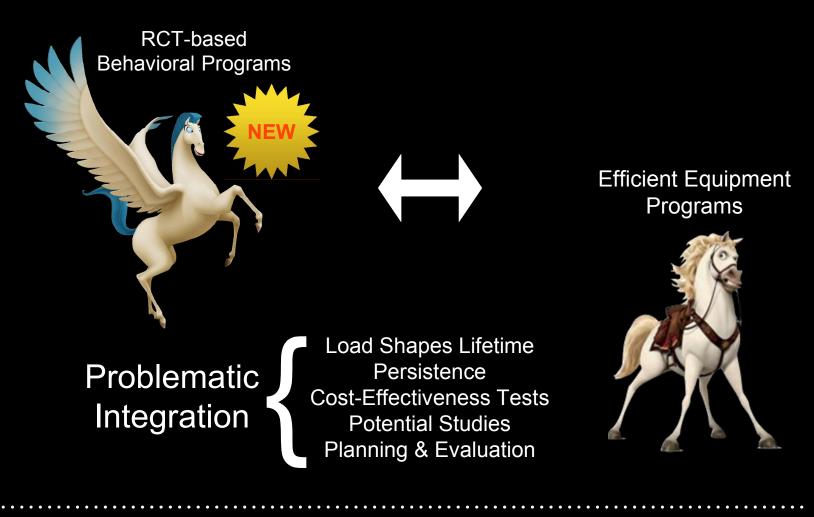
The REAL Problem with Behavioral Savings

and what we can do about it



Familiar Challenges with Behavioral Savings...



But, the *REAL* problem is more fundamental...



The REAL Problem with Behavioral Savings

Not as behavioral as we think



Exposes a bit of a rift...

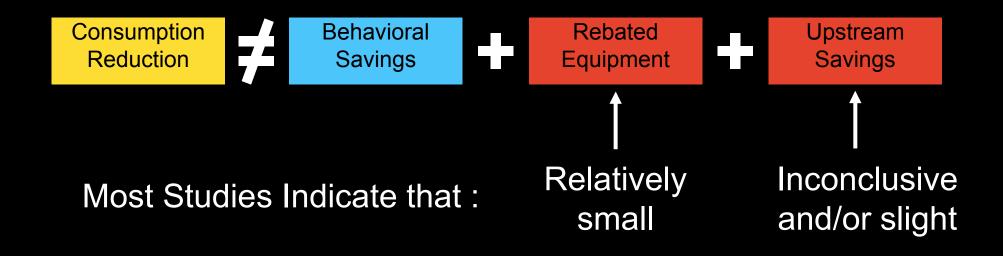


... and a real opportunity





Behavioral? Let's do the math...



Behavioral Savings



Consumption Reduction



Rebated Reductions

Subtracting the savings from non-behavioral programs doesn't render HER consumption reductions "behavioral"

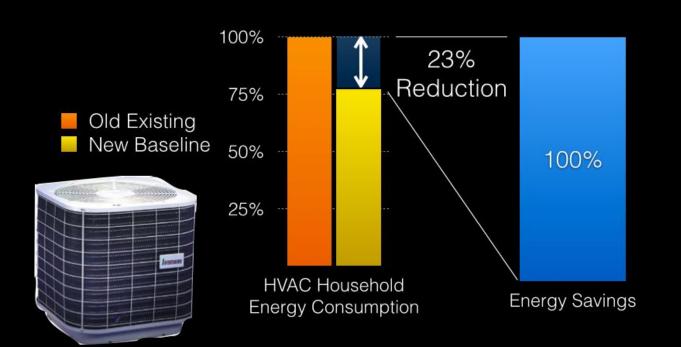


Not as behavioral as we think #1

"Small" size of savings from rebate program participation:

But...

1. They don't include **out-of-program** savings



Baseline Savings (No Program Savings)

?x Deemed Savings

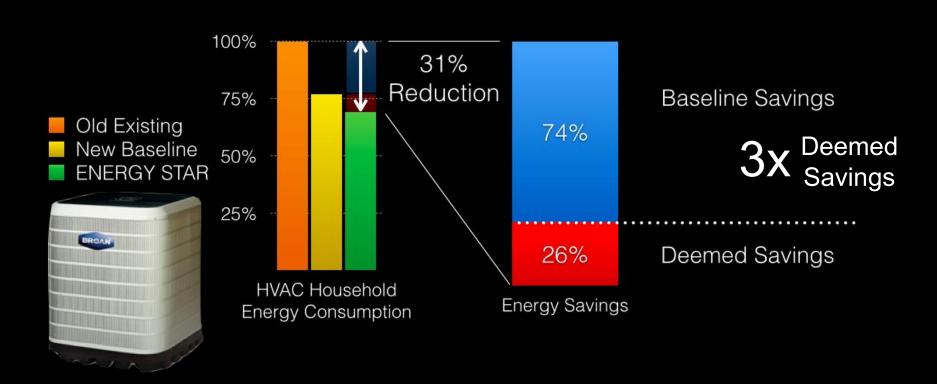


Not as behavioral as we think #2

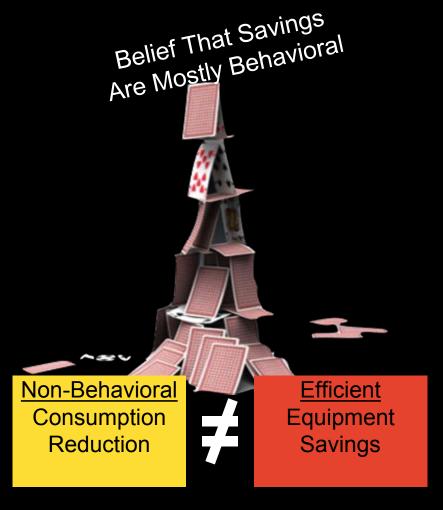
"Small" size of savings from rebate program participation:

And...

2. Program savings typically exclude baseline savings







OPINION: It really doesn't help that we've named them "Behavioral" Programs

FACT: Utility savings claims drive most study designs and data availability

Flawed Assumptions Underpin Much of Conventional Understanding About Behavioral Program Savings



Support From Existing Studies:

"Remarkably, consumers do not fully habituate: they still respond substantially if treatment is continued after two years"

The Short-Run and Long-Run Effects of Behavioral Interventions (2013, Alcott & Rogers)

"10% of measured savings was due to participation in other programs"

Puget Sound Energy HERs Program: Three-year Impact, Behavioral and Process Evaluation (2012, KEMA)

"About **one-quarter of 2013 HERs** savings due to CFL uptake by treatment group"

Neighbor Comparison Reports Produce Savings, but HOW? (2014, PG&E)

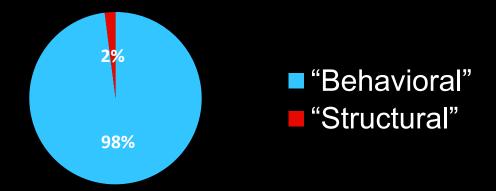
"structural changes accounted for approximately **40**% of savings"

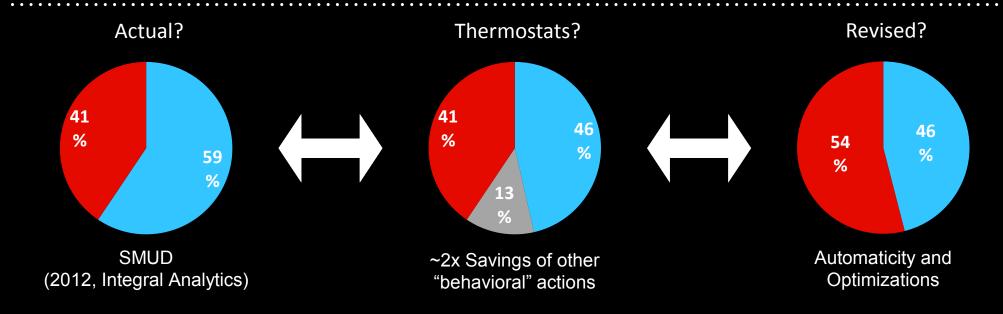
SMUD - Home Energy Report Evaluation PY 2008 - 2011 (2012, Integral Analytics)

Clues from the literature: Lengthy Persistence; Non-Trivial Structural Savings



Conventional Understanding

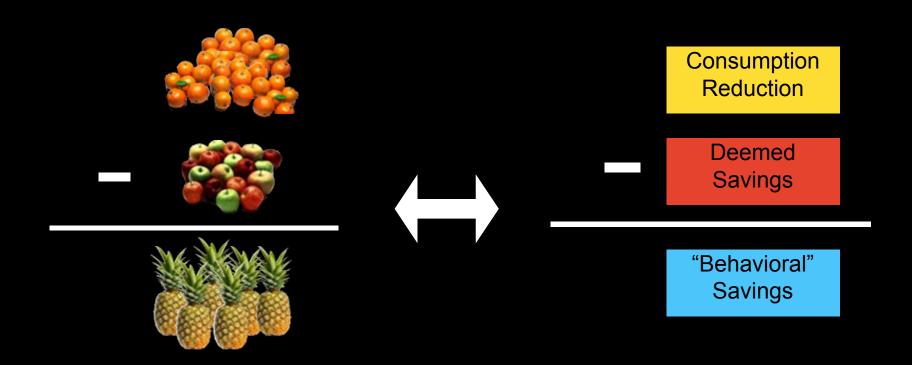




Soon, the bulk of behavioral savings could perhaps be considered "structural"



Business As Usual: Does Not Compute



Why? Because Deemed Savings Exclude a Significant Amount of Non-Behavioral Consumption Reductions (Out-Of Program & Baseline Savings)



Three Keys to Unlock Opportunity

Our understanding of "behavioral" programs may need some serious revision...



...with potentially significant impacts

Realize that **we know more than we think** about the constituency of "behavioral" savings...

Explore how to use structural data sources (AMI, Connected, etc.) to shine more light into the black box of "behavioral" savings results, evaluation, potential, planning and implementation.



Discard dichotomous thinking to better **Develop**Fully-Integrated, Highly Effective Approaches...





Thank you!

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