

CIHAN UNIVERSITY/SULIMANIA, ARCHITECTURAL DEPT.

FOURTH YEAR                      2025-2026

SECOND SEMESTER              LECTURE 4

# Housing

FAMILY AND HOUSEHOLD

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# Housing occupancy criteria



Family : a basic social unit consisting of parents and their children, considered as a group, whether dwelling together or not, and have economical dependency.



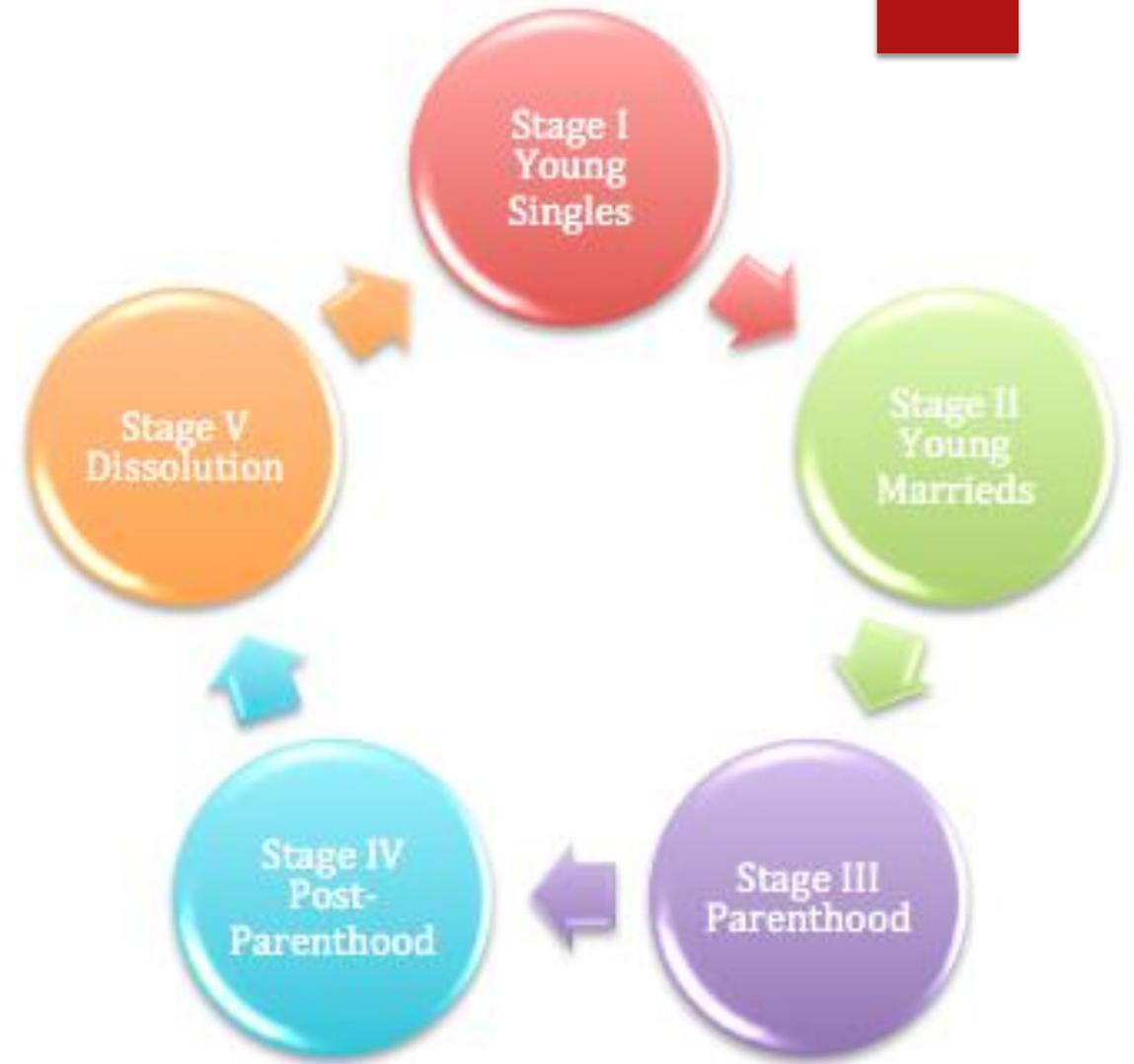
Household : All persons living under one roof or occupying a separate housing unit, having either direct access to the outside (or to a public area) or a separate cooking facility. Where the members of a household are related by blood or law, they establish a family.



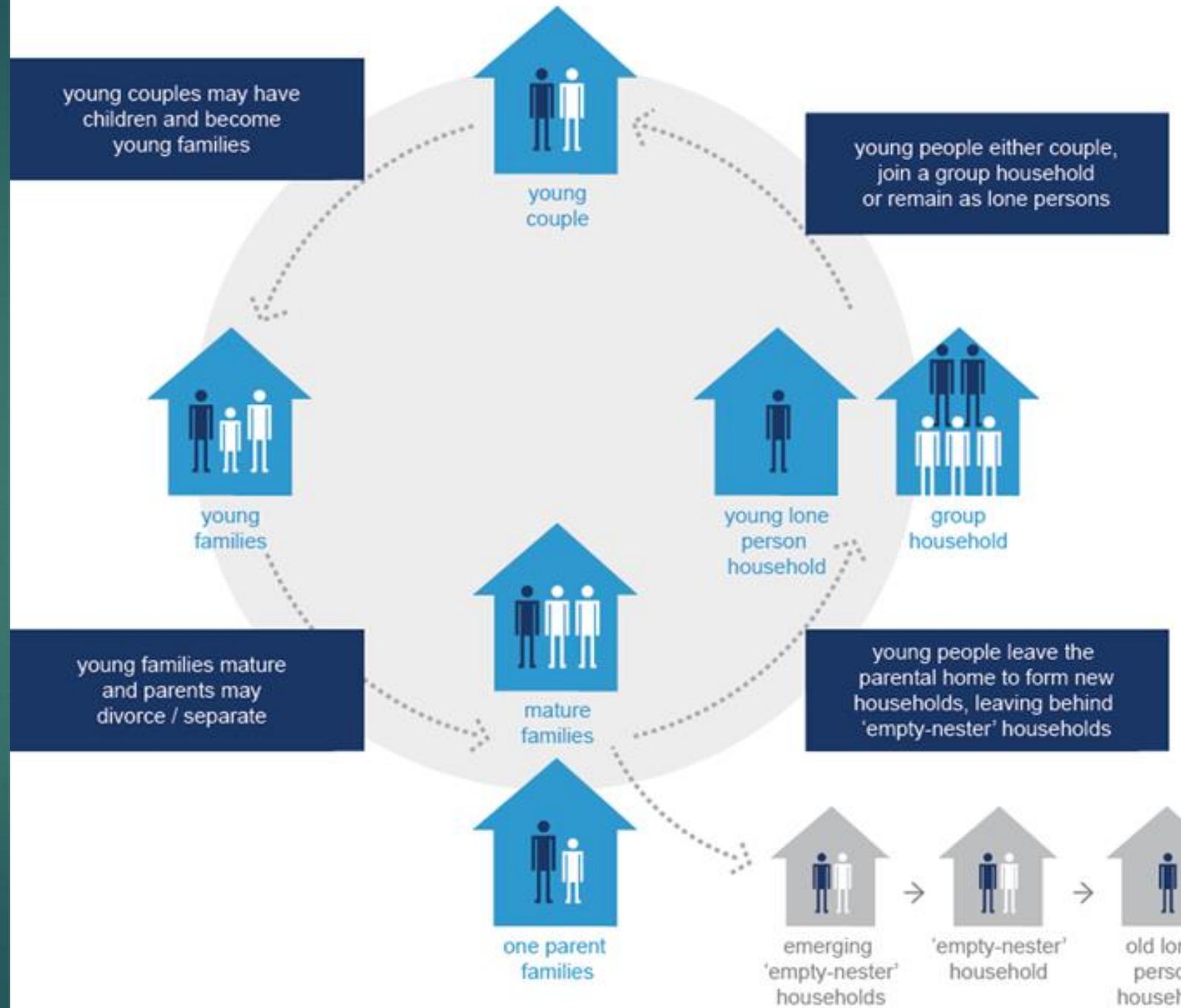
Average family size (occupancy rate): is the average no of persons in the family.

# Family life cycle

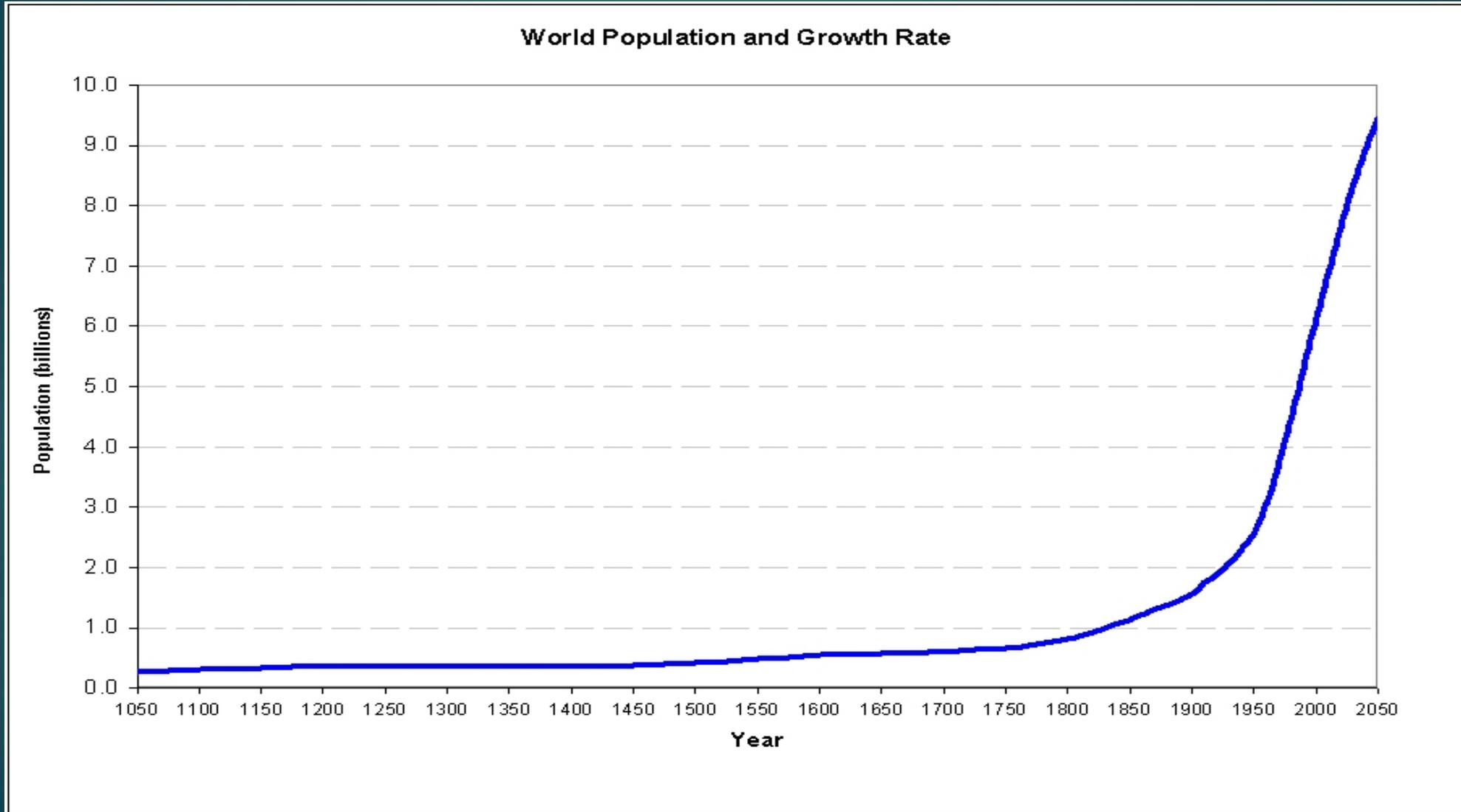
The family life cycle is a series of stages through which a family may pass over time. Typical stages in family development include the periods of a single young adult, a newly married couple, a family with young children, a family with youths, and a family in later life. The family life cycle emphasizes the effects of marriage, divorce, births, and deaths on families, as well as changes in income, expenses, and properties.



# Family life cycle and dwelling considerations

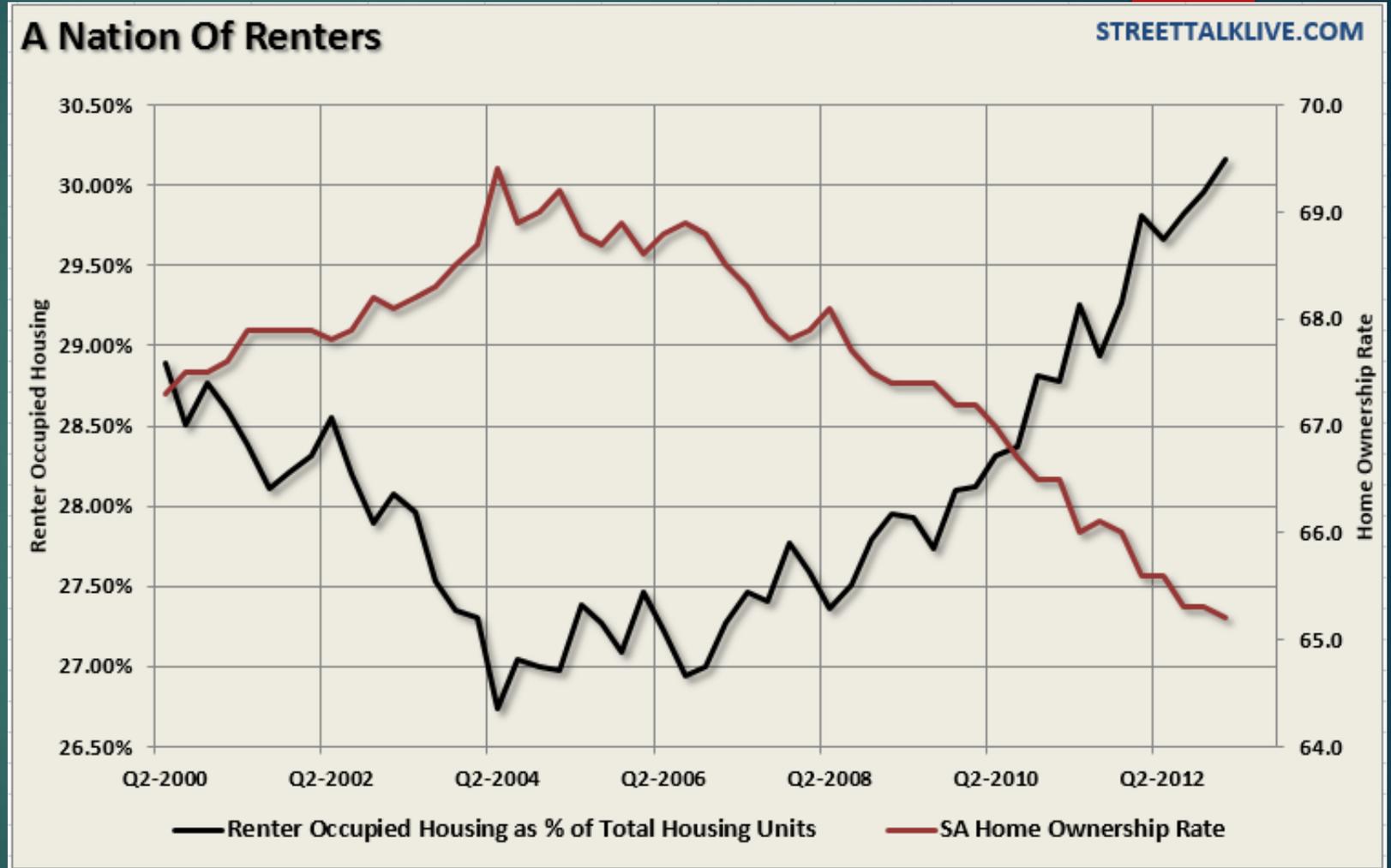


# World Population

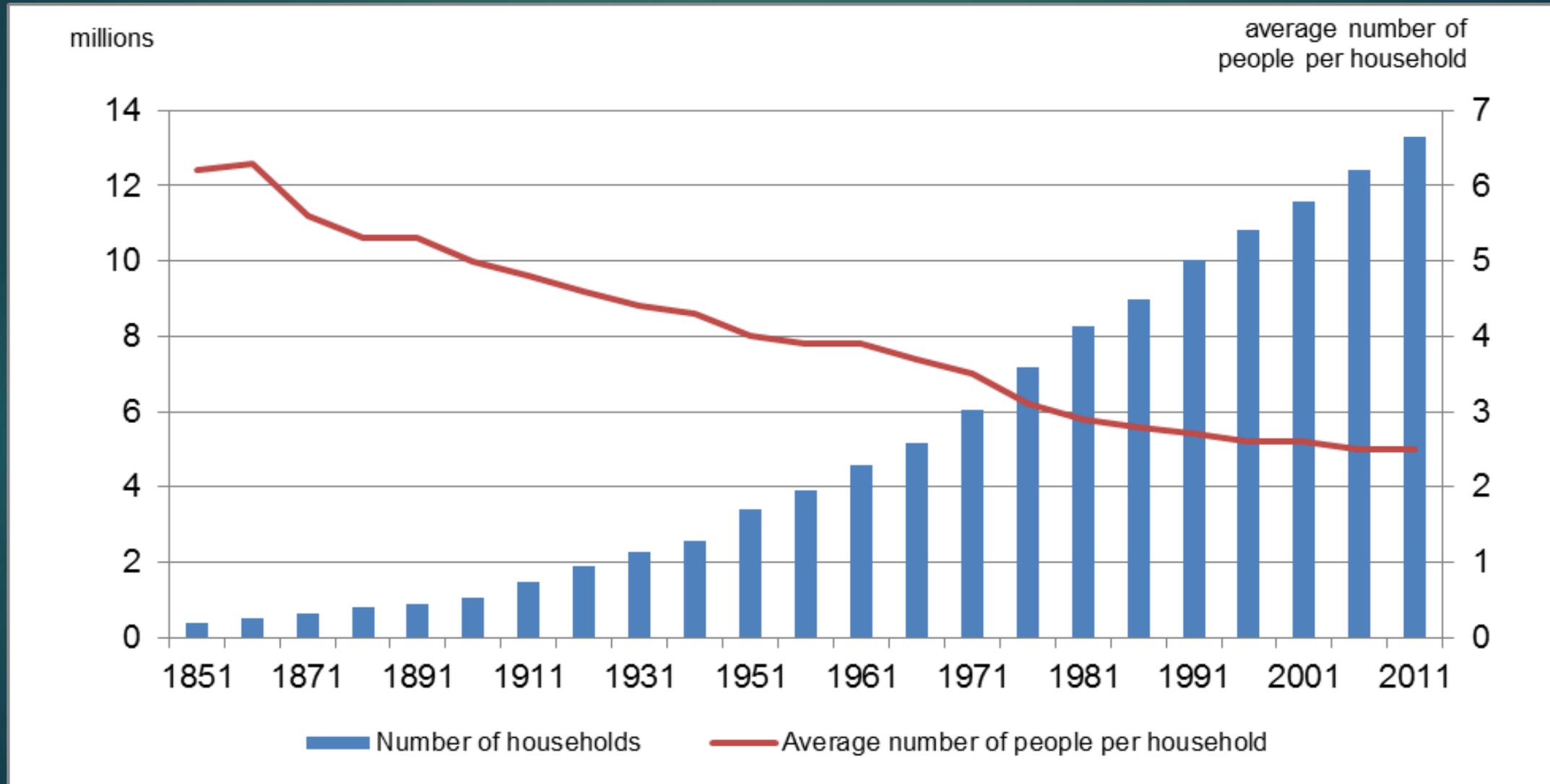


# Ownership vs Occupancy

Occupancy means that the family live at the home either by rent or buying, but ownership is that the family owned their house



# Average family size



# Housing stack

## Housing stack

Temporary

Permanent

Hotels

Motels

Hostels

Resorts

Camps

House

Department

Elderly  
houses

Orphan  
houses

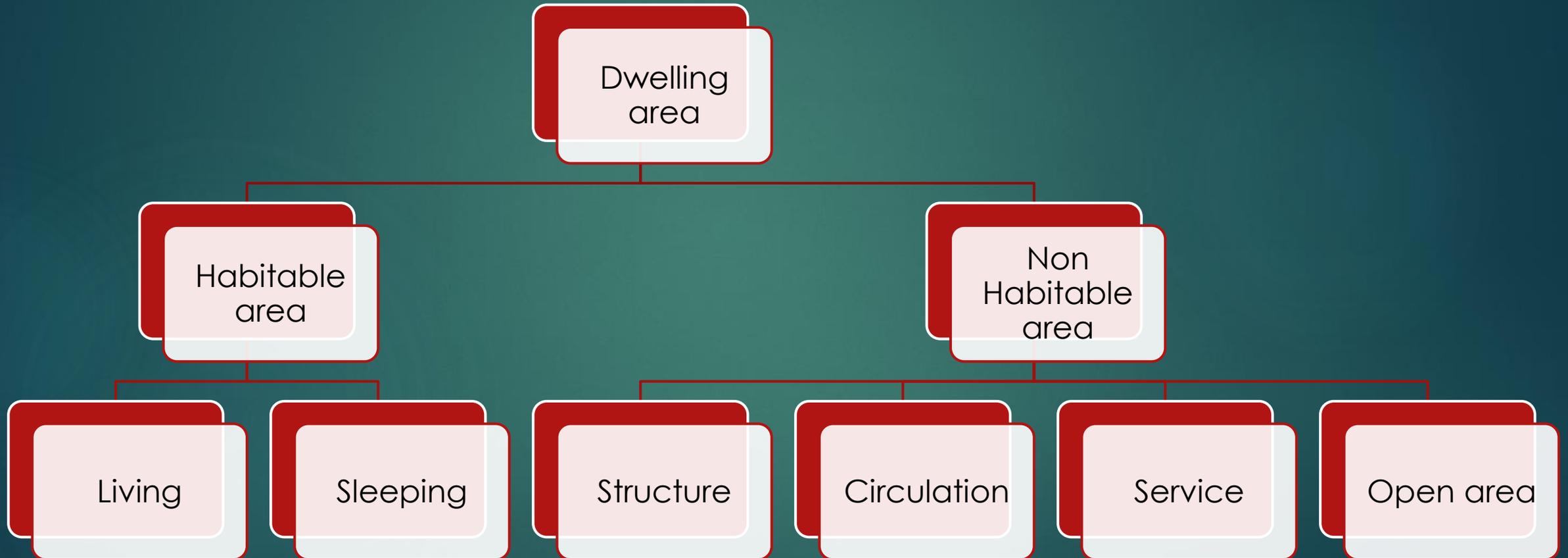
# Dwelling

- ▶ Dwelling (also residence, habitat) is a self-contained unit of accommodation used by one or more households as a home - such as a house, apartment, mobile home, houseboat, vehicle or other "significant" structure.
- ▶ A dwelling typically includes nearby outbuildings, sheds, etc. within the property, excluding any "open fields beyond".
- ▶ The concept of a dwelling has significance in relation to search and appropriation, real property, robbery, invade, and land-use planning.

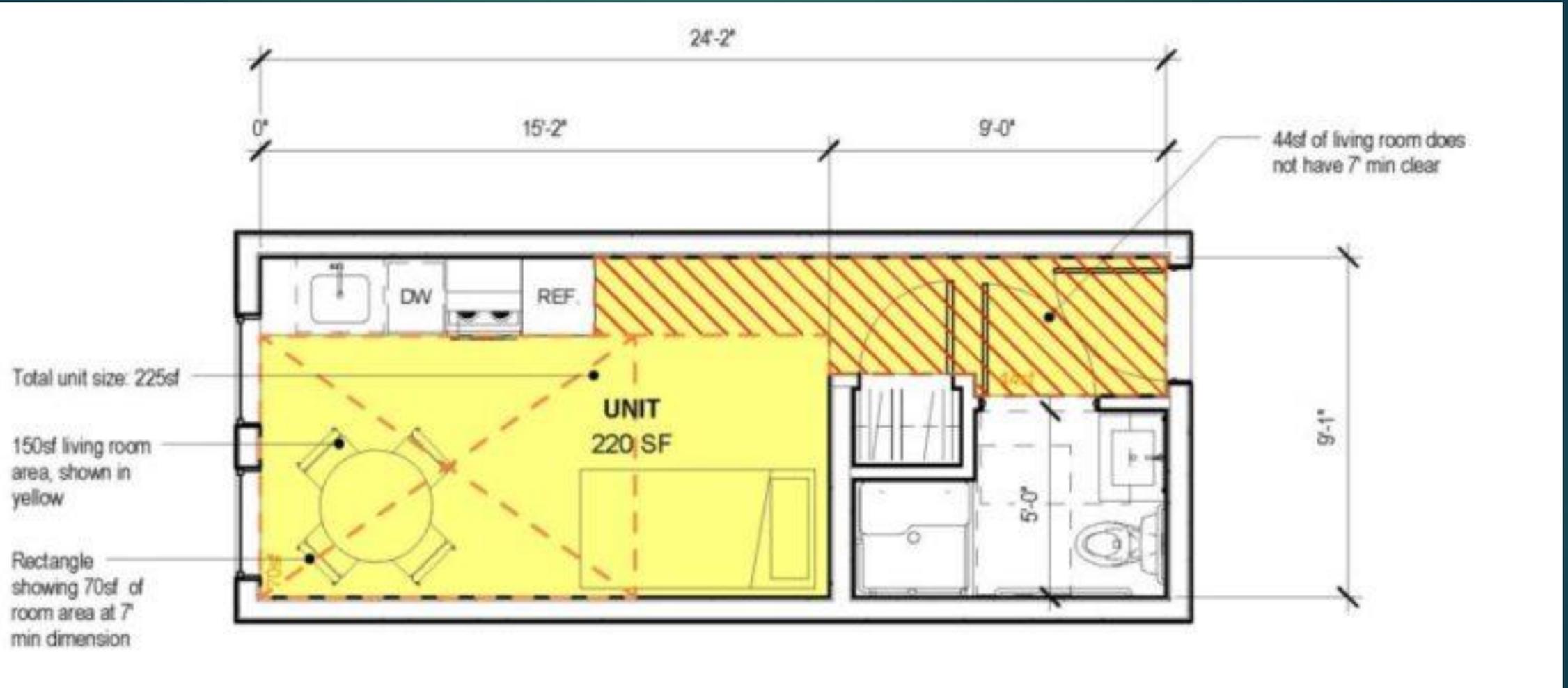
# House

- ▶ A house is a building that functions as a home where family live and having their activities in to considered as a dwelling constructed from a permanent materials and contained at least:
- ▶ Cooking space
- ▶ Sewerage system
- ▶ Running water
- ▶ Habitable and sleeping area
- ▶ W.C. and bath
- ▶ Permanent electricity system

# Dwelling Area



# Classification of dwelling area



# House areas

- ▶ Living area (halls, living rooms , reception room, dinner area, studying are, hobby area, and working area... etc)
- ▶ Sleeping are (bedrooms)
- ▶ Service area ( kitchens, toilets, bathrooms, storage area)
- ▶ Structure area
- ▶ Circulation area (corridors, halls, staircases, entrance)
- ▶ Open area ( garden, court yard, garage, terrace, balcony)



Table 2: Basic level – Area for each function (m<sup>2</sup>)

Function		Number of occupants									
		1	2	3	4	5	6	7	8	9	
1	Sleeping	Double		8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
		Twin				7.0	7.0	7.0	7.0	7.0	7.0
		Twin						7.0	7.0	7.0	7.0
		Twin								7.0	7.0
		Single	4.0		4.0		4.0		4.0		4.0
2	Cooking	Food storage	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
		Food preparation	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.0	4.5
3	Eating	Dining	2.5	3.0	3.5	4.5	5.5	6.5	7.5	8.5	9.5
4	Living		4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
5	Play/study/work	Adult play/work	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	Clothes care	Laundry	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Drying clothes	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
7	Personal hygiene	Main	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0
		Second						1.5	1.5	1.5	1.5
8	Circulation	Entrance	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0
		Communication	1.0	2.0	3.0	3.5	4.0	4.0	4.0	5.5	6.0
9	Domestic manag.	General storage	0.5	1.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0

# Efficiency

- ▶ Dwelling area Efficiency
- ▶ Infra structure Efficiency
- ▶ Energy consumption Efficiency
- ▶ Maintenance Efficiency
- ▶ Occupancy rate Efficiency

# Dwelling area Efficiency

- ▶ Total Dwelling area efficiency factor is the Percentage ratio between habitable area to the total area of dwelling
- ▶  $EF = Ha / Total * 100\%$

