Overarching Research Questions

- Is the current housing design in Iraq subject to the sustainability indicators?
- To what extent the optimized residential model contributes to reduce the housing crisis?

Key Facts and Research gap

- Residential deficit.
- Overcrowding.
- Unplanned housing.
- Residential re-subdivision.
- Dwellings are unfit for habitation.

Research outputs

Reduce the size of housing deficit in Iraq by contributing to the application of a residential model, that adaptive with social, economic and environmental situations in Iraq.

Residential Design

- Characteristics
- Comparison
- Indicators
- Selections
- Optimum design

Sustainable residential

Figures (1,2) Housing Unit shortage rate in Iraqi governorates (National Development Plan 2013-2017, Republic of Iraq, Ministry of Planning, Baghdad, Jan. 2013)


Key Facts and Research gap

- Residential deficit.
- Overcrowding.
- Unplanned housing.
- Residential re-subdivision.
- Dwellings are unfit for habitation.

Research outputs

Reduce the size of housing deficit in Iraq by contributing to the application of a residential model, that adaptive with social, economic and environmental situations in Iraq.

Thesis Title:

The optimization of urban housing design for more sustainability in Baghdad, Iraq.

Supervisors:

Dr. Monjur Moursheed & Dr. Haijiang Li