

1-3) STUDYING SCHEMA RECOMMENDATIONS FOR THE PROJECT SITE:

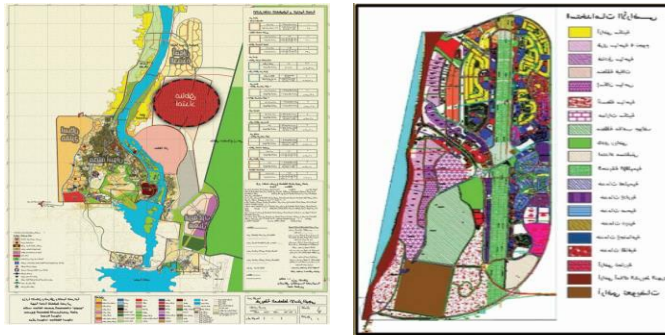


Figure (5) The Aswan Strategic Plan Figure (4) New Aswan City diagram

1) NATIONAL BLUEPRINT RECOMMENDATIONS:

IN 1996, A SITE WAS DESIGNATED FOR THE NEW CITY OF ASWAN ON THE WESTERN SHORE OF THE NILE RIVER, ABOUT 12 KILOMETERS FROM THE CITY OF ASWAN

2) REGIONAL PLAN RECOMMENDATIONS:

EXPANDING THE PROXIMITY OF THE NILE FOR TOURISM, BUILDING ON EXISTING RESOURCES AND PLANNING FOR THE NEW CITY OF ASWAN AS A TOURIST CITY

3) GOVERNORATE PLAN RECOMMENDATIONS:

PLANNING OF THE NEW CITY OF ASWAN AS A TOURIST CITY AND SETTING ASIDE AN AREA FOR NUBIANS AFFECTED BY THE DISPLACEMENT IN THE NEW CITY OF ASWAN

2) Studying the Status Quo:

2-1) Study of the current situation of housing

2-1-1) The study of the tourism prophet's housing at the level of a housing unit:

1) Housing Style: Plots of land belonging to family members with areas of 150-400 m²

2) Unit surface: 270 pm²

3) Form Components: 4 bedrooms + bathroom + kitchen + hostess + yard + hangar + storeroom

4) Economies of scale:

1) Unit achieves economies of scale in terms of area

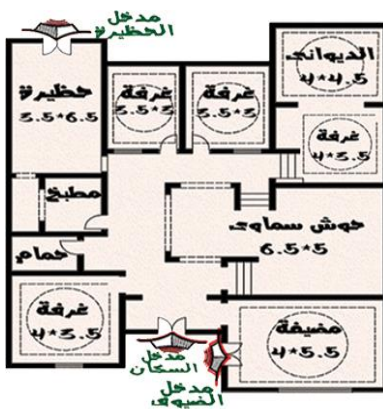
2) Loneliness does not bring about the economics of aggregation where only one side can be stacked

5) Form Economics:

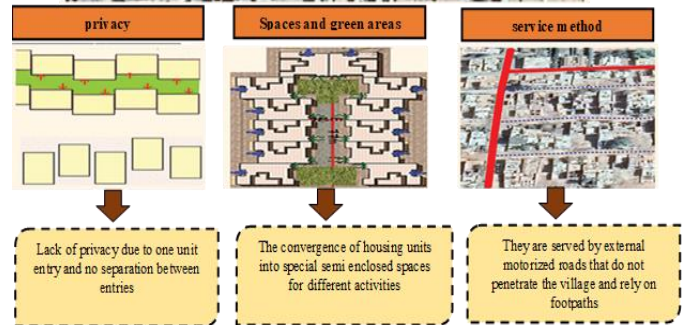
The model is more of a square form which increases economic efficiency and takes into account the architectural needs of the population

6) Privacy and security economics:

The special unit is achieved by the presence of an internal vacuum which preserves the sensitivity and ventilation of the unit



2-1-2) The study of tourism prophet's housing at the level of a collective unit:

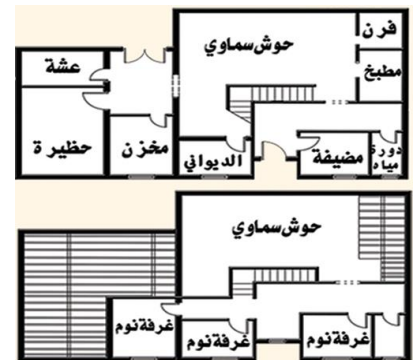


2-1-3) The study of literal planetary housing at the level of a residential unit:

1) Housing Style: Plots of land belonging to family members with areas of 150-400 m²

2) Unit surface: 250 pm²

3) Form Components: 3 bedrooms + bathroom + kitchen + hostess + yard + hangar + diwan



4) Economies of scale:

1) Unit achieves economies of scale in terms of area

2) Loneliness does not bring about the economics of aggregation where only one side can be stacked

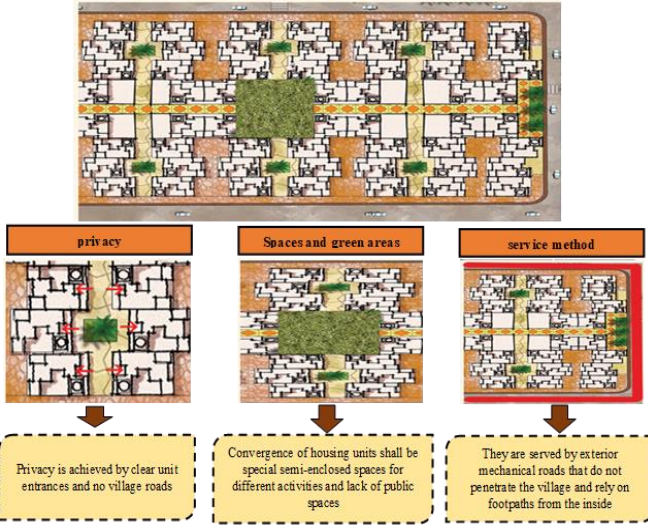
5) Form Economics:

The model is more of a square form which increases economic efficiency and takes into account the architectural needs of the population

6) Privacy and security economics:

The special unit is achieved by the presence of an internal vacuum which preserves the sensitivity and ventilation of the unit

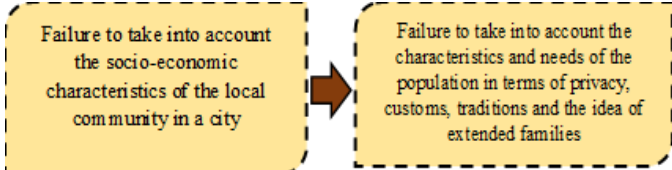
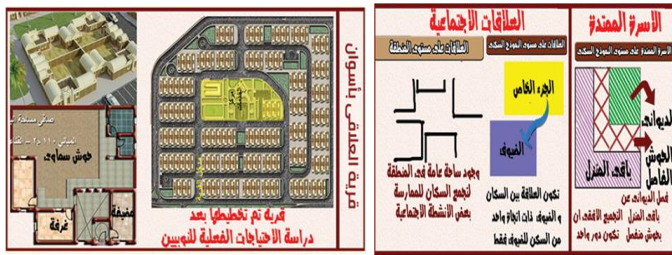
2-3-4) The study of literal planetary housing at the level of a collective unit:



3) EXAMINE KEY ISSUES AT STAKE: (1)

3-1) CASE STUDY ONE:

3-1-1) REASONS FOR THE CASE:

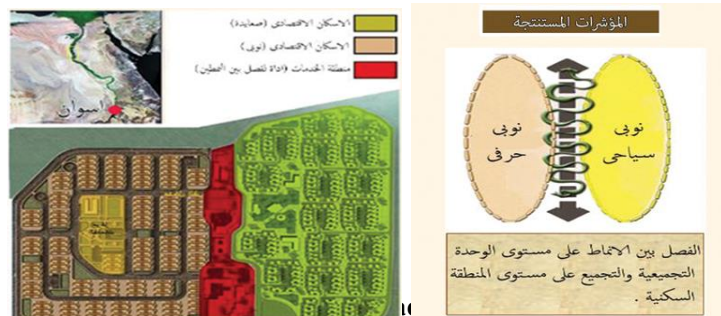


3-1-1) RESOLVING THE CASE:

- 1) Sensitivity: (take into account separation of entrances and internal openings)
- 2) Customs and traditions: (need for guest reception rooms separate from the unit for privacy)
- 3) Extended family idea: (provide possibility of horizontal and vertical extension in units and convergence)

3-2) CASE STUDY TWO:

3-2-1) REASONS FOR THE CASE:



4) The study of similar experiences:

4-1) The Qurnah Village Experiment:

4-1-1) Al-Qurnah Village Study (at the level of a housing unit):

- 1) Housing Style: High-rise housing units (land + houses)
- 2) Unit surface: of (150 - 250) m²
- 3) Form Components: 4 bedrooms + bathroom + kitchen + hostess + yard + hangar + shield



4) Economies of scale:

- 1) Unit achieves economies of scale in terms of area
- 2) Loneliness does not bring about the economics of aggregation where only one side can be stacked

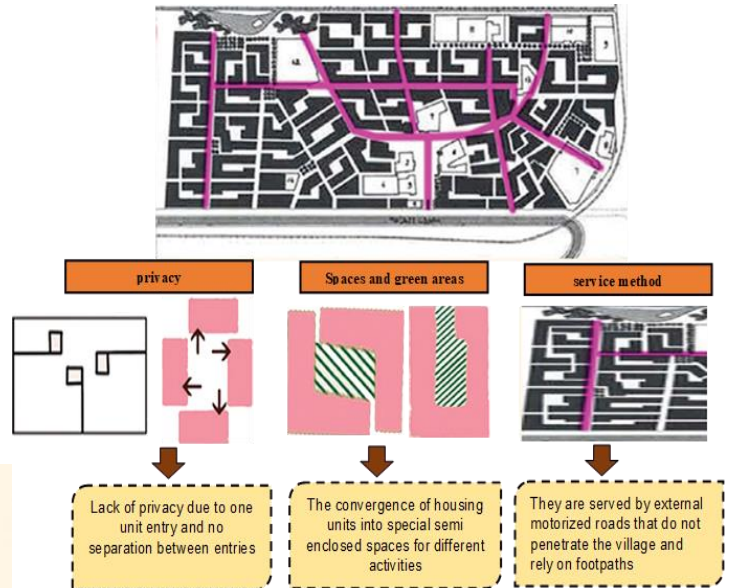
5) Form Economics:

The model is more of a square form which increases economic efficiency and takes into account the architectural needs of the population

6) Privacy and security economics:

The special unit is achieved due to internal vacuum which preserves the sensitivity ventilation of the unit and an ingress separation

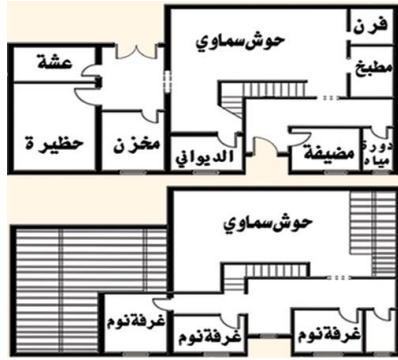
4-1-2) Qurnah Village Study (at the aggregate unit level):



4-2) CITY OF ABU SIMBEL EXPERIMENT:

4-2-1) CITY OF ABU SIMBEL STUDY (AT THE UNIT LEVEL):

- 1) HOUSING STYLE:
HIGH-RISE HOUSING UNITS (1 FLOOR)
- 2) UNIT SURFACE: OF
(260) M²
- 3) FORM COMPONENTS:
4 BEDROOMS +
BATHROOM + KITCHEN
+ HOSTESS +
COURTYARD + CRAFTS
SPACE + STORE



4) ECONOMIES OF SCALE:

- 1) UNIT ACHIEVES ECONOMIES OF SCALE IN TERMS OF AREA
- 2) MODULE ACHIEVES THE ECONOMIES OF AGGREGATION WHERE TWO SIDES CAN BE COMBINED

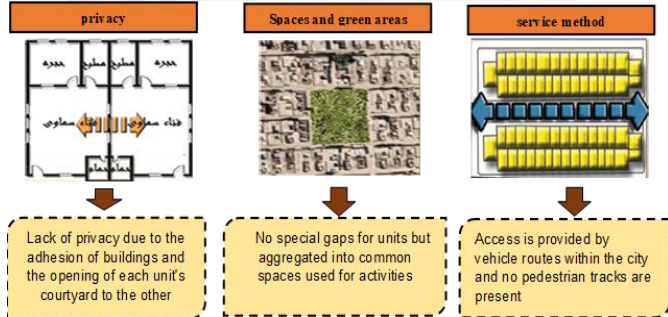
5) FORM ECONOMICS:

THE MODEL IS MORE LIKE A RECTANGULAR SHAPE WHICH INCREASES ECONOMIC EFFICIENCY AND TAKES INTO ACCOUNT THE ARCHITECTURAL NEEDS OF THE POPULATION

6) PRIVACY AND SECURITY ECONOMICS:

THE SPECIAL UNIT IS ACHIEVED DUE TO INTERNAL VACUUM WHICH PRESERVES THE SENSITIVITY VENTILATION OF THE UNIT AND AN INGRESS SEPARATION

4-2-2) QURNAH VILLAGE STUDY (AT THE AGGREGATE UNIT LEVEL):



***SEARCH SUMMARY:**

1) INDICATORS OF STUDY ANALYSIS (POPULATION NEEDS):

1) TOURISM HOUSING:

1-1) FORM COMPONENTS:

BEDROOM + HOSTEL ROOM + BATHROOM + KITCHEN + SKY MONSTER + HANGAR

1-2) MODEL AREA:

FLAT UNIT 200 - 400 M²

1-3) DESIGN NEEDS:

- 1) CONSIDER THE SEPARATION OF THE ENTRANCES
- 2) MINDFUL OF FUNCTIONAL AND INTERNAL RELATIONSHIPS
- 3) TAKING INTO ACCOUNT THAT THERE ARE GAPS WITHIN THE AGGREGATE UNITS FOR THE PRACTICE OF ACTIVITIES



2) LITERAL NUBIAN HOUSING:

2-1) FORM COMPONENTS:

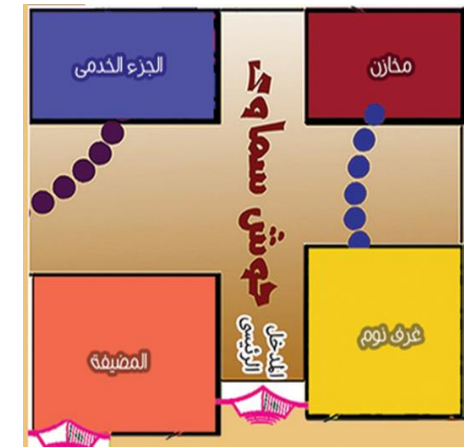
BEDROOM + HOSTESS ROOM + BATHROOM + KITCHEN + MONSTERS + STORE

2-2) MODEL AREA:

FLAT UNIT 150 - 300 M²

2-3) DESIGN NEEDS:

- 1) CONSIDER THE SEPARATION OF THE ENTRANCES
- 2) MINDFUL OF FUNCTIONAL AND INTERNAL RELATIONSHIPS
- 3) TAKING INTO ACCOUNT THAT THERE ARE GAPS WITHIN THE AGGREGATE UNITS FOR THE PRACTICE OF ACTIVITIES
- 4) POTENTIAL FOR VERTICAL HEIGHT TO MEET POPULATION NEEDS



2) INDICATORS FOR ANALYZING THE STUDY OF SIMILAR EXPERIENCES:

2-1) QURNAH VILLAGE:

1) USES WITHIN THE HOUSING MODEL SHALL BE SEPARATED, TAKING ACCOUNT OF THE ENTRANCE SEPARATION

2) HAVING TWO ENTRIES FOR THE UNIT, ONE MAJOR FOR THE POPULATION AND ONE FOR THE GUESTS

3) UNITS ARE PROPORTIONALLY SUITED TO THE NEEDS OF THE POPULATION BY VIRTUE OF THE ONE-SIDED RELATIONSHIP BETWEEN THE DWELLING AND THE HOSTESS



2-2) ABU SIMBEL:

1) FUNCTIONAL RELATIONSHIPS WITHIN A UNIT ARE ACHIEVED THROUGH THE INTERDEPENDENCY OF INTERNAL ELEMENTS

2) TWO-UNIT ENTRIES; ONE MAJOR POPULATION-SPECIFIC AND ONE OPERATIONAL GAP-SPECIFIC

3) UNITS ARE PROPORTIONALLY SUITED TO THE NEEDS OF THE POPULATION BY PROVIDING A SPACE FOR CRAFTS BUT NOT FOR THE PRIVACY OF THE POPULATION BY OPENING THE UNIT'S COURTYARD TO ITS NEIGHBORS



***MAIN FINDINGS AND RECOMMENDATIONS:**

1) RESULTS OF THE CURRENT SITUATION STUDY AND SIMILAR EXPERIMENTS (FINAL PROPOSED UNITS):

1-1) THE STUDY OF THE TOURISM PROPHET'S HOUSING AT THE LEVEL OF A HOUSING UNIT:

1) HOUSING STYLE: PLOTS OF LAND BELONGING TO FAMILY MEMBERS WITH AREAS OF 150-400 M²

2) UNIT SURFACE: 270 PM²

3) FORM COMPONENTS: 4 BEDROOMS + BATHROOM + KITCHEN + ROTARY ROOM + HOSTESS + SKY MONSTER + HANGAR



4) ECONOMIES OF SCALE:

1) UNIT ACHIEVES ECONOMIES OF SCALE IN TERMS OF AREA

2) MODULE ACHIEVES THE ECONOMICS OF AGGREGATION WHERE TWO SIDES CAN BE COMBINED

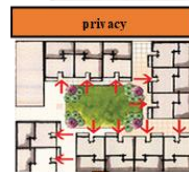
5) FORM ECONOMICS:

THE MODEL IS MORE OF A SQUARE FORM WHICH INCREASES ECONOMIC EFFICIENCY AND TAKES INTO ACCOUNT THE ARCHITECTURAL NEEDS OF THE POPULATION

6) PRIVACY AND SECURITY ECONOMICS:

THE SPECIAL UNIT IS ACHIEVED DUE TO INTERNAL VACUUM WHICH PRESERVES THE SENSITIVITY VENTILATION OF THE UNIT AND AN INGRESS SEPARATION

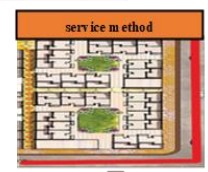
1-2) STUDY OF TOURISM HOUSING IN UPPER EGYPT (AT THE LEVEL OF THE GROUPING UNIT):



Privacy is achieved by clear entrances, no penetration of roads into the village and the buildings being apart



There are no special gaps for units but they are general gaps for different activities



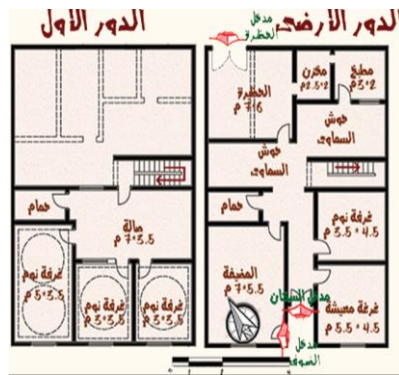
They are served by footpaths and do not penetrate highways into villages but only from outside the village

1-3) THE STUDY OF LITERAL PLANETARY HOUSING AT THE LEVEL OF A RESIDENTIAL UNIT:

1) HOUSING STYLE: PLOTS OF LAND BELONGING TO FAMILY MEMBERS WITH AREAS OF 150-400 M²

2) UNIT SURFACE: OF (200) M²

3) FORM COMPONENTS: 4 BEDROOMS + BATHROOM + KITCHEN + LIVING ROOM + SKY MONSTER + HOSTESS + STOREROOM



4) ECONOMIES OF SCALE:

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- 2) MODULE ACHIEVES THE ECONOMICS OF AGGREGATION WHERE TWO SIDES CAN BE COMBINED

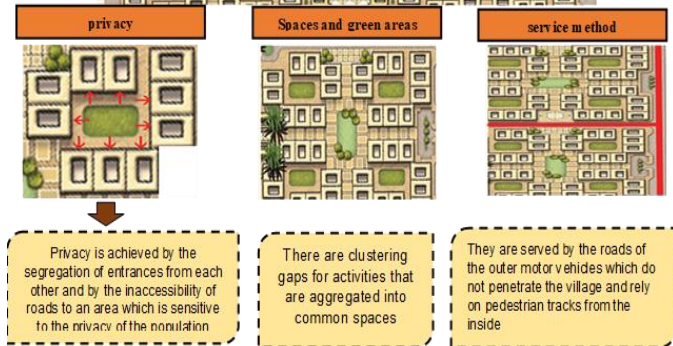
5) FORM ECONOMICS:

THE MODEL IS MORE LIKE A RECTANGULAR SHAPE WHICH INCREASES ECONOMIC EFFICIENCY AND TAKES INTO ACCOUNT THE ARCHITECTURAL NEEDS OF THE POPULATION

6) PRIVACY AND SECURITY ECONOMICS:

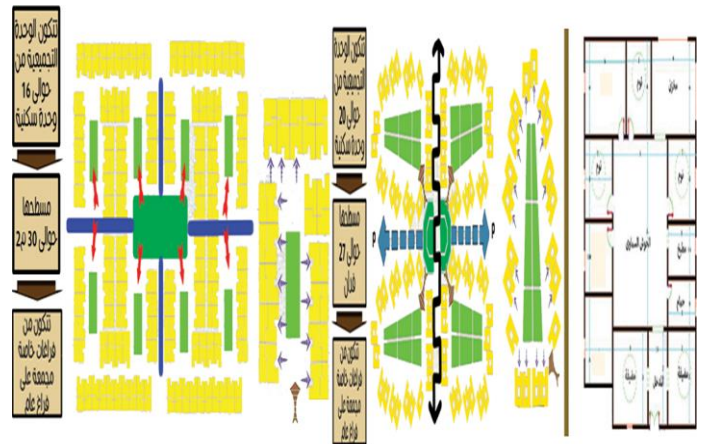
THE SPECIAL UNIT IS ACHIEVED BY THE PRESENCE OF AN INTERNAL VACUUM WHICH PRESERVES THE SENSITIVITY AND VENTILATION OF THE UNIT

1-4) STUDY OF LITERAL AND PLANETARY HOUSING AT THE LEVEL OF THE COLLECTIVE UNIT:

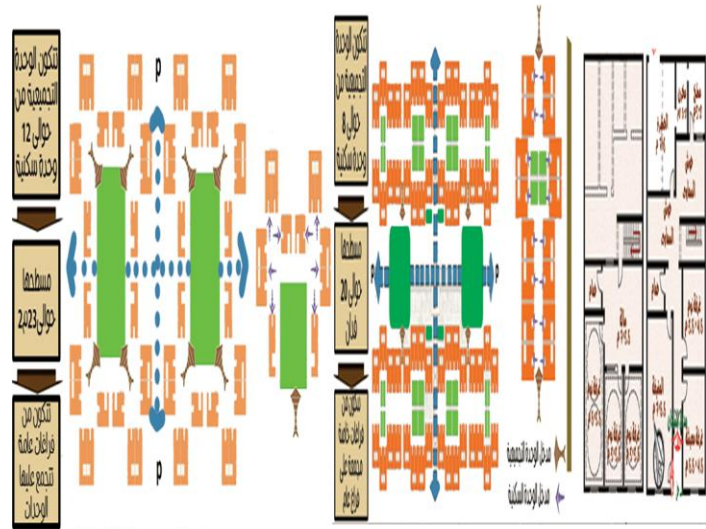


2) PROPOSED HOUSING UNITS AND ASSEMBLY ALTERNATIVES:

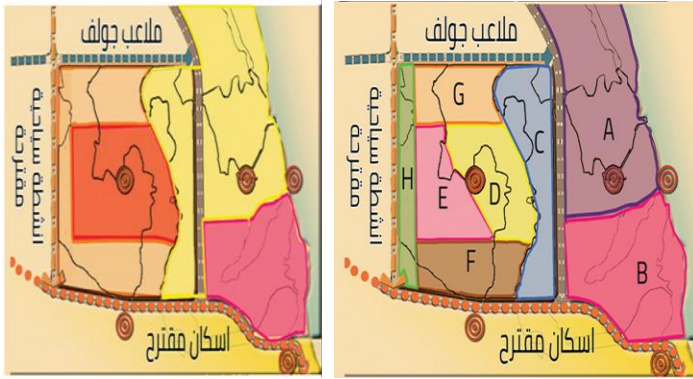
2-1) PROPOSED HOUSING MODEL (TOURISM HOUSING):



2-2) PROPOSED HOUSING MODEL (OCCUPATIONAL SEDATIVE HOUSING):



3) SITE SUITABILITY STUDY FOR USE:



النطاق	الطوبوغرافيا	السيول	الأصلية	التقديم	قيمة الأرض	الاستعمال الملائم
A	من 105 إلى 110	منبسطة من 0-4%	عالية	مخدومة بطريقين	عالية	أنشطة سياحية
B	من 110 إلى 115	متوسطة من 4-8%	عالية	مخدومة بثلاث طرق	عالية	اسكان مرتبط بالسياحة
C	من 115 إلى 120	من 4-12%	غير متصلة	غير مخدومة	متوسطة	خدمات
D	من 120 إلى 125	من 4-12%	غير متصلة	غير مخدومة	منخفضة	اسكان - خدمات ت
E	من 115 إلى 125	من 4-12%	منخفضة	مخدومة بطريق	متوسطة	اسكان
F	من 115 إلى 125	من 4-8%	منخفضة	مخدومة بطريق	منخفضة	اسكان
G	أكبر من 120	من 0-4%	عالية	مخدومة بثلاث طرق	عالية	أنشطة سياحية - خدمات مرتبطة بالسياحة

TABLE (1) FIT LOCATION FOR USE

4) PROPOSED HOUSING PROGRAM:

المصدر	برنامج الإسكان					
	اسكان (40% نوبي حرفي)	اسكان (60% نوبي سياحي)				
	165	مسطح المنطقة بالبدان				
	82.5	اجمالي المساحة المخصصة للاسكان بالبدان				
	348500	اجمالي المساحة المخصصة للاسكان بالمتنر المربع				
المخطط الاستراتيجي للمدينة	40	الكثافة (شخص / فدان)				
الكثافة العامة * مسطح الأرض	3300	عدد السكان (نسمة)				
دراسات الوضع الراهن	فدان	33.00	المساحة المخصصة للاسكان	فدان	49.50	المساحة المخصصة للاسكان
	%	50	نسبة البناء	%	50	نسبة البناء
	فرد	6	متوسط حجم الأسرة	فرد	6	متوسط حجم الأسرة
	نسمة	1650	عدد السكان (نسمة)	نسمة	1485	عدد السكان (نسمة)
	وحدة	275	اجمالي عدد الوحدات	وحدة	248	اجمالي عدد الوحدات
	فدان	16.50	اجمالي نسبة البناء F.P	فدان	24.75	اجمالي نسبة البناء F.P
	م ²	30450	اجمالي نسبة البناء F.P	م ²	27405	اجمالي نسبة البناء F.P
	انوار	2	عدد الانوار	انوار	1	عدد الانوار
	م ²	200	مسطح الوحدة	م ²	270	مسطح الوحدة
	وحدة	1	عدد الوحدات في الدور	وحدة	1	عدد الوحدات في الدور
م	6	أقصى ارتفاع	م	3	أقصى ارتفاع	
وحدة	1	عدد الوحدات في النموذج	وحدة	1	عدد الوحدات في النموذج	
وحدة	275	عدد الوحدات	وحدة	248	عدد الوحدات	

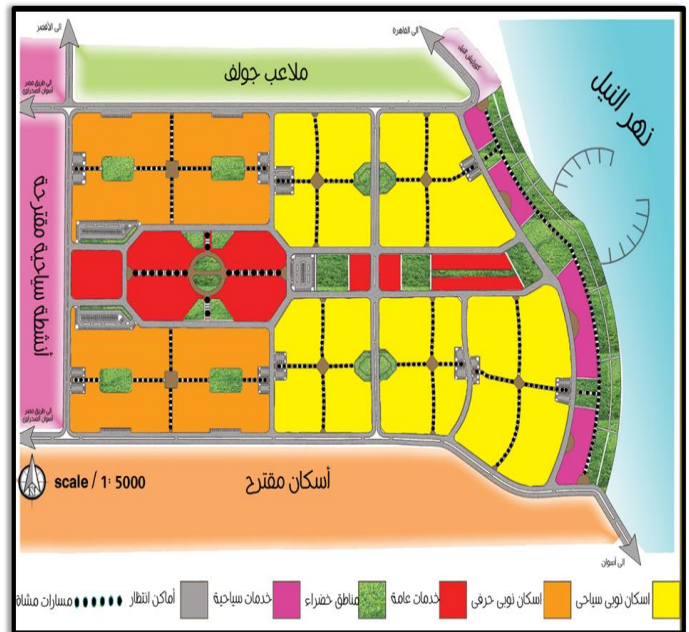
5) PROPOSED PROGRAM OF SERVICES:

النسبة	المسطح بالفدان	المسطح م ²	المصدر	الخدمات
4%	0.7	2940	احتياجات السكان	مدرسة تعليم أساسي
2%	0.4	1680		حضانة
1%	0.2	840		مدرسة تعليم فني حرفي
2%	0.3	1260		وحدة صحية
2%	0.3	1260		مركز صحة أسرة
3%	0.6	2520		مسجد
8%	1.5	6300	تجارب مماثلة	مركز ثقافي نوبي
26%	5	21000		محلات تجارية
10%	2	8400		بازارات
12%	2.3	9660		مطاعم وكافتريات
10%	2	8400		معارض
21%	4	16800		خان حرفي
100%	19.3	81060		الاجمالي

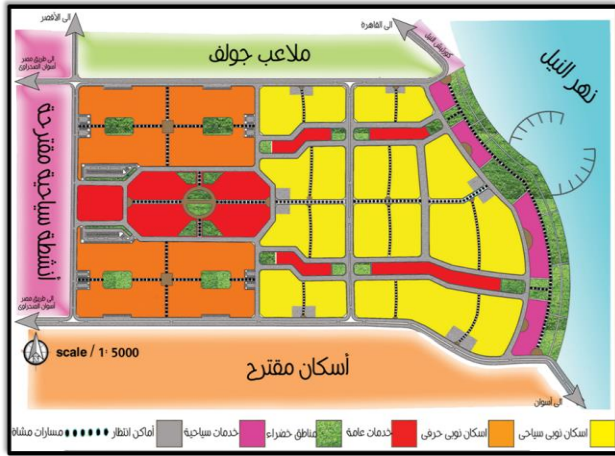
6) LAND USE BUDGET:

النسبة	المساحة بالفدان	الاستعمال
30%	49.5	سكني نوبي سياحي
20%	33.5	سكني نوبي حرفي
50%	83	اجمالي السكاني
0%	0.7	مدرسة تعليم أساسي
0%	0.4	حضانة
0%	0.2	مدرسة تعليم فني حرفي
0%	0.3	وحدة صحية
0%	0.3	مركز صحة أسرة
0%	0.6	مسجد
1%	1.5	مركز ثقافي نوبي
3%	5	محلات تجارية
1%	2	بازارات
1%	2.3	مطاعم وكافتريات
1%	2	معارض
2%	4	خان حرفي
12%	19.3	اجمالي الخدمات
38%	62.7	طرق وفراغات ومناطق خضراء
100%	165	الاجمالي

7) ALTERNATIVE 1: (DISTRIBUTION OF HOUSING CATEGORIES AROUND RECREATIONAL AXIS LINKING NILE CORNICHE WITH PROPOSED TOURIST ACTIVITIES)



8) ALTERNATIVE 2: (DISTRIBUTION OF HOUSING CATEGORIES BY SEPARATION OF CITY PUBLIC SERVICES FROM TOURISM SERVICES)



REFERENCES

- [1]) A letter by Dr. Heba Magdi Ali Nasreddine - Identity and Culture and their Impact on Shaping the Architectural and Urban Environment in the Ancient Nuba Country M. King, B. Zhu, and S. Tang, "Optimal path planning," *Mobile Robots*, vol. 8, no. 2, pp. 520-531, March 2001.
- [2] Aswan Governorate Strategic Plan
- [3] Doctor's Letter: Jihan Ismail Hassan Abdel Ghafoor on architectural and urban expression in the southern villages
- [4] Letter from Dr. Ihab Mohamed Al-Wajih - Southern Architecture
- [5] New Urban Communities Authority
- [6] Central Agency for Mobilization and Statistics
- [7] Field studies

9) PROJECT OUTLINE

