Addicts rehabilitation in Alamar

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Complex Project Studio - Havana group
1. Background
POVERTY IN MONEY AND AVAILABLE RESOURCES
TOURISM BOOSTS HAVANA’S CITY REGENERATION

but not outside the city
2. Goal
Boost the **economy** of an outskirt neighbourhood of Havana in such a way the local **identity** is **kept** and **reinforced**.
3 questions are essential:

1) How can we boost economy?

2) What is the local identity?

3) How goes improving economy and reinforcing local identity go together?
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
3. Strategy
1) How can we boost economy?

Healthcare and education are both primary human needs.
Distrust in Cuban technology by developed countries.

Labor intensive healthcare,
We can start with the most unwanted one:

Addicts rehabilitation
1. Background

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2. Goal

3. Strategy

4. Intervention

5. Results

Heroïne-epidemie VS steeds extremer

25 AUG 2016

CINCINNATI - De heroïne-epidemie in de Verenigde Staten neemt steeds extremere vormen aan. Het aantal sterfgevallen als gevolg van overdoses blijft toenemen en drugsbestrijders signaleren een nieuwe trend: op sommige plaatsen wordt de extreem verslavende drug versneden met carfentanil. Deze pijnstiller is 10.000 keer krachtiger dan morfine. Twee milligram van dit goedje is al genoeg om een Afrikaanse olifant onder zeil te brengen.

Het afgelopen jaar is het aantal heroïnedoden schrikbarend gestegen. Met name in de staten Ohio, Indiana en Florida steeg het aantal overdoses met dodelijke afloop. De drug, die in Nederland opkwam in de jaren zeventig en in de negentiger jaren uit de gratie raakte, is sinds 2014 weer in trek in de VS.

In de stad Cincinnati (Ohio) steeg het aantal overdoses afgelopen week explosief van 25 naar 90. „We weten het niet zeker, maar we vermoeden dat er een partij heroïne met...
Expenses for drug and alcohol rehabilitation

United States: $1000 a day

Canada: $426 a day

Cuba: $176 a day

Individuals in need

Insurance companies

I can afford!

We can save money!
2) What is local identity?

Healthcare and education are both primary human needs.

This should be considered an unmissable part of the Cuban identity.
2) What is local identity?

The strong community and it being the largest urban farming site should be considered Alamar’s identity.
3) How goes improving economy and reinforcing local identity go together?

By engaging the identity in the improving economy process.
Individuals in need become consumers in Cuba’s healthcare service. Insurance companies that do cover the costs

1. Invest to build the facilities.
2. Recommend his clients to choose for Cuba for higher percentage of coverage
3. Profit from low costs.

I can afford!
We can save money!

foreign patients

community

farms

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4. Intervention
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
1. Background

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2. Goal

3. Strategy

4. Intervention

5. Results

translation:
Gigantic Swimming Pool
work and rehabilitation
Windmills to pump seawater into the pool.

Water filtering and storage system

Water quality control and add-ins
Functions

- Wards
- Office
- Consult
- Residences
- Hotel
- Research
- Cultural activities
- Circulation
- Service

Market
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results

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Spatial arrangement

The original state
Clear border water/dry

New volume
little interaction
building / environment

public area flows
through
space underneath
still belongs to building

Porous building
hybrid space
the swimming pool
belongs to both
public and building
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
Havana’s gallery allows spontaneous conversations while looking for shades.
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
Spatial quality requirements

To local inhabitants

Global: Contemporary
Generic

Local: Emphasis on community

Connection global/local visible
To foreign patients

Luxurious resort

Attractive activities

Connection global/local visible

1. Background
2. Goal
3. Strategy
4. Intervention
5. Results
reference sea view resort
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results

Wards, where patients live

Consult office and medical research

Administrative office
Connecting circulation space and reception
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results

patients

visitors

employees
The circle should have open character resembling a circular plaza.
too much attention for casual chats
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
1. Background

2. Goal

3. Strategy

4. Intervention

5. Results
Avoid direct sun and need cooling

Climate data for Havana

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average high °C (°F)</td>
<td>25.8 (78.4)</td>
<td>26.1 (79)</td>
<td>27.6 (81.7)</td>
<td>28.6 (83.5)</td>
<td>29.8 (85.6)</td>
<td>30.5 (86.9)</td>
<td>31.3 (88.3)</td>
<td>31.6 (88.9)</td>
<td>31.0 (87.8)</td>
<td>29.2 (84.6)</td>
<td>27.7 (81.9)</td>
<td>26.5 (79.7)</td>
<td>28.8 (83.8)</td>
</tr>
<tr>
<td>Daily mean °C (°F)</td>
<td>22.2 (72)</td>
<td>22.4 (72.3)</td>
<td>23.7 (74.7)</td>
<td>24.8 (76.6)</td>
<td>26.1 (79)</td>
<td>27.0 (80.6)</td>
<td>27.6 (81.7)</td>
<td>27.9 (82.2)</td>
<td>27.4 (81.3)</td>
<td>26.1 (79)</td>
<td>24.5 (76.1)</td>
<td>23.0 (73.4)</td>
<td>25.2 (77.4)</td>
</tr>
<tr>
<td>Average low °C (°F)</td>
<td>18.6 (65.5)</td>
<td>18.6 (65.5)</td>
<td>19.7 (67.5)</td>
<td>20.9 (69.6)</td>
<td>22.4 (72.3)</td>
<td>23.4 (74.1)</td>
<td>23.8 (74.8)</td>
<td>24.1 (75.4)</td>
<td>23.8 (74.8)</td>
<td>23.0 (73.4)</td>
<td>21.3 (70.3)</td>
<td>19.5 (67.1)</td>
<td>21.6 (70.9)</td>
</tr>
<tr>
<td>Average rainfall mm (inches)</td>
<td>64.4 (2.535)</td>
<td>68.6 (2.701)</td>
<td>46.2 (1.819)</td>
<td>53.7 (2.114)</td>
<td>98.0 (3.858)</td>
<td>182.3 (7.177)</td>
<td>105.6 (4.157)</td>
<td>99.6 (3.921)</td>
<td>144.4 (5.685)</td>
<td>180.5 (7.106)</td>
<td>88.3 (3.476)</td>
<td>57.6 (2.268)</td>
<td>1,189.2 (46.817)</td>
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<tr>
<td>Average rainy days (≥ 1.0 mm)</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>10</td>
<td>7</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>6</td>
<td>5</td>
<td>80</td>
</tr>
<tr>
<td>Average relative humidity (%)</td>
<td>75</td>
<td>74</td>
<td>73</td>
<td>72</td>
<td>75</td>
<td>77</td>
<td>78</td>
<td>78</td>
<td>79</td>
<td>80</td>
<td>77</td>
<td>75</td>
<td>76.1</td>
</tr>
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</table>

Source: World Meteorological Organisation (UN), Climate-Charts.com

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1. Background

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4. Intervention

5. Results
both north-western facades and south-eastern facades needs horizontal and vertical sun shading
case study: Andasol
Location: Spain
75 W / m² also at night and rainy days
Vaporation of water: 5L/kWh
1. Background

2. Goal

3. Strategy

4. Intervention

- oil up to 400 degrees
- layers of metal gauss
- destillated water, suitable for medical use
- salt water warmth storage
- warm storage
- salt water

5. Results
2. Goal

3. Strategy

4. Intervention

5. Results

- Use original storage of the swimming pool as warm water storage
- Use sea water
- Power plant
With a total of 4725 m² the power plant is able to sustain 174 air conditioning at the same time. evaporate 1375L water/hour.

The average gross energy consumption in Spain is 3110 kwh a person. This building is able to sustain 760 people.

This building houses up to 76 patients, 45 employees and 56 guests.

There is still a lot energy left for the neighborhood.
End.