



Panelists

- Moderator: Chad Curry, National Association of REALTORS®
- Jodi Horne, Fannie Mae, Senior Risk Manager
- Jeremy Crawford, RESO Executive Director
- Matt Casey, CRS Data, President, CEO







Standards & Innovation

Chad Curry, National Association of REALTORS



CRT, RETS and RE Data







HEIA, RESO & CRT









Data Dictionary & BEDES







Challenges with Data



Great Nearby Places



View neighborhood restaurants, coffee shops, grocery stores, schools, parks, and more.

Improve Your Commute



Get a commute report and see options for getting around by car, bus, bike, and foot.

Fits Your Lifestyle



Learn about the neighborhood, view crime and safety, see what locals are saying, browse photos and places.

AIA Home Design Trends Survey

1. Smarter homes. 6. All about the kitchen.

Healthier homes.
 Outdoor living spaces.

3. Disaster-proof. 8. Home offices.

4. Energy efficiency. 9. Smaller but better designed homes.

5. Age-in-place. 10. Urban influence.

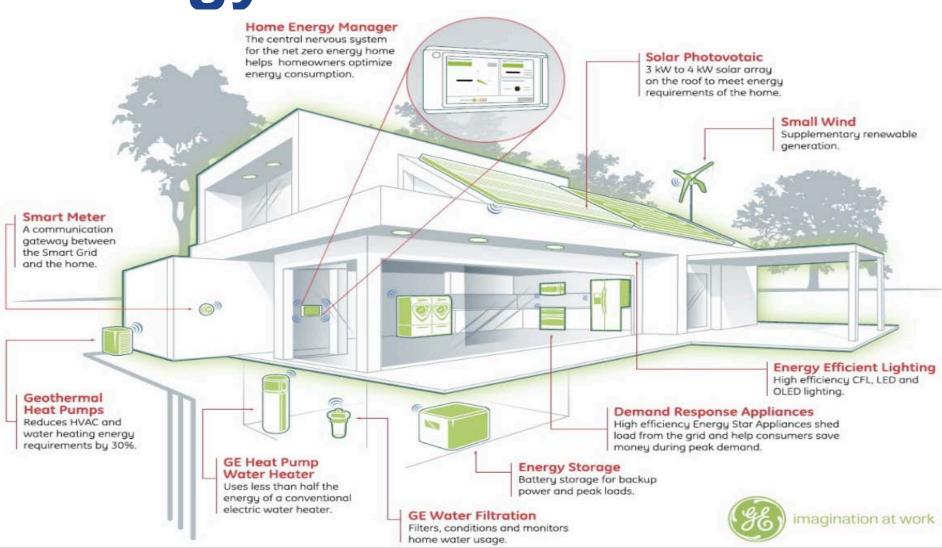
Source:

http://styledstagedsold.blogs.realtor.org/2016/03/28/10-trends-driving-the-next-decade-of-home-design/



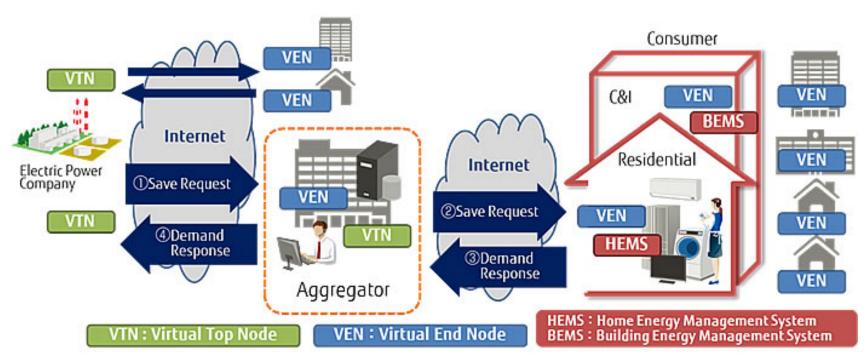


Energy Use





OpenADR









Rosetta Home Concept







Rosetta Home

Environmental Quality



Netatmo Weather Station \$150



- Pressure
- Temperature (Indoor & Outdoor)
- Humidity (Indoor & Outdoor)

Energy Usage



Neurio \$249



Rainforest Eagle \$99

- Works with smart meters
- Real-time energy data





Rosetta Home

- Listing data is static
- Changes manually
- No environmental quality data or energy

7467 Sheridan Edit



Enormous, 4,100 sq ft., solid brick mini-mansion on 50x175' lot awaits new owner. Grand entry & staircase, double parlor. DR w/ cross beamed ceilings opens to enclosed greenhouse. Grand, open kitchen. Oak floors & trim throughout. Big BR's, vintage tile in kit and baths, 3 FP's. Tile roof, 2 car brick gar + 3 pkg spaces, 6ft. iron fence, expandable full walk-up 3rd fl., high ceiling basement, 1/2 block to Lake.

Similar Properties



1761 MORSE





7625 Eastlake







Rosetta Home

- Improve quality of life
- Dynamic data in listings
- Data is voluntarily shared by homeowner

CRT LABS

Dashboard

L Chad Curry

\$215,000,00

Locations



7467 Sheridan

Enormous, 4,100 sq ft., solid brick minimansion on 50x175' lot awaits new owner. Grand entry & staircase, double parlor. DR w/ cross beamed ceilings opens to enclosed greenhouse. Grand, open

\$765,000,00



1761 MQRSE

StunninglExtra large 1500sf newer all brick/ilmestone construction, with PRIVATE GARAGE includedILush gardens welcome you to this intimate 8 unit bldg. Situated on the south side of the building, this unit is



7625 Eastlake

Highly Sought after Boutique elevator Building on Eastlake Terrace, Sunny & Bright Corner unit, Huge private Deck with a Beautiful Lake View, secure indoor heated Garage parking, features open floor



ertlahedev realtors org/location/ Inconerty



1727 Division

\$200,000,00

\$267,000,00





7467 Sheridan Edit



7467 Sheridan \$765,000.00

Enormous, 4,100 sq ft., solid brick mini-mansion on 50x175' lot awaits new owner. Grand entry & staircase, double parlor. DR w/ cross beamed ceilings opens to enclosed greenhouse. Grand, open kitchen. Oak floors & trim throughout. Big BR's, vintage tile in kit and baths, 3 FP's. Tile roof, 2 car brick gar + 3 pkg spaces, 6ft. iron fence, expandable full walk-up 3rd fl., high ceiling basement, 1/2 block to Lake.

Listing Details

Rosetta Home True Living Cost

PostalCodePlus4 None BuyerOfficePhone None ListAgentLastName Maguire

PhotosChangeTimest... 2015-05-03 16:05:43

IDXEntireListingDispl... BedroomsTotal 4 ListingAgreement

2.5% - MLS \$275 BuyerAgencyCompen...

BuyerAgentCellPhone None -87.665138 Longitude

> YearBuilt 1908

ParcelNumber 11293080010000

PurchaseContractDate

StatusChangeTimest... 2015-05-09 05:06:35

> PostalCity None

PrivateRemarks Currently leased until July 31, 2015. \$2500. Zoned RT-4. PLEASE USE 4 PAGE CAR CONTRACT.

ListAgentFirstName Frank CapRate None StreetName Sheridan ClosePrice None ListAgentMlsId 112446

OriginalEntryTimesta... None

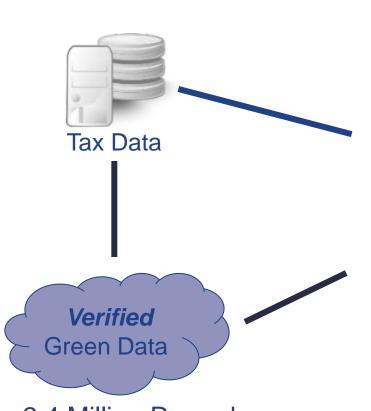
Latitude 42.018051 CloseDate None

VOWConsumerCom... True OperatingEvpense None





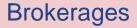
Auto-pop - Tax works, why not green?























Identifying The Right Place for Energy Data Integration



Matt Casey, President/CEO

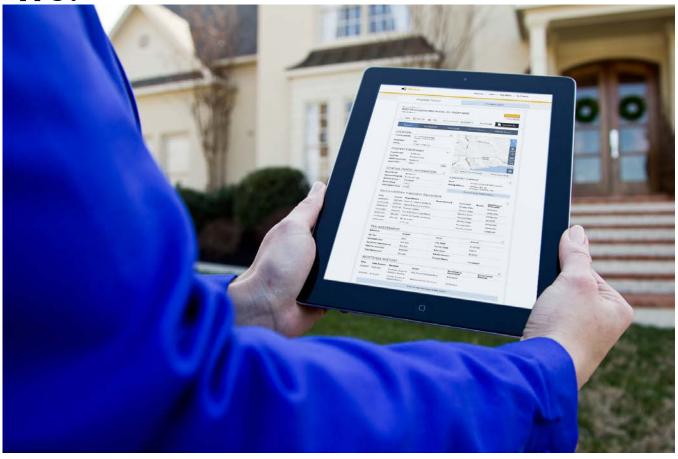
CRS Data





Who Are We?

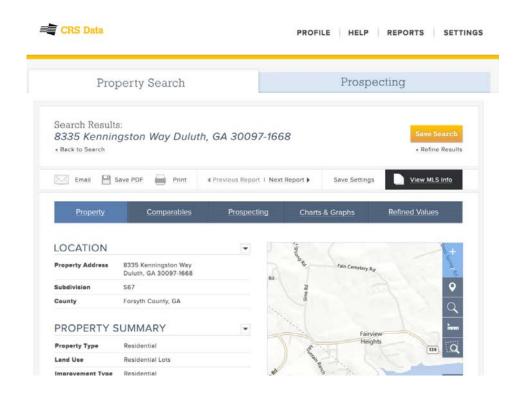




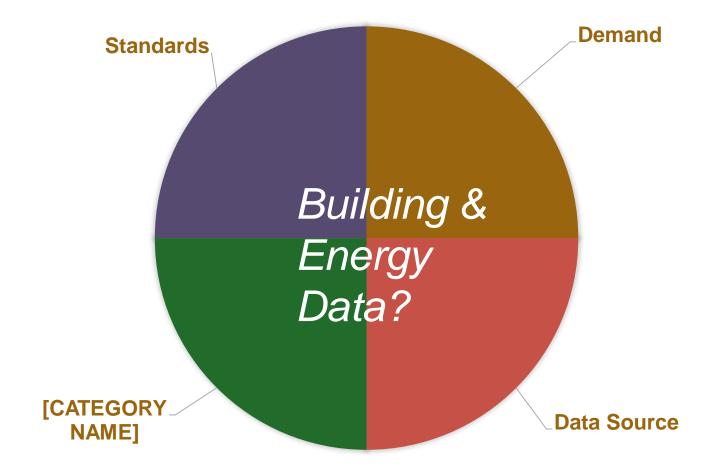
Providing powerful, accurate data since 1989

Providing Clear & Current Property Tax Data

- Property & tax records
- Interactive GIS and plat maps
- Sales and mortgage histories
- Area demographics
- Warranty deeds
- Property analyses
- Comps



The Potential For Integrating Building & Energy Data



The Role: Property Assessors

- Assess all property and property ownership
- Produces an assessment roll that is the basis for levying taxes
- Establishes and maintains property maps
- Values all taxable property



Property Link

		Dr	ALD WIN C	OUNT	1,	AL.			
Current Date 4/28/2016					Tax Year2015 Valuation Date October 1, 2014 Records Last Updated 4/27/2016				
			PROPERTY	DETAIL					
OWNER	SMITH, AA	MITH, AARON WILLIAM ETAL SMITH,					ACRES: **NA**		
	3 CORTE C								
FAIRHOPE, AL 36532					APPRAISED VALUE: 174100				
	,					1	ASSESSED	: 17420	
PARCEL	46-04-19-4-0	000-009.1	02						
ADDRESS	3 CORTE	CT							
			TAX INFOR	RMATIO	N				
YEAR 2015		TAX DUE		AID		1	BALANCE		
		704.06	7	04.06		(0.00		
	L		MENT DATE CELLANEOUS			PION .			
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ESCAPE Y	EAR	114233	Entry 00			SW'LY AL			
ACCOUNT		305492				NW 114.89'			
ACCOUNT	TOMBER	303472	TAX HIS			1111.05	101010		
Year		Owner	21212 1111	Total Ta	x Pa	id(Y/N)	Appraised	Assessed	
			I ETAL SMITH,			11/29/2014	165300	16540	
2013 CLAR					-	10/2/2013	164200	16420	
2012 CLAR			12/22/2012	165700	16580				
LUIL CLITT	and American	· · · · · · · · · · · · · · · · · · ·		001177	•	LUIDEILOID	105700	.0000	

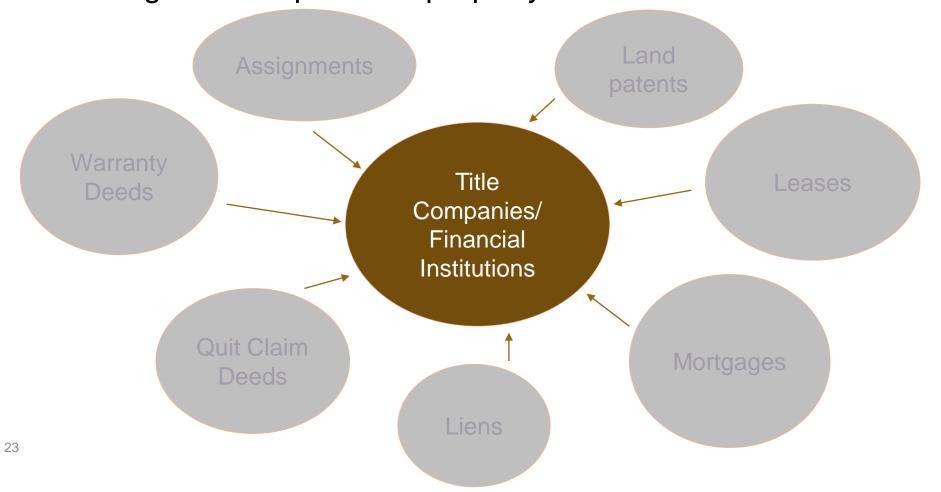
The Role: Property Assessors

Opportunity for Integration?



The Role: Register of Deeds

 The official recording and filing office for all legal documents affecting real and personal property



The Role: Register of Deeds

Trade & Standards Organizations





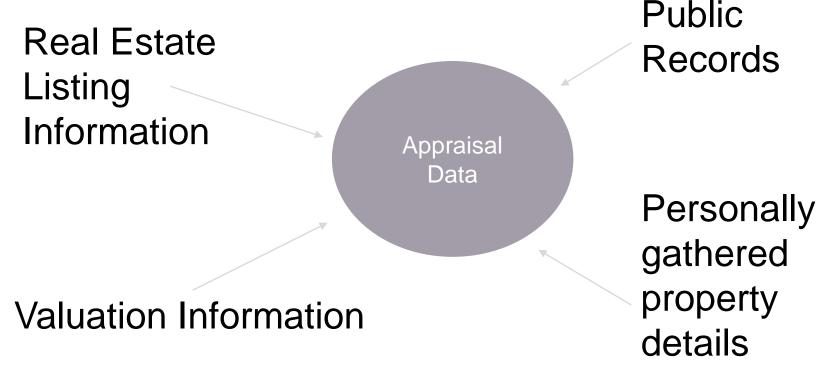
The Role: Property Assessors

Opportunity for Integration?



The Role: Appraisers

 Appraisers provide an estimate of the value of land and the buildings on the land usually before it is sold, mortgaged, taxed, insured or developed.



The Role: Appraisers

Trade & Standards Organizations





Professionals Providing Real Estate Solutions

The Role: Appraisers

Opportunity for Integration?





Help clients buy, sell and rent properties



 Some listing data is publicly available, but bulk listing data is not normally provided to the public.



Trade & Standards Organizations







Opportunity for Integration?





Thank you!







HomeStyle® Energy Mortgages

Better Building Summit May 2016





Overview

HomeStyle Energy offers affordable financing options for borrowers interested in improving the energy and water efficiency of their homes.

- Pay off higher-interest energy improvement debt, including PACE (Property Assessed Clean Energy)* loans through a limited cash-out refinance
- Finance up to 15% of the "as completed" appraised value of a home for new cost-effective energy improvements as part of a purchase or limited cash-out refinance
- Finance up to \$3,500 in basic weatherization or water-efficient improvements with no energy report as part of a purchase or limited cash-out refinance

*Fannie Mae policies related to PACE loans have not changed. More information can be found in the *Fannie Mae Selling Guide B5-3.4-01: Property Assessed Clean Energy Loans (12/01/2010).*

HomeStyle® Energy Mortgages - Better Buildings Summit 2016



Lender Benefits

Key Benefits for Lenders

- Available to all Fannie Mae approved sellers No special lender approval needed
- Expand your market to new customers purchasing homes that need upgrades and strengthen your relationships with real estate professionals
- Help customers reduce their energy costs and improve the comfort of their homes with refinance opportunities
- \$500 loan-level price adjustment (LLPA) credit



Eligible Energy Improvements

HomeStyle Energy is focused on cost-effective energy and water efficiency improvements.

- Basic weatherization and water-savings devices
- Pay off of existing energy improvement debt, including PACE
- Cost-effective energy and water improvements identified through an energy assessment or that are completed as part of an overall cost-effective energy improvement home upgrade
- Eligible energy assessment programs:
 - RESNET Home Energy Rating Service
 - U.S. Department of Energy Home Energy Score
 - Comparable state or local program that assesses costeffective energy improve-ments with an independent energy assessment professional





Eligible Energy Assessments

Expanded options for home energy assessments.

- RESNET Home Energy Rating Service
- U.S. Department of Energy Home Energy Score
- Comparable state or local program that assesses cost-effective energy improvements with an independent energy assessment professional



When to consider HomeStyle Energy

Is your borrower buying an older home?

■ The average age of homes in the United States is 37 years old. Basic weatherization and the installation of low flow water devices may result in immediate monthly savings for homeowners. Larger efficiency projects may create even more comfort and savings.

Are your customers looking to improve the comfort of their homes?

Improving comfort and livability of homes is a key motivator for consumers seeking energy and water efficiency improvements

Are your refi customers paying too much on energy costs?

Having an energy assessment will identify the most cost-effective options for improving the performance of a home. Some of these options may be easier to install and less expensive than what homeowners might expect.

Does your refi borrower have an existing energy-improvement debt to pay off?

• Many homeowners take on expensive consumer debt or financing offered by contractors when a home emergency strikes such as a furnace or air conditioner failure. They may not have time to shop around for affordable financing options. HomeStyle Energy may be a lower cost option to refinance this debt.



Key Lending Parameters

- Up to 95% Loan-to-Value Ratio
- All 1-4 unit existing properties except manufactured homes
- All occupancy types
- Desktop Underwriter® (DU®) and manual underwriting permitted
- Allowable funds:
 - Up to 15% of the "as completed" value permitted to be used for new improvements
 - Up to 15% of the value permitted to be used to pay-off existing debt used for energy improvements
- Loans may be delivered prior to completion of improvements, escrow and completion verification requirements apply
- No lender recourse for loans delivered prior to the completion of the improvements
- Plug and play with all Fannie Mae programs, products, and features
- Exclusions: New construction, Refi Plus, and DU Refi Plus



Resources

All lender resources for HomeStyle Energy can be found on one convenient webpage on the Fannie Mae Single-Family Business Portal.

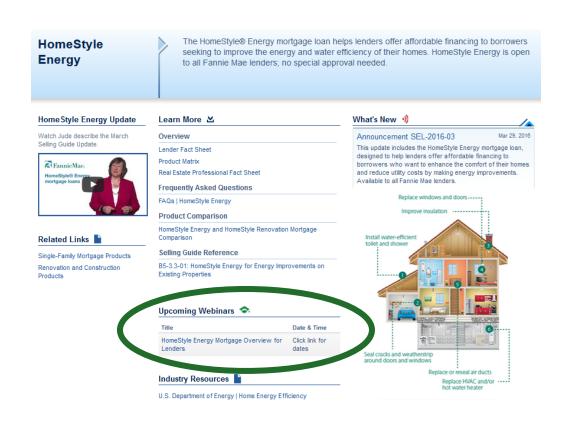
- Fact sheets and Frequently Asked Questions (FAQs)
- Training
- Product comparisons
- Real estate professional fact sheet
- Selling Guide references
- External resources

https://www.fanniemae.com/singlefamily/homestyle-energy

Fannie Mae Selling Guide section B5-3.3-01: HomeStyle Energy for Energy Improvements on Existing Properties



Fannie Mae Single-Family Business Portal





RESO Data Standards

Jeremy Crawford, Executive Director RESO



Real Estate Standards Organization Corporate Overview

- RESO Standards for Real Estate
 - Non-Profit Membership based organization
 - RESO's work products are Technical Data Standards
 - Transportation Standards RETS, Web API
 - Data Definition Standards RESO Data Dictionary
 - Standards are created through members' only volunteer based Committees and Workgroups
 - RESO Standards are Free, Open Source
 - RESO provides standards certification services to ensure correct standards adoption and implementation
 - Driving Force: Creating efficiencies and fostering technological innovation through standards creation, implementation, adoption and certification













RESO Current State of Standards Adoption and Steps toward the Future

- RESO Data Dictionary Version
 1.4 (http://ddwiki.reso.org)
- Over 1.1 Million Brokers & Agents represented across over 500 MLSs that are RESO Data Dictionary Certified
- RESO Data Dictionary Certification Levels: Core, Bronze, Silver, Gold, Platinum

- RESO Data Dictionary v1.5 scheduled for June 2016 Release
- v1.5 has home energy fields and values assigned to silver certification
- MLSs must adopt Silver level fields and values by 2018
- Home Energy field implementation pave the way for MLS Data integration
- RESO Web API v1.0.2 RESO's latest data transportation standard utilizing Global Technologies
- MLSs must adopt the RESO Web API by June 30th, 2016











Panel Discussion



RESO Standards – MLS Connection Points to Energy Data Sources via BEDES

- RESO Data
 Dictionary v1.5
 provides data
 mapping between
 MLSs and BEDES
- Data Mapping provides translation points between Energy Data Sources and MLS Databases





Field Name (Standard Name)?: GreenVerification[Type]Body

1 Definition (May contain rules that must be observed)

The name of the body or group providing the verification or certification named in the Green repeating element. If desired replace [Type] with the name of the certification from the Green repeating element.

Group²: Property Resource, Structure Group, Performance Group, GreenVerification Group

Simple Data Type?: String

Suggested Maximum Length?: 50

Synonym(s)?:

GreenCertifyingBudy

Field (Element) Status2: Proposed

BEDES?: Assessment Program Organization = [value]

Certification Level?: Silver





