• INTRODUCTION
• THESIS TOPIC
• RESEARCH QUESTION
• PROBLEM STATEMENT
• THEME STUDY
• TYPOLOGY STUDY
• STRATEGY
INTRODUCTION
Population aging of the world
Technological delveopment
Quality of life
Migratory pattern
THESIS TOPIC

Tackle the issue of frail elderly in Cuba within the social, cultural and economical background of Cuba
Isolated by The Society
Elderly Sell Stuff for Living
Low State Salary of Elderly
Increasingly Growth of Aged Population
High Percentage of Elderly

Population pyramid of Cuba 1953
Population: 6,304,524

Population pyramid of Cuba 2015
Population: 11,389,562

Years
85+
80 - 84
75 - 79
70 - 74
65 - 69
60 - 64
55 - 59
50 - 54
45 - 49
40 - 44
35 - 39
30 - 34
25 - 29
20 - 24
15 - 19
10 - 14
5 - 9
0 - 4

Population: 6.304.524

Years
85+
80 - 84
75 - 79
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45 - 49
40 - 44
35 - 39
30 - 34
25 - 29
20 - 24
15 - 19
10 - 14
5 - 9
0 - 4

Population: 11.389.562

6.9%
Insufficient Number of Nursing Home
Calculation of Needed Nursing Home

- Public budget
  - Grandparents: 258
  - 8794 Places

- Private budget
  - Nursing home: 144
  - 11,174 Places

> 20% of 2 million Elderly over 60

> 40,000

> 20,000 Capacity
Inequality of The Society - Tourism Oriented
Inequality of The Society - Poverty
Dilemma Between The Policy and Reality
PROBLEM STATEMENT

The contradiction between the lack of attention from the society and the need for dealing with increasingly growing number of frail elderly
RESEARCH QUESTION

How to improve the living condition of the elderly with less allocation by government, less investment from private sector and lack of attention from family members
THEME RESEARCH
Elderly Care in Chile (South-America)
Elderly Care in Chile (South-America)
Religious Background of Cuba
Local NGO in Cuba

Caritas Cuba

Began in 1991
Soviet withdrew aid
First humanitarian aid
From US 1993

Catholic charities
Non-governmental organization

Orphans
Elderly
At risk
Children

Caritas Other

Caritas Switzerland
Caritas Relief Services
Caritas Spain
Caritas Germany

Day care
Training program
Recreation program
Community services
Emergency relief

Caritas

Focus

Cuba

Caritas

CARITAS CUBANA

Neighborhood Catalyst: Elderly Care Center- Chi Zhang
Current Religious Nursing Home
Well Educated Doctors and Nurses
AMBITION

New bridge between elderly and the community which links them together both physically and mentally. At the same time redefining the centrality within the neighborhood by creating hierarchy.
SITE RESEARCH

Why alamar

Choice of location

Site photos
SITE RESEARCH

Why alamar

Choice of location

Site photos
Isolation Makes it an “Untouched” Green Land
Vision of Alamar
Ideal Residencial Area - Short Traffic Time
Alamar Potential - Microbrigades
Working System of Microbrigades
Strong Sense of Community
Increasingly Growing of Elderly In Alamar

Population pyramid of Alamar 2002

Population pyramid of Alamar 2015
SITE RESEARCH

Why alamar

Choice of location

Site photos
Site Overview
Site Urban Condition
Disconnected on Urban Scale
Network of Neighbourhood
Disconnected on Neighborhood Scale
Typical Neighbourhood
SITE RESEARCH

Why alamar

Choice of location

Site photos
Site Photos
TYPOLOGY RESEARCH

Catholic Charity Institution

92-Bed Nursing Home

Dependent Elderly Care Center
Catholic Charity Institution  92-Bed Nursing Home  Dependent Elderly Care Center
## Conclusion of Typology Research

### Catholic Charity Institution

<table>
<thead>
<tr>
<th>Daycare Center- 40 Places</th>
<th>92-Bed Nursing Home</th>
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<td><strong>1. Reception.</strong></td>
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<tr>
<td>Administration area.</td>
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<td><strong>1. Non-smoking rooms</strong></td>
<td><strong>1. Single rooms for large dependents.</strong></td>
</tr>
<tr>
<td>(Users with moderate dependence, Light or valid).</td>
<td>Individual rooms for users</td>
</tr>
<tr>
<td><strong>2. Single rooms adapted</strong></td>
<td><strong>2. Secretary room</strong></td>
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<tr>
<td>(Users with moderate dependence, Light or valid).</td>
<td>Technical rooms</td>
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<td><strong>3. Single rooms for large dependents.</strong></td>
<td><strong>3. Deliveries room.</strong></td>
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<tr>
<td>Individual rooms for users/5th mental dependence.</td>
<td>Office</td>
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<tr>
<td><strong>4. Non-smoking rooms</strong></td>
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<td><strong>1. Staff dressing room</strong></td>
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<tr>
<td><strong>2. Technical rooms</strong></td>
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<td><strong>3. Deliveries area.</strong></td>
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Conclusion of Typology Research
Conclusion - Lack of Public Function (For City)
STRATEGY
Proposal
Proposal
Targeting Group - Elderly

- Children left Cuba temporarily
- Children moved out of Cuba
- Disabled elderly are regarded as a burden
- Nowhere to go after house was burned down
- Daughter lives with husband. No more room for old man
Expecting Users - Children

- After School
- Left alone by busy working parents
- Children with single elderly
- Lack of entertainment facilities
Urban Strategy

Location of Intervention
Mass Study
Bird view
Final Result of testing
Function Organization

- Public Function: 1895m²
- Administration: 375m²
- Daycare Center: 1720m²
- Nursing Homes: 2475m²
- Circulation: 775m²
Function Organization

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Axonometry

**Roof Level**
- Skylight
- Existing shed

**First Level**
- Nursing Home
- Living Room
- Open Theatre
- Library for Elderly

**Ground Level**
- Nursing Home
- Administration
- Public Service
- Workshops
- Training Rooms
- Reflection Room
- Public Library
**Site Circulation**

**Roof Level**
- Skylight
- Existing shed

**First Level**
- Nursing Home
- Living Room
- Open Theatre
- Library for Elderly

**Ground Level**
- Nursing Home
- Administration
- Public Service
- Workshops
- Training Rooms
- Reflection Room
- Public Library
Basic circulation
Main Entrance
Central courtyard
Corridor/Wall as Furniture
Reflection Room
Room unit / Corridor
Hierarchy of living space
User Density
Cantilevering Balcony
Structure Design
Existing Structure
Primary Wall Structure
Rammed Earth Wall
Primary Column Structure
Timber Column
Primary Beam Structure
Timber Beam
Secondary Floor Structure
CLT Panel
Assambly Scheme
Sustainability Scheme