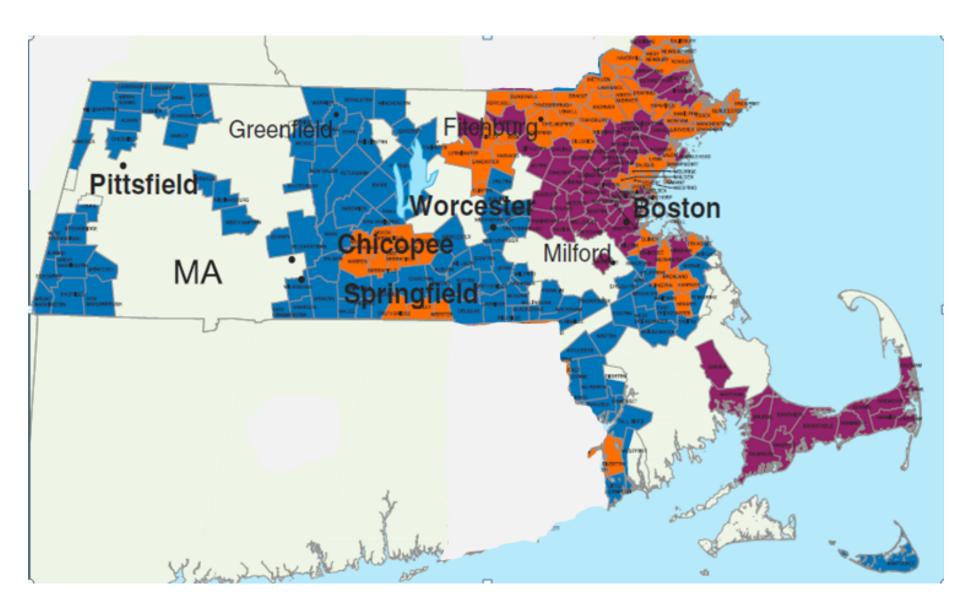
How Now to Crash a Party:

improving customer and implementer satisfaction with automated workflow a better data

October 22, 2018



National Grid Gas and Electric in MA



Introduction

MassSave Home Energy Services Program

A Home Performance with ENERGY STAR program

- 1. Market rate and moderate income customers
- 2. 40,000 to 50,000 home energy audits
- 3. \sim 15,000 weatherization jobs
- 4. Rebates for equipment and appliances
- 5. Three administrative vendors
- 6. 100+ independent contractors



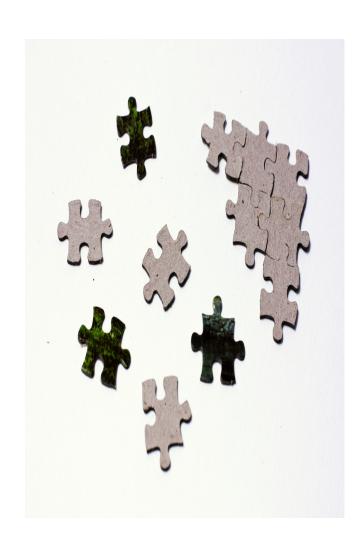


Previous world

Mixing and matching systems

- 1. Outdated software patched together
- 2. Vendors using different software
- 3. Apples-to-oranges reporting
- 4. Manual double data-entry
- 5. No utility access to data
- 6. Paperwork filled out by hand

Inefficient processes, disjointedness, data problems



Goals

Enter the world of big data

- 1. Cloud-based real time data
- 2. All data entered in real time
- 3. All vendors, All contractors, All projects
- 4. Customer forms auto-generated
- 5. Paperless process
- 6. Better reporting and analytics



One system of record for everyone and everything

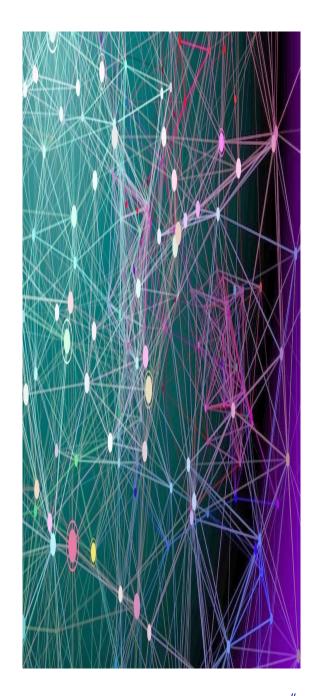
Advantages

Real-time accurate program snapshot

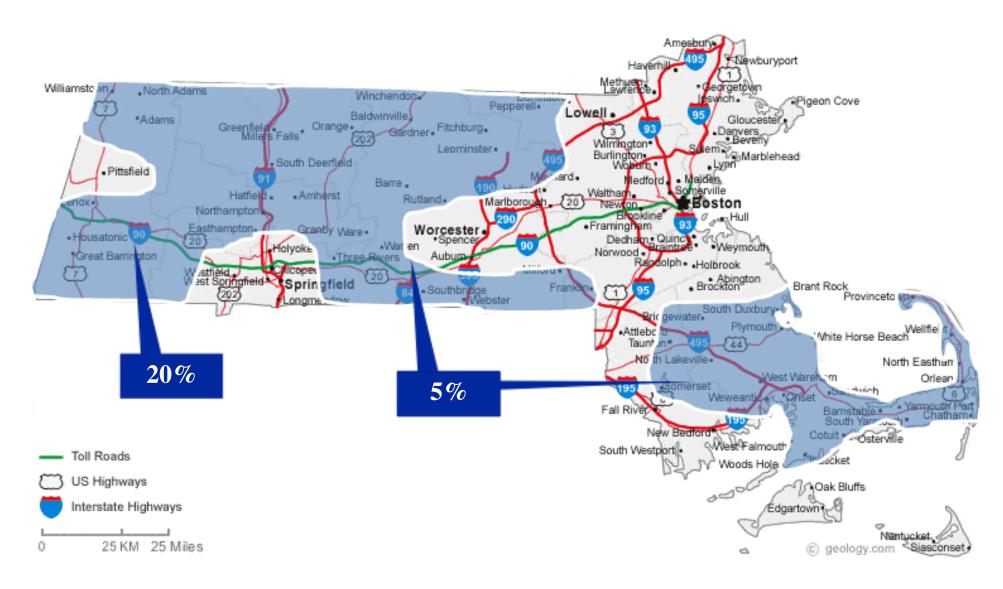
- 1. Immediate access to customer data
- 2. Better forecasting
- 3. Track program trends
- 4. Refine target marketing
- 5. Time savings

Intuitive, streamlined, efficient





Challenge – lack of reliable connectivity



Possible solutions

Collaborative effort with vendors and contractors

- 1. Offline tools
- 2. Signal boosters
- 3. Use customers' internet connections
- 4. Creative programming solutions



Booster pilot

Manufacturers claims – boosts cell signals up to 32x

- 1. Three contractors
- 2. Two kinds of signal boosters
 - a. Amplifiers
 - b. Antennae
- 3. Different carriers
 - a. Verizon
 - b. AT&T



Mediocre results

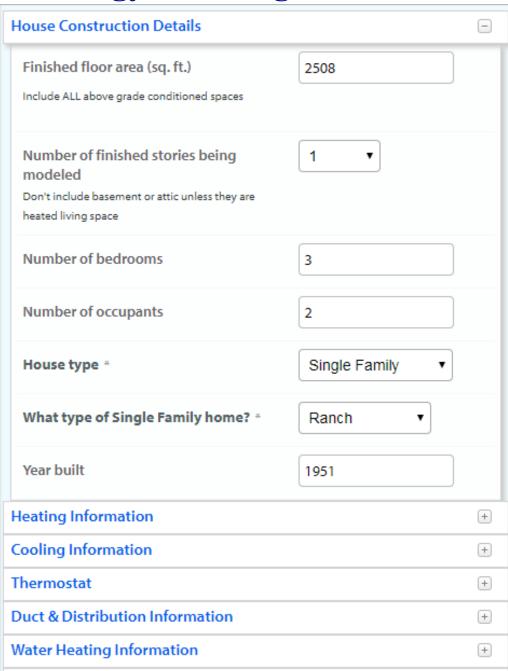
Final solutions

A combination

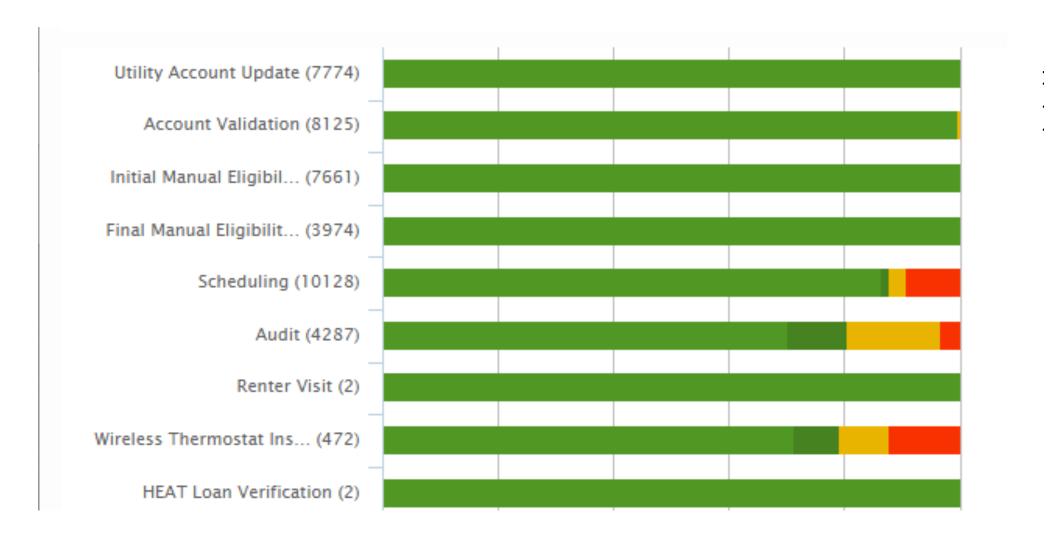
- 1. Advanced web form logic
- 2. Worst areas simplified offline spreadsheet
- 3. Import and auto-parse offline spreadsheet if necessary



The final result – energy modeling tool

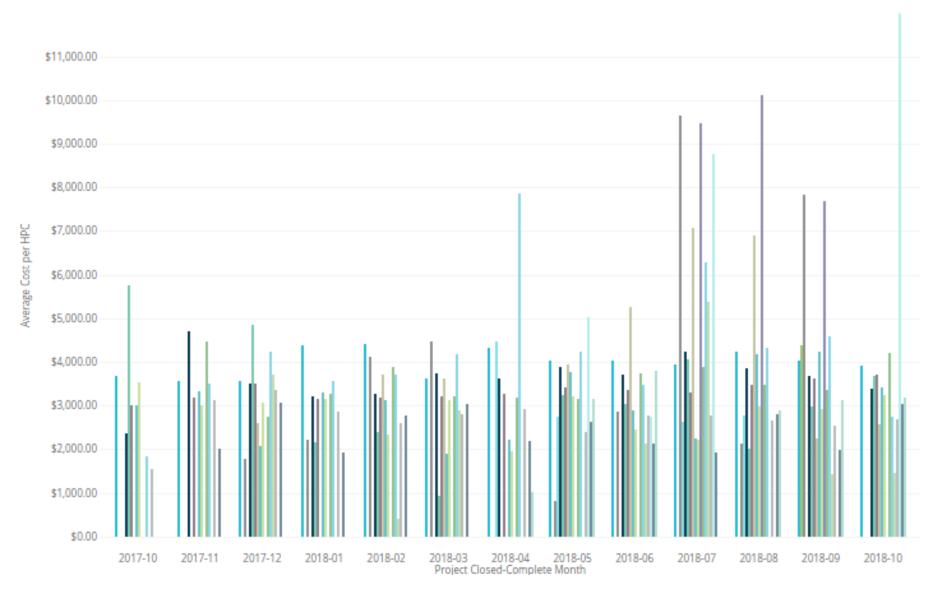


The final result – SLA tracking

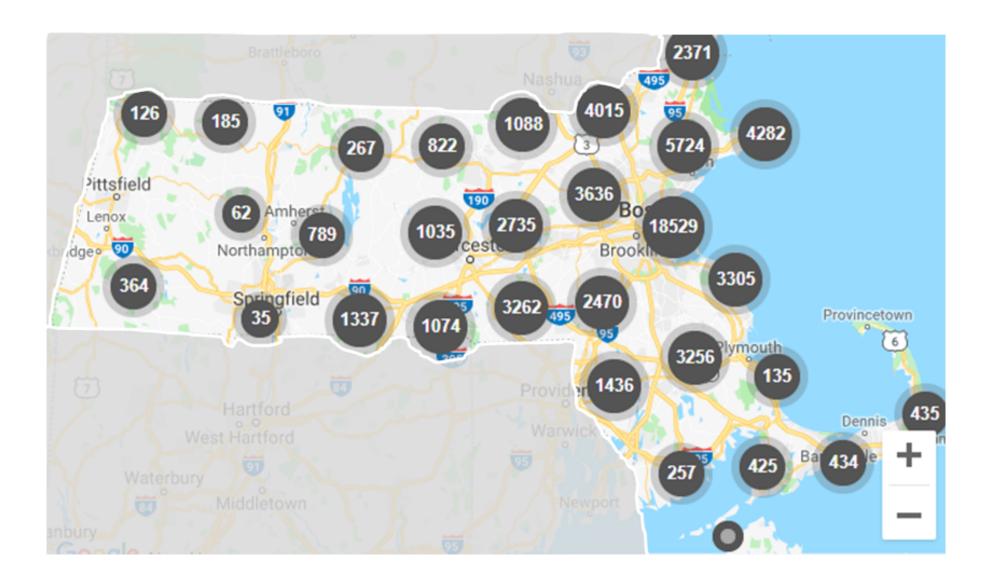


The final result - reporting

Average WX Contract Size - Per HPC

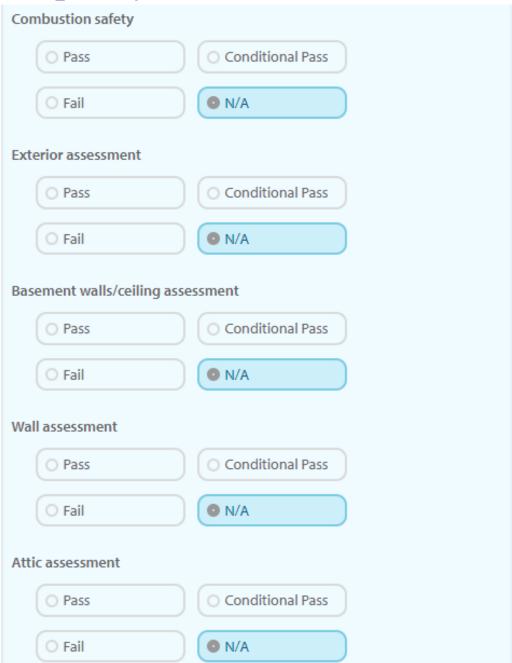


The final result - analytics



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The final result – quality assurance



The final result – customer satisfaction

How satisfied were you with the contractor's explanation of the work to be performed?



Satisfied

Did the contractor answer all your questions? If no, please explain in the comments section.



Yes

How satisfied were you with how well the contractor cleaned up following the installation of insulation and/or air sealing?



Satisfied

How well did the energy efficiency improvements you made to your home meet your expectations?



Well

Would you recommend this contractor to a friend or family member?



Yes

Presenter



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Greg Krantz is the lead program manager for National Grid's MassSave Home Energy Services Program – a Home Performance with ENERGY STAR program serving over 40,000 customers annually with energy audits and weatherization. Greg has over 20 years of management experience in the homebuilding and energy efficiency industries and holds multiple industry certifications. He is also a journalist and has written articles covering the areas of energy efficiency and real estate.

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