

# Unreinforced Masonry (URM) Policy Committee

March-October 2012

## April 2012

### Survey Data Excerpt - Non-Retrofitted URMs

The URM Policy Committee requested additional information from the DPD URM survey on buildings that have not been retrofitted. This document provides information on the number of stories and occupancy of non-retrofitted URMs. Data was analyzed from the DPD Survey report, a 2008 snapshot generated from a windshield survey done by DPD staff and information from the 2007 Reid Middleton Report.

Occupancy data was determined by visual inspection using the categories in FEMA 154 Rapid Visual Screening of Buildings for Potential Seismic Hazard. This approach classifies uses into categories that do not necessarily align with occupancy definitions of Seattle Building and Land Use codes.

It is important to note that the information in the survey is meant to give a picture of the URMs in Seattle and is intended as a starting point for identifying URM buildings. ***Information about specific buildings has not been verified, and may not be accurate.***

Information on URMs has been grouped into three broad categories:

- Retrofitted to some degree
- No external evidence of retrofit, and
- No information

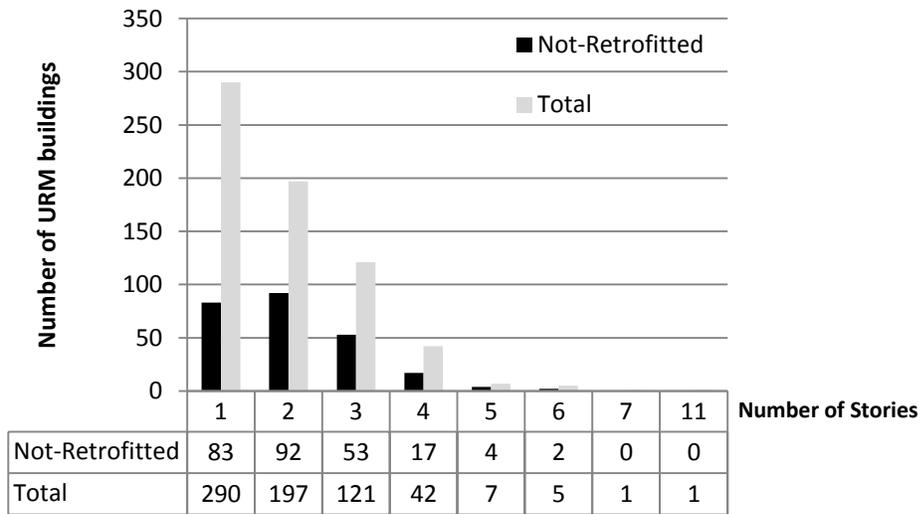
The DPD windshield survey did not collect retrofit data on URM buildings in Pioneer Square (PSQ), the Chinatown International District (ID) or Downtown Seattle. URMs in these locations were surveyed by Reid Middleton and that data is graphed separately from the DPD windshield survey information. Overall, DPD has no information on 48% of URM buildings and about 14% of URMs have been retrofitted to some degree. Approximately 39% show no external evidence of retrofit in 2008 – the subset of URM buildings analyzed for this document.

The following charts illustrate size and occupancy data from the DPD Survey for the 38% of non-retrofitted URMs outside of Downtown, PSQ and ID, and data from the Reid Middleton Survey on the 40% of non-retrofitted URMs within those areas.

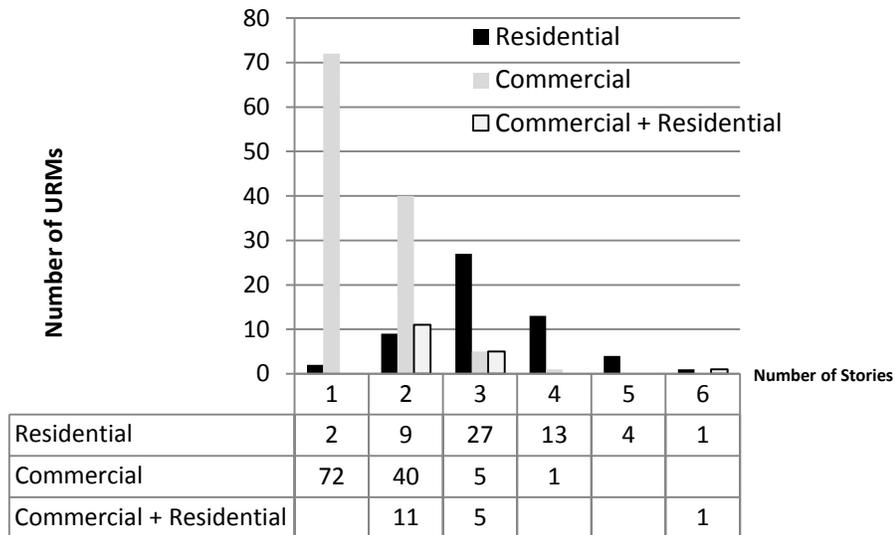
## Summary of Retrofit Information in DPD Survey (URMs Outside Downtown, PSQ, ID)

	Number of URMs	Percent <i>OUTSIDE</i> Downtown, PSQ, ID
Retrofitted to some degree	57	9%
<b>No external evidence of retrofit</b>	<b>251</b>	<b>38%</b>
No information	358	54%
URMs outside Downtown, PSQ, ID	664	

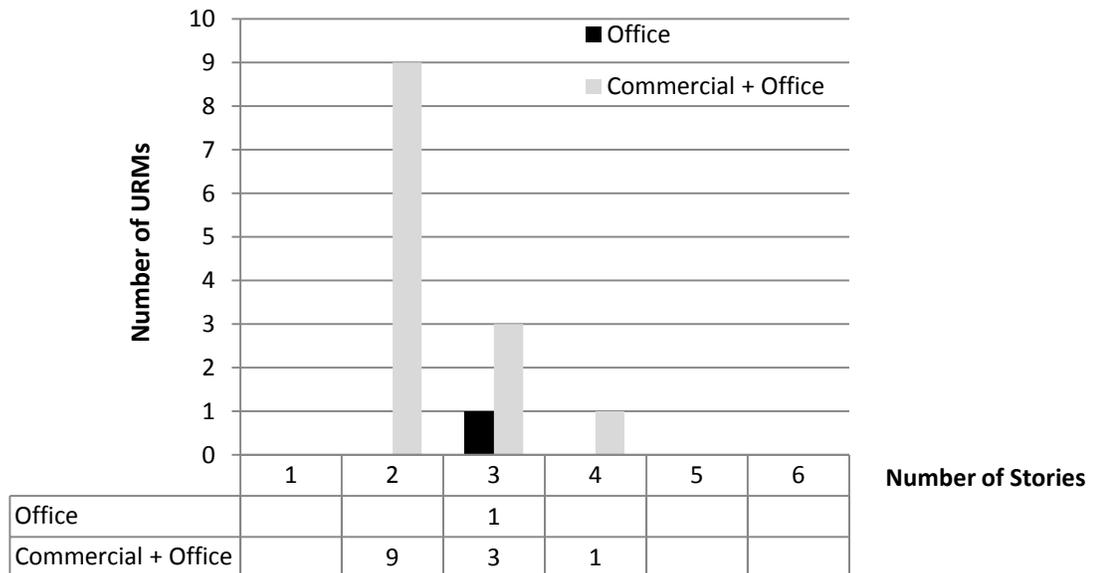
### URM Buildings not Retrofitted: *excludes* URMs located in PSQ, ID, or Downtown Seattle



**URM Buildings not Retrofitted:** *Survey excludes URMS located in PSQ, ID or Downtown Seattle*

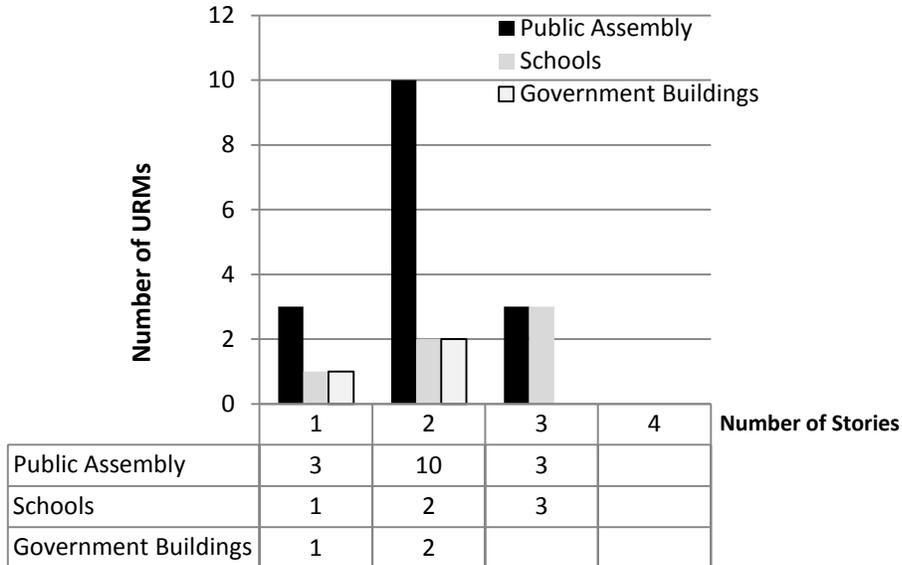


**URM Buildings not Retrofitted:** *Survey excludes URMs located in PSQ, ID, or Downtown Seattle*

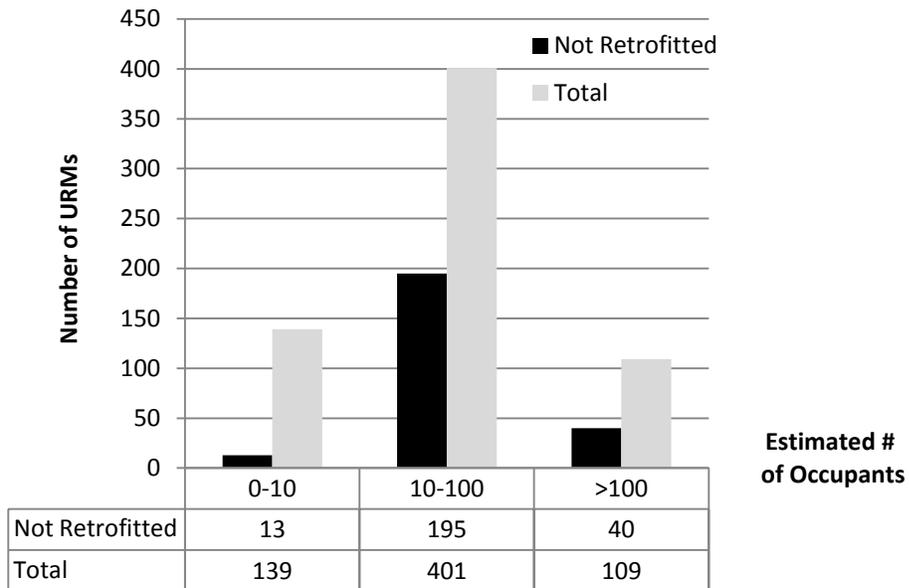


## URM Buildings not Retrofitted:

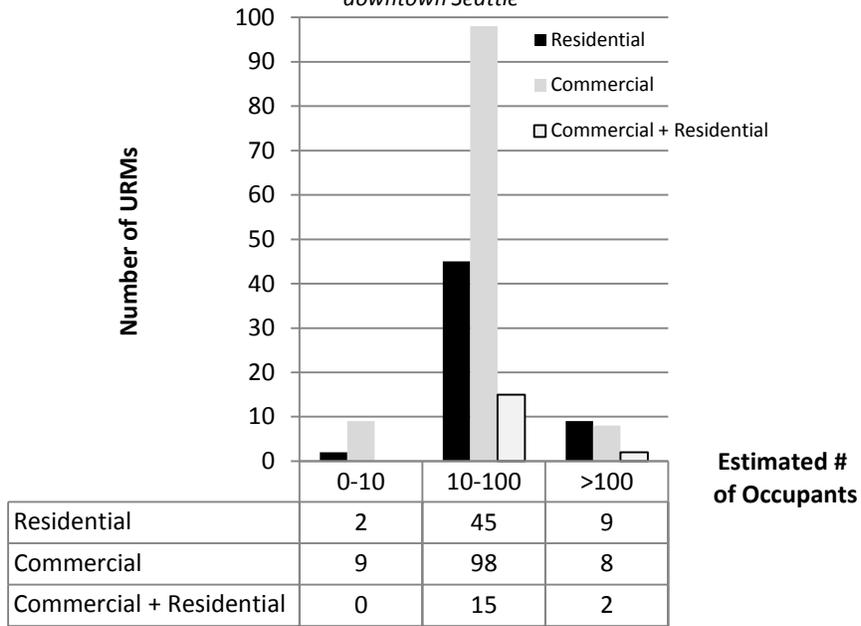
*Survey excludes URMs located in PSQ, ID, or Downtown Seattle*



## Estimated Occupancy of Non-Retrofitted URM Buildings: *Excludes URMs in PSQ, ID, and downtown Seattle*

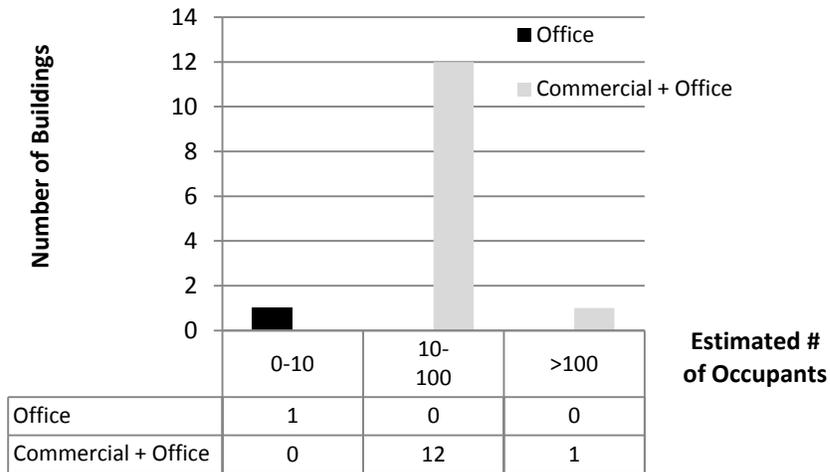


**Estimated Occupancy of Non-retrofitted URM : Estimated**  
*Number of URMs within occupancy ranges; excludes PSQ, ID, and downtown Seattle*



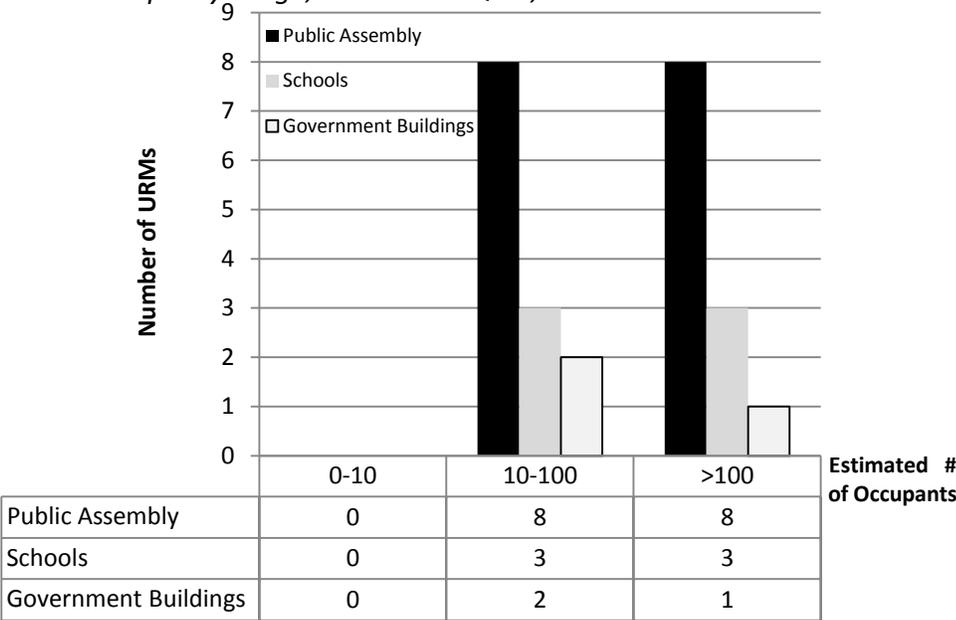
**Estimated Occupancy of Non-Retrofitted URM**

**Buildings :** *Estimated # of URMs within occupancy ranges; excludes PEQ, ID and downtown Seattle*



# Estimated Occupancy of Non-Retrofitted

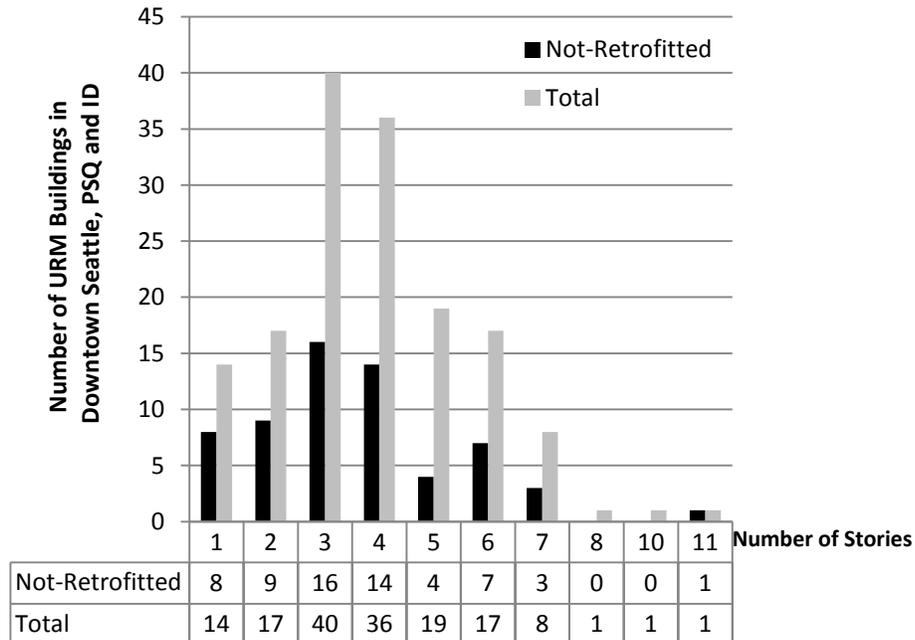
**URM Buildings:** *Estimated number of residents within occupancy range; excludes PSQ, ID, and downtown Seattle*



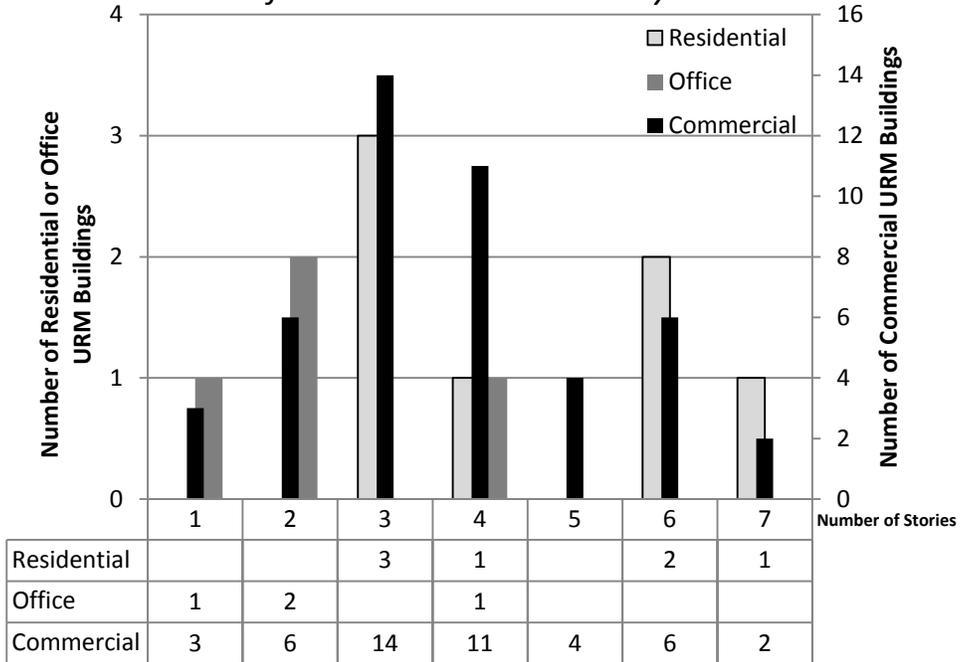
## Summary of Retrofit Information in Reid Middleton Survey (Within Downtown, PSQ, ID)

	Number of URMs	Percent <i>WITHIN</i> Downtown, PSQ, ID
Retrofitted to some degree	61	40%
<b>No external evidence of retrofit</b>	<b>61</b>	<b>40%</b>
No information	32	21%
URMs within Downtown, PSQ, ID	154	

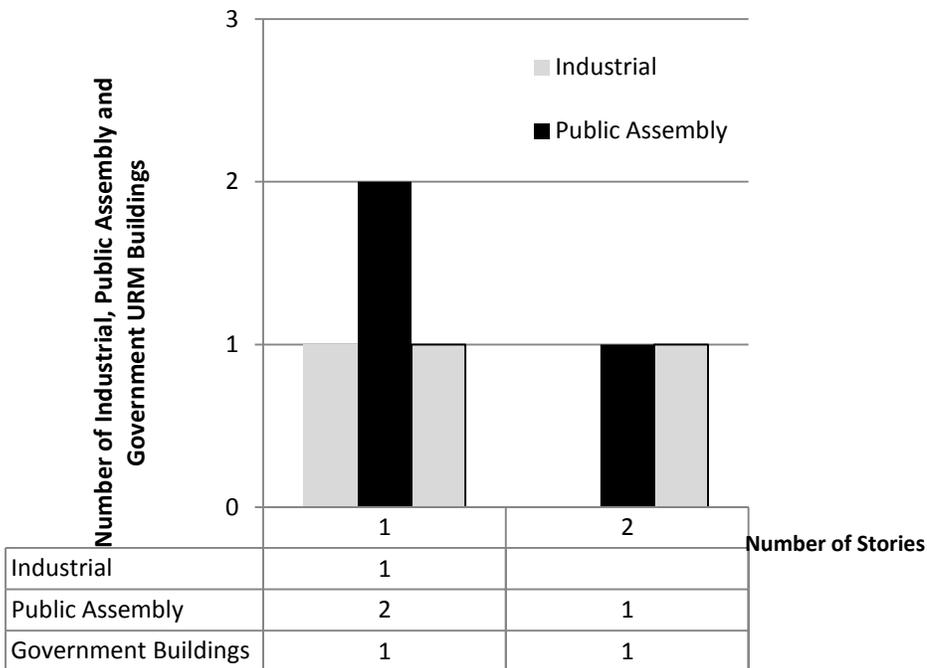
### URM Buildings not Retrofitted: *Includes Downtown Seattle, PSQ and ID from Reid Middleton Report*



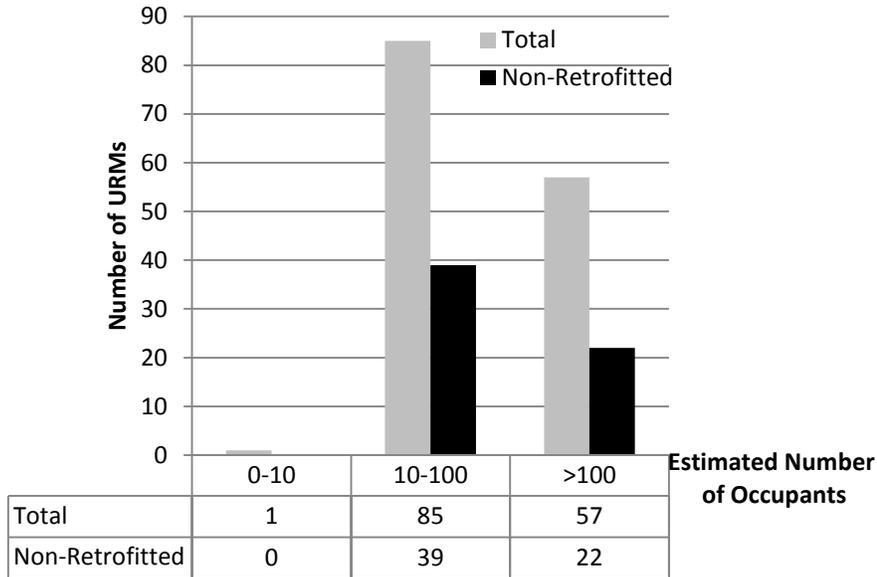
## Number of URM Buildings not Retrofitted: *Downtown Seattle and PSQ/ ID data from Reid Middleton Study*



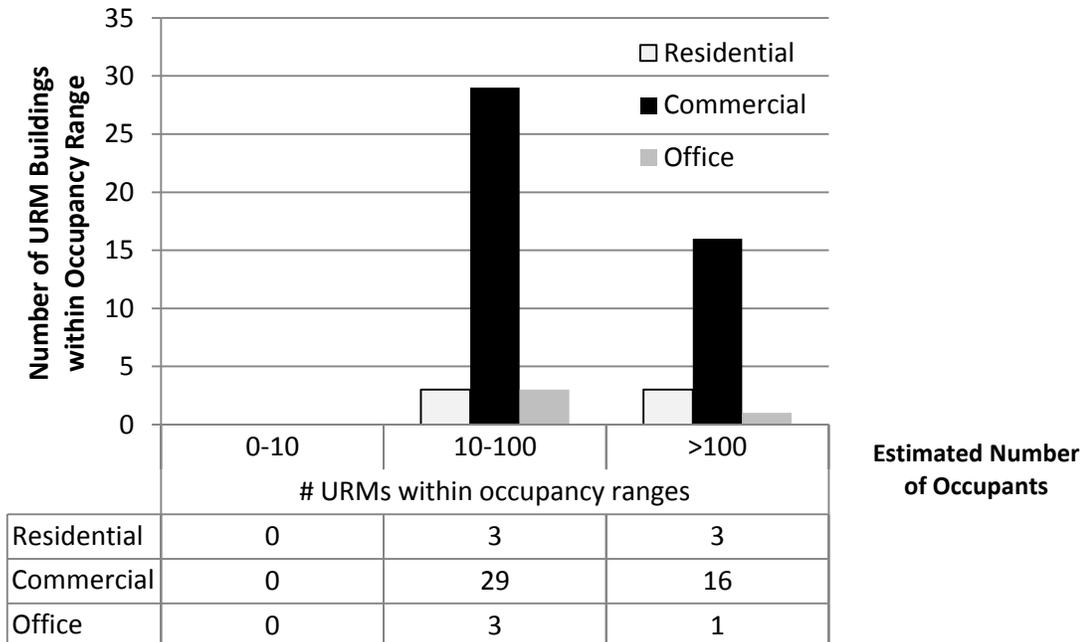
## Number of URM Buildings not Retrofitted: *Downtown Seattle and PSQ/ ID data from Reid Middleton*



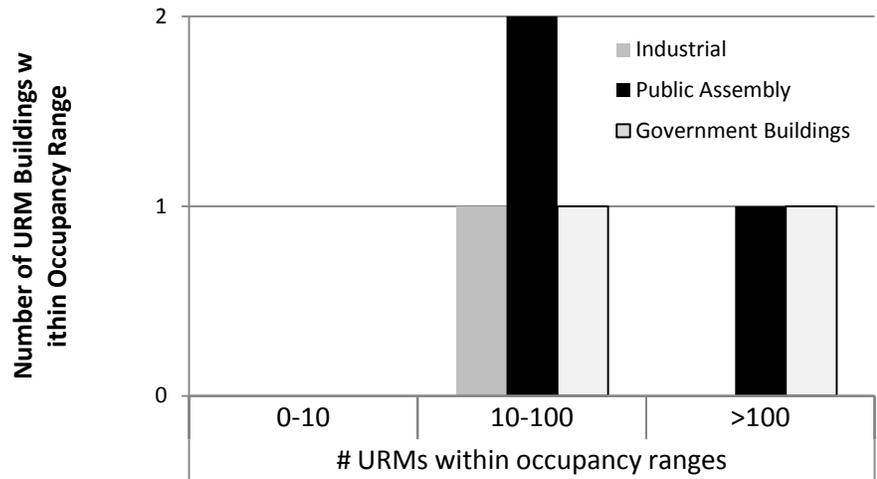
**Estimated Occupancy of Non-retrofitted URM Buildings; Includes Downtown Seattle, PSQ and ID from Reid Middleton Report**



**Estimated Occupancy of Non-Retrofitted URM Buildings; Includes Downtown Seattle and PSQ/ID data from Reid Middleton Report**



## Estimated Occupancy of Non-Retrofitted URM Buildings: Includes Downtown Seattle and PSQ/ID data from Reid Middleton Report



	# URM within occupancy ranges		
	0-10	10-100	>100
Industrial	0	1	0
Public Assembly	0	2	1
Government Buildings	0	1	1

Estimated Number of Occupants