



Home Energy Information Accelerator

Partner Meeting
RESO Fall Conference
Austin, Texas

October 27, 2015

Objectives

- Common understanding of DOE Home Energy Information Accelerator
- Prelim insights on cross-industry connections

Agenda

- **Welcome**
 - Jeremy Crawford (RESO)/Joan Glickman (DOE)
- **Home Energy Info Accelerator Overview**
 - Joan Glickman (DOE)
- **What's the Data that Brings Us Together?**
 - Laura Stukel (Elevate Energy)
- **Barrier Brainstorm – Access to the Data**
 - Laura Stukel (Elevate Energy)
- **Moving Forward**
 - Joan Glickman (DOE)

Home Energy Info Accelerator Overview



Home Energy Information Accelerator:

Simplify the process for consumers and real estate professionals to incorporate home energy information

What is the work to be done?

- Expand the pipeline of efficient homes!



- Use home energy information in new and exciting ways

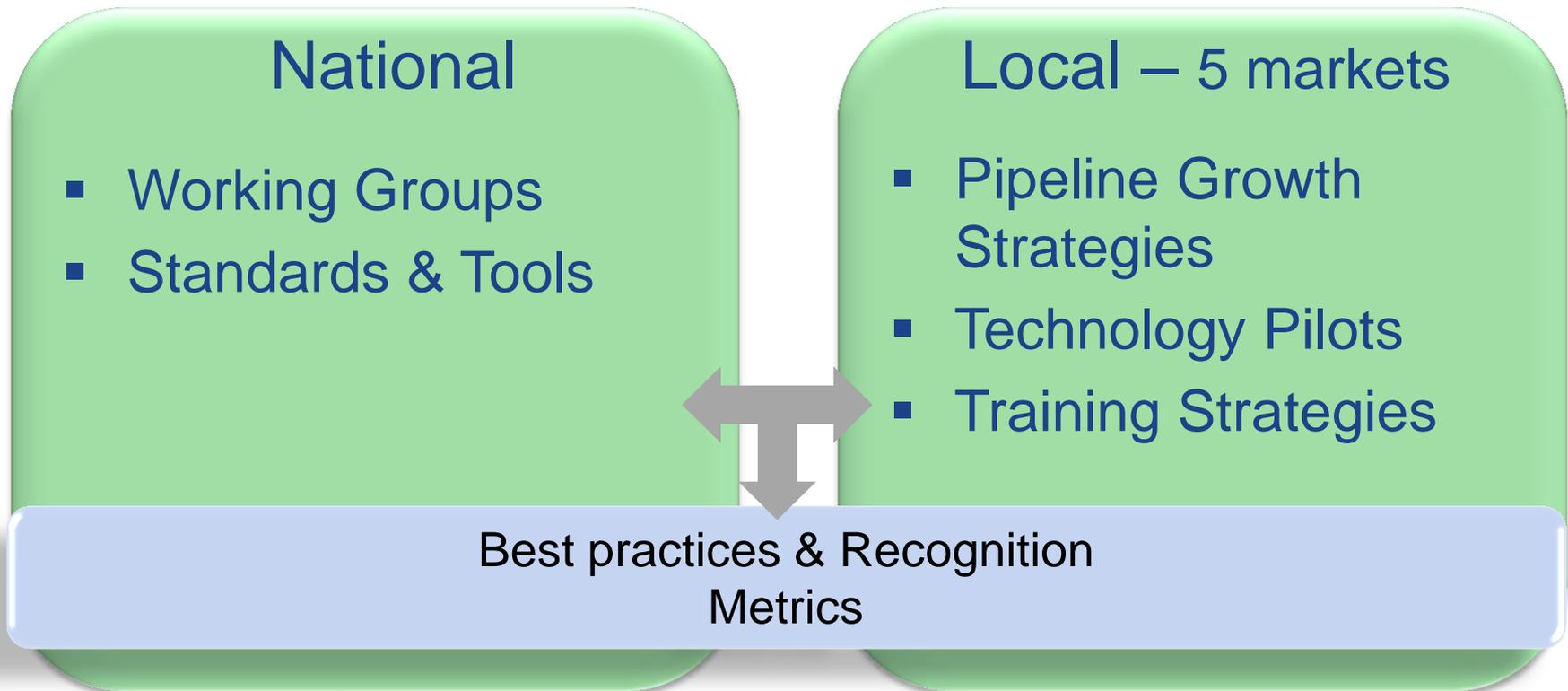


Foundations for Success

- Pilot demonstrations
- Share best ideas
- Recognize success

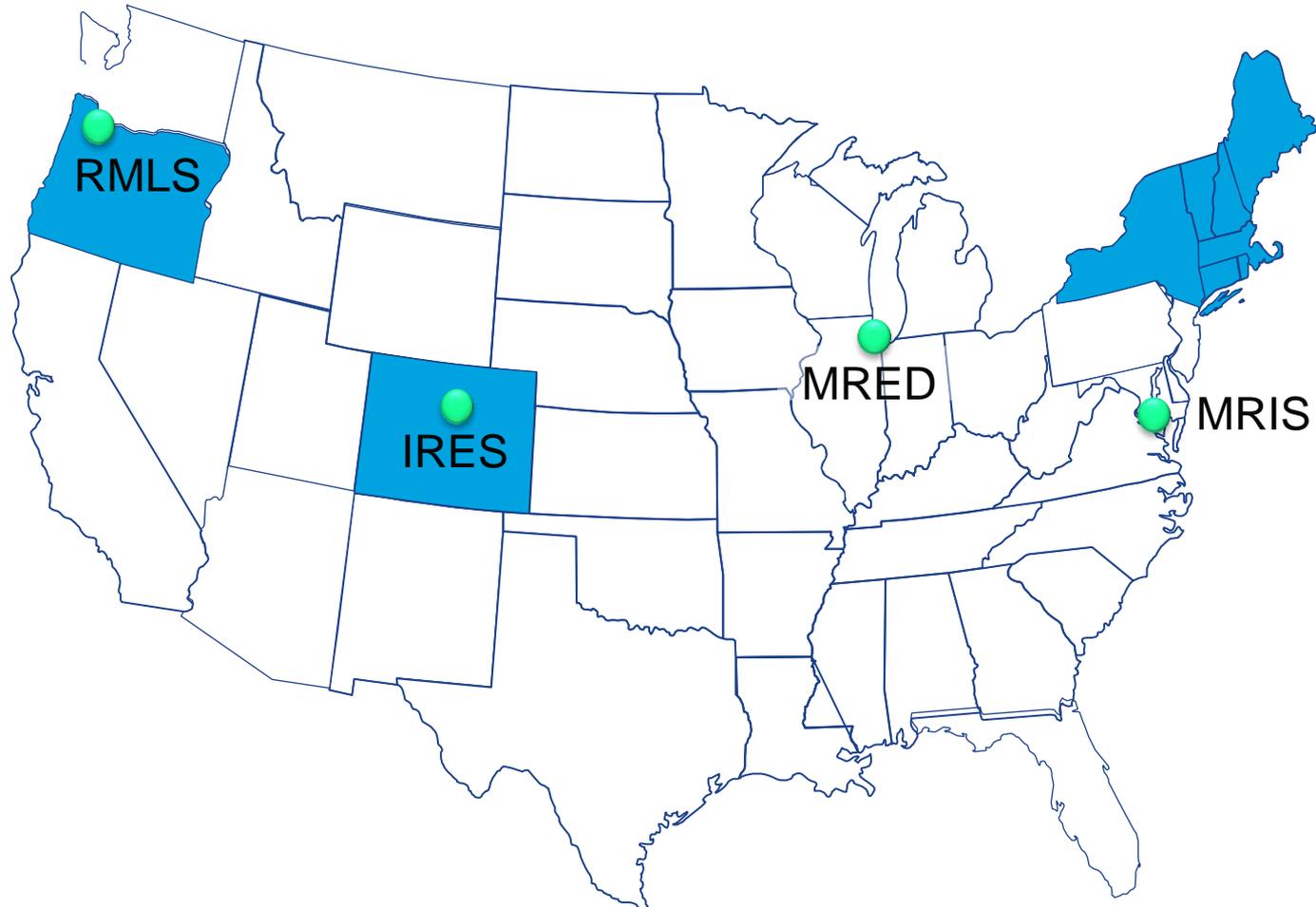
Home Energy Info Accelerator Overview

- National & Local Collaboration Drives Innovation -



Home Energy Info Accelerator Overview

- 5 Local Pilot Locations -



Breakthroughs So Far

National

- RESO DD/BEDES mapping
- RESO Silver Certification (1/1/2018)
- CMLS 3 Year Vision
- Adding Homes.com feeds
- Home Energy Upgrade Accelerator (HPXML code at PlugFest)

Local

- Technology visions underway
- Working on strategies for “growing the pipeline”
- Pilots to launch Summer 2016

Discussion - What's the Data that Brings Us Together?

- *Definitions and usage not always clear and consistent -*

certificate
score verification
certification
rating
disclosure label

WordItOut

Discussion - What's the Data that Brings Us Together?

- Starting Point: How is Efficiency Data Defined with MLS Fields?

RESO DD - “Green Verification” Fields Combine to Make:

	Verifications without a rating	Verifications with descriptive rating	Verifications with a numeric rating
	Labels	Certifications Rating	Scores Rating
Green Verification Program	✓	✓	✓
Green Verification Body	✓	✓	✓
Green Verification Year	✓	✓	✓
Green Verification Rating		✓	
Green Verification Metric			✓

- Energy Star Certified New Home
- Home Performance w/Energy Star
- Zero Energy Ready Home

- LEED for Homes
- National Green Building Standard ICC-700

- HERS Index Score,
- Home Energy Score

RESO DD does not currently address unverified data:

Utility Data	Automated Energy Models (AEMs)
Actual usage data (behavior may vary)	Algorithms on public data (size, climate, etc.) to estimate utility usage
RESO could adopt Green Button standard fields	

Start-ups emerging
e.g., DwellAware, EnerScore,
MyHomeEQ, MyUtilityScore,
Savenia Home

What's the Data that Brings Us Together?

Key Terms	What is it?	Example
Asset Rating	Efficiency of the building and the systems inside it	Home Energy Score
Operational Rating	Usage based on behavior/occupancy	Utility Data
Uni-Directional Rating	Rating that only indicates good	LEED for Homes
Bi-Directional Rating	Rating that indicates good and bad	HERS Index Score

What's the Data that Brings Us Together?

- Data outputs related to federal programs -

■ EPA

- Energy Star (HERS connection)
- Water Sense
- IndoorAir Plus

■ DOE

- Zero Energy Ready Home
- Home Performance with Energy Star
- Home Energy Score

Home Energy Score



Home Energy Score

Score

Home Facts

Recommendations

ADDRESS
12345 Honeysuckle Lane
Smithville, AR 72466

HOME SIZE
1500 sq ft

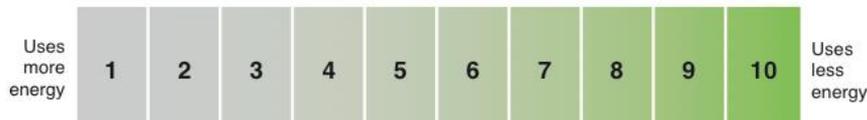
YEAR BUILT
1970

AIR CONDITIONING
Yes

Your home's current score **3**

Score with improvements **7**

Estimated annual savings **\$411**



Learn more at homeenergyscore.gov



The **Home Energy Score** is a national rating system developed by the U.S. Department of Energy. The Score reflects the energy efficiency of a home based on the home's structure and heating, cooling, and hot water systems. The **Home Facts** provide details about the current structure and systems. **Recommendations** show how to improve the energy efficiency of the home to achieve a higher score and save money.

OFFICIAL ASSESSMENT | 2/13/2016 | ID# 1234567 | v4.5

Generates variety of metrics/information



Estimated energy use per year

Total (MBTUs)	185
Score basis (MBTUs)	117
Electricity (kWh)	10700
Natural gas (therms)	673

Preliminary Activity - Info Exchange Models Working Group

- Common Vocab?
- Pros and Cons Feedback

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Preliminary Activity - Data Access Working Group

- What is helping?
- What is holding us back?

Preliminary Activity - Data Access Working Group

- What is helping?
- What is holding us back?
- **Technical**
Process / Skills /
Technology
- **Structural**
Governance / Rules /
Laws / Decision-Making /
Power / Authority
- **Cultural**
Emotions / Values /
Beliefs / Stakeholders /
Leadership



Wrap Up & Moving Forward

Thank you!