

IPRO 339 - Designing Affordable Housing out of Shipping Containers for Ciudad Juarez, Mexico

CONDITIONS

MAKESHIFT HOMES IN UNPLANNED COMMUNITIES

HIGH TURNOVER OF WORKERS IN MAQUILADORES

AVAILABLE HOMES ONLY AFFORDABLE FOR THOSE MAKING MORE THAN \$1950 PER MONTH - THE AVERAGE FACTORY WORKER EARNS \$325 PER MONTH

LITTLE INDOOR PLUMBING OR ELECTRICITY

GANG VIOLENCE AND MURDERS

TARGET CUSTOMER PROFILE



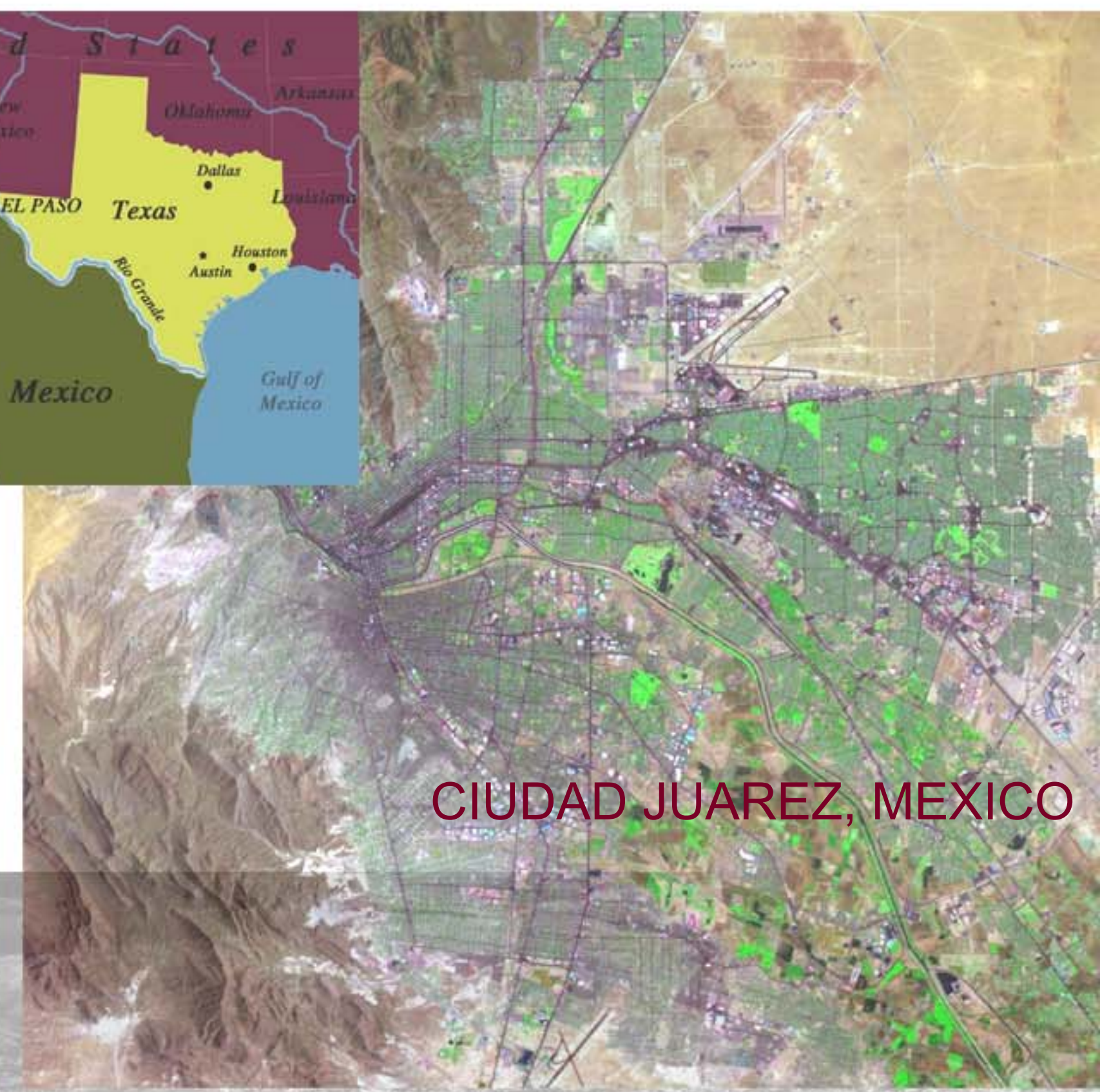
Maria is a 40 year old mother of two. For three years she has worked for an American owned factory in Juarez, called a maquiladora. She makes about \$2.00 an hour and sometimes receives food coupons.

She and her family share their home with another family; the home, like most, is made of castoff materials from the factories -- a wooden frame salvaged from industrial pallets, with interior walls made of unfolded corrugated boxes. There is no running water.

Maria's teenage sons have not had the opportunity to go to school because they must work to help support the family.

Maria is concerned with the safety and health of her family, but she cannot afford the proper housing which is available in Juarez.

LOCATION



CIUDAD JUAREZ, MEXICO

DRY CLIMATE WITH EXTREME TEMPERATURES- HOT DURING THE DAY AND COLD AT NIGHT



Carlos came to Juarez to find a job so he could support his large family who live further south in Mexico. He had not planned to stay very long, but he has been working in the Maquiladores factories for over two years; he has only seen his family twice since then. Soon, his two younger brothers and his younger sister plan to come join him in Juarez to find jobs of their own. Carlos hopes to find a better place where they can all live together, but there are not many options available.

SOLUTION

AFFORDABLE SINGLE AND DOUBLE CONTAINER UNITS

\$8000 SINGLE UNIT =30% OF INCOME

INDOOR PLUMBING WITH KITCHEN AND BATH

INDIVIDUAL HVAC SYSTEMS FOR HEATING AND COOLING

COMMON COURTYARDS AND SOCIAL PLACES SUCH AS FOOTBALL FIELD AND MARKETPLACE

