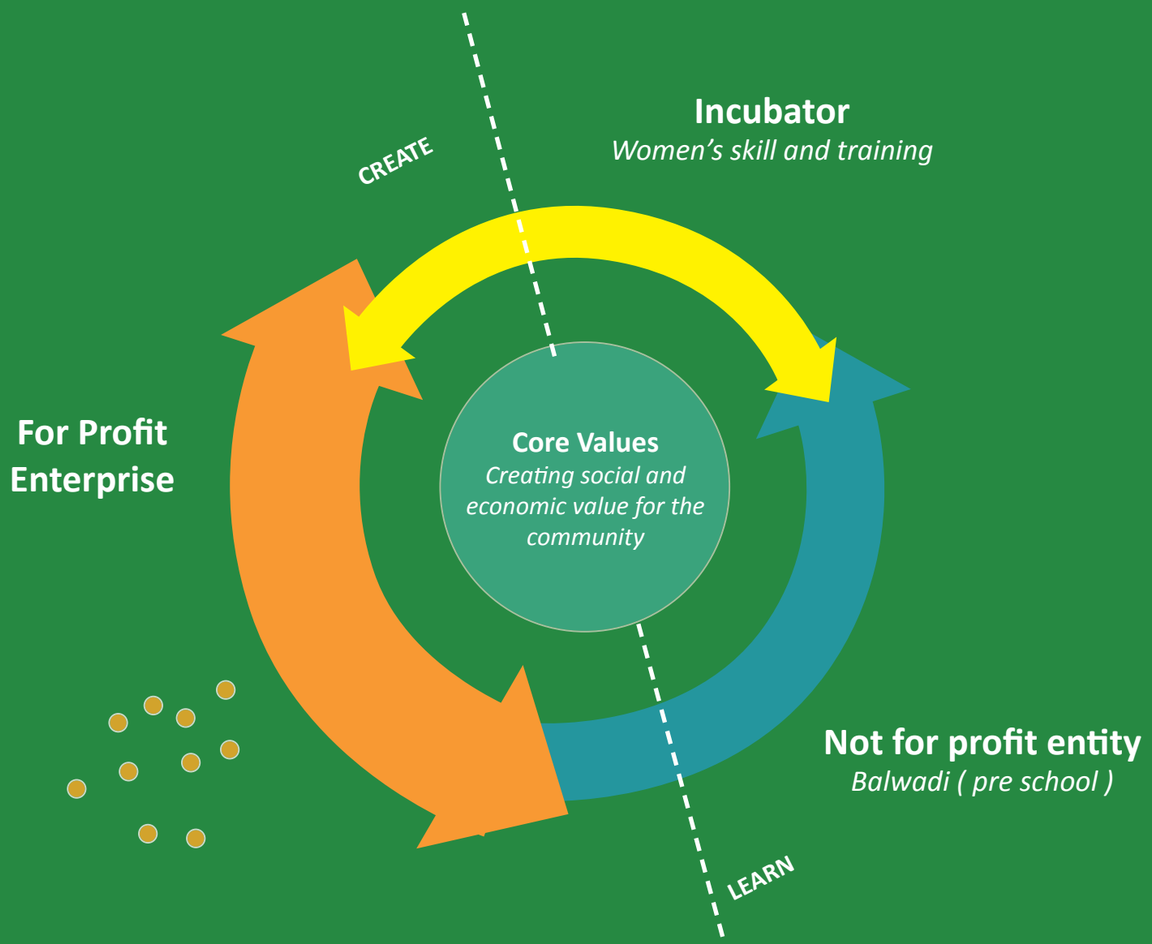
-Dependent on external funding

-Limited in scale.

-Limited profitably

-Does not support learning new skills

PROPOSED STRUCTURE : For profit and not for profit hybrid with an incubator for learning experience



Maintains:

-Manageable scale

-Combination of women and children

-Strong social bonds

Added Benefits:

-Self sufficient

-Scaleable and repeatable

-Shared space and resources

-Supports sharing and learning new skills

RELATIONSHIP : Between the Incubator and the Balwadi

Learning by teaching

+

Learning by participation

Trainees get experience in teaching / helping in the Balwadi

Kids learn by making and participating

+

Both imbibe the core values of the organization from the start

RELATIONSHIP : Between the Incubator and the For profit enterprise

Learning by teaching

+

Learning by participation

Trainees get experience by helping in the for profit business

+

Experts train and teach the others in order to become independent

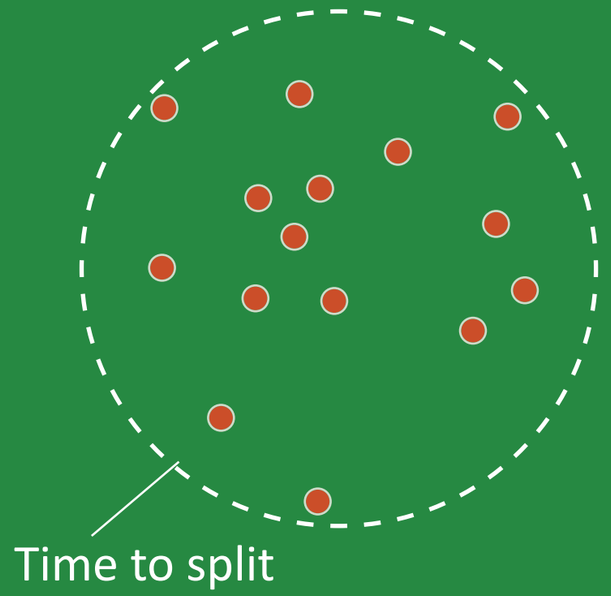
RELATIONSHIP : Between the For profit enterprise and the Balwadi

Channelizing profits
+
Channelizing expertise
back into the organization

A percentage of profits from the For profit has to go to the Balwadi

Knowledge and products made by the For profit can be utilized in the Balwadi

RELATIONSHIP : Between the For profit enterprise and the satellite workers



Rewarding expertise

+

Encouraging self reliance

+

Collaboration

Once a member has reached a level of expertise he can choose to:

Work from home /
Join any part of the organization/
Take his share and split with others to form a new Balwadi

POTENTIAL CLIENTS - CUSTOMERS - PARTNERS - ALLIES

RETAILERS
Crafts, apparel, home furnishing , accessories

INDIVIDUALS
Customized products

NGO's
(child education)
Expertise exchange, children involvement, Educational aids

KATHA

SOCIAL ENTREPRENEURS
Expertise exchange, children and community involvement

TATA

CORPORATES
(CSR Ddepartments)
Co creation workshops

Infosys

ENGG. / INFO TECH
Expertise exchange, BOP research, technology & product development

Other **BALWADIS...**

NETWORK : sharing resources between balwadis

recycled slum waste
made into educational toys

custom made goods

BOP research and setting up distribution channels

health clinic
instead of balwadi

Corporate team building workshops, Annual slum fairs

Finding your own niche and using existing expertise

Home based assembly businesses

in Powai

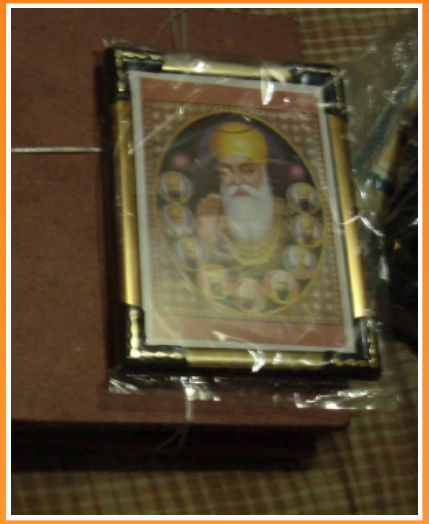
IPRO 305 – Design Workshop

Soham Patel
Bhumi Gajjar
Anshul Maheshwari

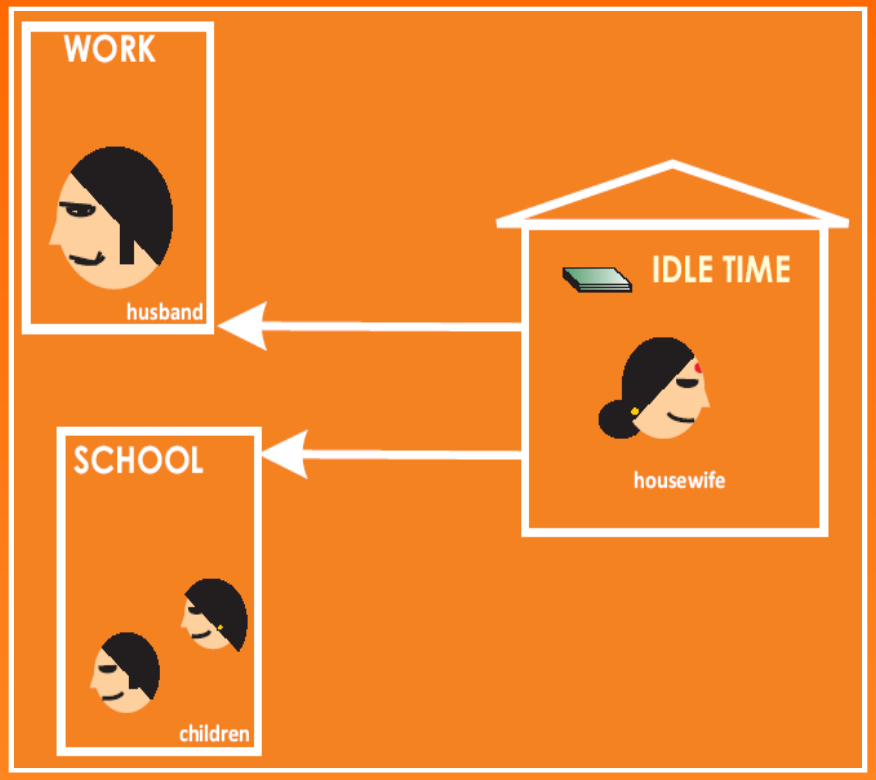
Design Principle

Enhance the social networking aspect of working and sharing responsibilities of women workers in slums in order to:

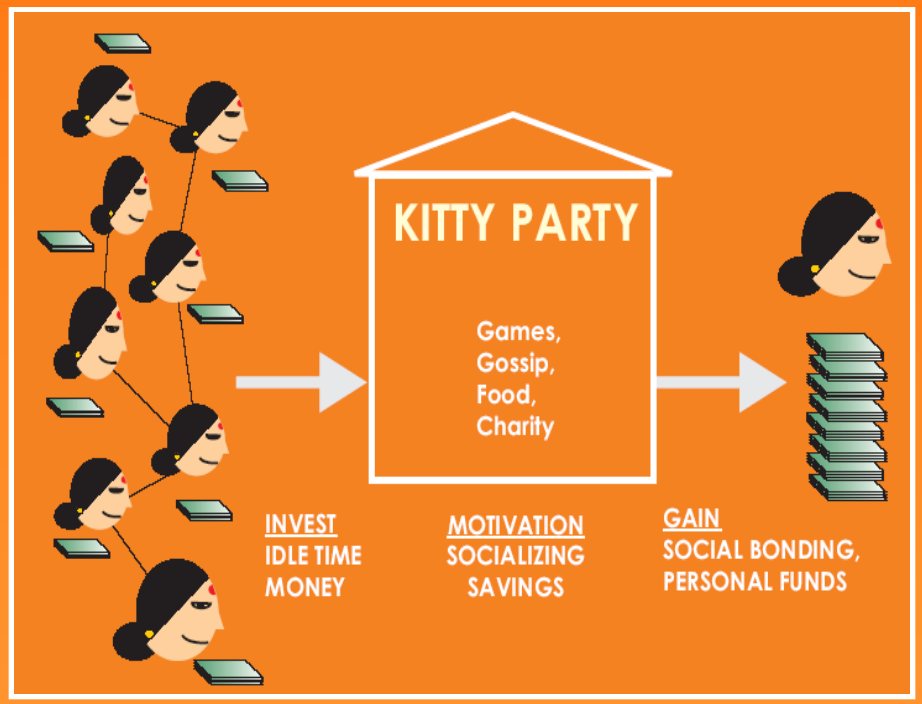
- Boost productivity
- Provide entertainment
- Improve health and well-being
- Increase financial gain



Kitty Party Model: Upper and Middle class housewives



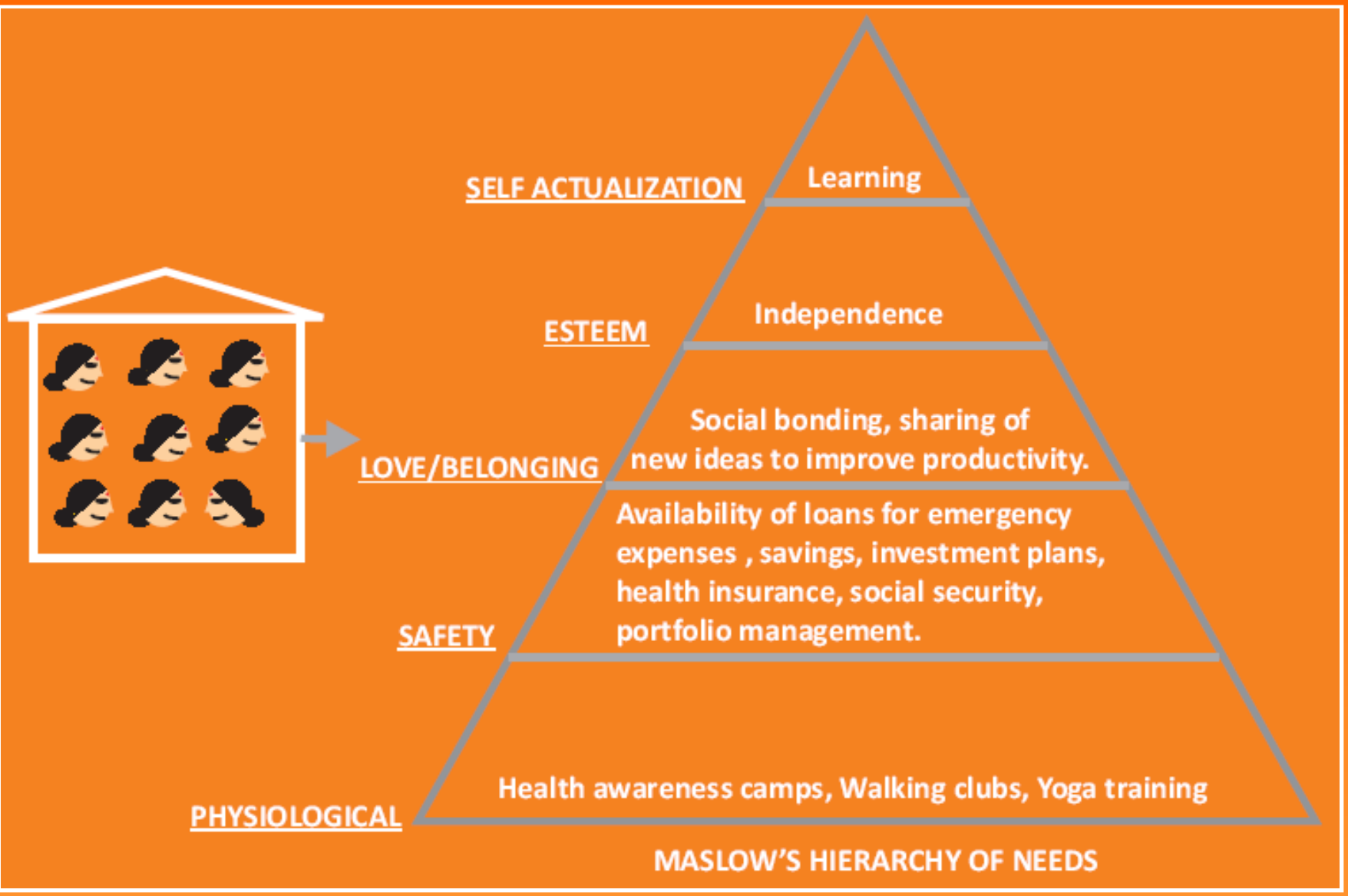
Stay at home wives
have idle time and money



Kitty Party:

- Create a network amongst themselves
- Come together at a venue
- Socialize, play games and earn money

Enhanced model for women workers in slums



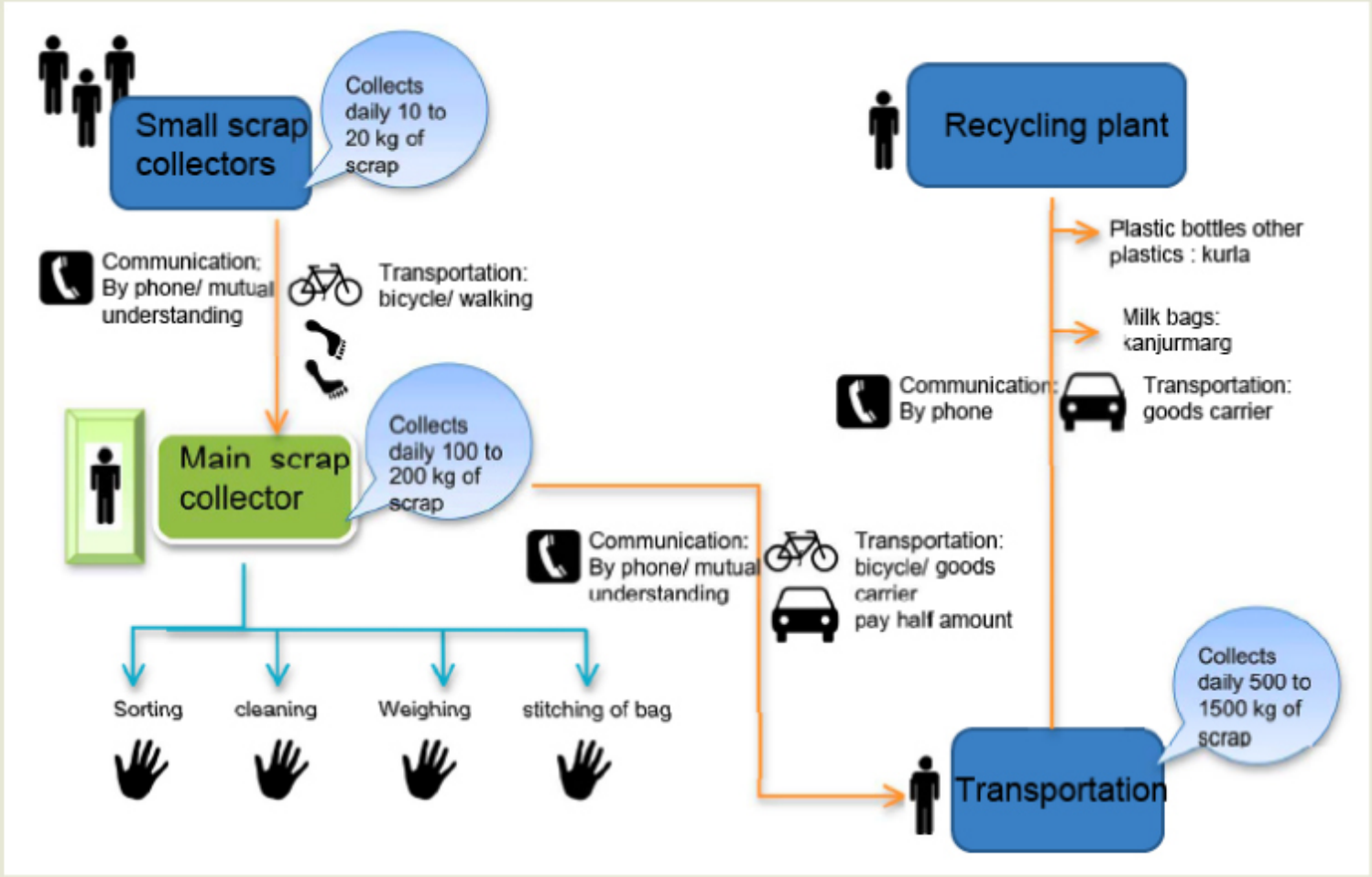
Kitty Co-operative addresses all needs for women workers in slums

Recycling System in Powai

Product Design Workshop | Spring 2008 | Institute of Design

Team 3 | Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Current Ecosystem



Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Current scrap collection system

No set time schedule for collection

Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Current scrap collection system

Value of scrap changes

Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Current scrap collection system

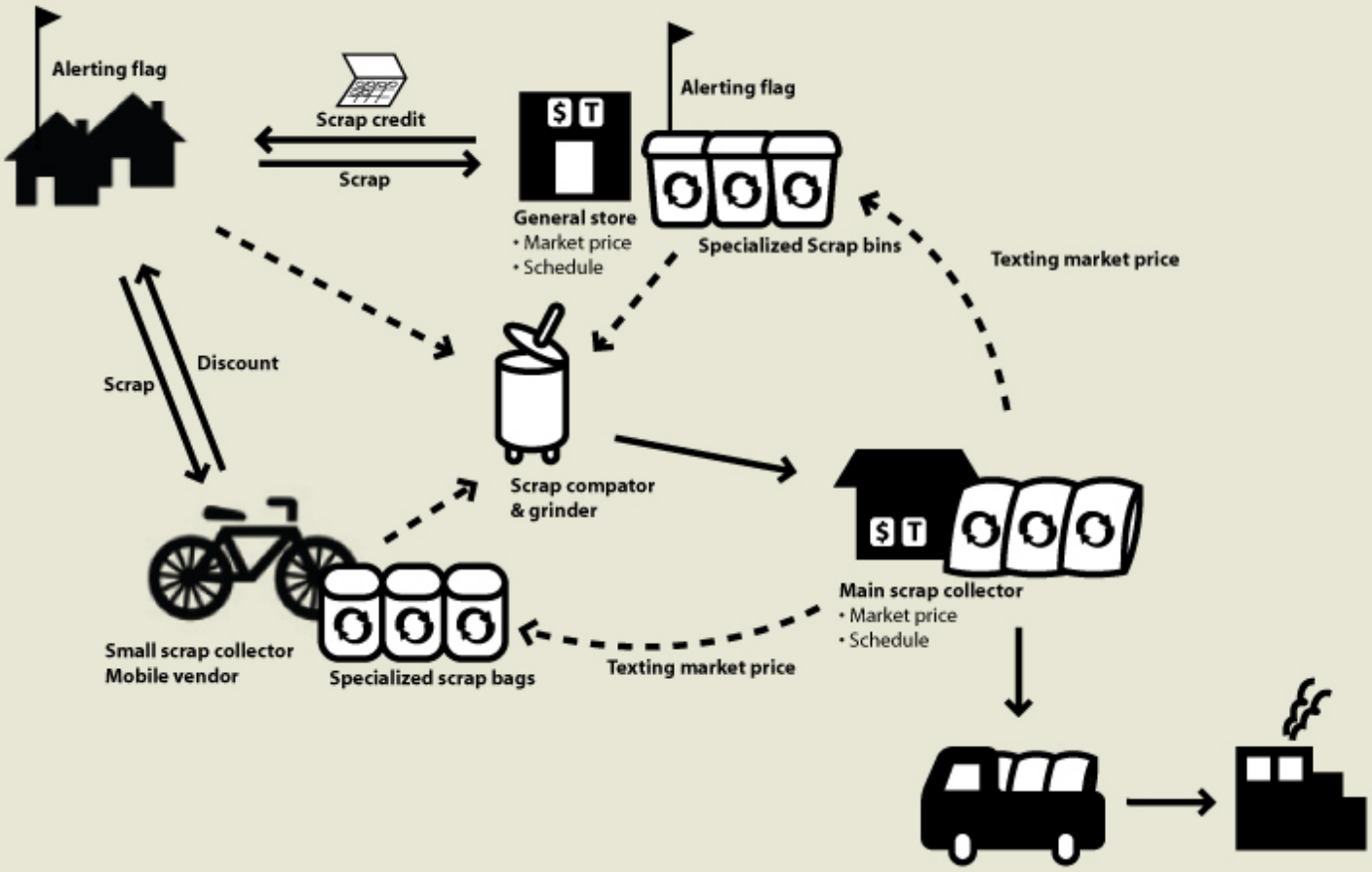
Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Current scrap collection system

Vendors barter with scrap

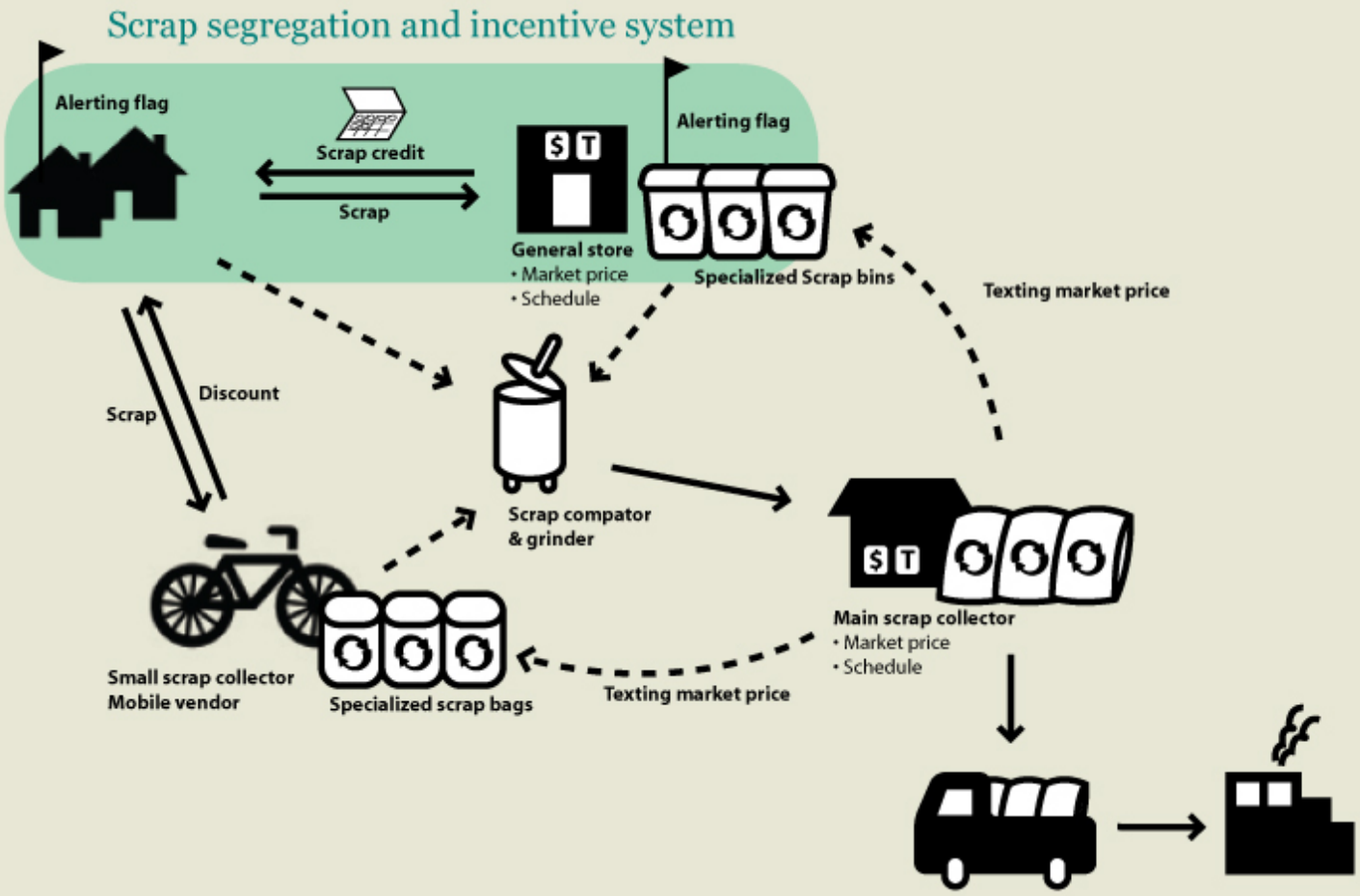
Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Concept Model



Vasile Bora, Dan Folwaczny, Kyungsun Kim, Shilpa Rao , Amy Sprague

Concept Model



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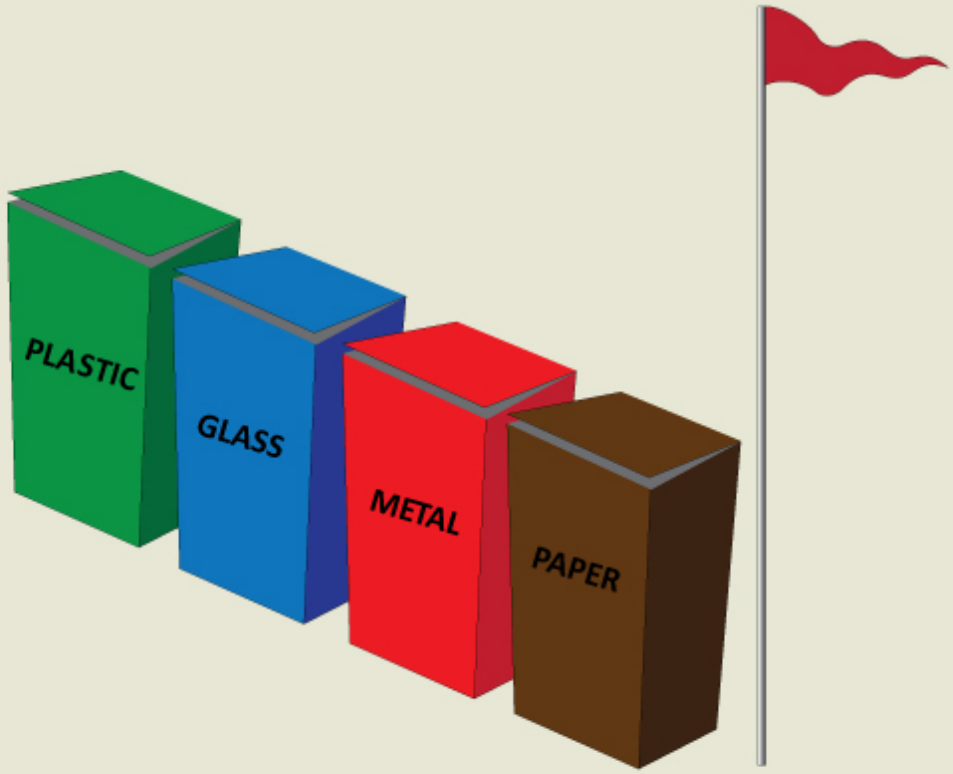
Product Concept:
Color Coded Bins



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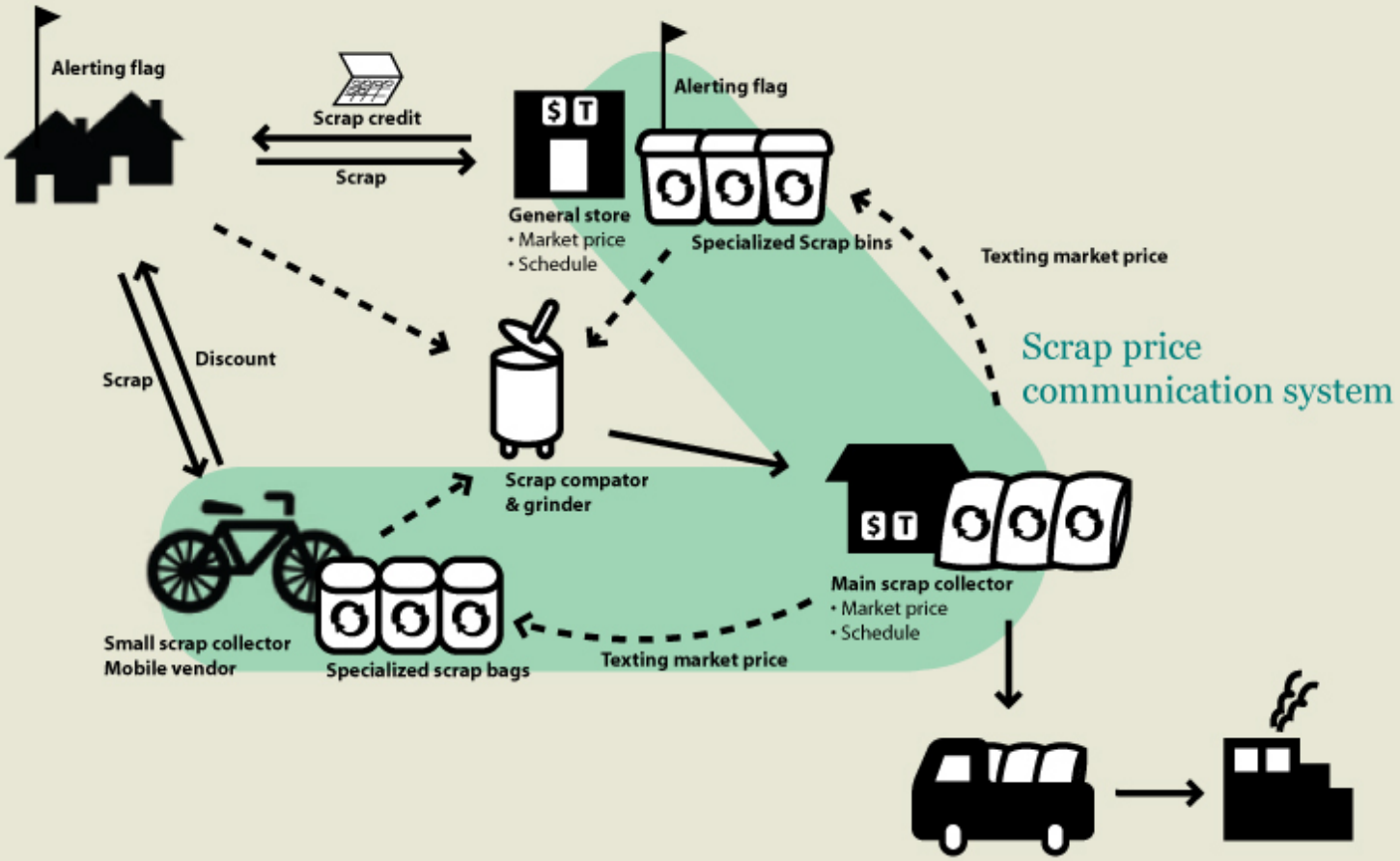
Concept Model



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Product Concept:
Bulletin board to display market prices of scrap

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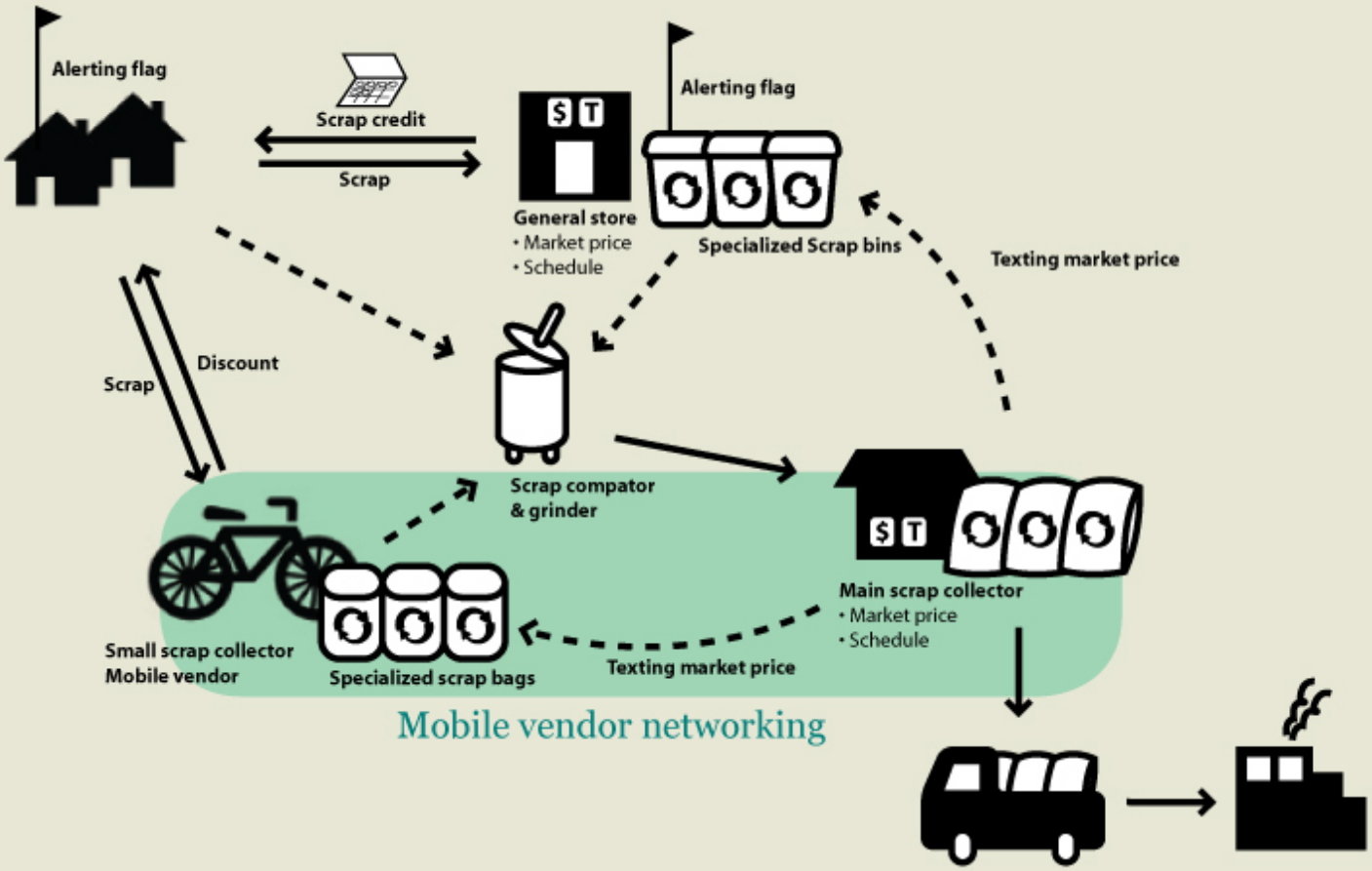
Concept Model



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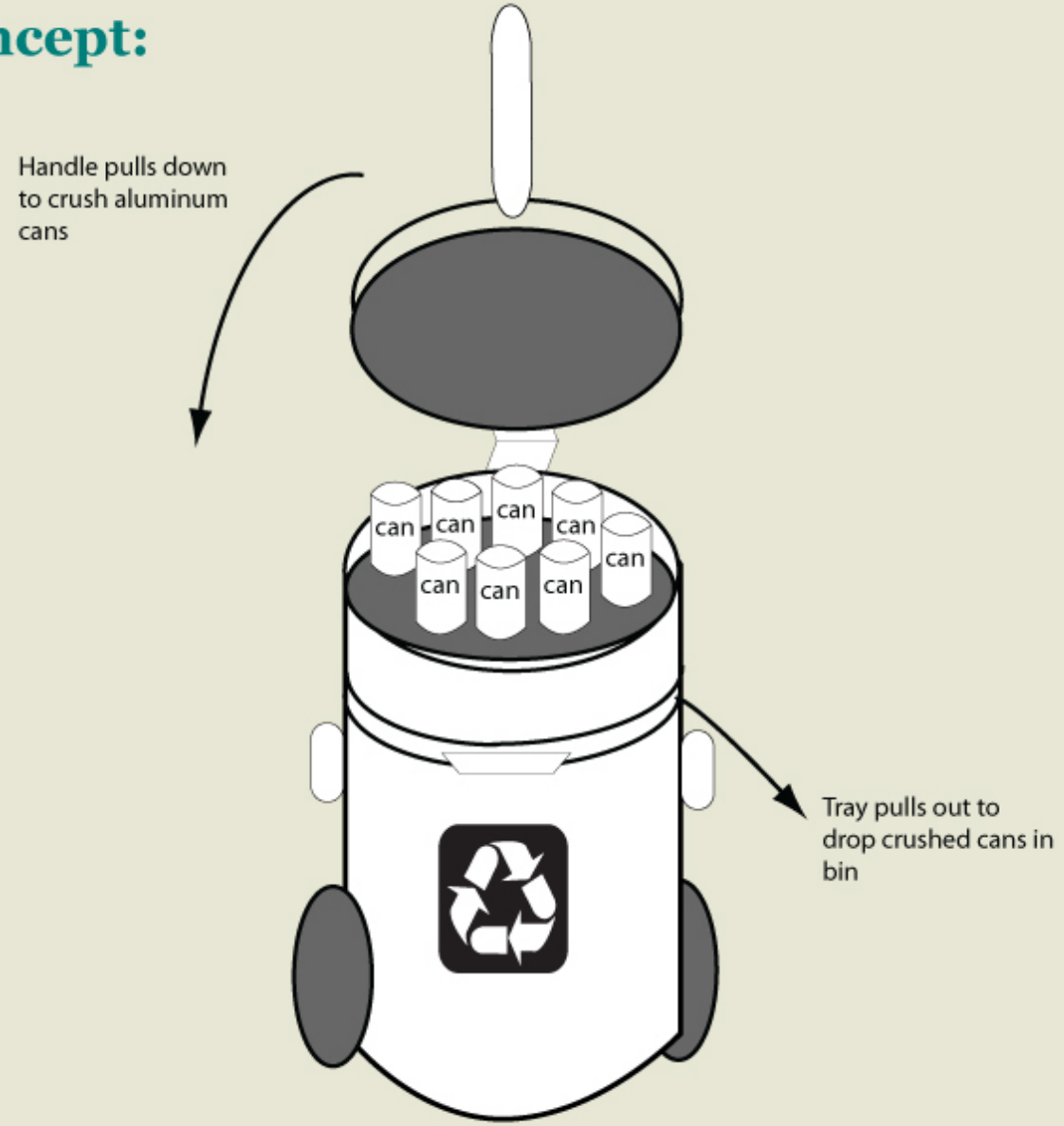
Product Concept:
Can Compactor



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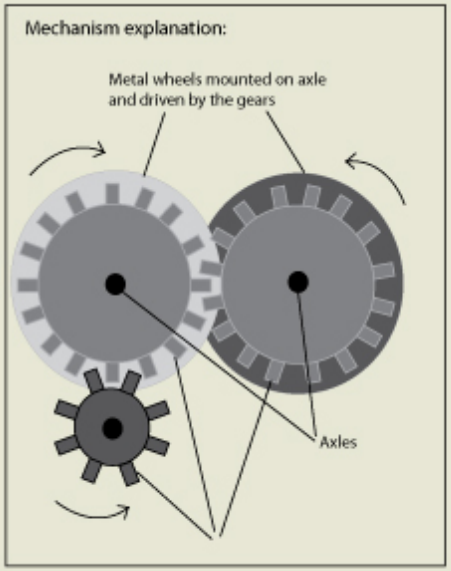
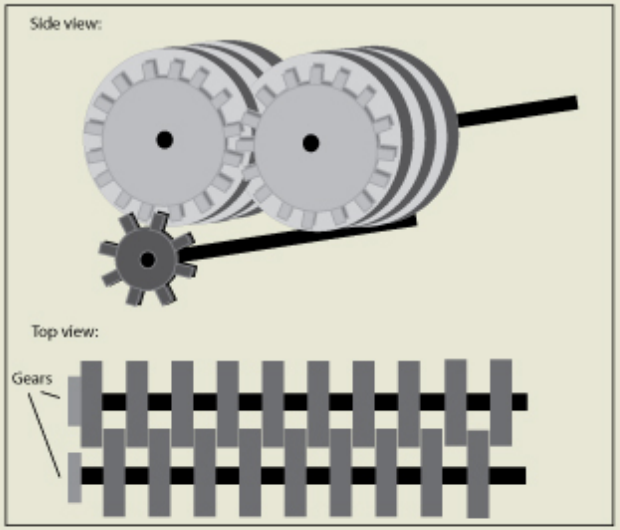
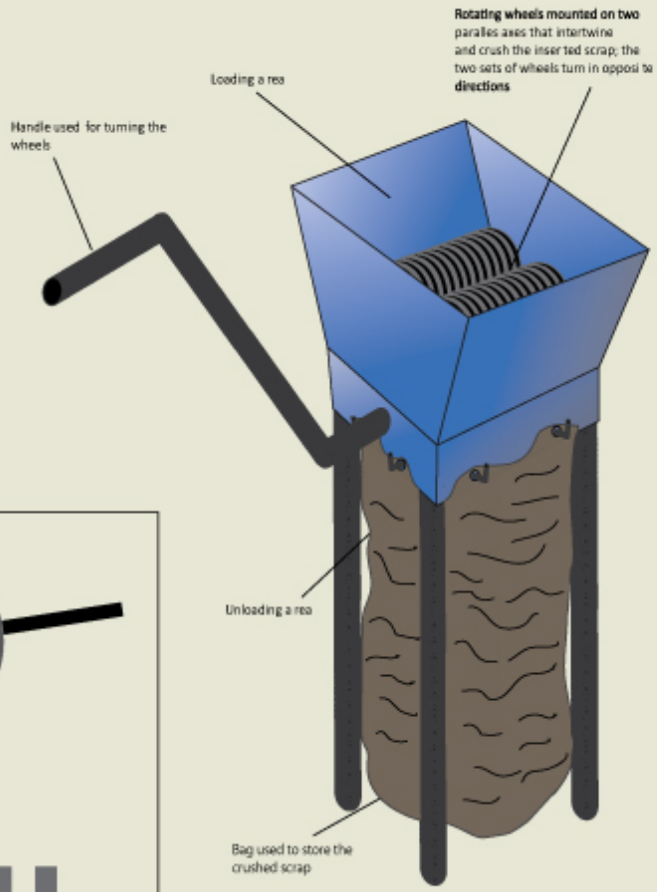
Product Concept:
Scrap Grinder







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