Out of sight: Sustainable Dance School and Emergency Social Housing

this image is a rendering that aims to simulate a project in the site where it was thought

Overall context

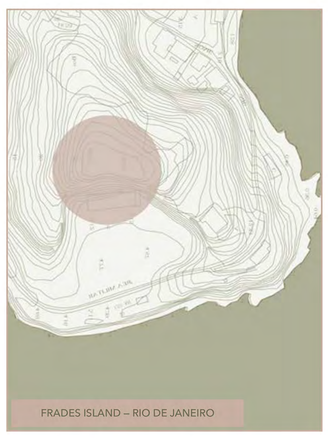
The place chosen for the implantation was the Frades Island, in the northern area of Rio de Janeiro, Brazil. Located in the literal southeast of the state, in a slightly dense region, just 11km far from the city center. The project land is characterized by the combination of landscape formed by plains and an intense and preserved afforestation that configure the bucolic climate, having as principal view the Presidente Costa e Silva Bridge which connects Rio de Janeiro to Niterói.

Having as object of study extensionist projects of local relocation, as well as the learning resulting from the experience of the residents, the project aims thinking the island from the limits that define it, whether physical-tangible or social, assuming a critical reading about the role that they play on these resident´s lives and the impact of the residences and the dance school.

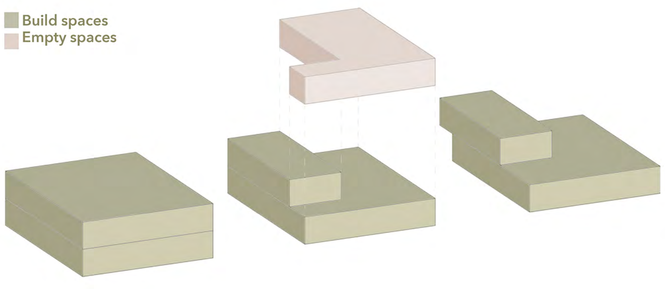
The project was thought during 6 months, with an estimated execution of 4 months. In it, I proposed the insertion of 42 conteneirs of 20 foot treated with thermal insulation, totaling a space built of 620 m to meet two needs: a dance school that previously operated in spaces adjacent to the church and three emergency social housing, which would serve as temporary shelter for the residents, always having on mind the necessity of a fast and accessible construction, with materials of easy insertion on the local.

The project as a whole, together with the political local movements and extension research, warn/alert about the need for government and society care towards the remaining population of Ilha dos Frades, especially the right to access to culture and decent housing, present in the Brazilian constitution. It comes as a conversation topic the importance of the historical-ancestral preservation of the place, through the generations of families that since the century XIX have been there, whom thanks to the project would continue to inhabit the place and mitigate, therefore, the effects of gentrification and real estate speculation in the Rio de Janeiro´s port area.

Location plan

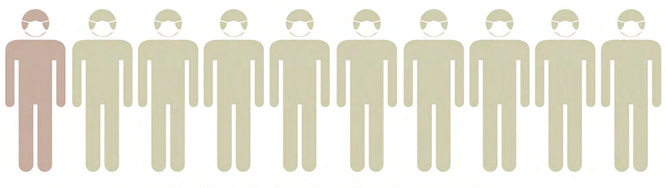


Additions and subtractions of the form

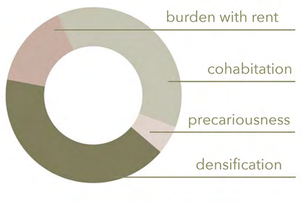


National Housing Overview

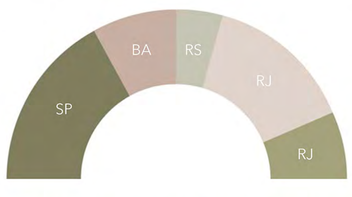
Source: Fundação Getúlio Vargas.



1 in 10 Brazilians does not have decent housing



housing related problems



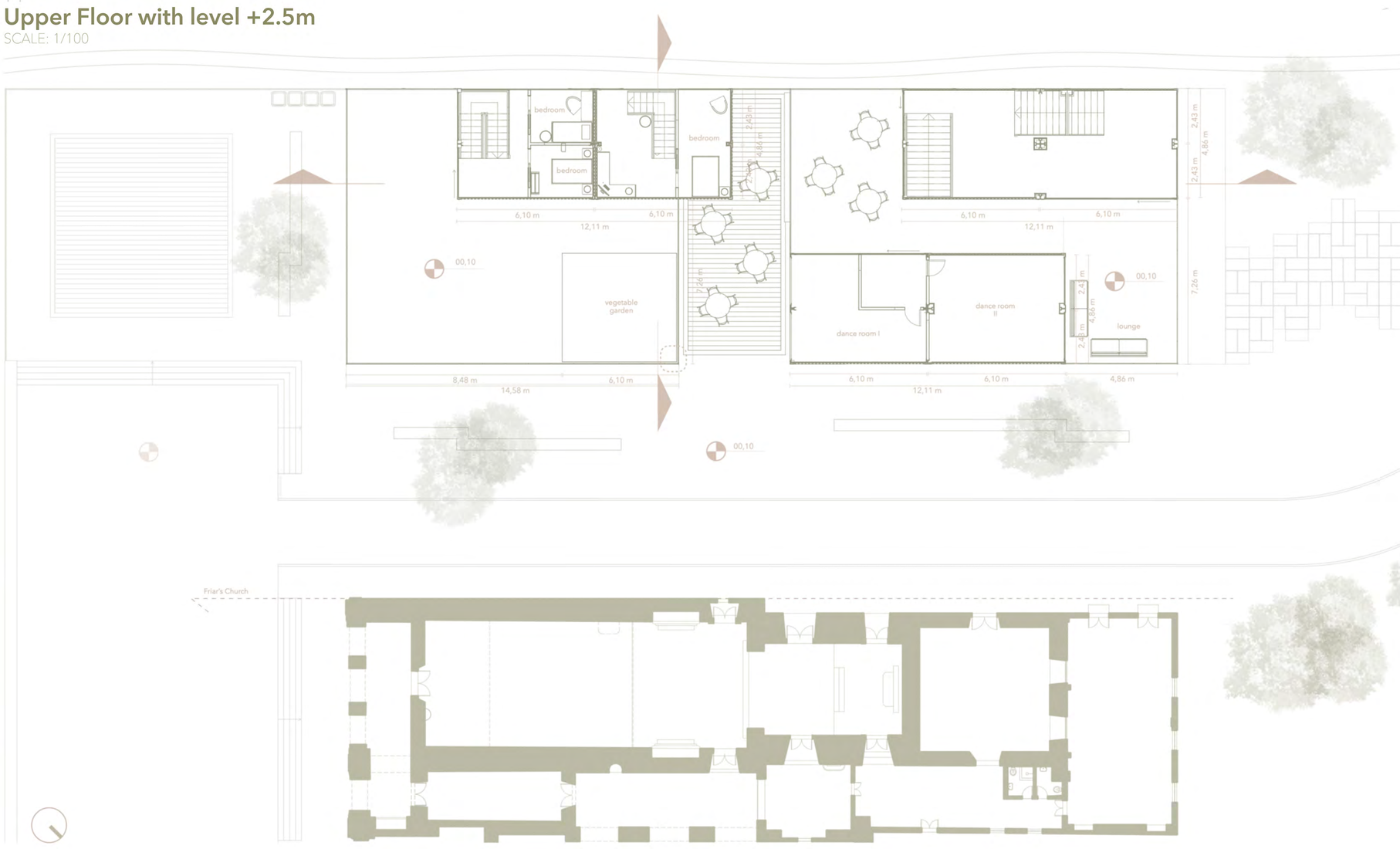
brazilian regions with the highest deficit

Ground Floor with level +1.5m

SCALE: 1/100

Upper Floor with level +2.5m

SCALE: 1/100



3 unidades
8 pessoas

lote: 130m²
edificado: 240m²

Northeast facade with elevation

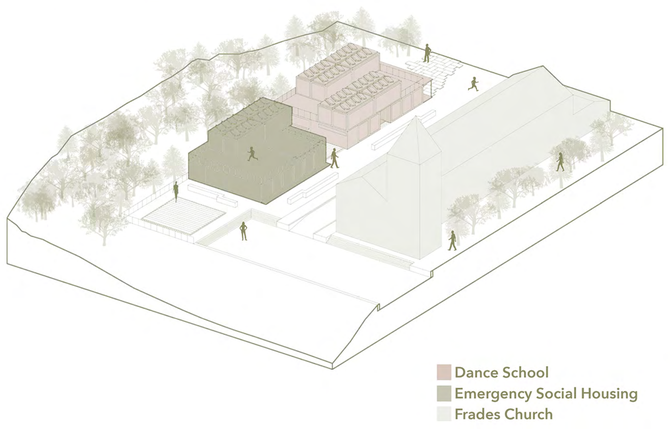
SCALE: 1/100

Longitudinal AA section with elevation

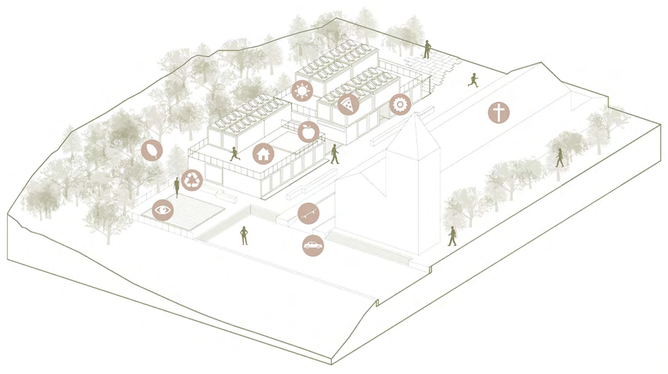
SCALE: 1/100

"We truly believe that **conscious and sustainable architecture**, as well as the **exchange of knowledge on a national and regional scale**, are the best ways to align human beings with the world, the space where they live; also becoming, therefore, the best way to avoid pandemic, social and climate tragedies. **A city without respect for nature is a city without respect for life.**"

Usage diagram

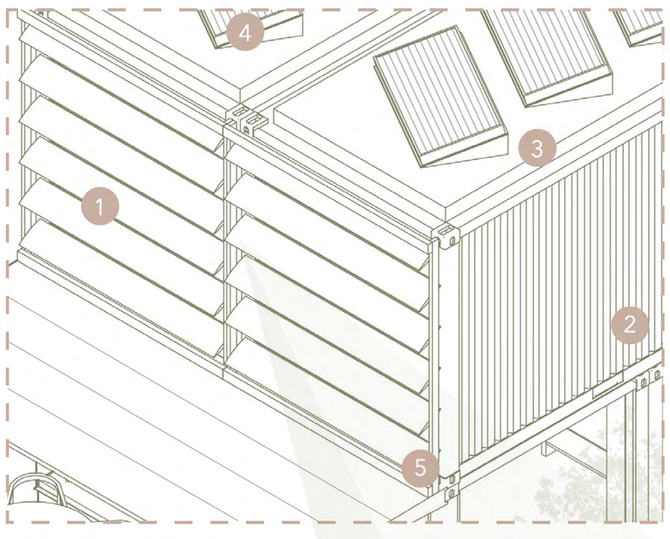


Service diagram



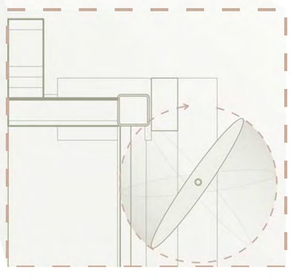
Detailing AA

Isometric perspective of the upper level movable louvers



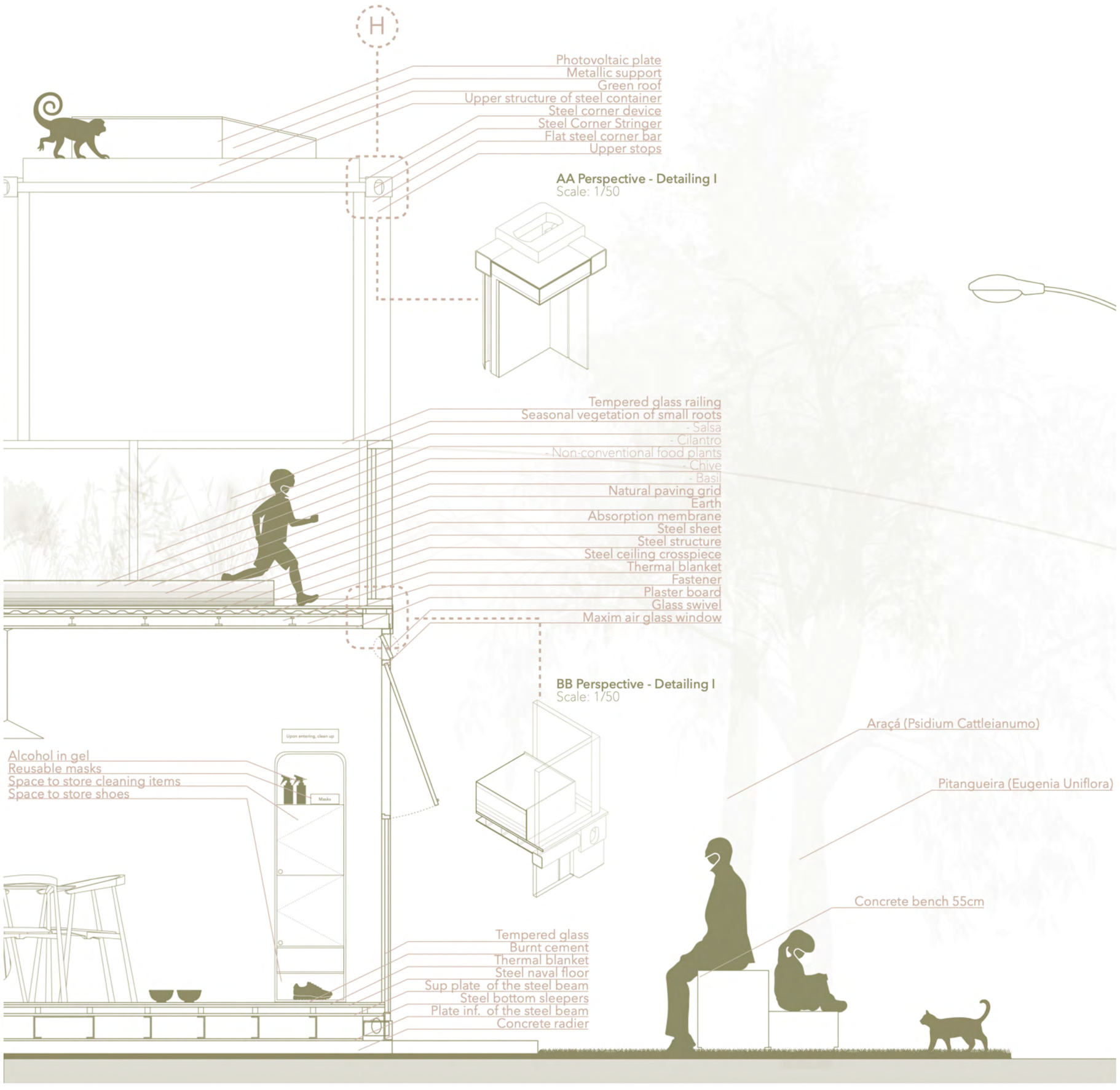
Legenda

1. Movable louvers - 0.2mX2.45m/20°, 40°, 60°, 80° and 100°.
2. Cold-formed 12-foot metal container frame.
3. Green roof.
4. 0.5mX1.50m monocrystalline silicon photovoltaic solar panel.
5. Cold formed metal cover.
6. Metal sheet 0.25mX4.90m.



Longitudinal section of the facade

SCALE: 1/50



Regional section