



ONETOUCH[®]

creating healthy & energy-efficient housing

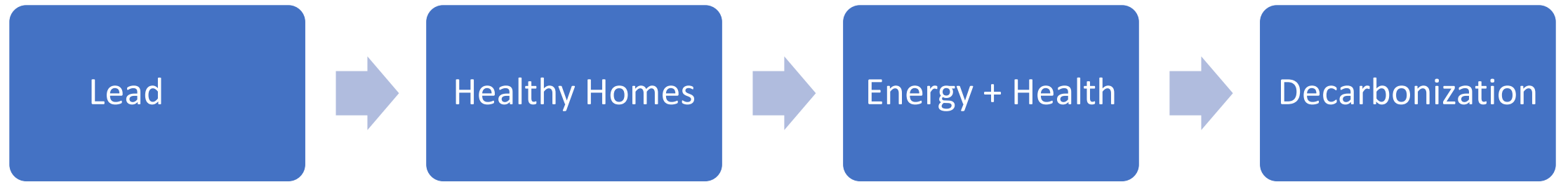
One Touch Approach for Health, Housing, and Energy

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Our Journey



Energy Efficiency Can Improve Occupant Health

Fewer respiratory issues *(single-family)*

- 12% decline asthma ED visits
- 71% decline asthma symptoms
- 9% fewer cold symptoms
- 5% reduction sinus infections

Reduced arthritis symptoms & thermal stress *(multi-family)*

- 9% fewer arthritis symptoms
- Decline cold-related urgent care

Better physical & mental health *(single-family)*

- 48% reduction poor mental health
- 48% reduction physical health described a “not good”

Sources: Tonn et al, Health and Household Related Benefits Attributable to the National Weatherization Program, 2014; Bryesse, Weatherization Combined With Community Health Worker In-Home Education on Asthma Control, *APHA*, 2013; Wilson J, et al. (2014). Watts-to-Wellbeing: does residential energy conservation improve health? *Energy Efficiency*, 2014.

The Need for A One Touch Approach

Better coordination
and improved
services for clients



Home visiting programs have limited scope and family needs are broad.



Programs do not have effective ways to connect families to health, housing and energy services.



Opportunities exist to reduce program costs (e.g., intake, wasted visits, leverage funds to align work).



We need to build effective cross sector collaborations and track what happens.

One Touch® is a coalition building and electronic referral program that identifies pressing participants needs and connects clients to appropriate local partners who can provide services.

Typical One Touch Partners



Health

Lead
Asthma
Elder Services/Falls
Smoking Cessation



Housing

Government Rehab
Habitat for Humanity
Rebuilding Together
Community Programs

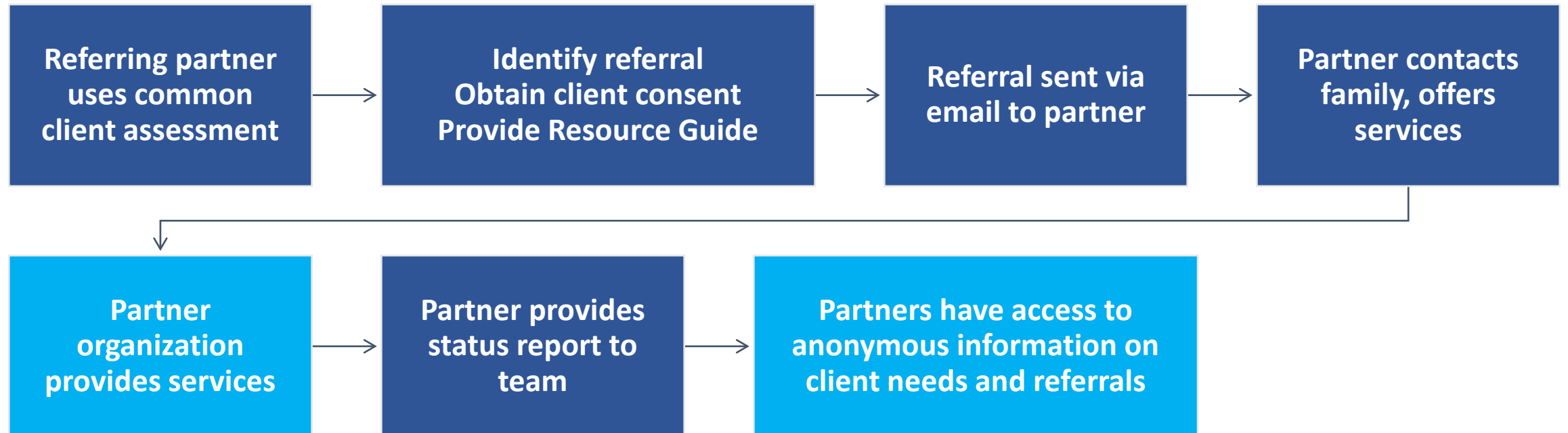


Energy

Weatherization
Utility Programs



One Touch Survey and Referral Process



Automated
email sent with
referral & full
survey results
attached

You have a One Touch referral for: Housing Rehab Loans – United Housing

The referral was made by Shirley Hui from Memphis Lead Hazard Reduction Program.

The home was visited on 04/04/2022.

Address: 100 First Ave Memphis 12345

The following comments were provided by the home visitor:

This is a test survey with referrals to TVA Home Uplift and United Housing (not Klondike)

This household has the following housing rehab issues that prevent energy improvements:

Other:

This household has the following housing rehab issues:

Plumbing leaks, Mobility or trip/fall repairs

The full set of referrals and survey responses is attached to this email.

If you have questions about this referral, please send email directly to : shuiallen@gmail.com

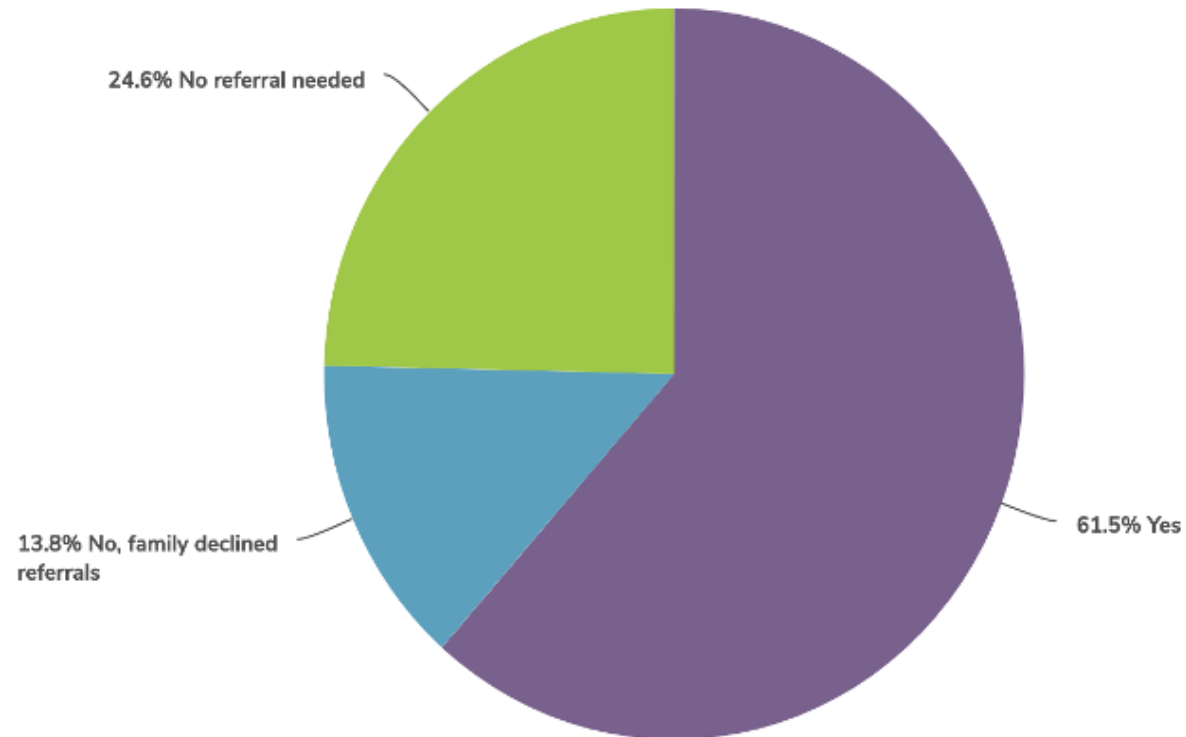
Internal use: id: 8111292 / r: 04/04/2022 / v: 04/04/2022



We Can Send You Regular Reports

Homes surveyed by your organization AND referrals made to your organization

Sample output



One Touch in Action

VT

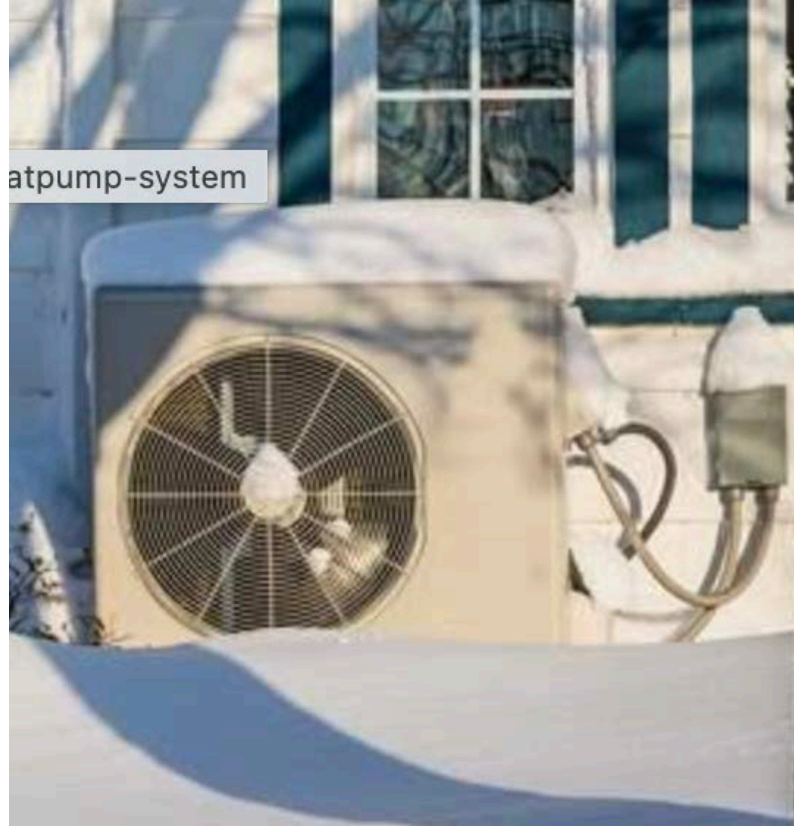
- Weatherization
- >4,000 to date
- 30% clients need referral

CT

- Hartford & Waterbury
- Lead, healthy homes, energy

TVA

- Lead, energy, housing rehab



Decarbonization – The Next Frontier

HEAT PUMPS ARE THE HEALTHY CHOICE

Buildings are a significant contributor to carbon emissions and air pollution in Massachusetts because most are heated by burning fossil fuels like gas and oil.

Energy efficient heat pumps that are powered by electricity are healthier and safer than fossil fuels.

They are also better for our planet because they can be powered by clean, renewable energy.

Improves AIR QUALITY

In Massachusetts, buildings powered by fossil fuels contribute over **7 times** more outdoor nitrogen oxides than electricity generation,¹ and air pollution from buildings cost an estimated \$8 billion in health impact costs in 2017.²



Healthier FOR CHILDREN

Air pollution aggravates asthma, which affects **1 in 8** children in Massachusetts and disproportionately affects low-income children.³ Close to half (41%) of children with current asthma were unable to go to school or daycare for at least one day during the past twelve months due to asthma.⁴

¹ EPA. National Emissions Inventory. 2017. epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data

² rmi.org/health-air-quality-impacts-of-buildings-emissions/#MA

³ Mass.gov. Statistics about asthma. mass.gov/service-details/statistics-about-asthma ⁴ Ibid.

⁵ Barreca, A, Clay, K, Deschenes, O, Greenstone, M, and Shapiro, J. Adapting to Climate Change: The Remarkable Decline in the US Temperature-Mortality Relationship over the Twentieth Century *Journal of Political Economy* 2016 124:1, 105-159



Efficient HEATING & COOLING

Heat pumps provide cooling as well as heating. Because of climate change, Massachusetts will have more hot summer days above 90 degrees. Access to air conditioning is very important for preventing heat-related deaths.⁵ In heat waves, people over 65 without air conditioning are **4 times** more likely to die from heat-related illnesses than those with air conditioning.⁶

Fights CLIMATE CHANGE

Climate change is affecting our health in many ways, including more insect-related illnesses like Lyme disease, respiratory illnesses, and weather-related emergencies. Switching from fossil fuel heating to a heat pump is one of the biggest ways to cut household carbon dioxide emissions. Using electricity to heat buildings will reduce carbon emissions and help fight climate change, especially as wind and solar replace natural gas for generating electricity.



Safer THAN FOSSIL FUELS

Unlike natural gas, oil or propane heating systems, heat pumps never emit carbon monoxide.⁷ At low levels carbon monoxide can increase hospitalizations of people with heart disease, and at high levels can cause death. Gas is also explosive, and gas leaks can pose a public safety hazard.



- ✓ Take advantage of rebates for heat pumps at MassSave.com
- ✓ Instead of buying window air conditioning units, buy small, very efficient "mini-split" heat pumps that heat AND cool.
- ✓ When updating or adding central air conditioning,

TAKE ACTION

Learn more at

Heat Risks Are Increasing

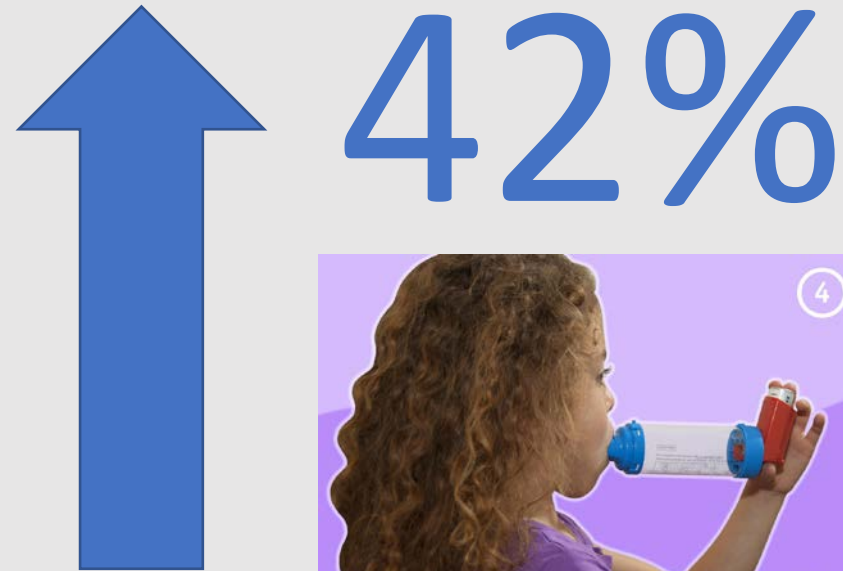
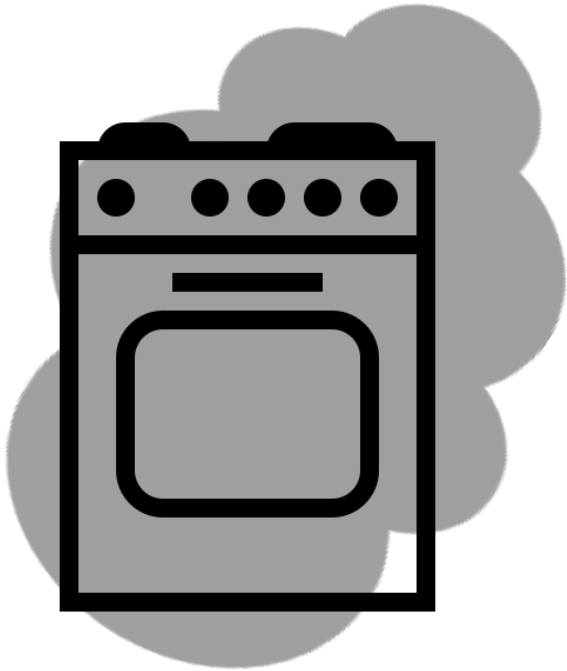


US annual heat related deaths could increase by 97,000 by 2100

By 2050 Boston could have 30 days/year >90 degrees, compared to the current 9 days/yr.

Cooking and Asthma Risk

META ANALYSIS FINDS COOKING WITH GAS INCREASES RISK OF CURRENT ASTHMA IN CHILDREN BY 42%



Questions and Discussion

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