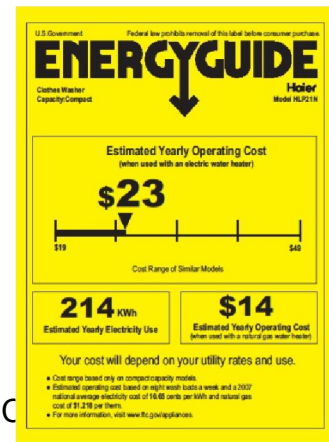
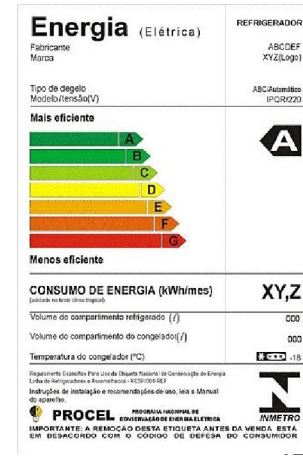
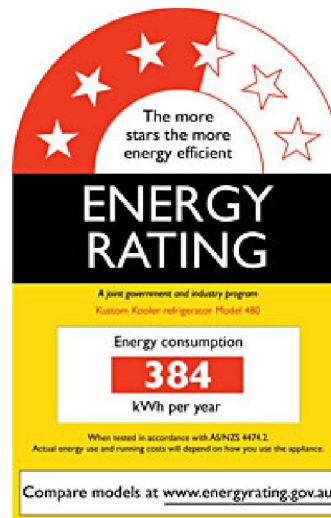
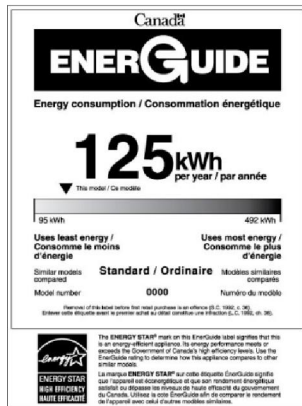
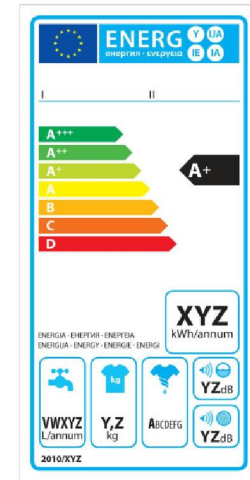
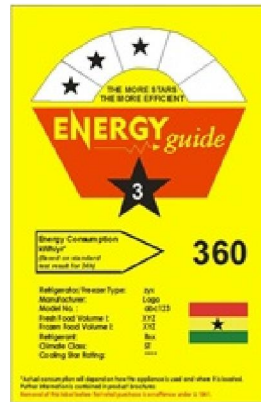
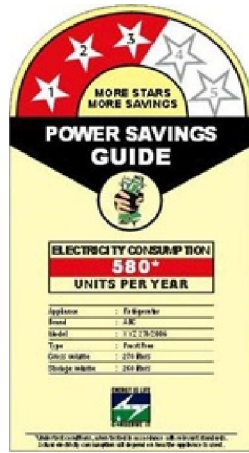




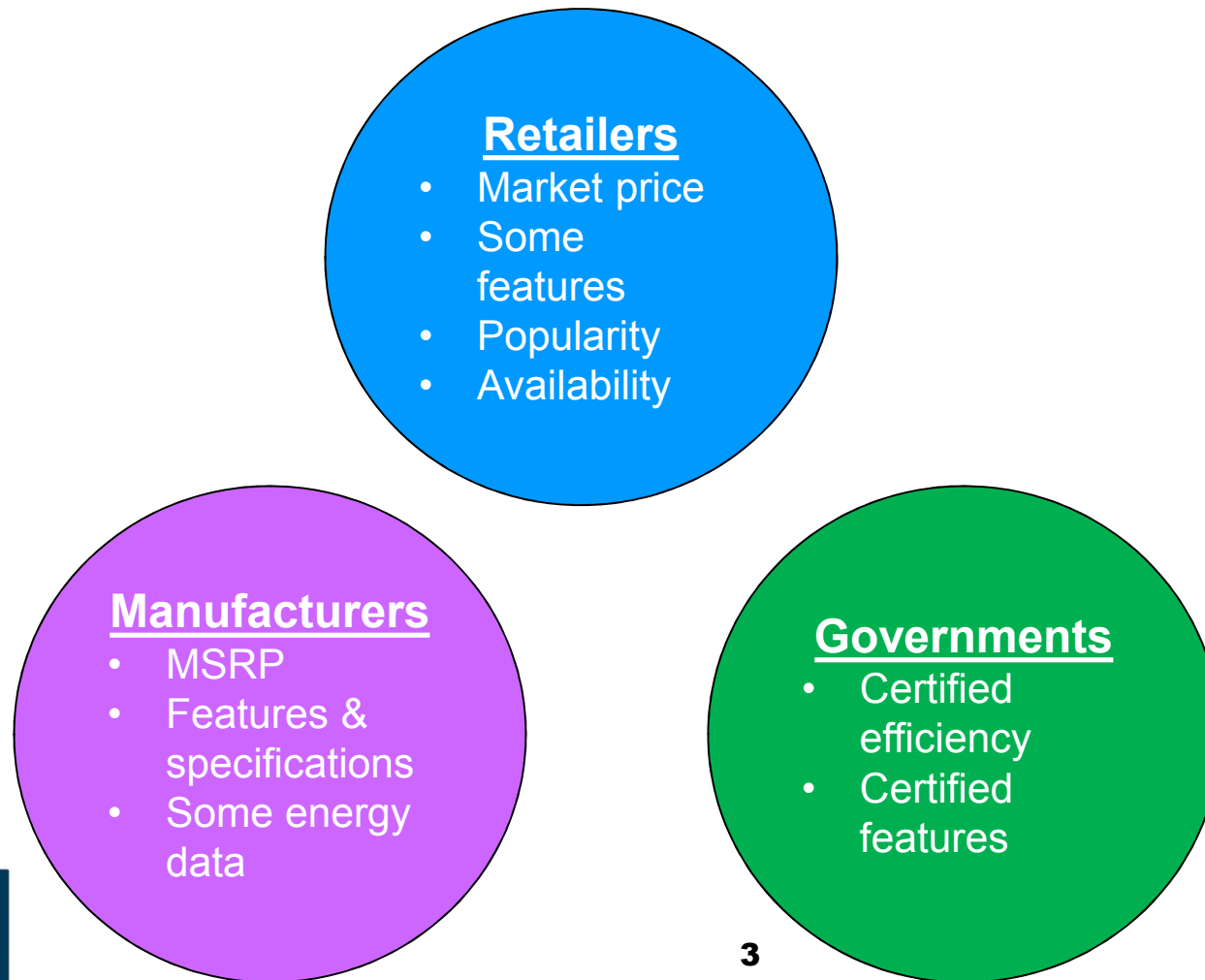
International Database of Efficient Appliances (IDEA): A Novel Tool for Efficiency Program Development and Evaluation

Brian F. Gerke,
Lawrence Berkeley National Laboratory
2015 IEPEC Conference — Long Beach, California

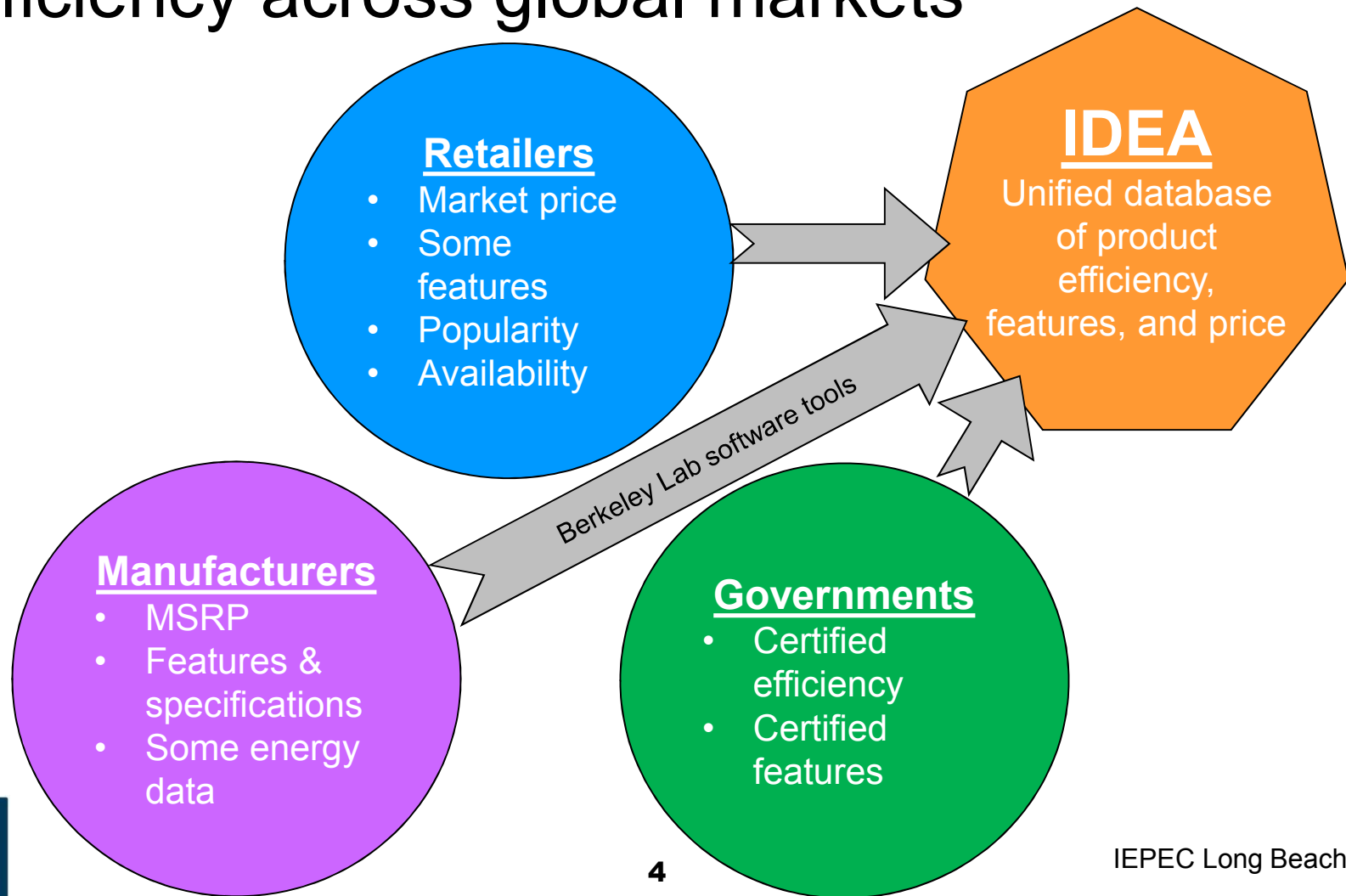
Appliance efficiency standards & labeling (S&L) programs are an important part of many nations' energy policy portfolios.



Product-level data for developing and evaluating S&L programs is available online, but it is scattered and disjoint.



IDEA draws together public data sources to create a unified database of appliance efficiency across global markets



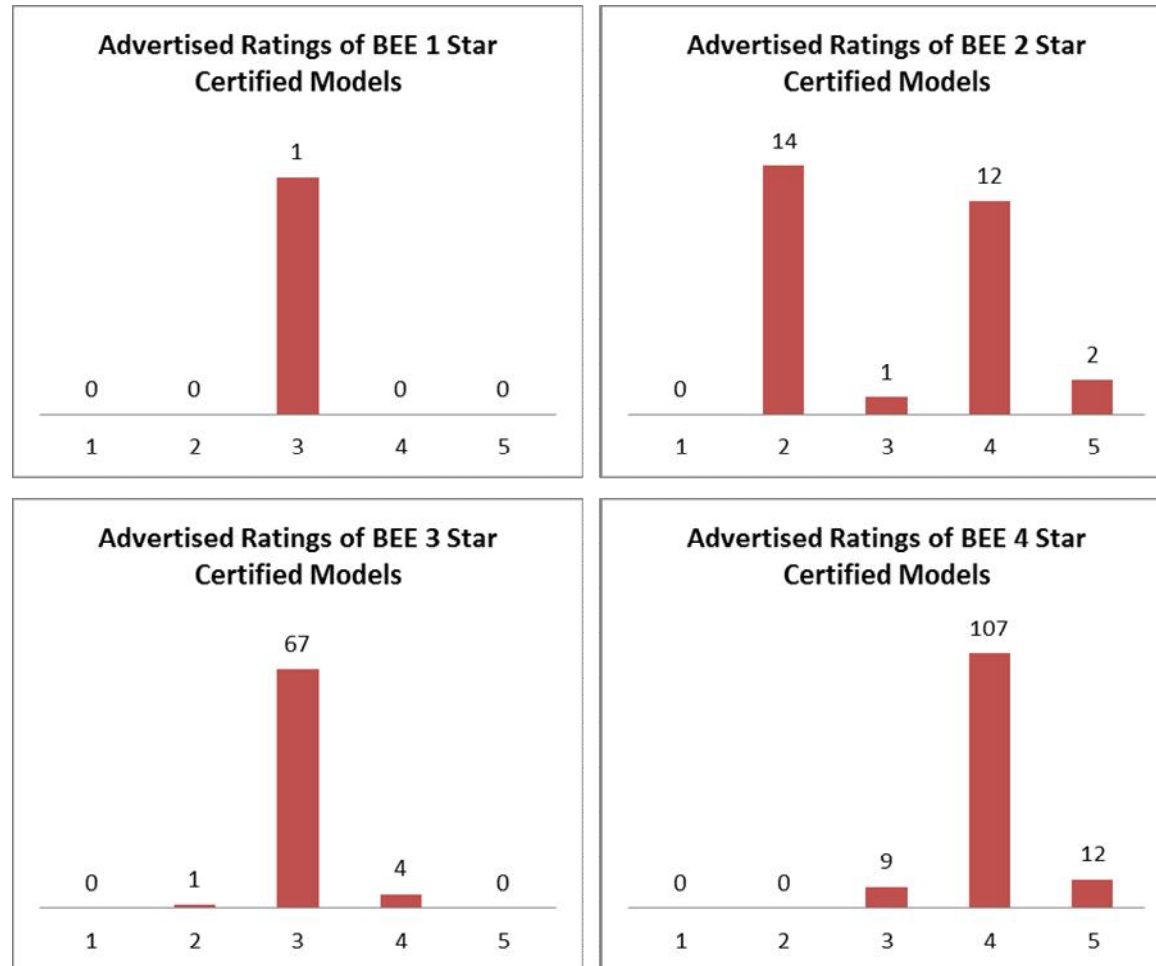
IDEA eliminates barriers to analysis and enables rapid assessment of policy impacts within and across markets.

- Identifies and combines identical products within markets.
- Standardizes the names of data fields (e.g., “volume” vs. “capacity”).
- Cross-references against government certification records (even when generalized to represent multiple products per record).
- Identifies identical products across different markets.
- Regular (and frequent) data updates are easy to perform.
- Archives *all* data that may be of interest (not just for today’s analysis), to enable future retrospective analyses.
- IDEA’s flexible data framework can be applied to *any* energy-consuming product.

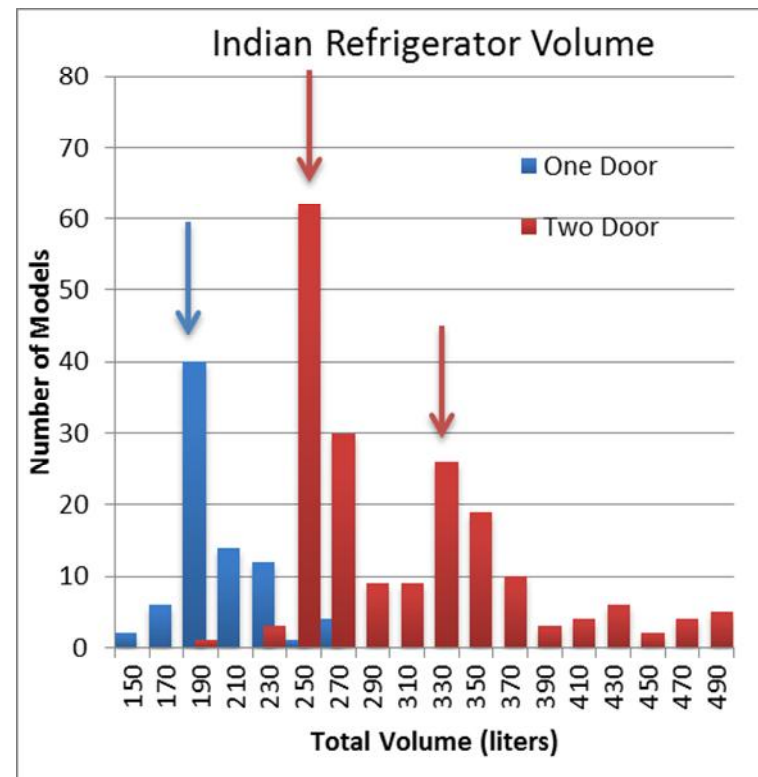
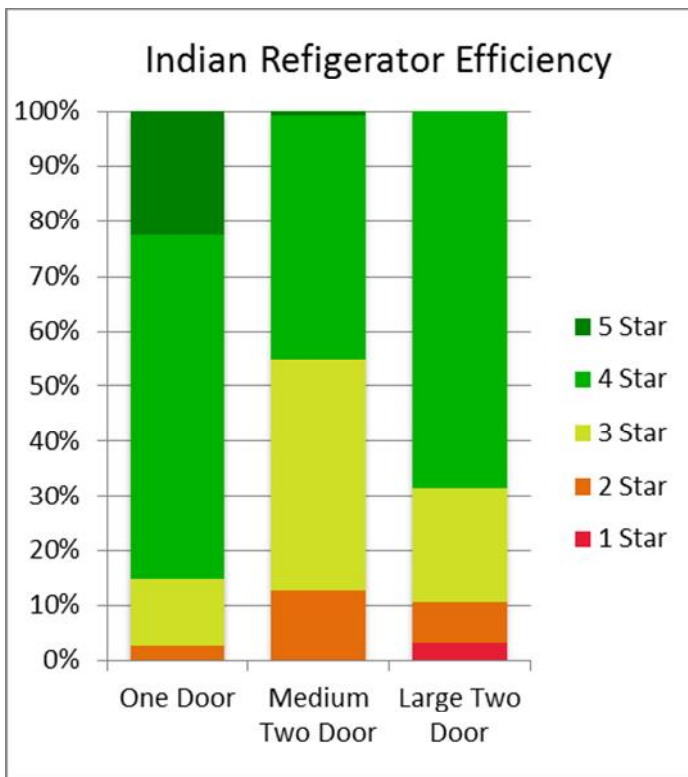
IDEA has a wide variety of applications in S&L program evaluation and design.

- International efficiency indicators and benchmarking.
- Tracking of price and efficiency trends.
- Evaluation of program impacts within markets.
- Evaluation of cross-market program impacts.
- Market monitoring for program-compliance verification.
- Determining efficiency baselines and distributions within markets.
- Estimating the present day potential for cost-effective energy savings.
- Leveraging large-nation S&L programs for small importer nations.
- Sourcing ultra-efficient appliances for developing world applications.

Initial IDEA data indicates possible “star-rating inflation” in the Indian refrigerator market.

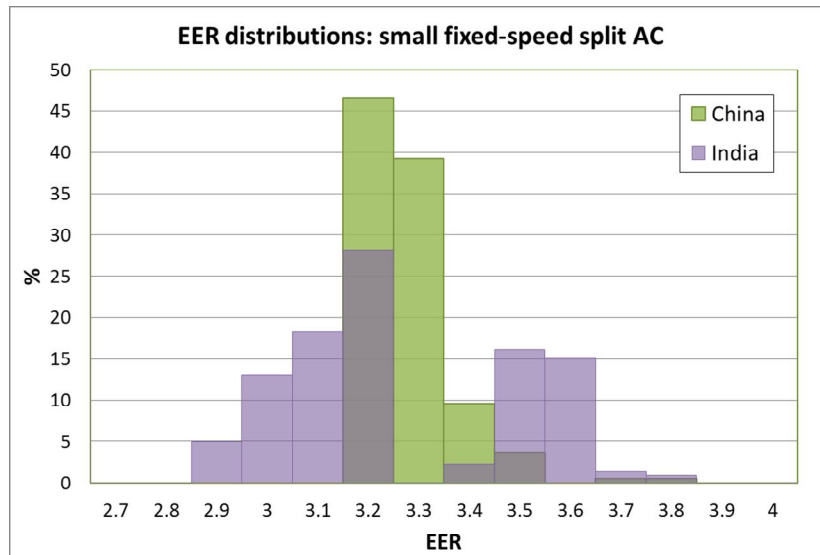


IDEA allows determination of typical product efficiency levels and features, and their distributions.

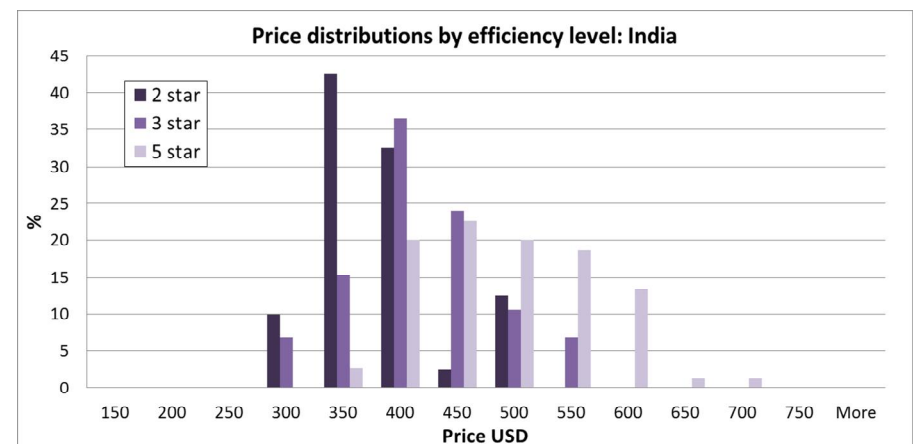
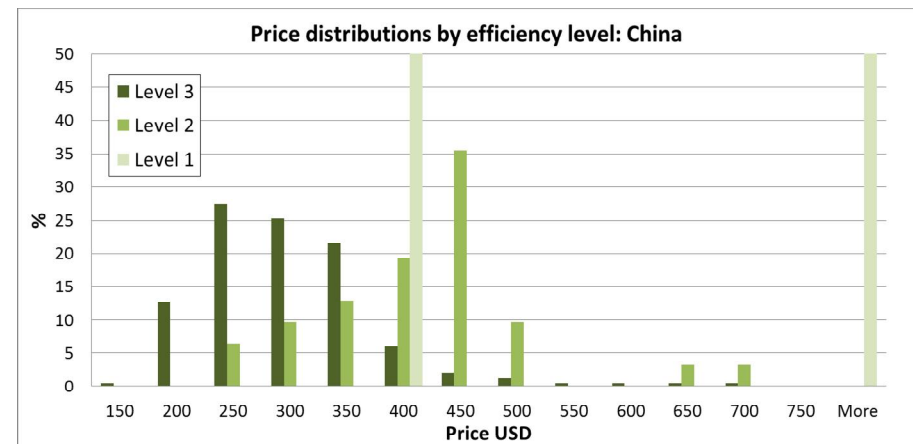


IDEA enables real-time benchmarking and cross-market comparison.

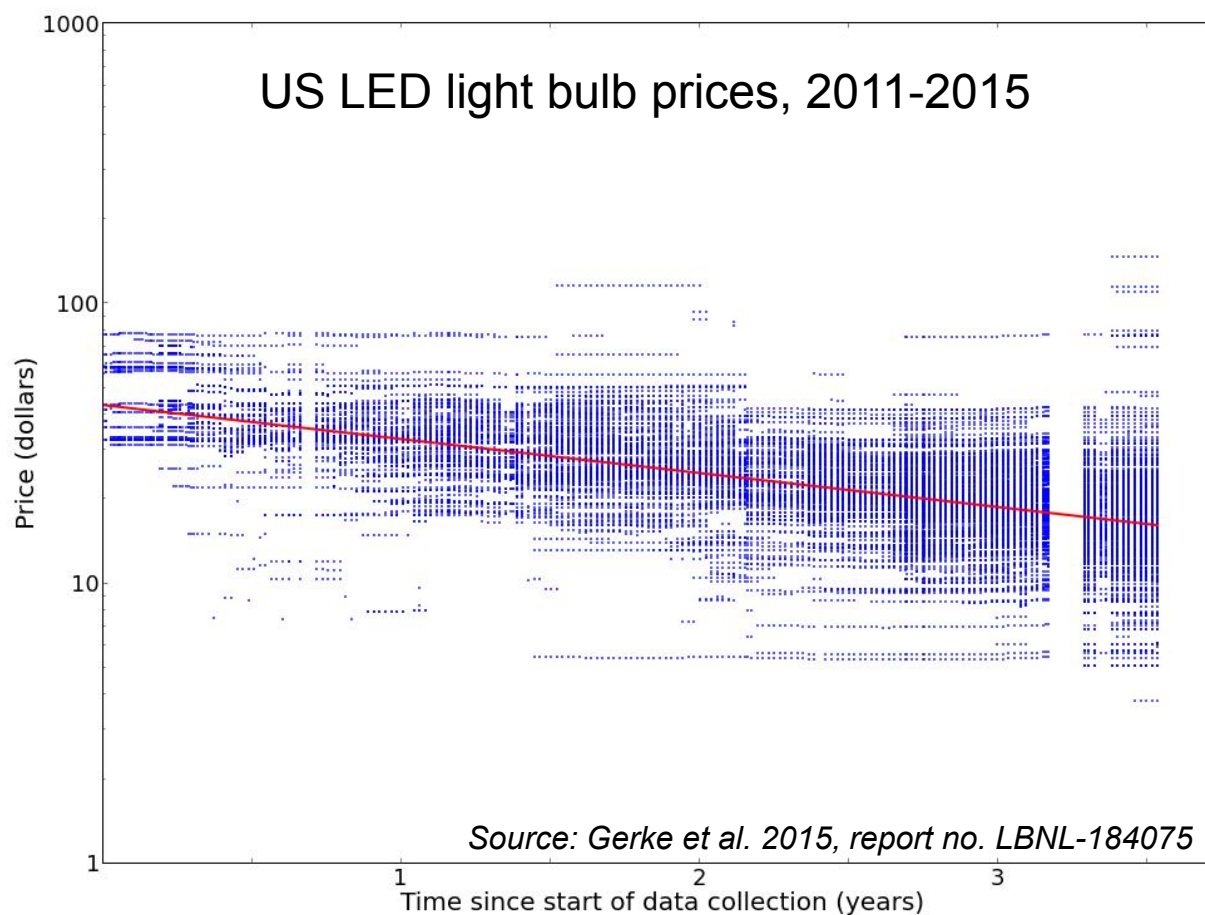
China efficiency labels



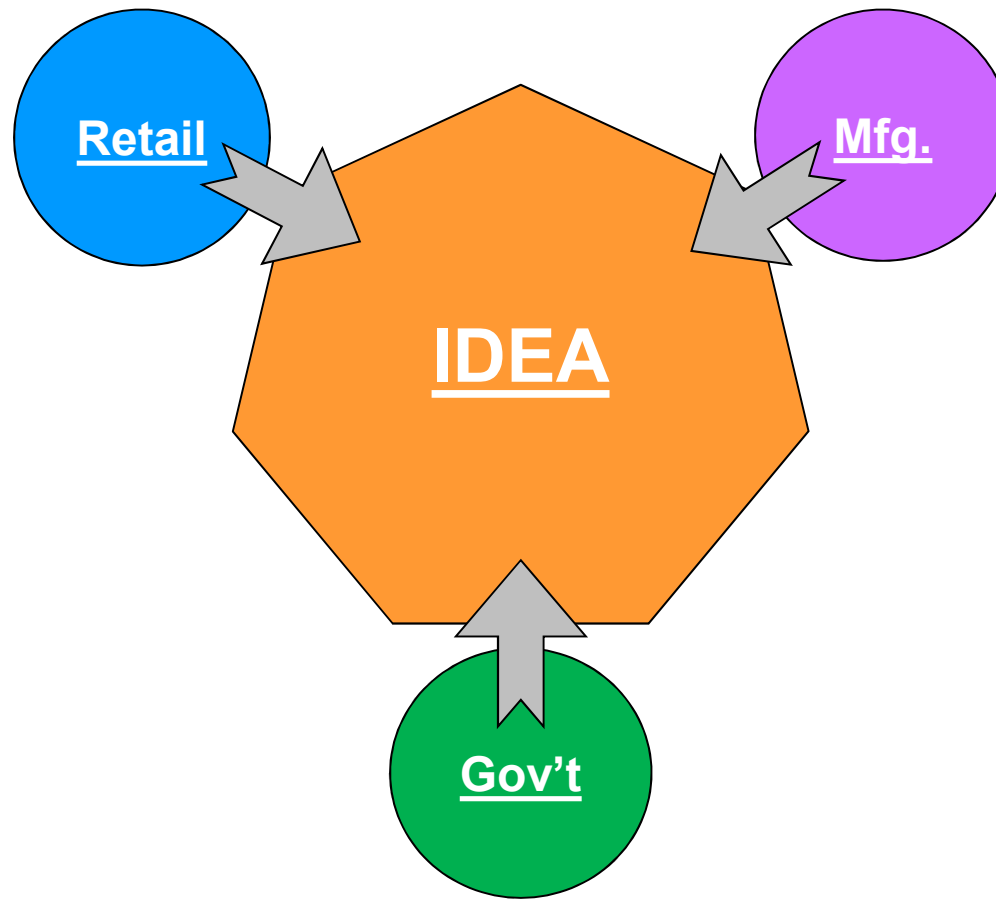
India efficiency labels



Regular updates make IDEA a powerful tool for tracking market trends.



Questions?



An IDEA prototype exists and is collecting data in several countries.

141 total. Show: 10 25 100 all

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<input type="checkbox"/>	1210	Samsung	RT54H6679SL/TL	Samsung RT54H6679SL/TL Frost-free Double-door Refrigerator (528 Ltrs, 3 Star Rating, ...	Link	03/27/2015 11:16 a.m.	65500.00	INR	1047.86
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