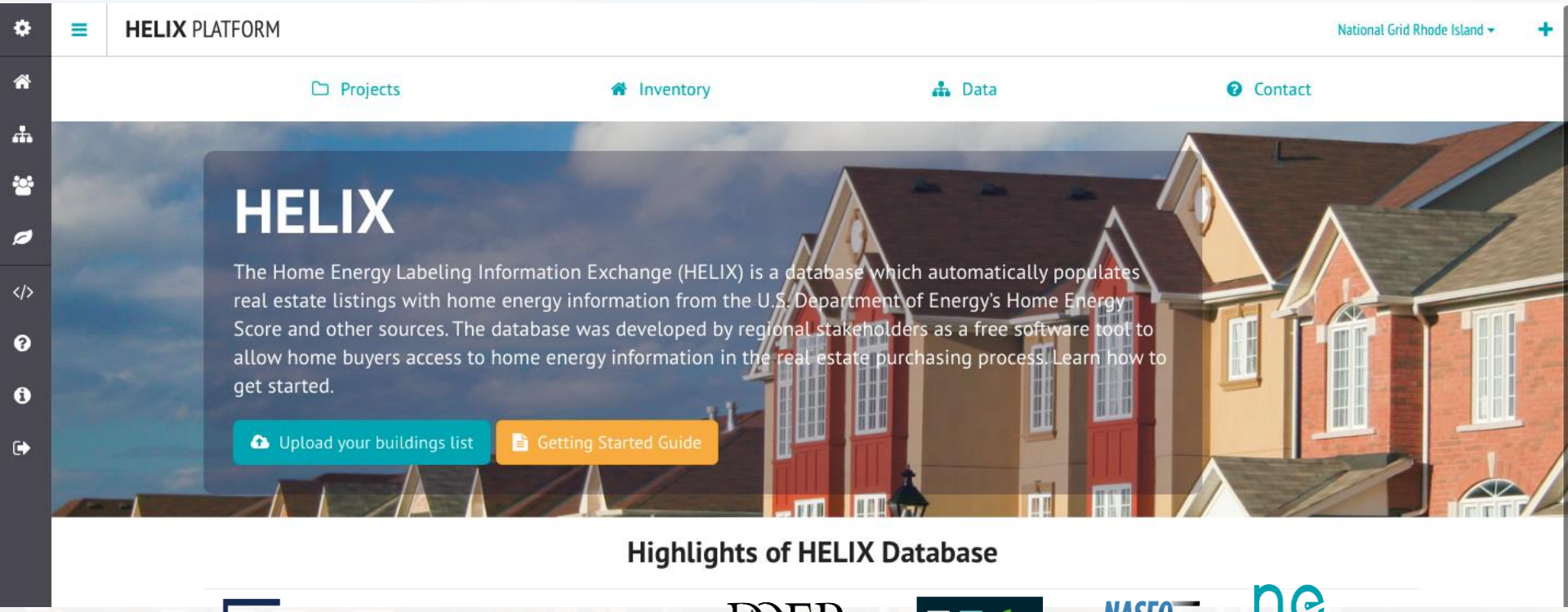
# SO WHAT IS THIS HELIX I KEEP HEARING ABOUT?

*Samantha Caputo, NEEP*
*Véronique Bugnion, ClearlyEnergy*

# HELIX

Home Energy Labeling Information eXchange




## Highlights of HELIX Database

A3P STRATEGIES

CLEARLYENERGY

DOER Massachusetts Department of Energy Resources

ENERGY FUTURES GROUP

NASEO National Association of State Energy Officials

neep

SUSTAINABLE REAL ESTATE CONSULTING SERVICES

Vermont Energy Investment Corporation

VERMONT

VL VERMONT LAW SCHOOL

# What Is HELIX?

*HELIX facilitates consolidation of energy data in a single portal*

**Data Intake**

Range of data sources (solar, efficiency, code…), data types and file formats

**Flexible Data Management Solution**

Track & Report

States; Cities; Program Managers

Compare & Export

Assessors; Realtors

**Data Export**

MLS

# Who Is Using HELX?

*HELIX has 7 States in efficiency pilot; 20 solar States*

Data Intake → Data Front-End & Management → Data Export

Home Innovation NGBS GREEN VERIFIER™

Pearl™ CERTIFICATION

EVERSOURCE ENERGY

MASSACHUSETTS CLEAN ENERGY CENTER

RESNET HERS® INDEX

LEED® FOR HOMES

UI

nationalgrid

U.S. DEPARTMENT OF ENERGY Home Energy Score

STATE OF RHODE ISLAND OFFICE OF ENERGY RESOURCES

VEIC

VERMONT PUBLIC SERVICE DEPARTMENT

CONNECTICUT ENERGY ENVIRONMENT

MassDEP

NEREN® MLS New England Real Estate Network

RI REALTORS® Rhode Island Association of REALTORS® & State-Wide MLS

MLS PROPERTY INFORMATION NETWORK, INC. the total listing service

NYStateMLS

# What Do States Want to Use HELIX For?

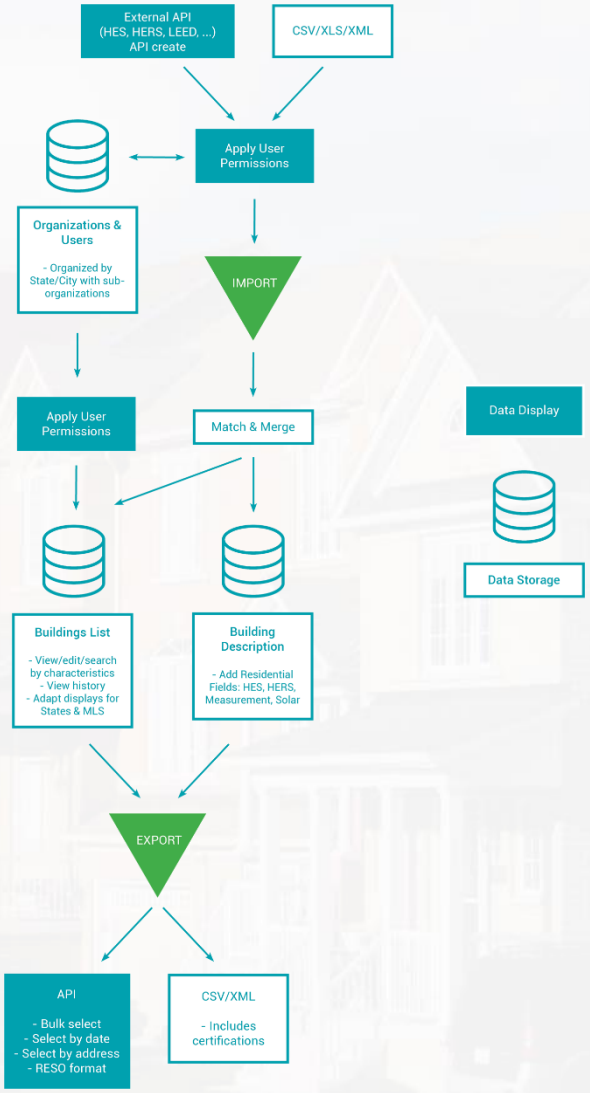
| | CT | ME | MA | NH | RI | VT |
|---|---|---|---|---|---|---|
| **National Program Certification Program Data** | | | | | | |
| Certified Passive House (Passive House Institute) | ✓ | | ✓ | ✓ | ✓ | ✓ |
| ENERGY STAR Certified Homes | ✓ | | ✓ | ✓ | ✓ | ✓ |
| HERS Index Score | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Home Energy Score | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Home Performance with ENERGY STAR | ✓ | | ✓ | ✓ | ✓ | ✓ |
| Indoor airPLUS | ✓ | | ✓ | | | ✓ |
| LEED For Homes | ✓ | | ✓ | ✓ | ✓ | ✓ |
| NGBS New Construction | | | | | | ✓ |
| PHIUS+ (Passive House Institute US) | | | ✓ | | | ✓ |
| WaterSense | ✓ | | ✓ | | ✓ | |
| Zero Energy Ready Home | ✓ | | | | ✓ | ✓ |
| **Other Home Energy Performance Data** | | | | | | |
| Annual modeled fuel consumption (native units) | | | ✓ | | | ✓ |
| Annual modeled total MMBtu | | | ✓ | | | ✓ |
| Annual modeled energy costs | | | | | | |
| Solar PV data | | | | | | |
| Blower door test results | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Energy code compliance | | | ✓ | | | ✓ |
| Energy efficient products | | ✓ | ✓ | | | |

| | CT | ME | MA | NH | RI | VT |
|---|---|---|---|---|---|---|
| **State/Local Program Certification Data** | | | | | | |
| Mass Save Tier III home | | | ✓ | | | |
| Mass Save Tier II home | | | ✓ | | | |
| Mass Save Tier I home (New construction program) | | | ✓ | | | |
| Connecticut Home Energy Solutions | ✓ | | | | | |
| Connecticut Home Energy Solutions-Income Eligible | ✓ | | | | | |
| Connecticut Weatherization Assistance Program (WAP) | ✓ | | | | | |
| Efficiency Maine rebate programs/measures installed | | ✓ | | | | |
| Efficiency Vermont Certified | | | | | | ✓ |
| Efficiency Vermont Certified- High Performance | | | | | | ✓ |
| Vermont Home Energy Profile | | | | | | ✓ |
| Efficiency Vermont Home Improvement Certification | | | | | | ✓ |

# HELIX Structure

*HELIX expands SEED open source framework*

- HELIX expands the Standard Energy Efficiency Database: SEED
  - Variety of data sources and import methods
  - Handles residential certifications, solar, home consumption metrics, code compliance, home efficiency measures
  - Provides expanded export capabilities
- Open source

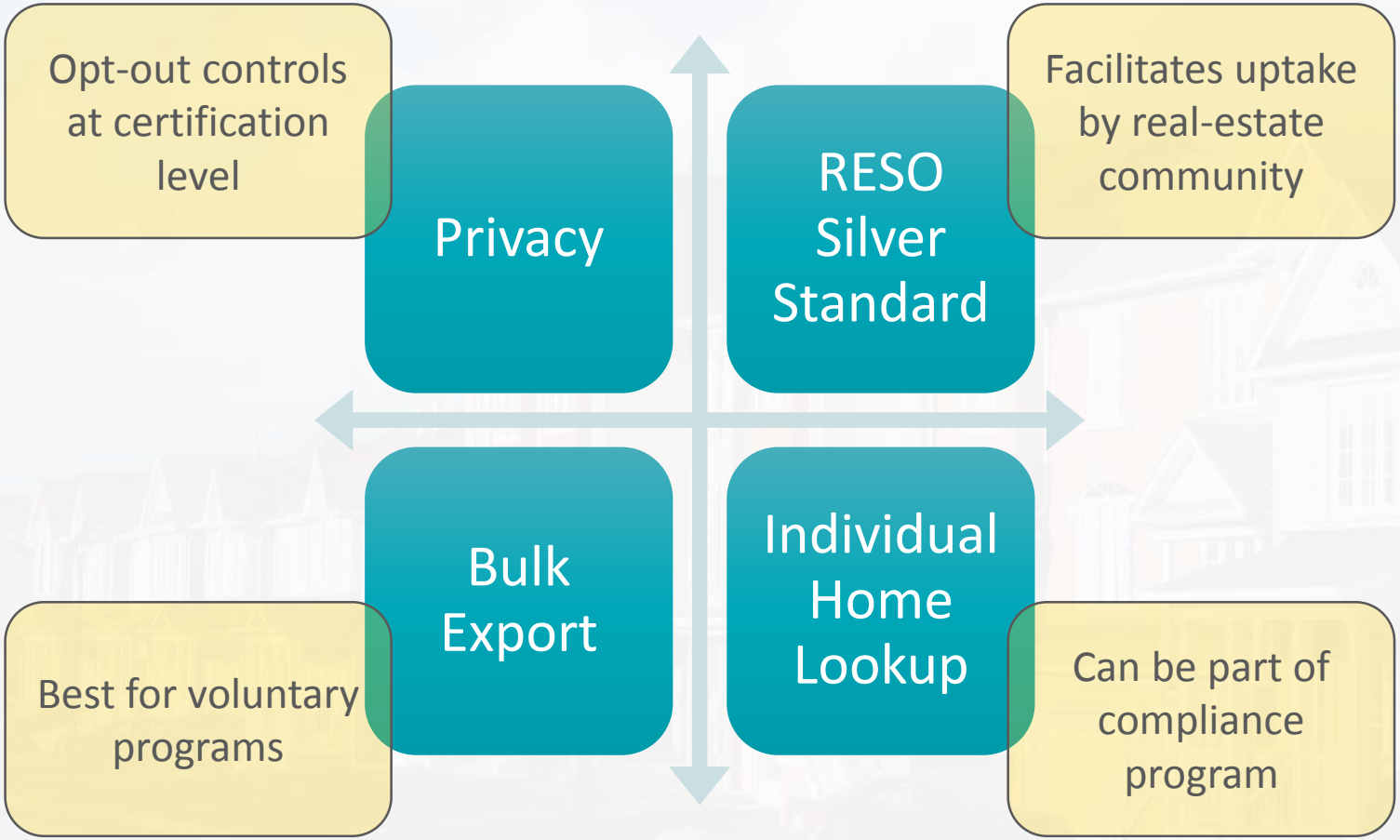


# HELIX For Auditors, Realtors and Assessors

*HELIX works across 7 pilot efficiency*

# HELIX for Cities & States

# HELIX for MLSs



# Where Does HELIX Go From Here?

HELIX
Home Energy Labeling Information eXchange

| Geographic Expansion | Scope Expansion |
| --- | --- |
| ▪ Continue incorporating regional program data<br>▪ Finish incorporating certification data<br>▪ Expand to NEEP's 13 States | ▪ Funded to collect, manage and export residential solar information for 20 States<br>  ▪ Generic infrastructure to collect efficiency measures on home<br>▪ In discussions to include:<br>  ▪ Code compliance<br>  ▪ Efficiency program attributes<br>  ▪ Green addendum attachment |

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Accelerating Procurement, Product, and Performance

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