



CADMUS



Segmenting a Market Segment: New Ideas for Capturing Multi-Family Energy Savings

Linda Dethman and Eric Rambo

BECC Conference, November 13, 2012



Genesis

- California's Statewide Multi-Family Energy Efficiency Rebate Program evaluation
- Combined quantitative and qualitative approaches
 - Literature, census data, RASS, program materials review
 - 6 Focus groups with buildings owners/managers (n = 53)
 - 16 Interviews with staff and implementers
 - Interviews with 9 of California's largest property operators
 - Survey of program participants (n = 210)
 - General population survey (n=360, akAB analysis)

CADMUS



Special Thanks

- Eric Rambo, Cadmus
- Caroline Chen, SCE
- Andy Fessel, PG&E
- Jane Peters, Research Into Action
- Kathy Randazzo, Opinion Dynamics Corporation



Today's Talk

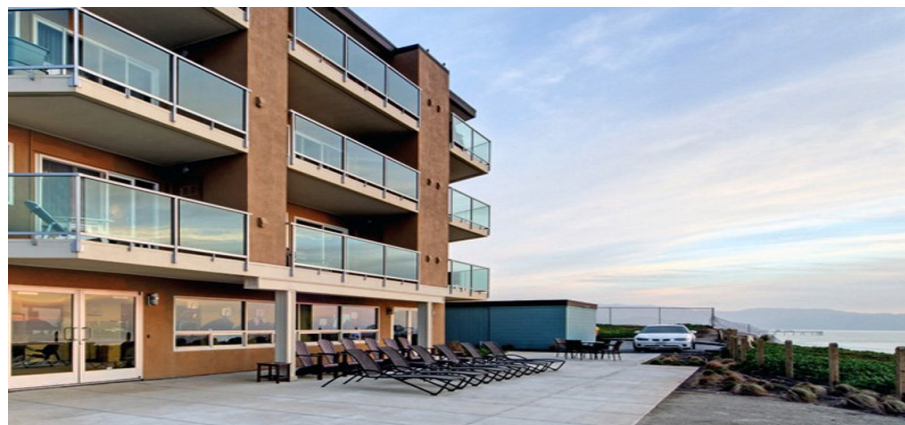
- What is the Multi-Family “sector”
- Some tools to deconstruct the sector
 - Market characterization
 - Social psychological underpinnings of decisions (akAB)
 - Relationships between akAB and business characteristics



The Multifamily “Sector”

“Energy efficiency improvements of 15% for electricity and 30% for natural gas would create annual utility bill savings of \$3.4 billion for the multi-family sector nationwide.”

- *Engaging as Partners in Energy Efficiency, CNT Energy and ACEEE, 2012*

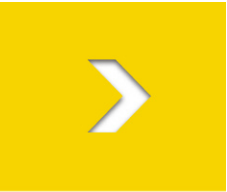




“Sector” Highlights

- Notoriously hard to reach
- Both residential and commercial audiences
- Heterogeneous
 - Mom and pop to large corporations
 - 4 units on the ocean to thousand-unit campuses
 - Subsidized housing to luxury homes
 - Retrofits – normal to historic requirements
 - Diverse motivations, priorities, decision-making
- All want to “keep tenants happy”
- All feel brunt of rising utility costs (water, energy)

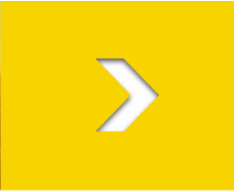
CADMUS





Market Characterization: Some Questions to Ask

- Are the savings there?
- What are useful MF sub-segments to understand?
- Who to target and how?



Are the Savings There?

In California:
8,500,000 MWh
consumed in units

Does not include
common areas

PLENTY

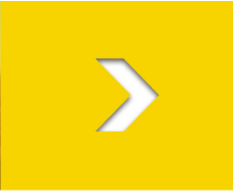


Who to Target?

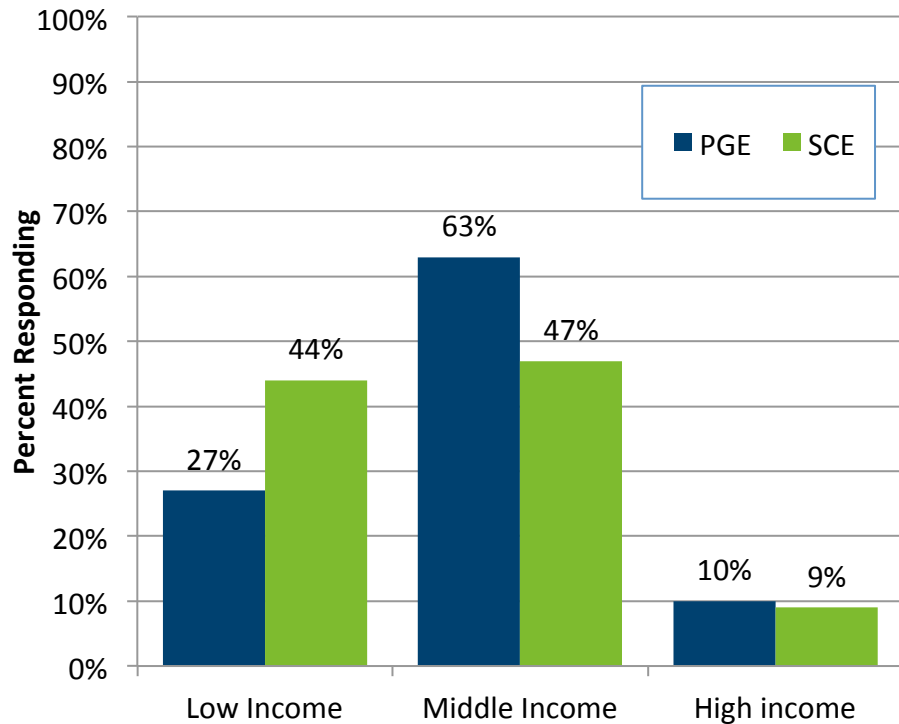
PG&E: 46% of units housed in 9% of properties

SCE: 54% of units housed in 14% of properties

Efficient to target fewer but larger property owners



Tenant Incomes Influence Owner Perspectives



- **Low:** Safety, protect/grow investment, may be green oriented
- **Medium:** Keep tenants happy, reduce problems, increase rents
- **High:** ROI and curb appeal



Insights: Market Characterization

- Target big property owners
 - Top-down and bottom-up approaches needed
 - Support internal green policy building
 - Peer influence, market leadership
- Vary approaches and messages for audiences
 - For owners: lead conversation with “benefits” and “ROI”
 - For property managers: lead with aesthetics, low maintenance, few complaints
 - Big operators want/expect personal attention
 - Tenant income may also flavor messaging



akAB Segmentation

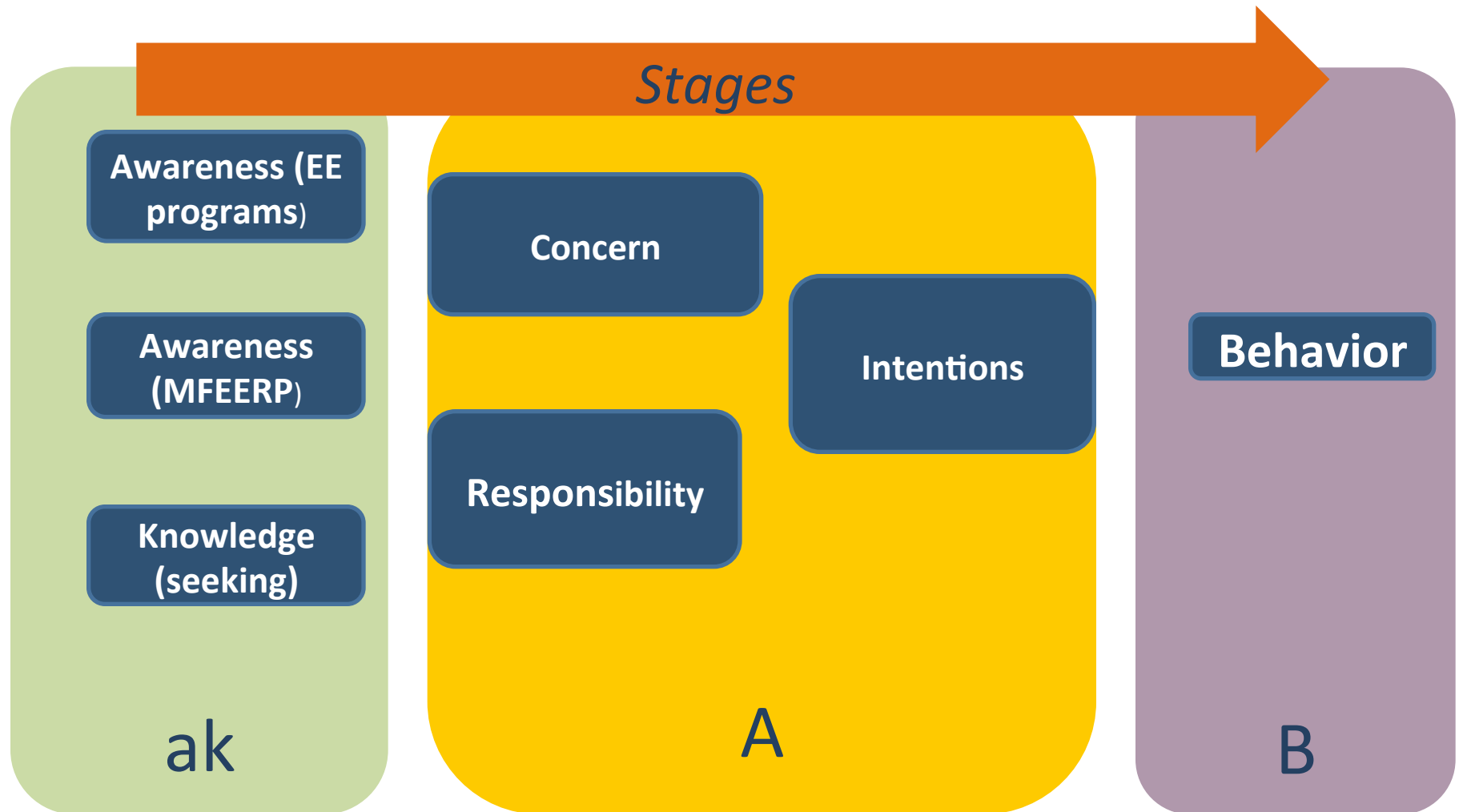
- **Basic construct:** A set of distinct, structured, and measurable social psychological dispositions lead decision-makers toward desired behaviors, such as adopting energy-efficiency improvements
- Based on Randazzo and Peters, 2011: *“Reconsidering What We Measure: A White Paper”*



akAB – a ‘Staged’ Model

- Awareness and knowledge are the first steps (ak)
- Attitudes (A) may dispose person toward behavior
 - Concerns – motivational attitudes, define what is good to do
 - Responsibility – YOU are the one who needs to act
- $ak+A = \text{Intention to act}$
- Behave! (B)

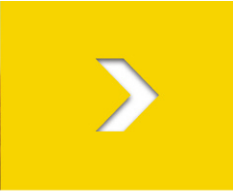
akAB – Creating Indices for Decision-making



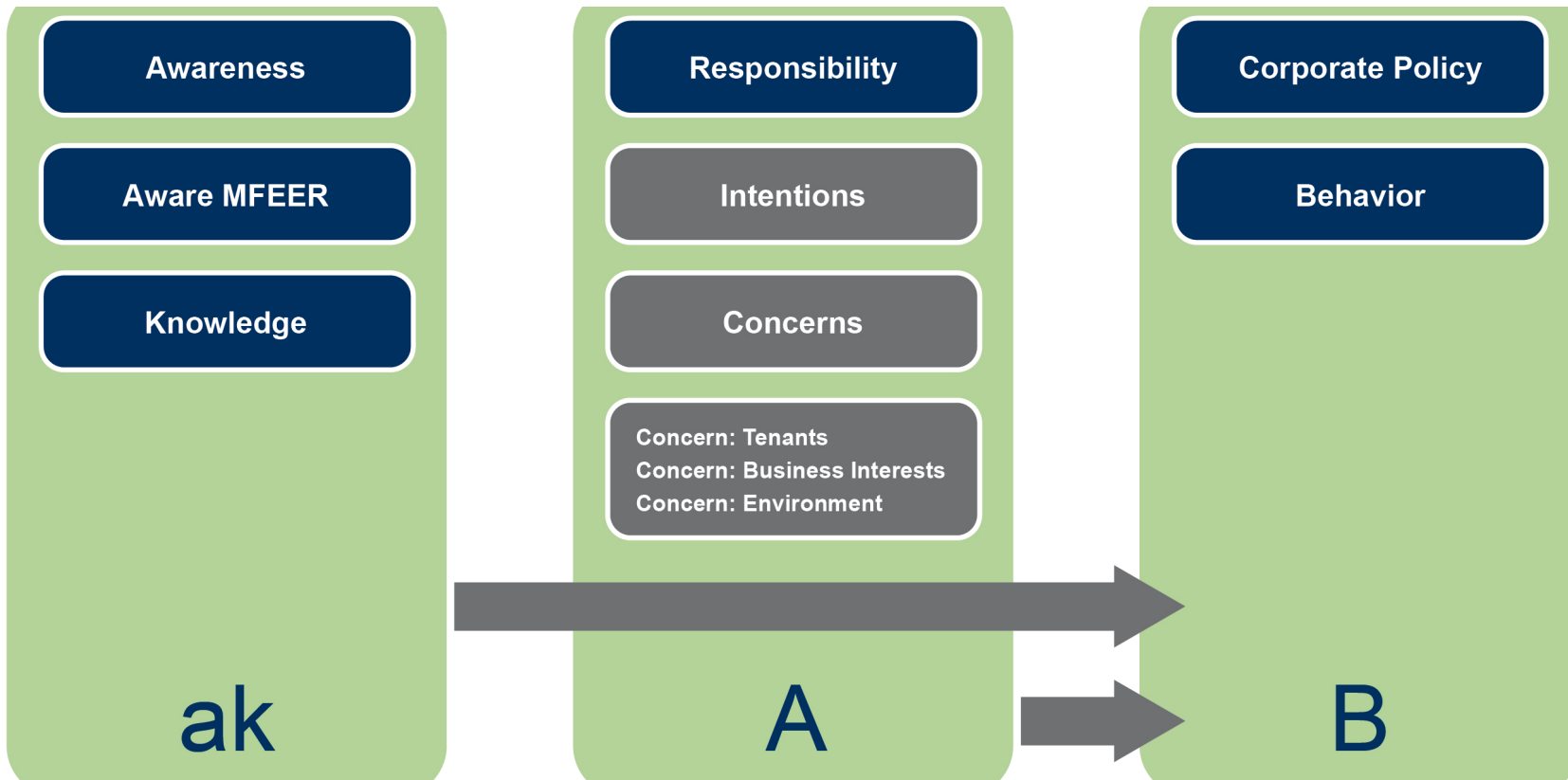


Application

- **2009 CPUC requirement for Program Performance Metrics**
 - Indicate market transformation
 - Address awareness, knowledge, and attitude
 - akAB = potential Performance Metrics
- **Randazzo and Peters geared to residential**
 - Introduced MF akAB
- **2012 PG&E/SCE survey: 363 MF property owners/managers**
 - Battery of akAB
 - Structural variables – company size, tenant SES, decisions, policy

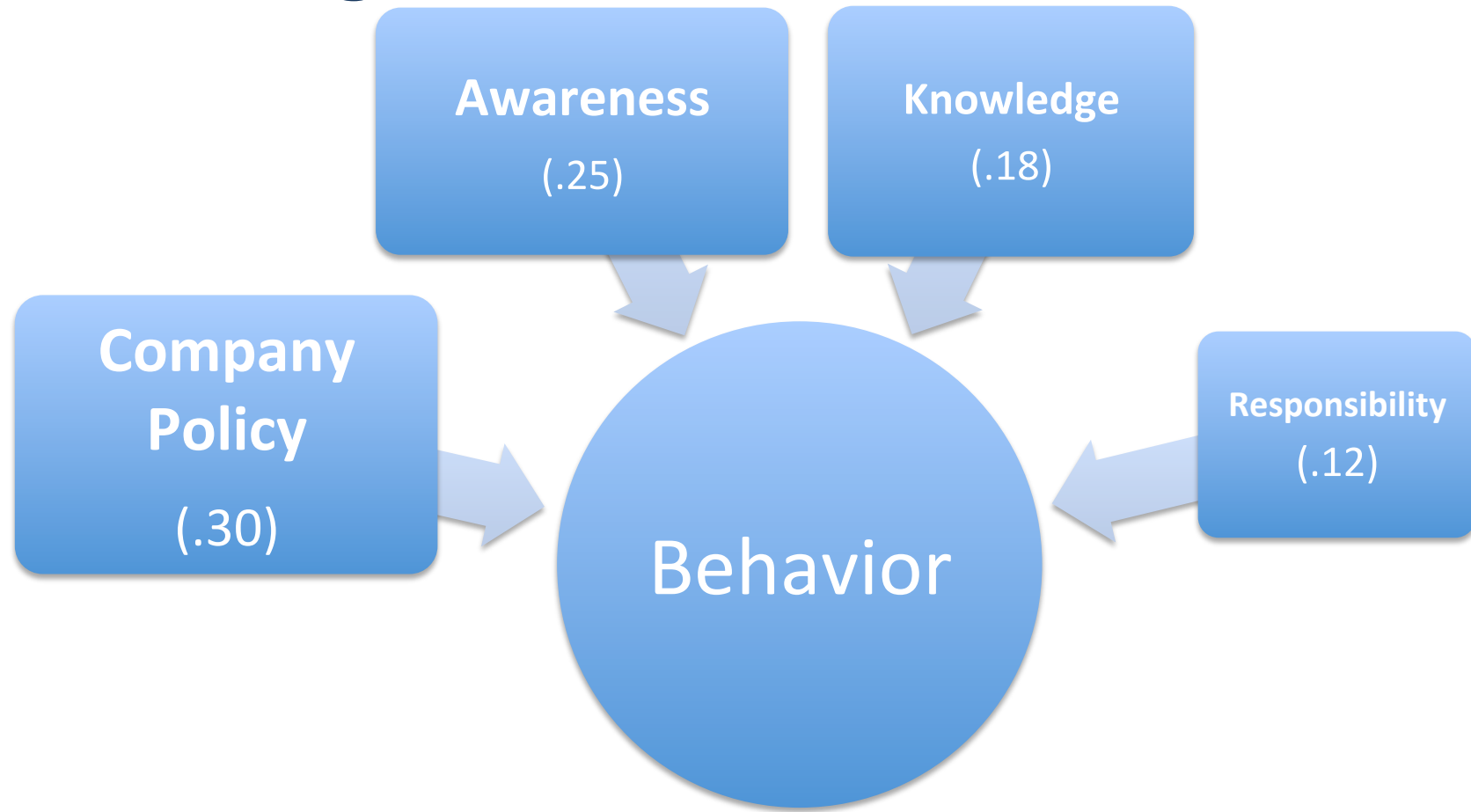


Overall Results





Regression Model Results





Key Pre-Cursors to Taking Action

- Decision-maker
 - Is **aware**
 - Has **actively sought information**
 - Feels **responsible**
 - Has **company policy** related to efficiency



Capitalizing on Findings

- Ensure awareness – ongoing, but varied
- Encourage active information seeking
 - Engage decision-makers (websites, marketing, personal)
 - Reinforce information seeking (revisit program participants)
- Build responsibility
 - Economic viability, keep tenants happy
- Leverage company policy
 - Big players most likely to have policies in place
 - Smaller players follow big players lead (community of influence)



Thanks!

Questions?

Feel free to contact us:

- Linda Dethman(503) 247-7146
- Eric Rambo (503) 545-4570

