

Mateus Paulichen – BArch final thesis
University of Campinas, Brazil

Brief description of the project

FROM GLOBAL TO LOCAL

The global climate situation requires that current architectural practice rethinks construction methods in search of a lower environmental impact. However, this challenge becomes extremely complex in densely urbanized cities that require a great verticalization of buildings. The research sought to establish a practical methodology for vertical buildings based on the use of more sustainable construction materials.

The project is located at Avenida Rio Branco in Campos Elíseos, in the old center of São Paulo. Formerly an area of palaces and one of the most important sites of the city's historic urban development, the region is currently poorly supported by the public authorities and in need of projects that serve as catalysts for change in the region.

The building features mixed use with housing, retail, and offices. Added to this are a popular bom prato restaurant and an incubator to help small businesses as programs of social return for the region.

The approach especially explores the use of three constructive solutions: the use of engineered wood for the structure, a material that makes verticalization possible; the use of industrialized panels for closures, making the work cleaner and more efficient; and the optimization of the use of the still necessary concrete through formwork manufactured in 3D printers for construction.