



Understanding the end users' needs



Funded by:



IKEA Foundation



Agenda

- Impact measurement and customer insight
- Understanding the end users an example from Pakistan
- How to understand the end user?



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►Q&A

Webinar feedback survey

Our speakers



- Senic and s - Co-fo

Pranav Sridhar

- Senior Associate at 60 Decibels, helping impact funds, non-profits and social businesses measure and manage their impact.
- Co-founder of OneDay Health, a UN and Queen's Commonwealth recognized network of primary health centres in northern Uganda.
- Master of Management Studies from The Fuqua School of Business and a Bachelors from Shiv Nadar University.



Muhammad Shehryar

- Founder and Managing Director of Harness Energy, a Pakistan based company working on solar products for low-income customers.
- Over 9 years of work experience in the rural economy, focused primarily in the irrigation and energy sectors.
- Studied Economics at Duke University on the Fulbright scholarship



Katherine Owens

- Head of M-KOPA Labs, the dedicated R&D arm of the market-leading connected asset financing company.
- Previously worked at the Environmental Defense Fund where she shaped public policy to advance the emerging clean energy economy and adoption of frontier technologies.
- B.A. in Business Administration from Rhodes College and her M.B.A. from London Business School.



Impact measurement and customer insight

Pranav Sridhar – 60 Decibels

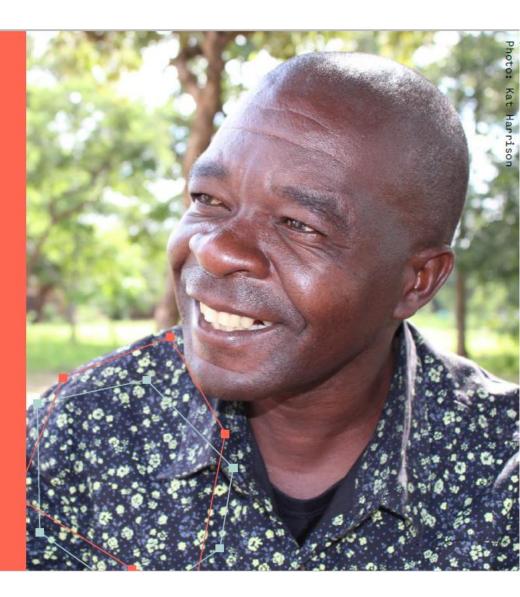


60 Decibels: Impact measurement and customer insight

Efficiency for Access

October, 2020

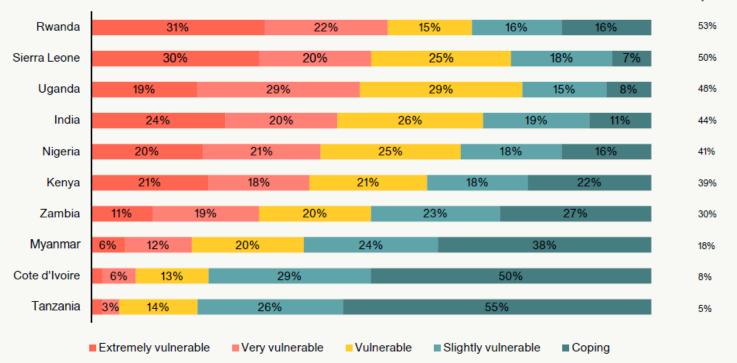
Pranav Sridhar, Senior Associate



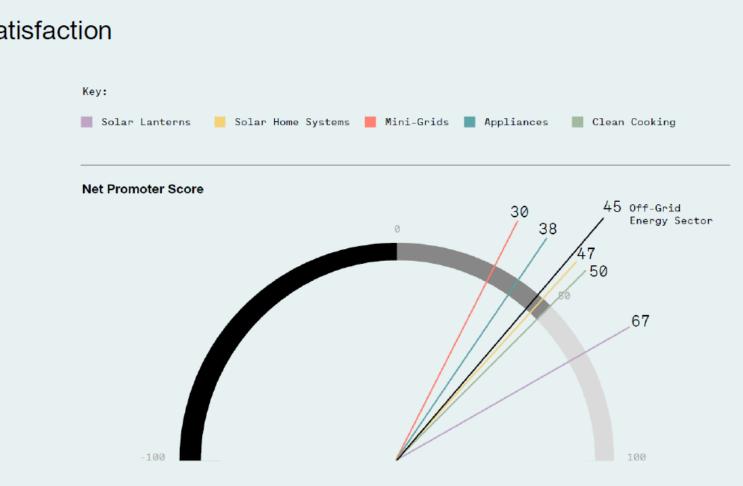
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The Impact of COVID19

Explore the COVID dashboard: <u>http://bit.ly/60dB-Covid</u> And read more about the index: <u>http://bit.ly/COVID-listening</u>



% of customers very or extremely vulnerable



Customer Satisfaction

60_decibels

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"It's a very reliable system that I believe



everyone needs."

60 Decibels

We work with the world's leading impact investors, companies, foundations, corporations, NGOs, and public sector organizations to improve impact performance.

Quick turnaround time, to fit around your decision making

- 700+ trained Lean Data enumerators in 47+ countries speaking 115+ languages.
- Benchmark your impact performance
- Benefit from our expert analysis
- Communicate your impact

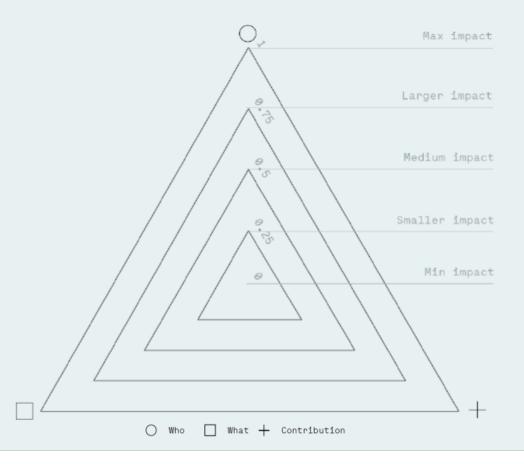
Key Takeaways

"When there is light my house is filled with joy and laughter." - Sierra Leone

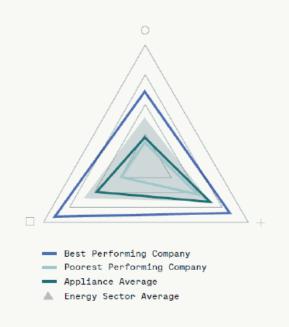
- Energy access is making a positive difference in families' lives.
- First levels of modern energy access are creating the biggest impact.
 - The sector is leaving low-income families behind.
 - Usage challenges are reducing impact and business success.
 - Over-indebtedness is a small but important problem.

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60dB Impact Index



Appliances



○ Who □ What + Contribution

- Solar TVs are reducing stress levels for customers.
- Solar water pumps are increasing farmer incomes through improved productivity.
- Solar powered refrigerators are being used to chill many types of products but also increasing customers' indebtedness.
- Clean cooking companies are the most effective at reaching women.

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Why off-grid energy matters report: http://bit.ly/60dB_energy

COVID insights dashboard:

http://bit.ly/60dB-Covid

NextBillion article: http://bit.ly/COVID-listening Pranav Sridhar Senior Associate 60 Decibels pranav@60decibels.com



Thank you





Understanding the end users – an example from Pakistan

Muhammad Shehryar – Harness Energy



Understanding end users needs

Muhammad Shehryar

Founder and Managing Director, Harness Energy

Product Design

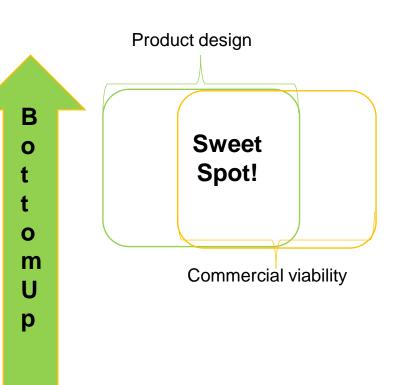
The Challenges!

Product design + innovation and commercial viability usually develop independently. Why?

Why are you designing/developing this product?

Who is the end customer? What do they want?

Understanding the value chain



Successful products

- Existing products that fit customer needs
- New products designed for specific needs
- Affordable products because of Economies of scale



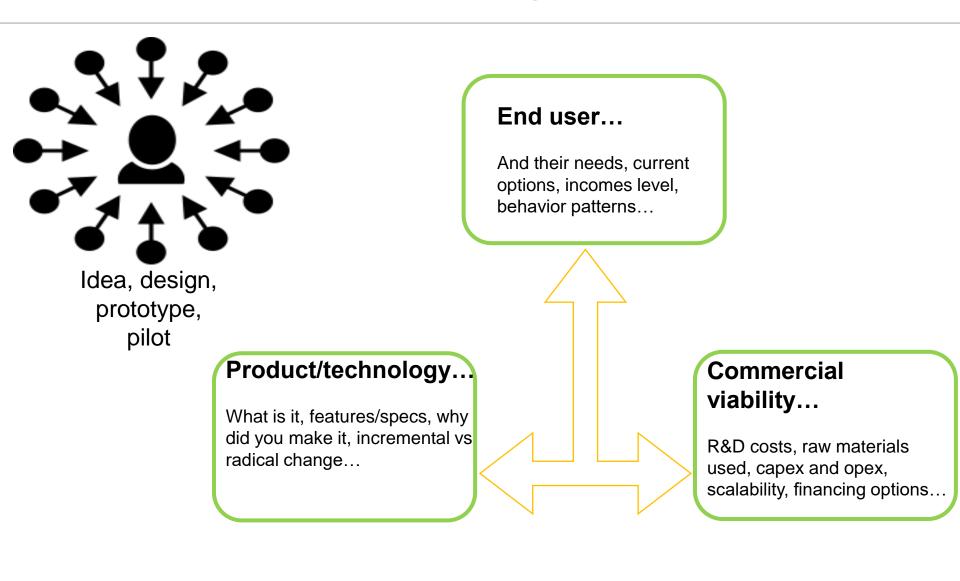
Design challenges can focus on needs like:

- Education
- Energy
- Healthcare
- Connectivity
- Financial inclusion

Experience from the field



Effective user-centered design



Vision

To play a leading role in helping Pakistan achieve SDG 7

Muhammad Shehryar

Founder and Managing Director shehryar@harnessenergy.pk





Thank you





How to understand the end user?

Katherine Owens – M-KOPA Labs



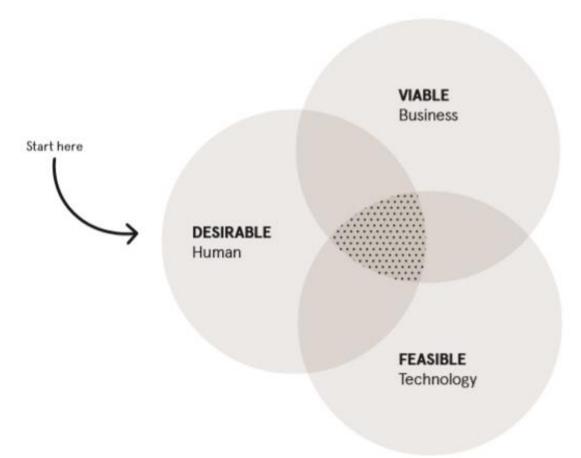


Hello, from M-KOPA Labs

We like to design the right thing, and design it right so customers always love M-KOPA

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WHAT IS R&D ANYWAY?



Listen, Test, Iterate

By iterating, we validate our ideas along the way because we hear from the people we're actually designing for.

> - Gaby Brink, Founder Tomorrow Partners

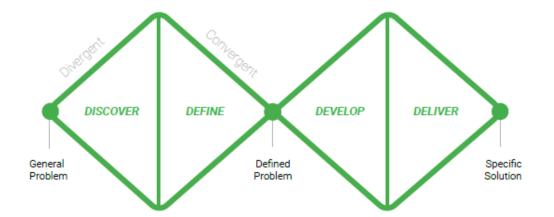
HOW TO UNDERSTAND THE END USER??

Labs' approach to R&D and design thinking entails:

Identifying customer pain points and conceptualising solutions

Developing prototypes to stress test initial hypotheses and technology

Testing those concepts to ensure fit, impact, and scale



PRIDE IN OUR PRODUCTS









Finalist, **Medium TVs** **GLOBAL LEAP** AWARDS

Winner of the **Affordability Prize**





World Changing Ideas of 2020

What will be next?

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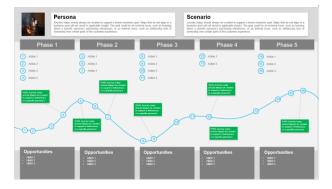
HOW DO WE DESIGN FOR & WITH CUSTOMERS?



HEART

MIND

User Personas



Customer Journey Mapping



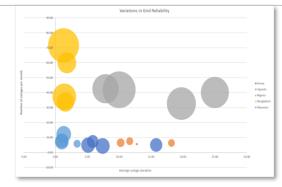
Observations/Games



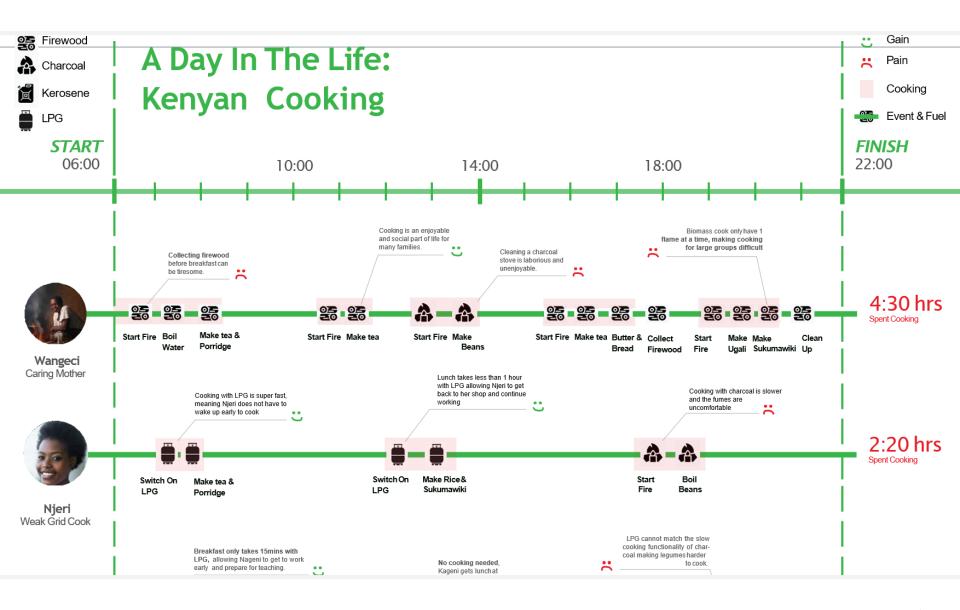
Surveys



Pilots



Segmentation



User/Buyer Persona: Health Conscious

M-K PA SOLAR



Wangeci Caring Mother

Age: 54 Profession: Mother Location: Gongoni, Malindi Solution: Fan-assisted Cookstove

Bio

Wangeci puts her 6 children, 2 daughters-in-laws, 4 grandchildren and husband before herself. Her family is growing and with so many mouths to feed, she spends a lot of time cooking. She wants to cook with cleaner fuels so that the women in her family can build a better livelihoods for themselves.

Views on the eCook...

"I love my children. Food is how I show my love. However, since my first sons have returned home with their families, I am cooking more than usual. My daughters-inlaws and daughters collect firewood and water since they are stronger than me."

"The youngest grandchild joins me in the kitchen sometimes, I have heard her coughing more than usual. I am worried. My husband and son say the doctor is too far."

Cooking Attitudes

Wangeci prioritizes everyone else in her life before herself. She wants them to be happy and be well-fed. She is dutiful but is worried about her grandchildren. She is worried that they could fall ill due to the contact with smoke.

Current Cooking Behaviour

Wangeci cooks for 4 -7 hours everyday depending on if they receive guests or a special occasion. This happens often due to the large family size. She uses firewood (collected), charcoal, and sometimes kerosene to cook but that makes her kitchen black and ugly.

Cooking Preferences

A cleaner, modern and quicker way to cook. She will keep on using firewood since it is easy but wants to cook quicker and smokeless if possible.

Familiarity with M-KOPA

She bought and paid off the MK Classic in 2012 with good speed.

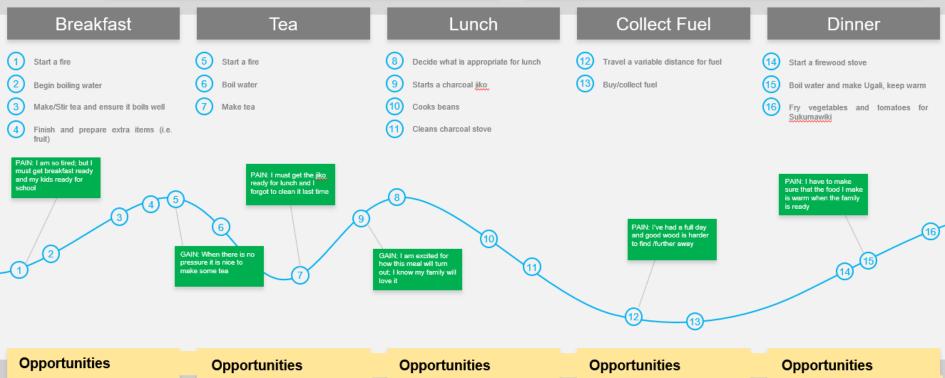


Caring Mother

Biomass cooks often feel like so much of their time is spent collecting fuel which takes a variable amount of time and then cooking as well. This is a duty for them; their time is not seen as the same as others in the household. They understand it is the role that they must play; but with the right value proposition – they embrace a better proposition

A day of cooking

The average day of a biomass cook is largely filled with chores. Cooking forms a considerable amount of effort. Our predominantly rural customers have cooks that endure many hours of cooking and collecting of fuel to the detriment of her health and wellbeing of her family.



- Making breakfast should be easy HMW shorten the amount of time spent preparing breakfast?
- Making breakfast should be easy HMW create solutions that eradicate the cook altogether?
- Every cooking event is a considerable journey, HMW enable quicker standard cooking events like boiling water?
- Cooking can we enjoyable HMW keep the therapeutic, social sides of cooking?
- Cleaning a charcoal stove is not a fun activity and is time-consuming HMW make finishing cooking a fun end to the process?
- Most biomass fuels have to be bought or collected meaning travelling to a market or source HMW eradicate a customer moving for fuel?
- Fuel costs fluctuate based on season HMW remove fuel fluctuations for the customer?
- Biomass cooks often have only one flame at a time which elongates the cooking time for multi-pot recipes HMW shorten this time experience?
- Most cooking is done near mealtime, HMW remove that necessity?

Empathy Map

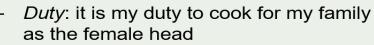
SAYS

- I want "Solar Gas"
- I want a product that cooks fast
- I want a product that saves me money
- It is too expensive to cook with electricity
- Microwaved food gives you cancer

- Aims to maintain a cooking monthly budget, encompassing refills
- Spend up to 4 hours cooking per day
- Spends hours travelling to collect or buy fuel in groups/family
- Has control over most cooking related items/services

THINKS

- How can I spend less time collecting or buying fuel?
- How can the sun be used to power my cooking?
- How can M-KOPA make cooking PAYG?
- If it fits in the cooking budget it's easier to make the change



- Pride: the food needs to taste good
- *Care*: the best way to care for my family is to cook for them
- Concern: will changing my cooking tools impair my ability to feed/care for my family

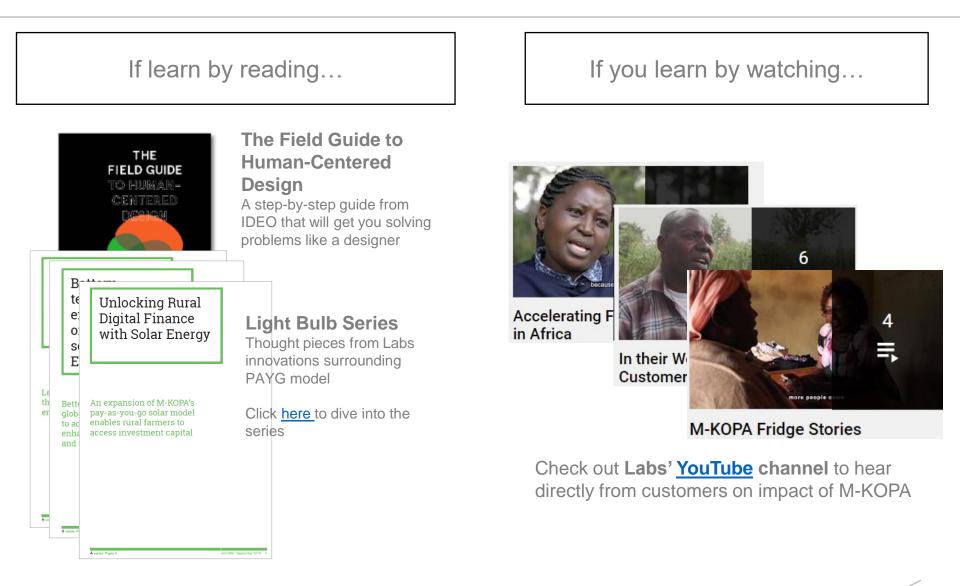
DOES

FEELS



Rural Cook

IN CASE YOU'RE CURIOUS FOR MORE...























Thank you





Q&A





Short feedback survey



