Objective



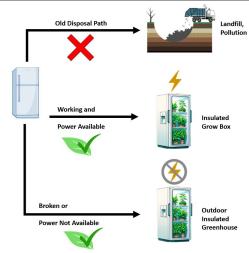
ReGrowth aims to mitigate the environmental impact of large format e-waste, beginning with <u>repurposing</u> undesired refrigerators into grow boxes and insulated greenhouses for individuals and local communities with simple conversion kits.

This initiative supports the dual purpose of mitigating the nearly 500,000,000 kg CO2-equivalent annual emissions from refrigerators disposed in the US¹, as well as educating the public about the repurposing link in the Re-X chain.

1. EPA - Energy and Global Warming Impacts of Refrigerants - https://shorturl.at/ailzO

Approach

- Create affordable refrigerator conversion kits
- Conduct a pilot program with individuals and local community gardens
- Incorporate design feedback and expand to more communities



Users



Individuals

- Powered Grow Boxes
- Passive Insulated Greenhouses

Targeting the 66% of US households that already own house plants, empowering them to grow their own high value edible plants and experience the benefits of a circular economy.

Community Gardens

Passive Insulated Greenhouses
Targeting an initial pilot program with the Wenatchee
Master Gardeners chapter and Wenatchee River Institute,
highlighting the circular economy to the public

Milestones (2024)

Mar - Initial Greenhouse and Grow Box designs complete

June - First development cycle and prototyping complete for Greenhouse and Grow Box conversion kits

Aug - Environmental testing complete, pilot program commenced

Sept - Initial pilot program feedback received, incorporate into Re-X Phase 2 plan

Oct - Kit updates complete, ready for larger scale pilot