



Premise Overview

- The Premise Platformis remote data collection and analytics software that includes access to a network of 2.2 million data collectors in 100+ countries
- Premise **is for** international development organizations and governments that conduct **assessments**, **monitoring and evaluation**
- Unlike traditional field research methods, Premise integrates the people who collect the data, the process for managing collection, and the data analysis into a single software solution that works in real-time
- Unlike alternative data approaches (social media monitoring, satellite imagery, etc.), Premise provides large scale data collection specific to your needs at a price the average policy program can afford



Who is Premise

- Venture-funded technology company headquartered in San Francisco, CA. Public Sector division based in Washington, DC.
- Raised \$86 million in venture capital from renowned Silicon Valley investment firms
- 10 contracts with USAID missions and bureaus
- 20+international development clients
- International development work complements strong Global 1,000 business client base
- Deloitte Fast 500 List Rank 182 on list of fastest growing technology companies in the US

Clients





















IHME



Investors





SOCIALCAPITAL

ANDREESSEN **HOROWITZ**

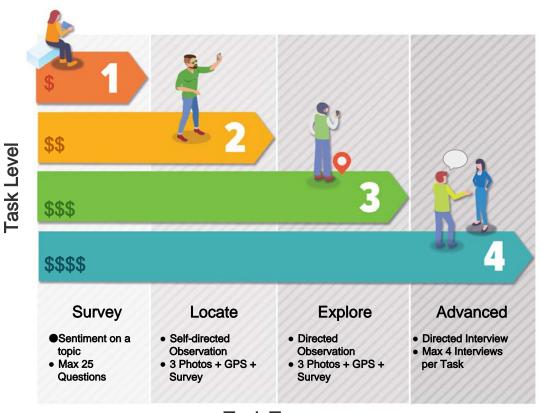


Who are Premise's Contributors?

Local Citizens Paid per Completed Data Collection Task

- Anyone can be a Premise Contributor
- Must own their own smartphone
- Contributors earn money by taking surveys and sharing local information
- Contributors are paid for each task they complete
- Contributors receive payments by connecting their mobile money account to the Premise app

Contributor Capabilities | Data Collection



Sample Tasks



Tracking and ad hoc surveys on key topics



Mapping points of interest in areas with poor geospatial data

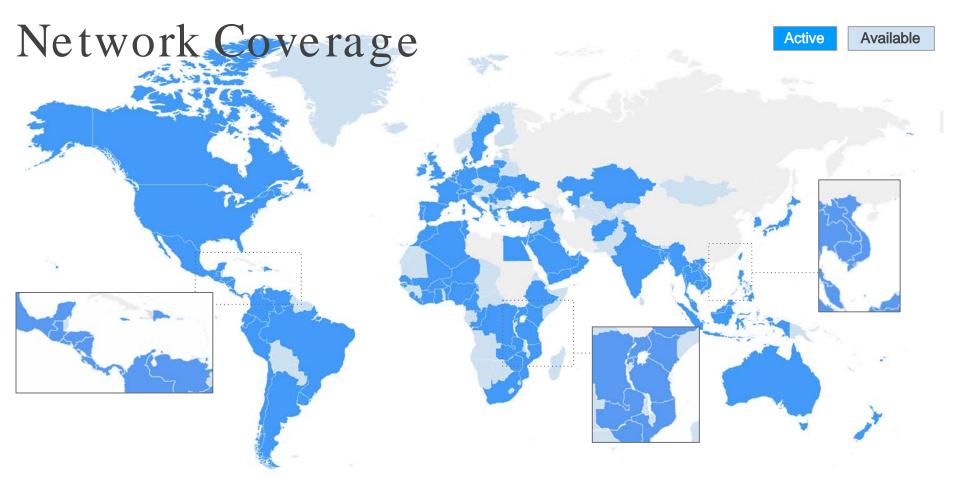


Product and price data collection



Household and key stakeholder interviews

Task Type



Reference Premise Network Coverage Letter (Nov 2020) for full details





Project Aim

- Crowdsource product data about air conditioners (AC) and refrigerators available in retail stores (large and small) in Indonesia, Thailand and Vietnam to understand the depth and distribution of available products by brands, types, pricing, availability of energy efficiency labels in each country.
- Ultimately, use the data to draft better recommendations and policymaking around energy efficiency in the region.









Sample sizes vs total data collected

Initial targets:

	Thailand	Indonesia	Vietnam	Total
Air Conditioners	1,500	1,500	1,500	4,500
Refrigerators	1,500	-	1,500	3,000
Total	3,000	1,500	3,000	7,500

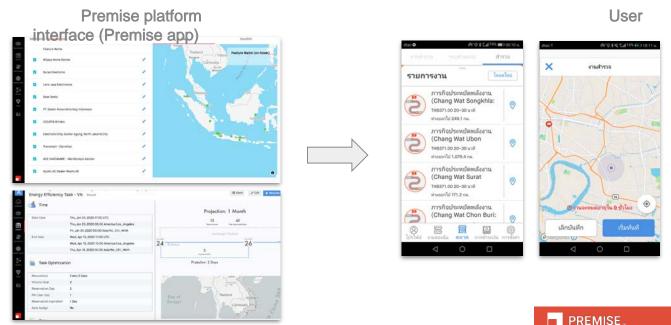
Final data collection:

	Thailand	Indonesia	Vietnam	Total
Air Conditioners	1,647	1,596	1,710	4,953
Refrigerators	1,863	-	1,849	3,712
Total	3,510	1,596	3,559	8,665



Premise approach

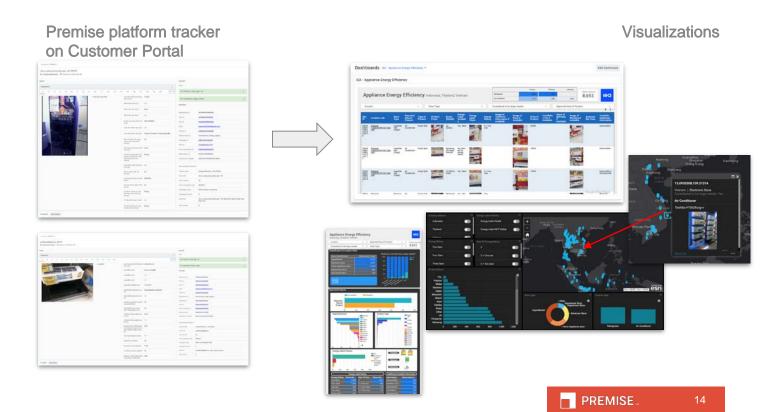
Leverage product identification templates from other customers to build a suite of tasks for contributors in Indonesia, Thailand, and Vietnam, to identify consumer-available information on air conditioners and refrigerators pertaining to energy efficiency, technical information, purchase price, physical data and features.





Premise approach

Data delivered through off the shelf and custom visualizations including a product catalogue, maps, and charts. OCR was used to extract key data from labels.





Product Type

Air Conditioners	Thailand	Indonesia	Vietnam	Total
Single-Split	1,595	1,439	1,707	4,741
Multi-Split	8	74	1	83
Window or Wall Unit	37	50	1	88
Portable	7	33	1	41
Total	1,647	1,596	1,710	4,953

Refrigerators	Thailand	Indonesia	Vietnam	Total
Refrigerator-Freezer: Top freezer	1,144		846	1,990
Refrigerator-Freezer: Bottom freezer	299	-	798	1,097
Refrigerator: One Door (with internal icebox)	261		11	272
Refrigerator-Freezer: Side-by-side	69	-	66	135
Refrigerator-Freezer: French door	30	-	51	81
Refrigerator: Compact (mini-fridge)	41	3	28	69
Freezer: Chest Freezer	7	-	39	46
Refrigerator: One door (no icebox)	11	-	4	15
Freezer: Upright Freezer (no fridge)	1		6	7
Total	1,863	-	1,849	3,712



Energy label Compliance

Most products identified in all countries and across categories appeared to include an official energy label. There was a higher compliance rate among refrigerators than air conditioners.

Air Conditioner	Thailand	Indonesia	Vietnam
Official Label	82%	83%	86%
Different Label	11%	4%	0%
None	7%	13%	14%

Refrigerator	Thailand	Vietnam	
Official Label	91%	92%	
Different Label	6%	0%	
None	3%	8%	







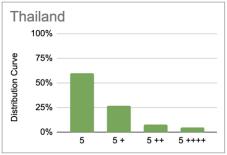
Energy label availability by brand

Air Conditioners	Thailand	Indonesia	Vietnam
Samsung	38%	13%	-
Panasonic	15%	4%	3%
Haier	14%	2%	-
LG	9%	15%	39%
Sharp	1%	2%	6%
Mitsubishi	5%	1%	0%
Electrolux	1%	4%	8%
Daikin	11%	17%	28%
Toshiba	-	0%	4%
Midea	-	12%	-
Polytron	-	6%	-
Other	5%	24%	12%
Total	100%	100%	100%

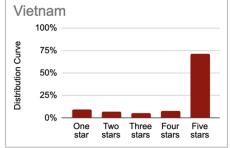
Refrigerators	Thailand	Vietnam
Samsung	40%	50%
Toshiba	10%	31%
LG	5%	8%
Panasonic	2%	6%
Sharp	7%	3%
Hitachi	3%	0%
Others	33%	2%

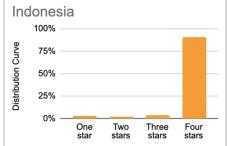


Energy rating analysis



Smooth distribution, exponentially winnowing.





Tight distributions where most of the population is contained within the highest ranks.



Additional data point

- Price information
- Refrigerant type
- Store type
- Some information from the technical plate



Conclusions

- Method is useful for compliance able to get photos of labels
- Price Information
- General product information