



Department of Commerce

Washington's Weatherization Plus Health Program

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February 8, 2019

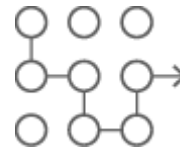
We strengthen communities

The Department of Commerce touches every aspect of community and economic development.

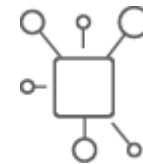
We work with local governments, businesses and civic leaders to strengthen communities so all residents may thrive and prosper.



Energy



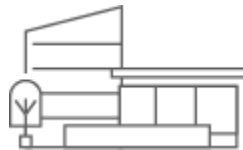
Planning



Infrastructure



Business Assistance



Community Facilities



Housing



Safety /
Crime Victims



Weatherization Plus Health Benefits

Occupant Health Benefits of Residential Energy Efficiency

November 2016

An E4The Future, Inc. White Paper

Achieving Health and Social Equity through Housing: Understanding the Impact of Non Energy Benefits in the United States

 Green & Healthy Homes Initiative*



U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy



Home Rx: The Health Benefits of Home Performance

A Review of the Current Evidence

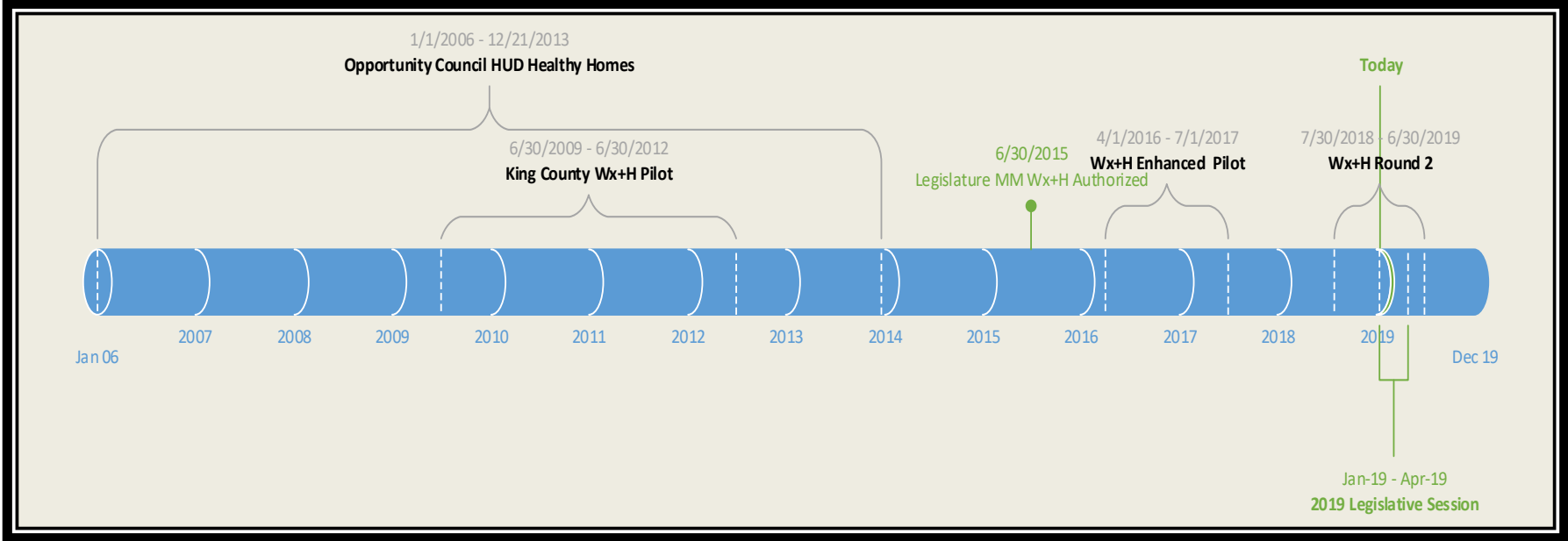
Jonathan Wilson, National Center for Healthy Housing (NCHH)
David Jacobs, NCHH
Amanda Reddy, NCHH
Ellen Tohn, Tohn Environmental Strategies
Jonathan Cohen, U.S. Department of Energy (DOE)
Ely Jacobsohn, DOE

December 2016

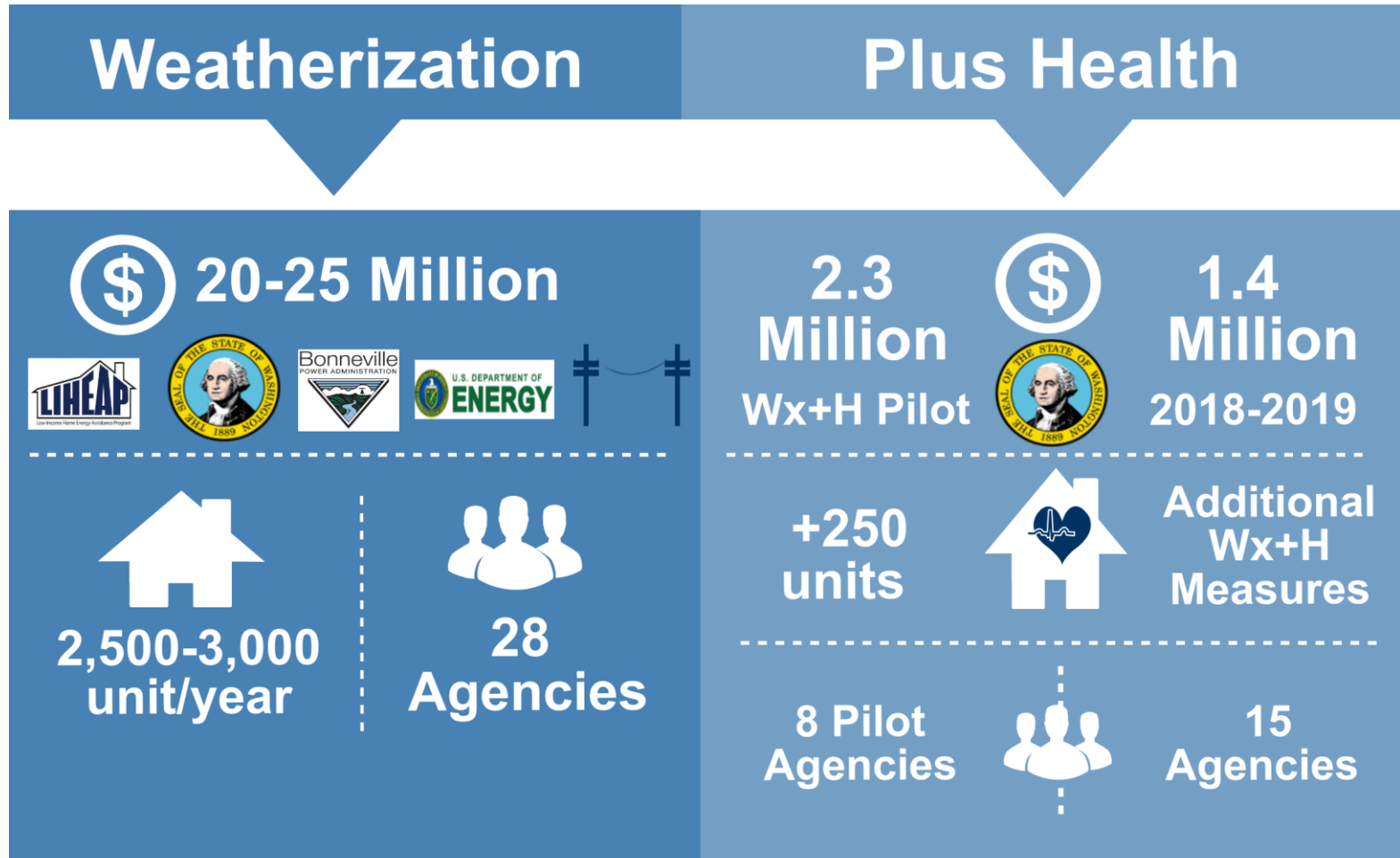


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Where We Have Been



Low-Income Weatherization in Washington



Where are we headed?

Build more relationships with local medical community

Develop approaches for integrating Wx+H services

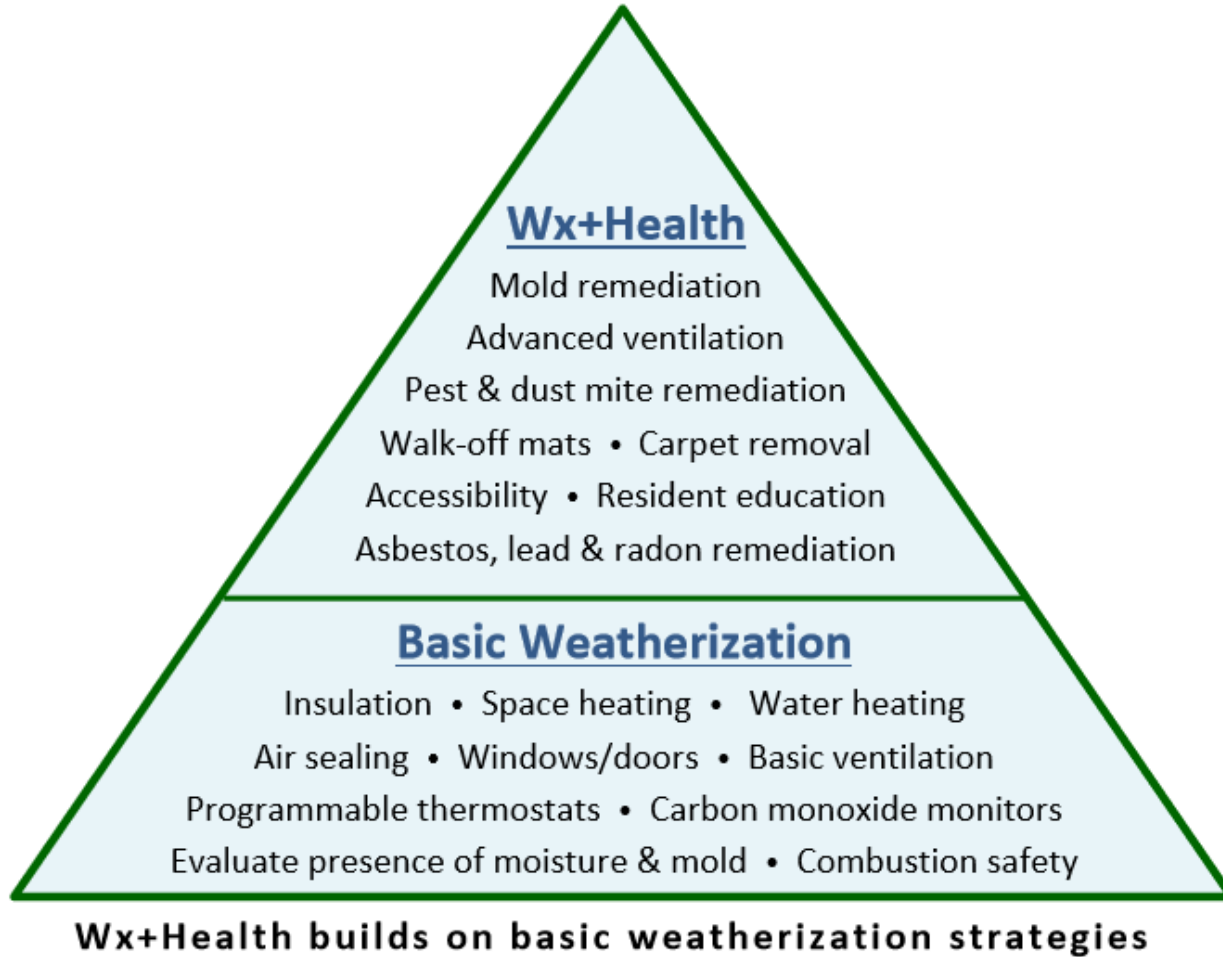
Show the benefits of integrated Wx+H services

Increase capacity to deliver services

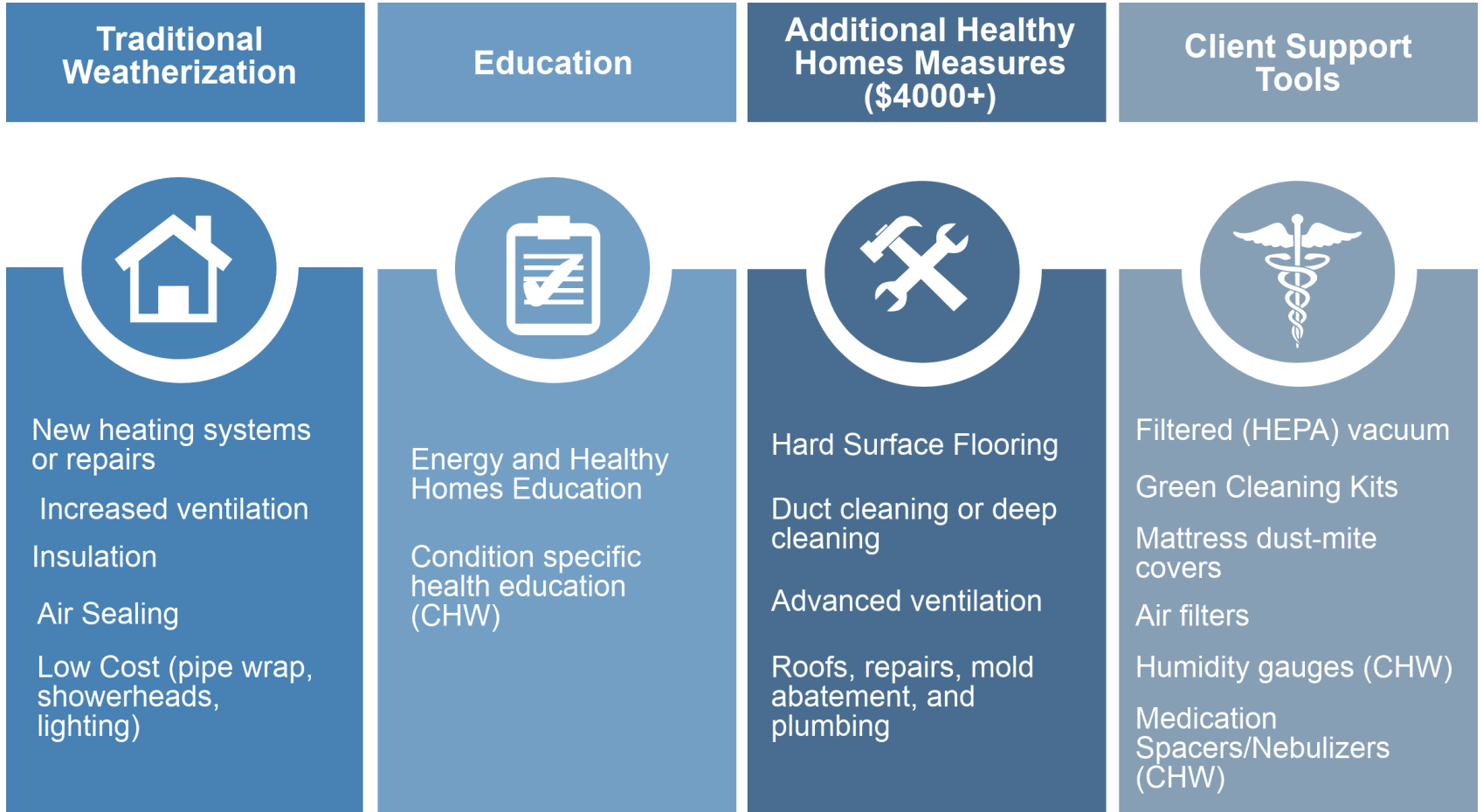
The vision is clear



What does it look like?



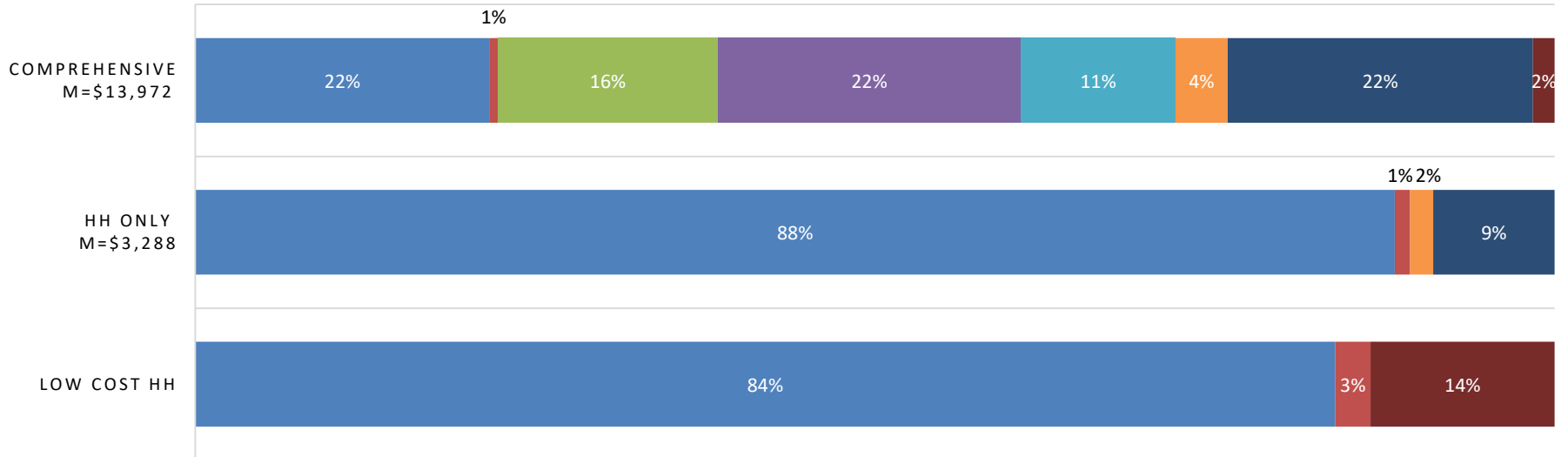
Weatherization + Health- Program Components



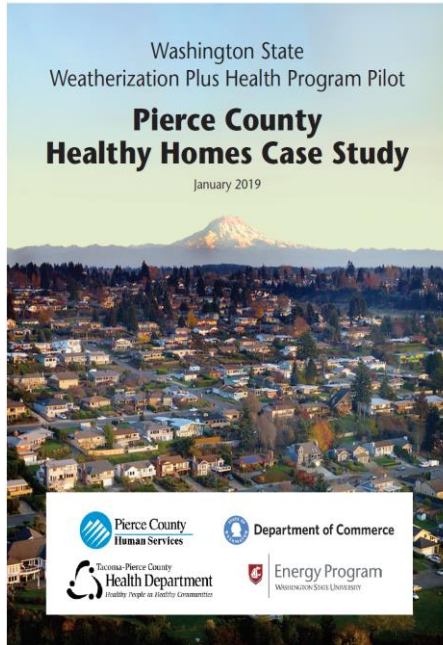
Results: Leveraging Weatherization Services

WX+H INSTALLED MEASURE COSTS BY FUND SOURCE

Enhanced Basic MM LIHEAP DOE BPA Utility Other



Initial Results Are Promising



Taking Action



86% of households getting follow up home assessments reported taking 2 or more actions to reduce environmental triggers.

Respiratory Control



65% reported improvement (47% significant improvement in ACT scores). The percentage of those with respiratory issues conditions under control went from 42% to 67%.

Quality of Life



70% Reported an improvement in Quality of Life as measured by AQLQ and CCQ (38% of improvements were significant).

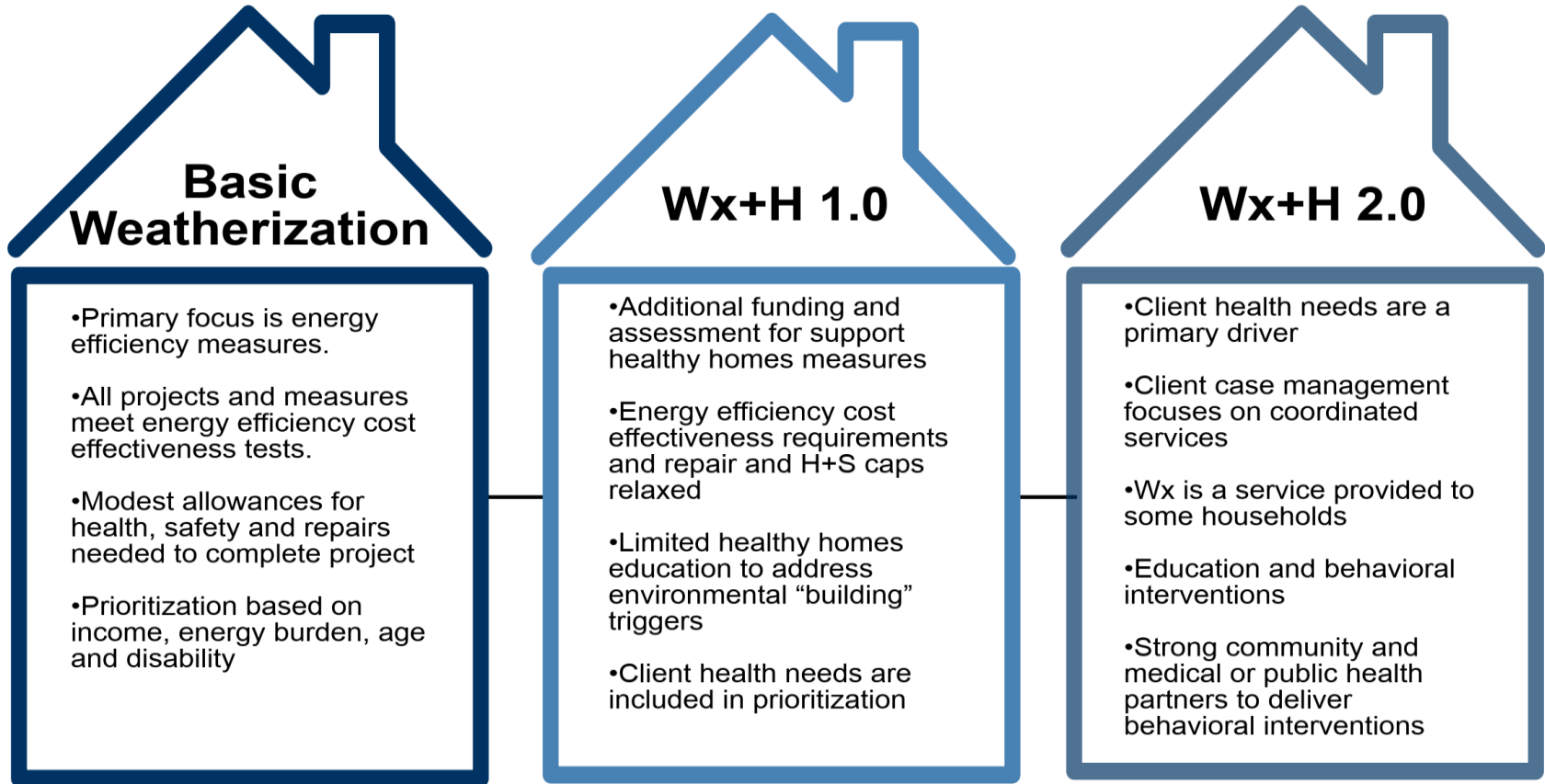
Fewer Medical Visits



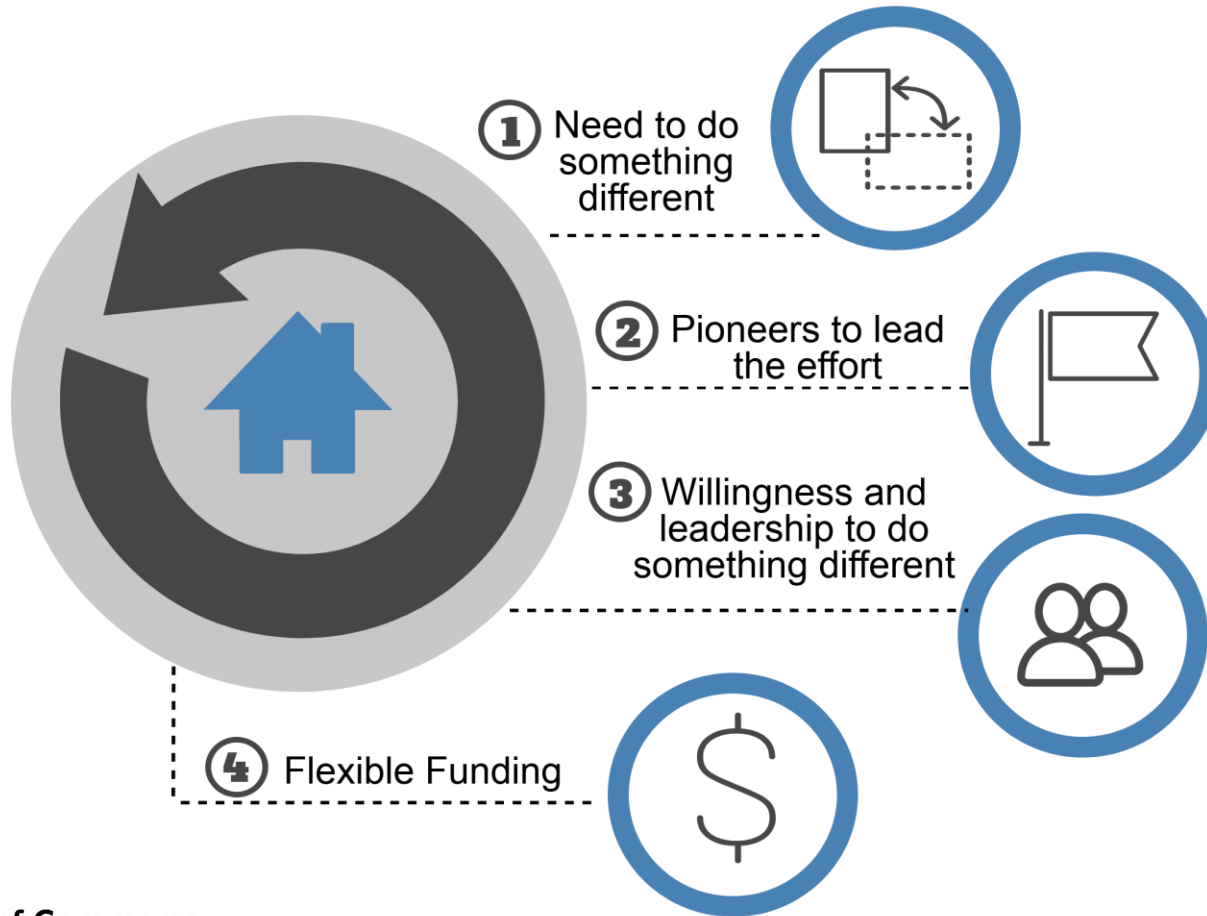
One year after initial services, study participants reported 4 fewer urgent care visits, 15 fewer ER visits, and 6 fewer hospital admissions.



What worked?



Can This Model be Replicated?



The Future



Near

- Continuation funding from for 18/19 biennium, approved but less than pilot (All 8 grantees continuing to provide services, and 7 new agencies)
- Continue to leverage federal funds and increase state funding
- Continue to assess opportunities for flexibility with current program funding

Farther

Document health impacts for funders and make Wx+H 1.0 services available statewide

Farthest

Build capacity with weatherization and community health providers to move program to a Wx+H 2.0 model.



Resources and References

Achieving Health and Social Equity through Housing: Understanding the Impact of Non Energy Benefits in the United States, Green and Healthy Homes Initiative, (see Slide #5) https://www.greenandhealthyhomes.org/wp-content/uploads/AchievingHealthSocialEquity_final-lo.pdf

Achieving Home Rx: The Health Benefits of Home Performance, Department of Energy, December, 2016 <https://e4thefuture.org/wp-content/uploads/2016/11/Occupant-Health-Benefits-Residential-EE.pdf>

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Weatherization + Health, Health and climate Change co-Benefits of Home Weatherization in Vermont, Vermont Department of Health, December 2018.

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Washington State Weatherization Plus Health website, <https://www.commerce.wa.gov/growing-the-economy/energy/weatherization-and-energy-efficiency/matchmaker/weatherization-plus-health-wxh/>

Washington State Weatherization Plus Health Pilot: Implementation and Lessons Learned, Washington State University Energy Program, July 2018, <http://www.commerce.wa.gov/wp-content/uploads/2018/08/WxHSummaryReport1.pdf>





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