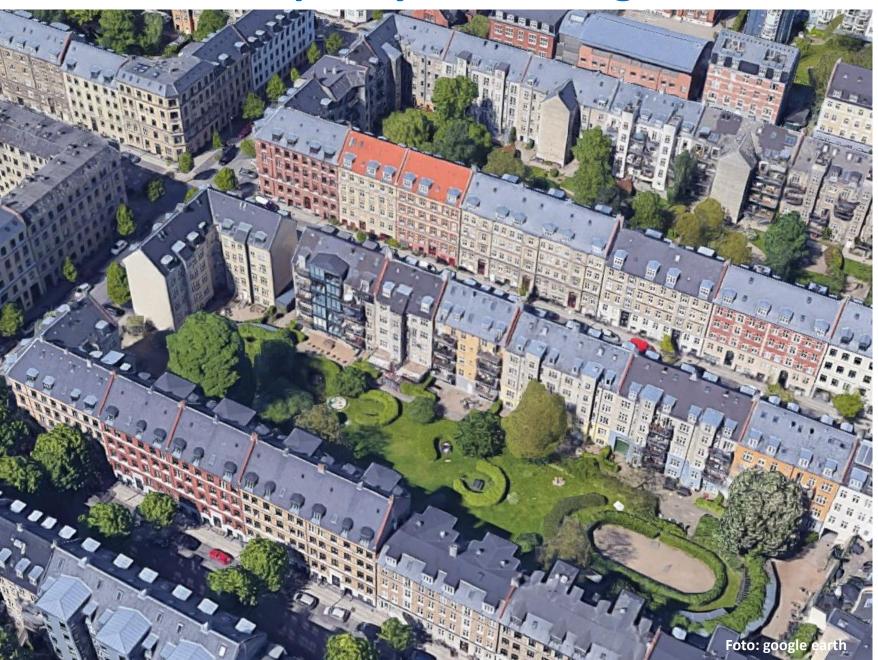
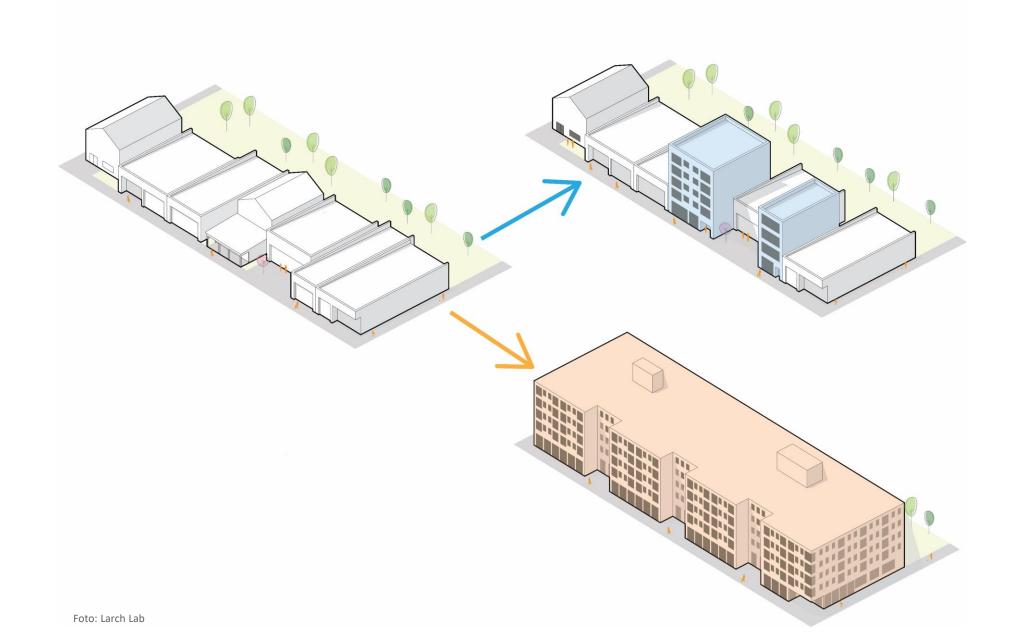


## **Radical Simplicity in Building Form**



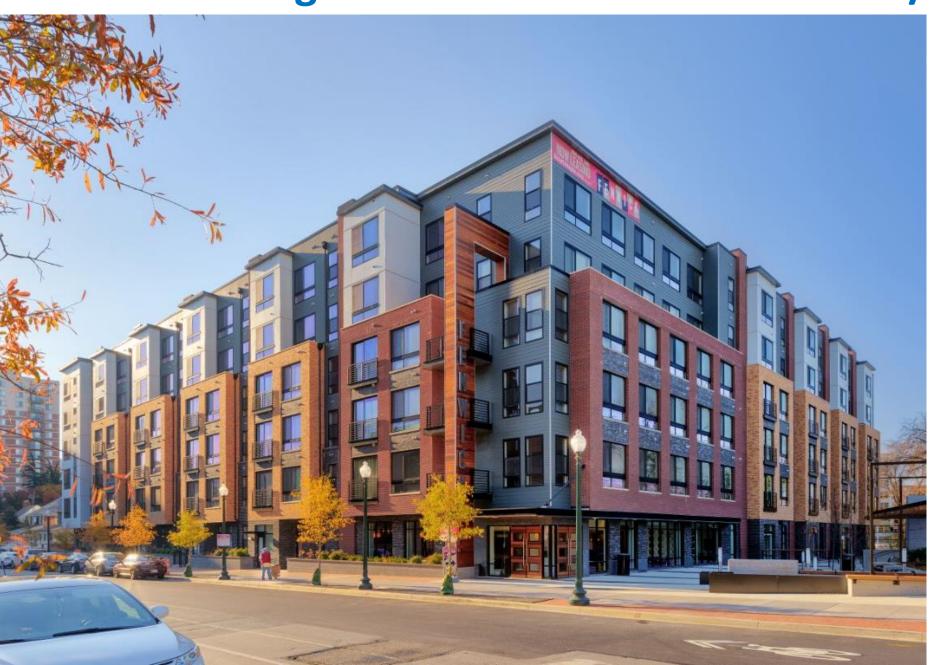


#### **Building + Zoning Codes – Influence Redevelopment**



larch lab

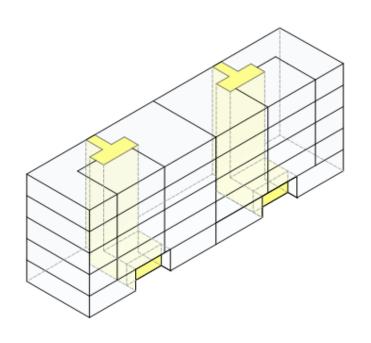
#### This building does not exist outside the US/Canada

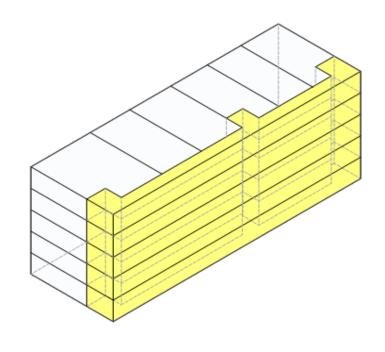


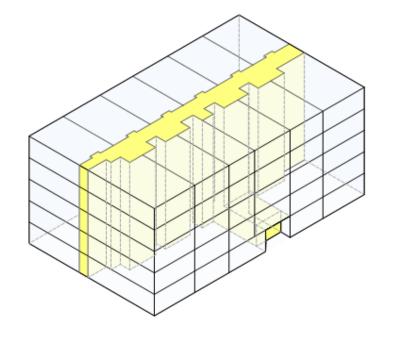
- + Modulation
- + Material Mess
- + Majority of units studios/1BRs
- + Massive development
- + Double loaded corridor
- + Flat Façade
- + No Solar Protection

#### **Point Access Blocks (Single Egress Stairs)**

#### **Different Forms of Vertical Access**





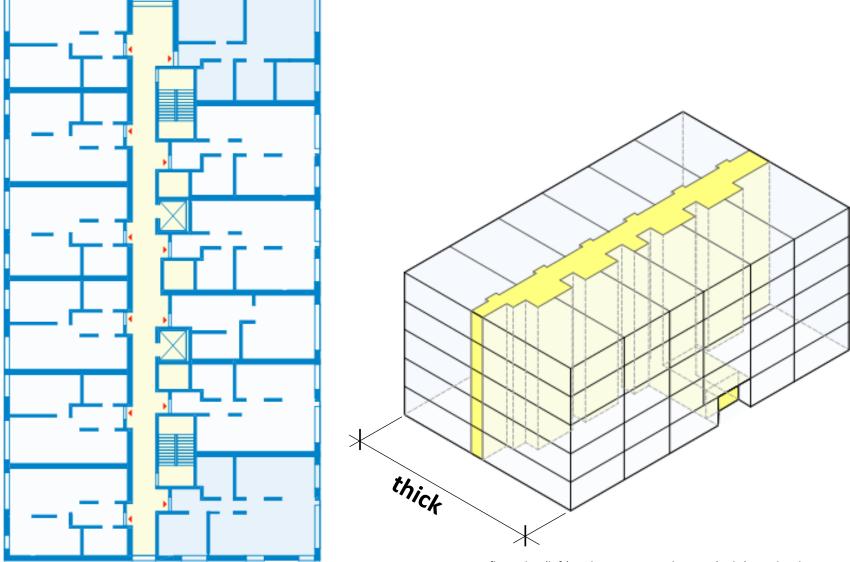


Point Access Block

**Single Loaded Corridor** 

**Double Loaded Corridor** 

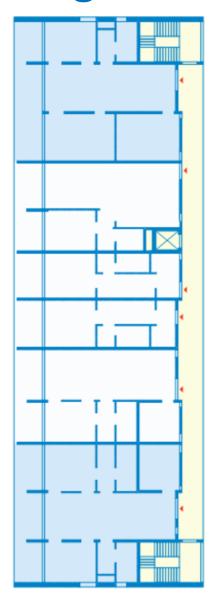
#### **Double Loaded Corridor**

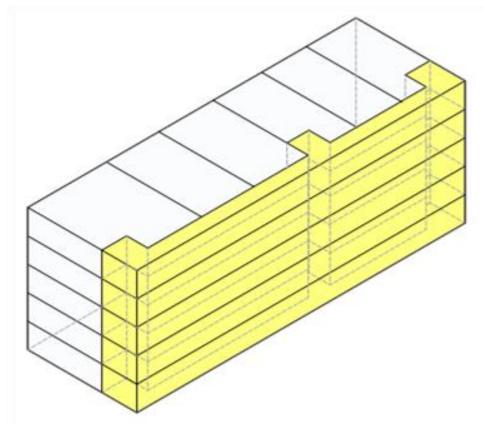


- 87% efficient floor plate
- primarily small units
- no cross-ventilation
- no daylight on multiple sides
- little respite from urban noise

floor plan (left) and axonometric drawing (right), Larch Lab

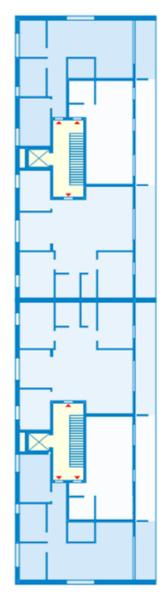
#### **Single Loaded Corridor**

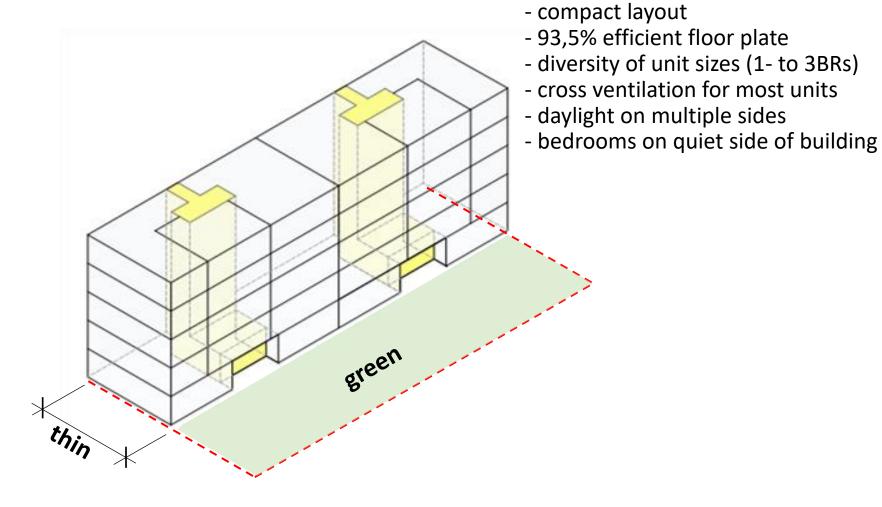




- 84% efficient floor plate
- diversity of unit sizes
- cross ventilation possible
- daylight on multiple sides

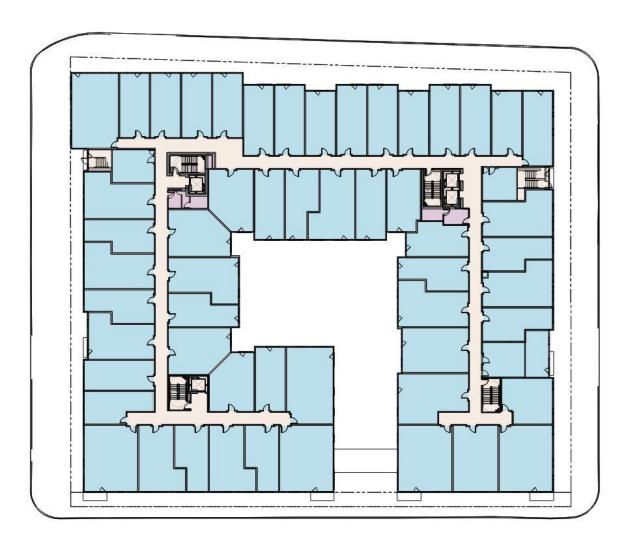
#### Point Access Block (single stair building)





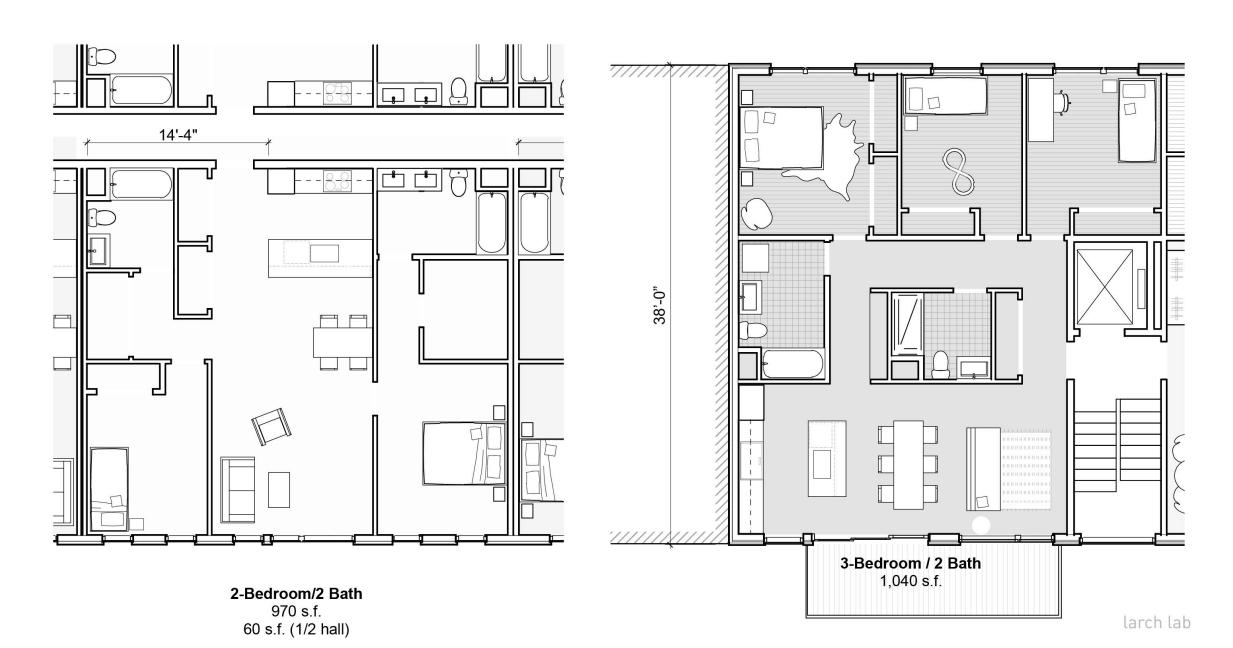
floor plan (left) and axonometric drawing (right), Larch Lab

#### **Double Loaded Corridor: Limits of Building Codes?**





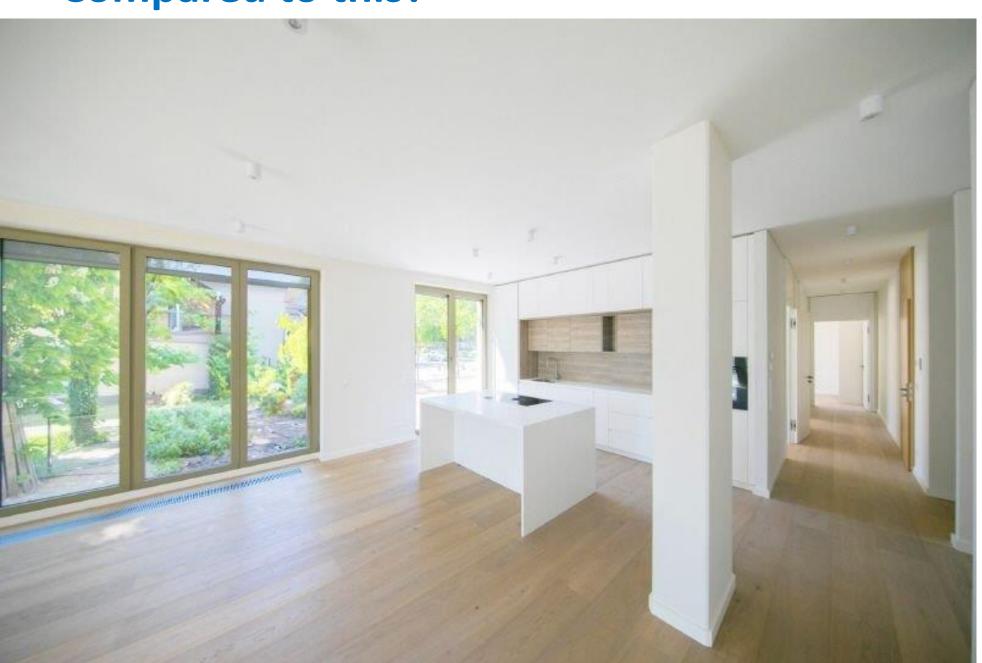
#### US: Large units. Wasted space. Poorer quality of life...



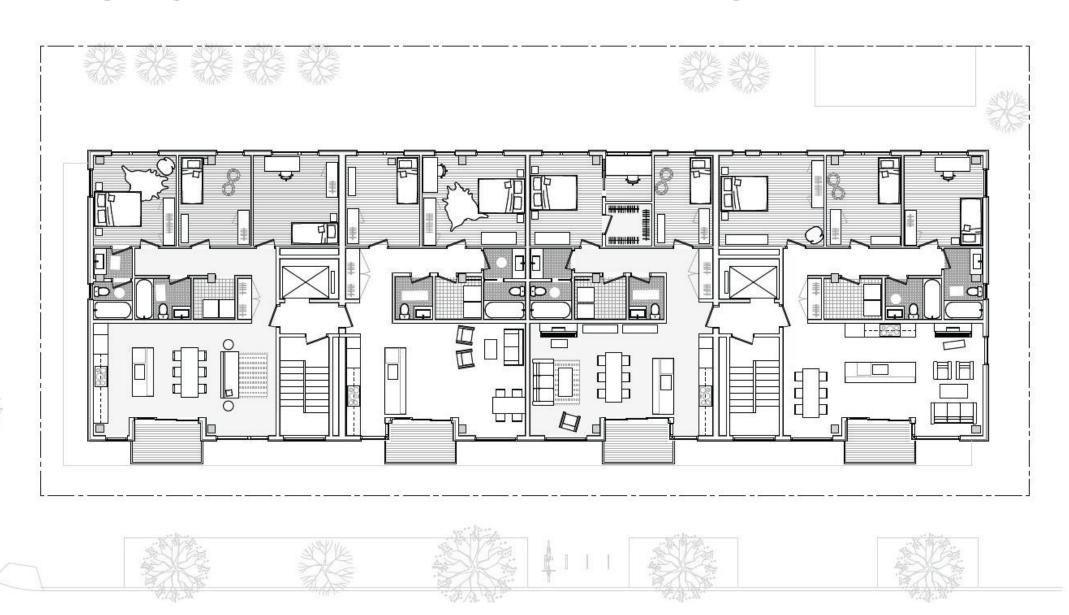
## Is this a substitute for living in a detached house?



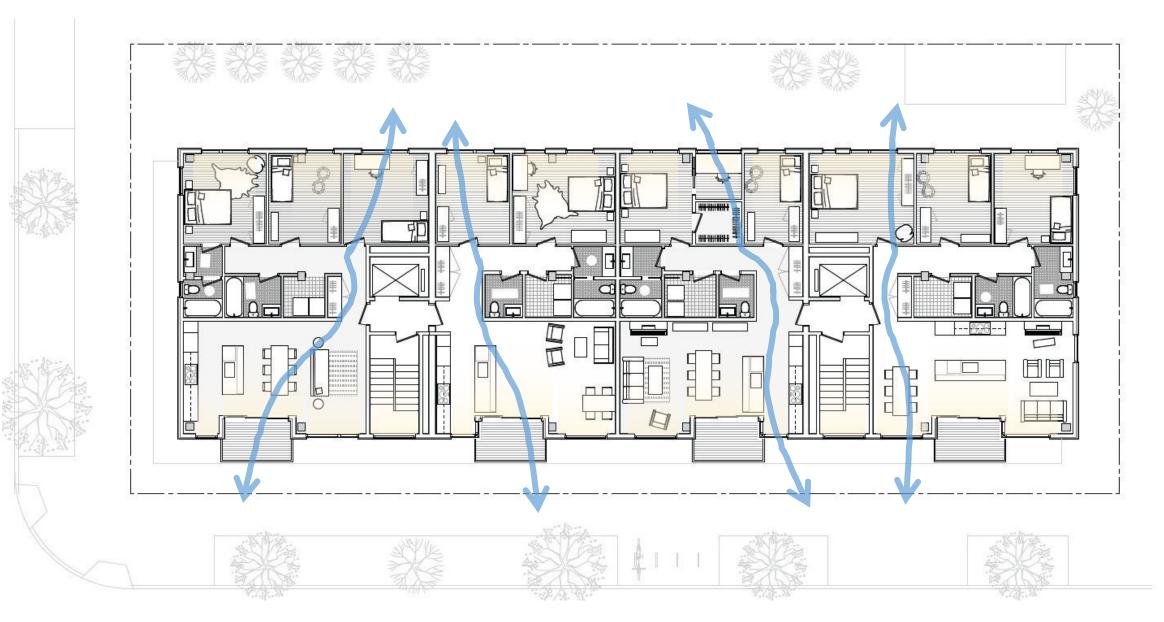
## **Compared to this?**



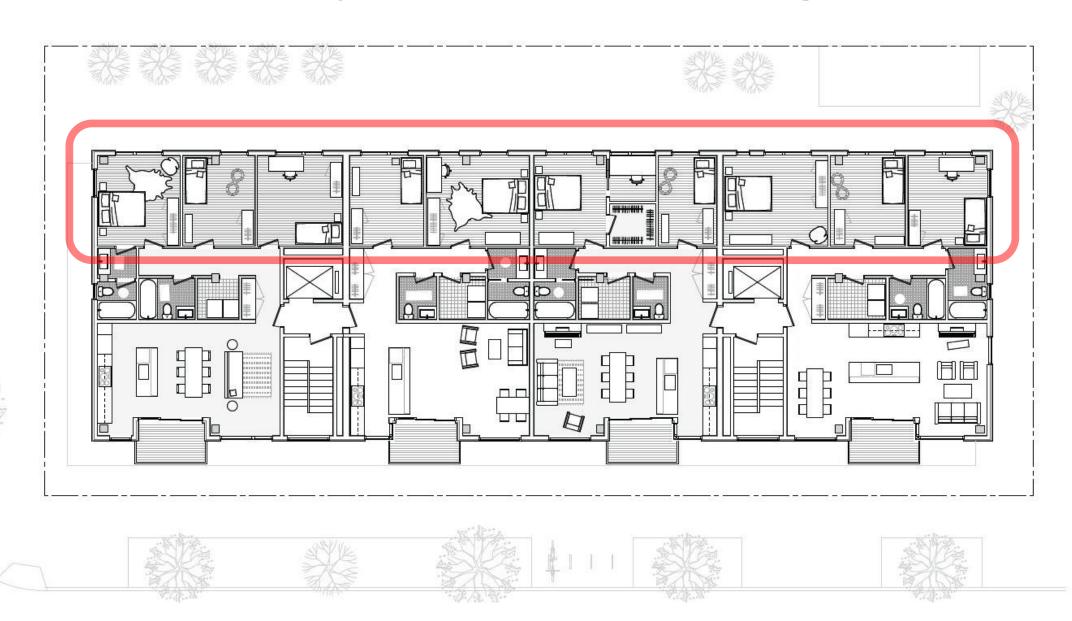
#### **Pushing legal limits of Seattle's Building Code**



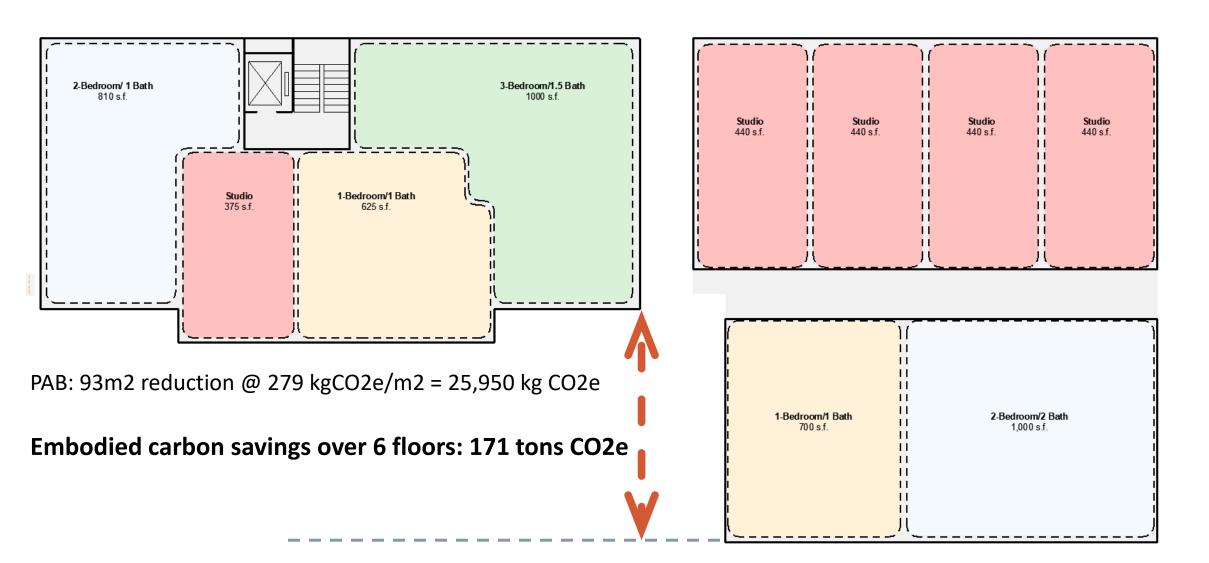
#### Light on multiple sides, cross ventilation



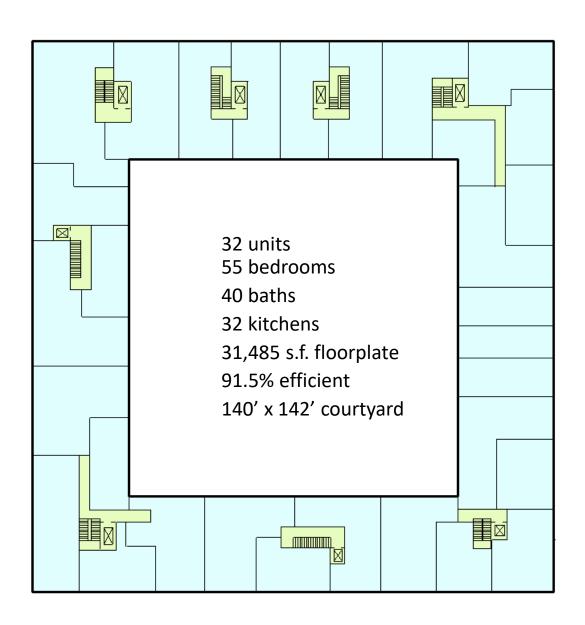
## Bedrooms on the quiet side of the building

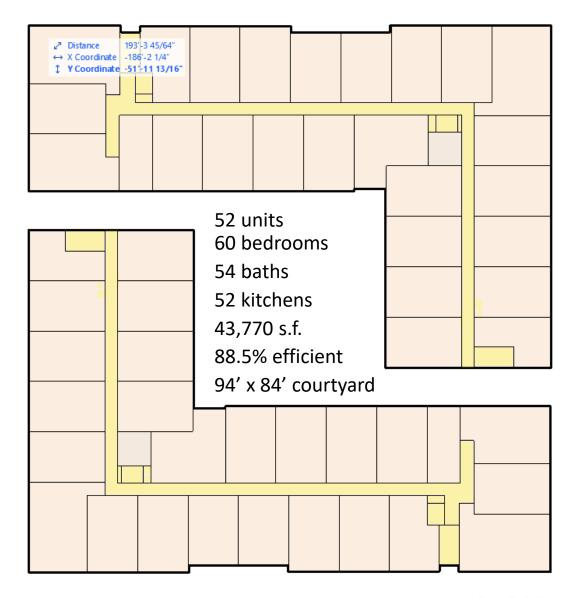


#### PAB v. DLC: Same number of bedrooms, 2/3 floor area

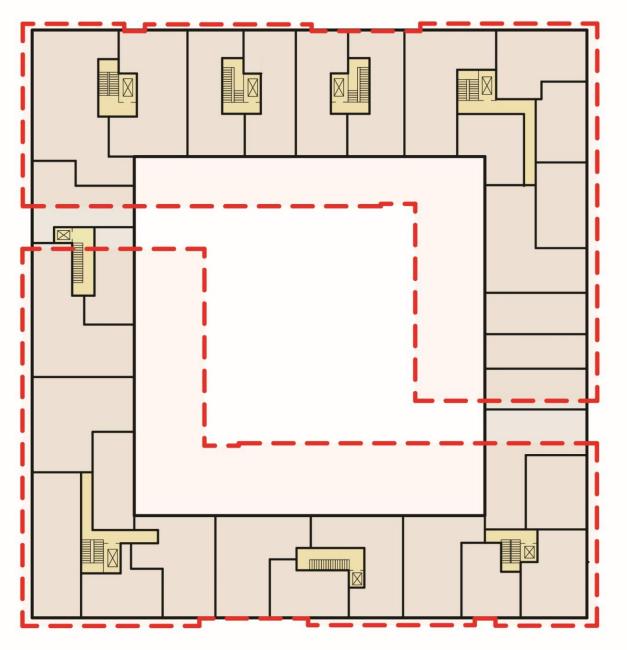


#### **Chained Point Access Blocks: Massive reduction in FAR**





#### Thinner Floor Plate: Lower Cost, More Space for Nature



Seattle requires 12,885 s.f. for 5 more bedrooms

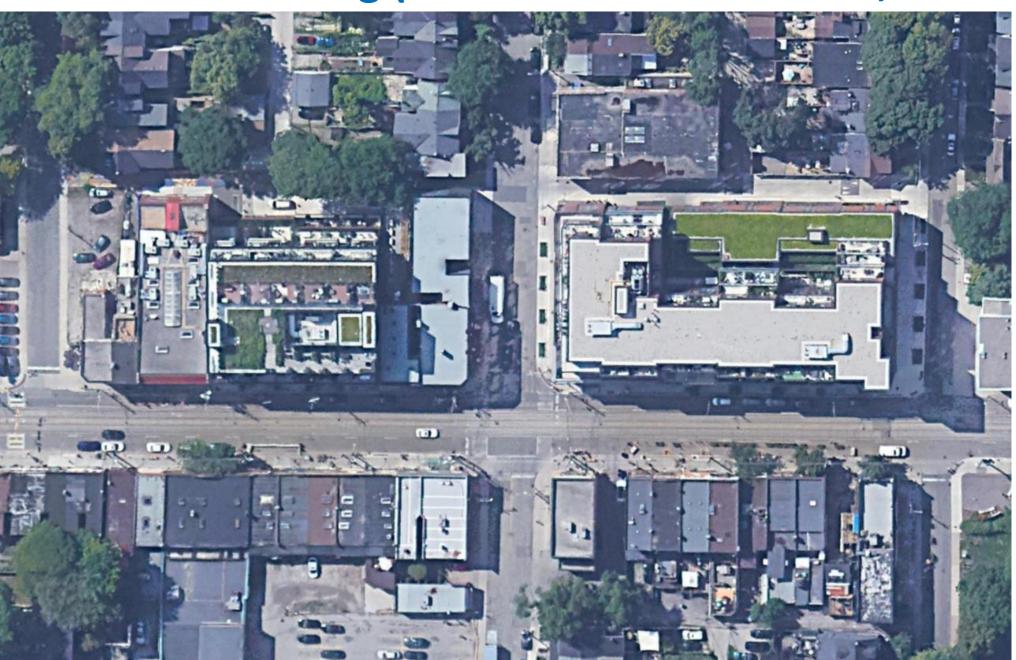
Construction cost: \$375/s.f. \* 12,285 s.f. = \$4.6M/floor

PAB savings over 6 floors: \$27.6M

Hamburg's courtyard: 150% larger

Embodied carbon effects as well

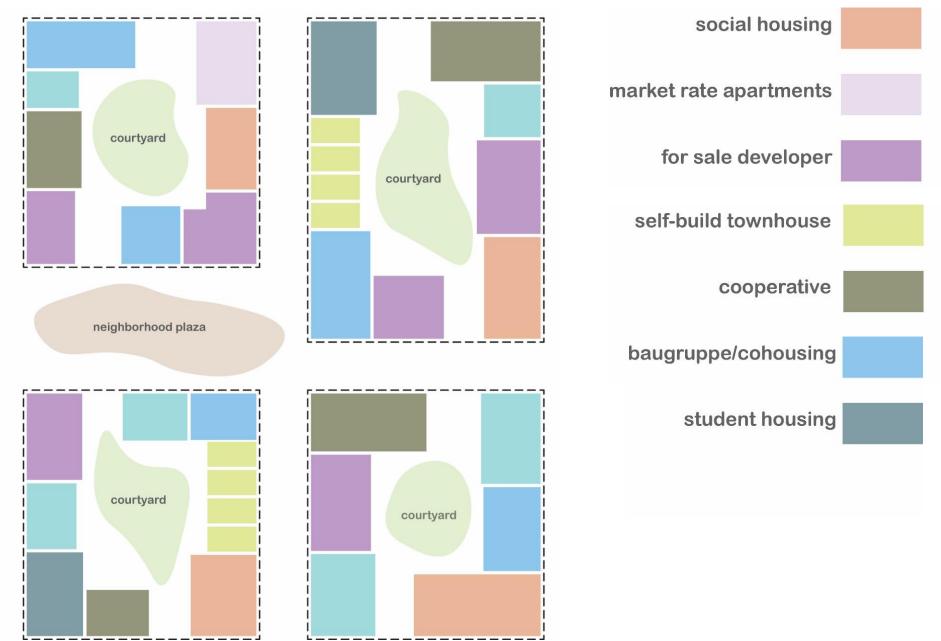
## Midrise Housing (double loaded corridors, no trees)



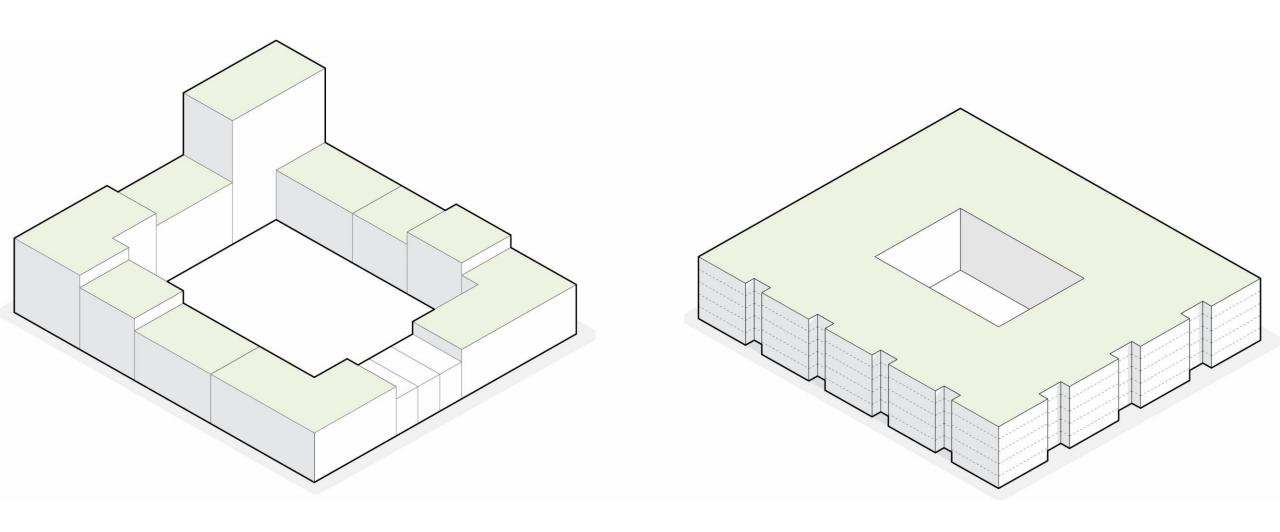
## These buildings look different... Because they are!



#### **Housing and Block Level Diversity**



#### **Complexity & Diversity Through Simplification**

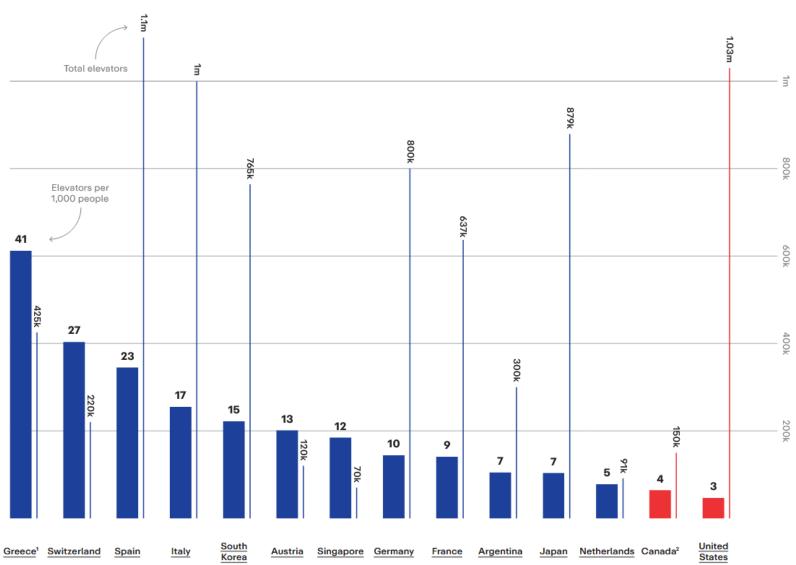


#### Single Stair Reform Movement is Growing (19+ states)



#### Elevator reform will bring more accessible homes

National elevator stocks per capita



# Building Designing Livable, Affordable, Low-carbon Communities VICTORIE EIGSON Foreword by Alex Steffen

## Thank You!

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