

POLYTECHNIC OF TORINO
FACULTY OF ARCHITECTURE 2
Degree in Architecture
Honors theses

Waste as resource: recycled plastic as instrument to the improving of urban situation. Case analyzed: Santo André (Brazil)

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The necessity to improve the effects that human activities create on the natural environment, is a need that everybody feel as a priority.

In the urbanized areas, traffic, water, air pollution, the waste of natural resource and the not effective employment of the territory, connected to the recourse of the discharge, are just few of the daily experiences that shows us the urgency to identify an affective solution.

The tension towards the individualization and the utilization of a tenable development model, the approach able to conciliate natural reasons and the economical evolution, can not be restricted to this teorical consideration circle, but it has become a social common task.

Our thesis, based on this conjecture, has particularly given attention to the brazilian reality (situation), and precisely to Santo André's situation.

If, on a side, the principal topic is that one concerning plastic recycling, on the other the principal reason of the work done is to interven on an urban reality in which a high percentage of the population lives in "extreme case (conditions)".

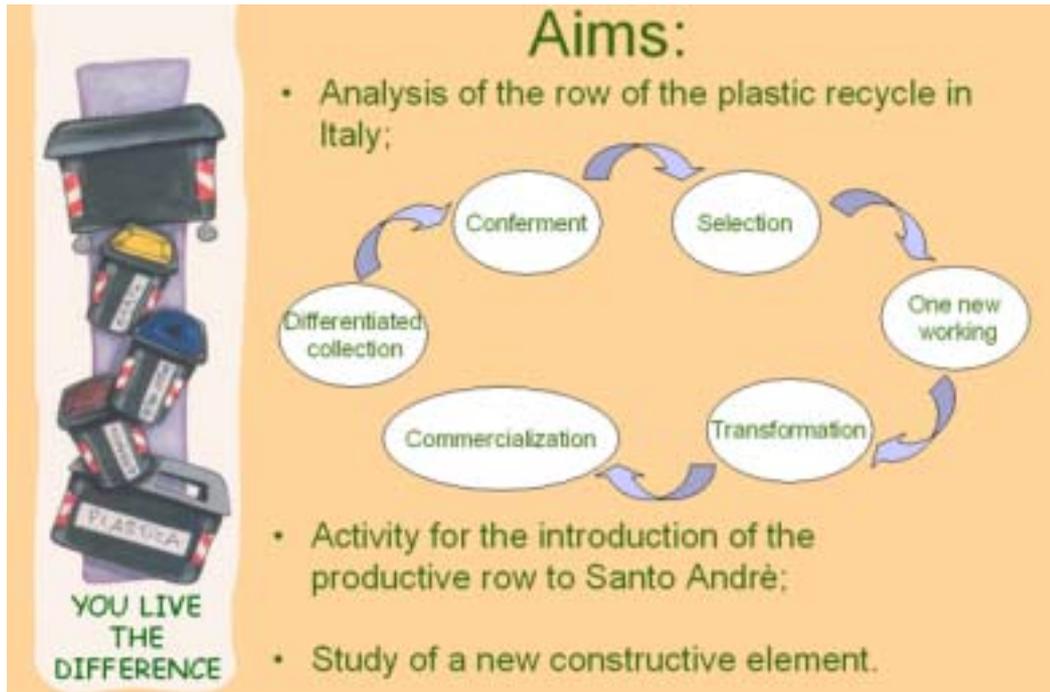


The thesis follows a specific chronological way. Initially at the beginning) we report to the synthesis laboratory “Technologies for paces in extreme conditions”, where the final goal is that one of planning a constructive element, technologically adapted to the brazilian favelas reality, using recycled plastic.

The preliminary study has been fundamental for the development of the thesis.



The experience about Santo André, has given the chance to go into the researches done before and it has moved our attention, more precisely, toward the study of the entire recycled plastic's production process.



The matter is examined closely referring to Santo André's reality, compared to the Italian one, and in particular, to the Turin situation. In the final phase a plan for the new row of the recycle plastic to André Saint, is proposed.

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