

Deep Carbon Reductions in the Transport Sector: Impacts on Affordability and Displacement

A CNCA Innovation Fund 2016 Grant

Coming to fruition in August 2016, this project aims to address issues of displacement and gentrification through research and policy development. The project was funded with \$56,250 from the Bullitt Foundation and is being executed as follows. Portland OR is the test case, with Seattle WA and Vancouver BC participating.

1	Build upon the citywide assessment of household vulnerability to understand the potential housing mismatch in the corridor, focusing on census tracts with a three or more vulnerability characteristics based on the citywide analysis. Document the specific characteristics of households by geography within the Powell-Division corridor. Deliverable: Household Vulnerability Gentrification and Displacement Risk Analysis.
2	Apply the Housing Field Study recently completed by Portland for the Powell-Division potential major station areas to identify properties that may be likely candidates for redevelopment by the private sector; this analysis will also consider improvement to land value, construction costs, real estate trends, and other relevant data. This assessment will be provided to Portland State University to aid in the development of the model identified in Task 5. Deliverable: Housing Field Study Assessment
3	Complete an economic meta-analysis of existing case studies of property values and of the conversion effects of high-capacity transit investments. Assess the types of housing associated with bus rapid transit station area development. Deliverable: Meta-analysis of Conversion Effects of High Capacity Transit and Assessment of Transit Proximity on Housing Cost and Type
4	Interview property owners and managers of rental housing (duplex through multi-family) in and near major station opportunity areas to understand their perspectives about the potential impact of the bus rapid transit investment and learn about their short and long-term plans for their properties to understand the future of rental housing in the corridor. Deliverable: Property Owner/Property Manager Survey
5	Using the results of Tasks 2-4, design and perform a simple and replicable model to analyze which households/household types are more likely to be displaced from the corridor, to which census tracts displaced households are likely to move, and the likelihood of those displaced households to use transit to commute or to meet other daily transportation needs. Deliverable: Model Potential Movement of Vulnerable Households
6	Using the research and results of Task 5, assess the likely change in carbon emissions based on changes to modeled daily transportation mode patterns. Deliverable: Model Carbon Emissions Associated with Household Movement
7	Produce clear methodology for a replicable linked model of transit, housing, displacement, and carbon impacts to enable similar analysis in other cities. Share with CNCA, C40, and USDN cities, and seek opportunities to present the approach and findings at workshops, conferences, and meetings. Present findings in detail to counterparts in Seattle and Vancouver. Deliverable: Disseminate Methodology