

Pratt Institute
CUJAE
THE NEW SCHOOL
Casa de las Américas

**SELF-BUILD MODIFICATIONS TO HERITAGE
FAÇADES IN CENTRO HABANA**
**MODIFICACIONES DE AUTOCONSTRUCCIÓN A
FACHADAS PATRIMONIALES EN CENTRO HABANA**

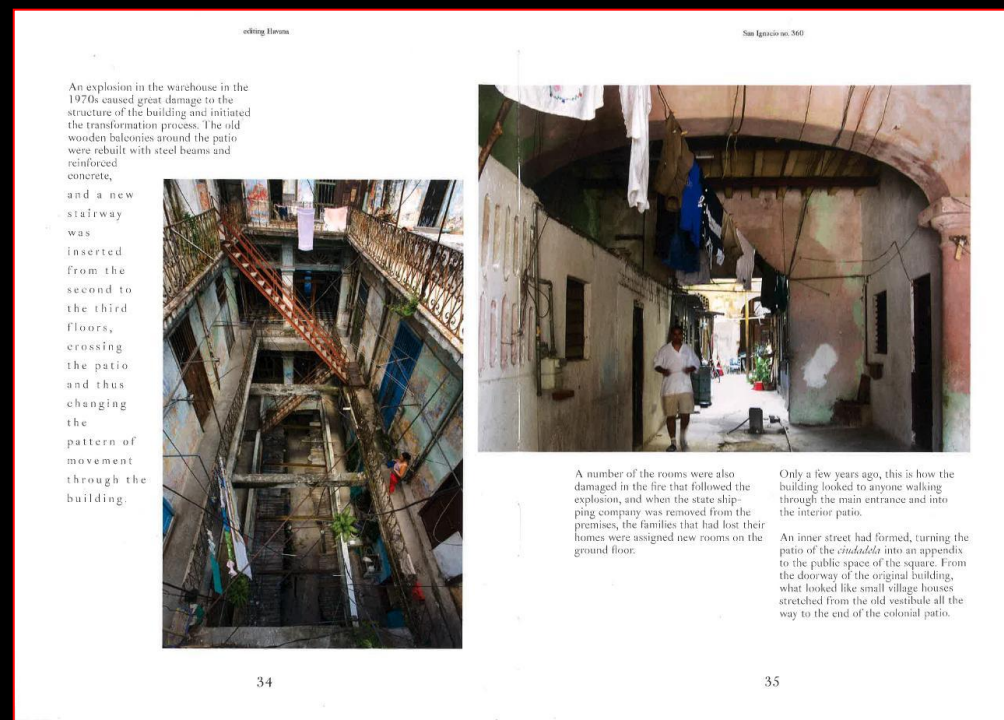
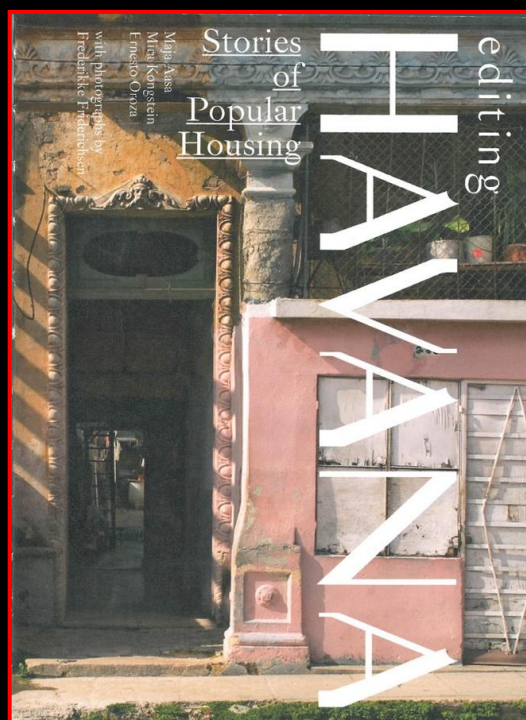
An aerial photograph of a city, likely Havana, showing a dense grid of buildings. A central vertical strip of the city is highlighted with yellow lines, indicating a specific survey area. The text is overlaid on the right side of the image.

**CUJAE PROFESSOR
JORGE PEÑA PLOTS A
SURVEY AREA OF
ABOUT 1,000 BUILDINGS**

**EL PROFESOR DE LA
CUJAE, JORGE PEÑA,
TRAZA UN ÁREA DE
TRABAJO CON UNOS
1.000 EDIFICIOS**

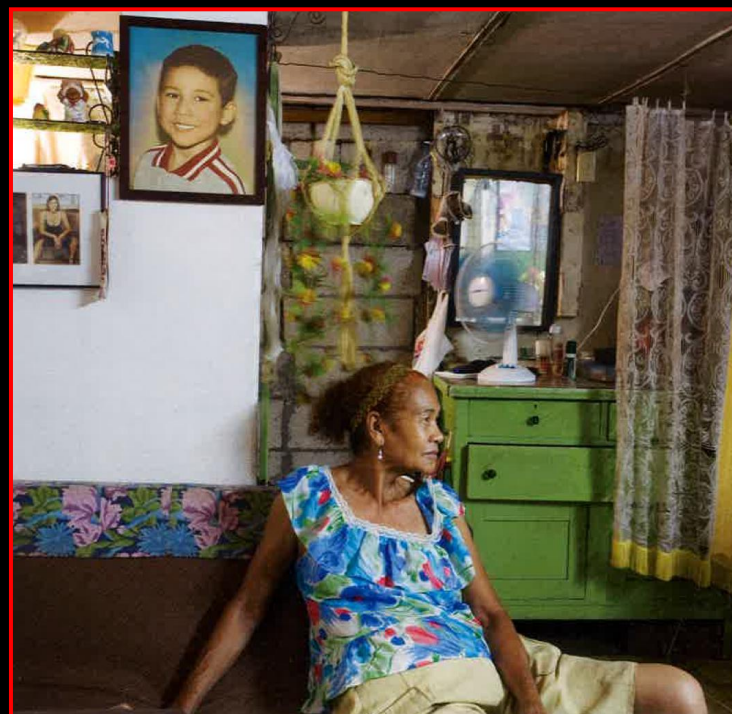
BASIC CONCEPTS

CONCEPTOS BÁSICOS

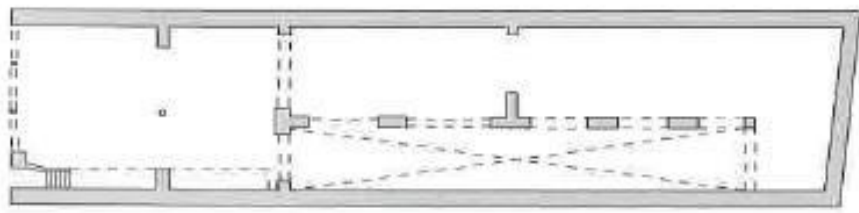


ERNESTO OROZA'S GROUND-BREAKING STUDY OF THE SELF-BUILDERS IN HAVANA REVEALS THEIR MATERIAL HARDSHIP AND INGENUITY IN AN "ARCHITECTURE OF NECCESSITY".

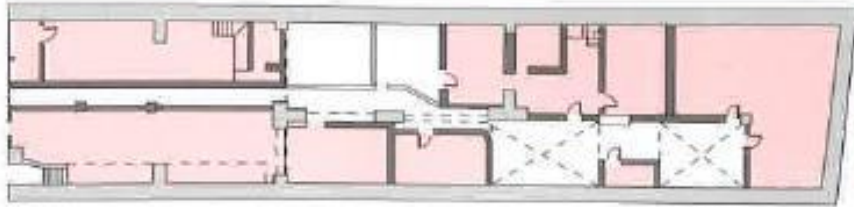
EL ESTUDIO INNOVADOR DE ERNESTO OROZA SOBRE LOS AUTOCONSTRUCTORES DE LA HABANA REVELA SUS DIFICULTADES MATERIALES Y SU INGENIO PARA CREAR UNA "ARQUITECTURA DE NECESIDAD".



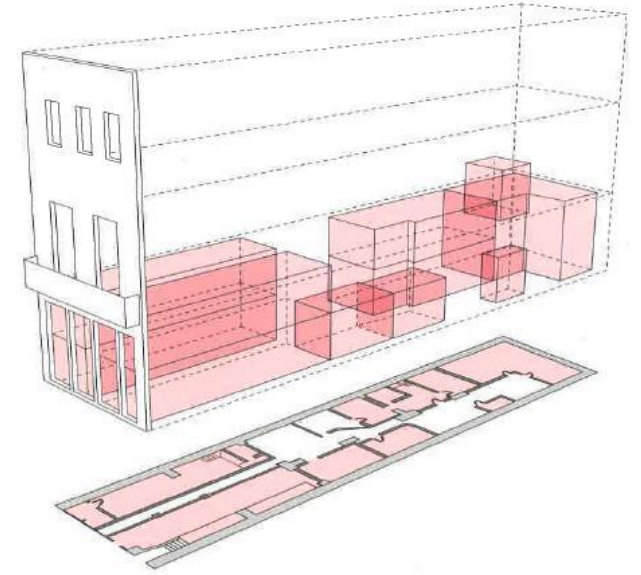
**A CULTURE OF RECYCLING SUPPORTS THE DENSIFICATION AND
ENHANCEMENT OF INTERIOR HOUSING ACCOMODATIONS**
LA CULTURA DEL RECICLAJE RESPALDA LA DENSIFICACIÓN Y LA
MEJORA DEL INTERIOR DE LAS VIVIENDAS



Original structure
Ground floor 1:400



Modified structure
Ground floor 1:400



**IN MULTI-STORY HISTORIC STRUCTURES THE SELF-BUILDERS CREATE
ADDITIONAL INTERIOR FLOOR SPACE AND ADDITIONAL BUILDING STORIES.**

**EN ESTRUCTURAS HISTÓRICAS DE VARIOS PISOS, LOS
AUTOCONSTRUCTORES CREAN EN LOS EDIFICIOS ESPACIO INTERIOR
ADICIONAL Y PISOS ADICIONALES.**



**"FORM FOLLOWS NECCESSITY" IN THE FRACTURING OF HISTORIC FACADES
BY OWNERS WHO CONTROL BUT A FRAGMENT OF THE WHOLE.**

**"LA FORMA SIGUE A LA NECESIDAD" EN LA RUPTURA DE FACHADAS
HISTÓRICAS HECHA POR PROPIETARIOS QUE CONTROLAN SÓLO UN
FRAGMENTO DEL TODO.**



REGLA SURVEY

SIMILARLY, IN REGLA, MULTI-STORY SELF-BUILD HOMES ARE OFTEN CONSTRUCTED IN DIFFERENT STAGES TO MEET THE NECESSITIES OF DIFFERENT RESIDENTS OR FAMILY MEMBERS.

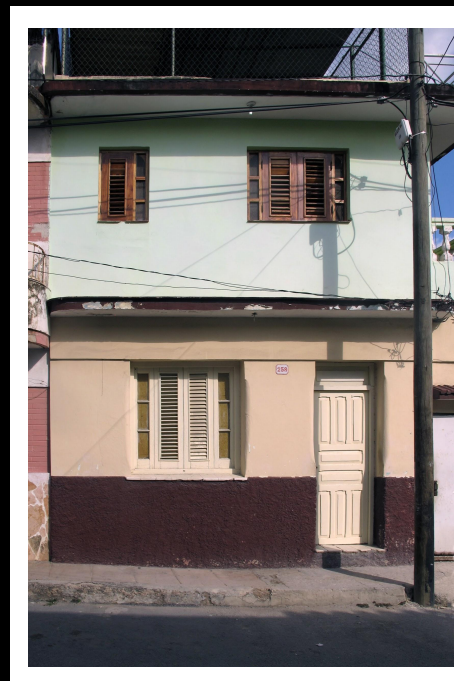
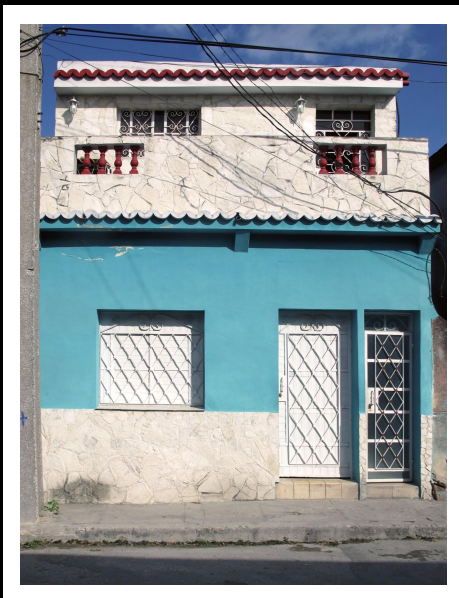
DE MANERA SIMILAR, EN REGLA, LAS CASAS CON VARIOS PISOS AUTOCONSTRUIDOS SE CONSTRUYEN A MENUDO EN DIFERENTES ETAPAS PARA SATISFACER LAS NECESIDADES DE LOS DISTINTOS RESIDENTES O MIEMBROS DE LA FAMILIA.



REGLA SURVEY

**ONE STORY RENOVATIONS TEND TO BE ARCHITECTURALLY COHERENT WITH
SINGLE OWNERS CONTROLLING COMPLETE FACADES**

**LAS RENOVACIONES DE VIVIENDAS DE UNA PLANTA TIENDEN A SER
ARQUITECTÓNICAMENTE COHERENTES, CON UN PROPIETARIO ÚNICO
CONTROLANDO LA FACHADA COMPLETA.**



MULTI-STORY SELF-BUILD HOMES
OFTEN APPEAR DISJOINTED
(AS IN JANNA AKIMOVA'S
ANALYSIS)

LAS CASAS DE VARIOS PISOS DE
AUTOCONSTRUCCIÓN A MENUDO
PARECEN DESCONECTADAS
(COMO EN EL ANÁLISIS DE JANNA
AKIMOVA)



2023-2024

SURVEY

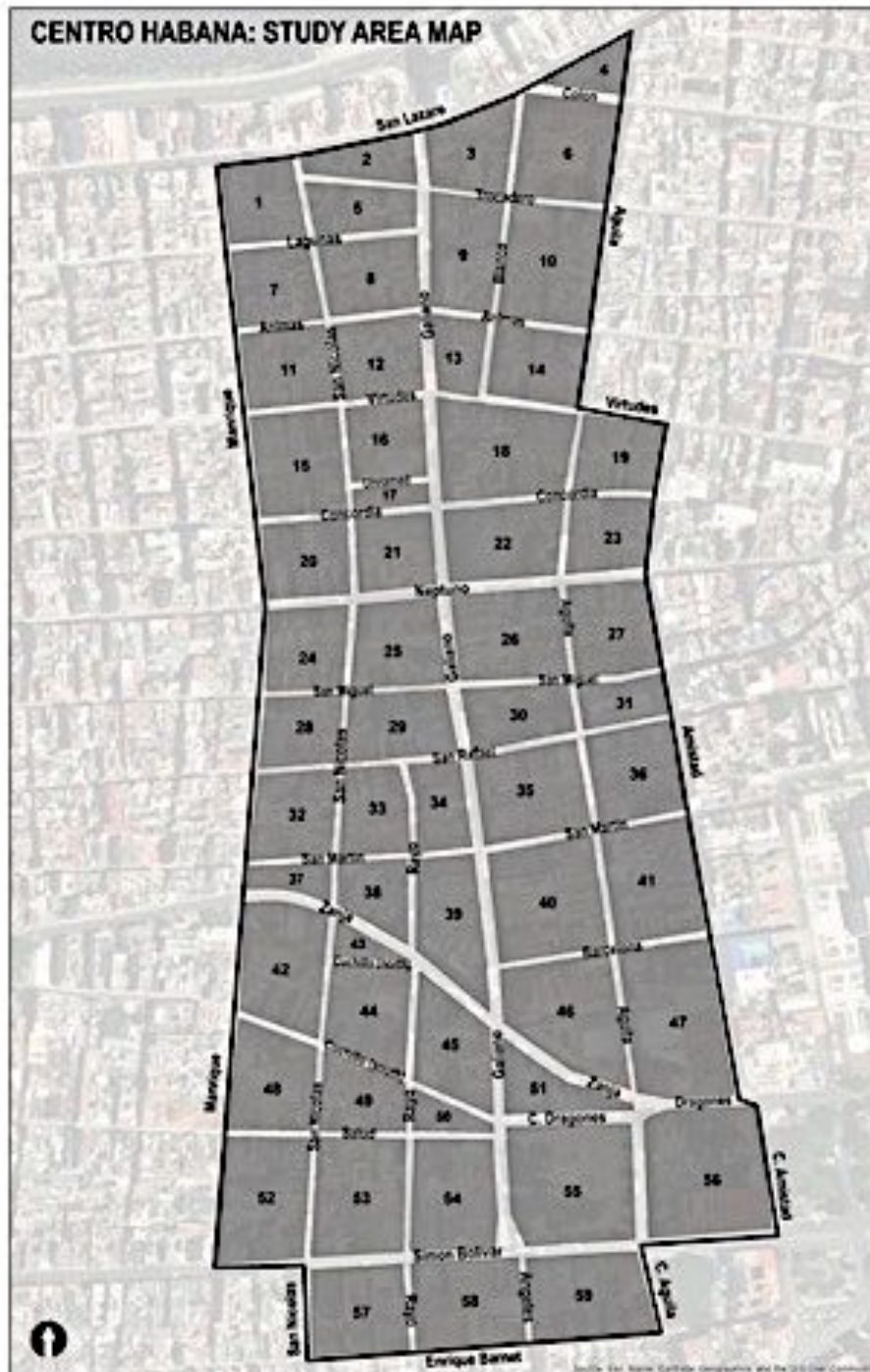
REGISTRO FOTOGRÁFICO

During Spring break of 2023 a class of students from the Pratt Institute, Graduate School of Architecture, were joined by former members of a Havana Studio team from The New School, Graduate Program in International Affairs as well as students from the Technological University of Havana (CUJAE), School of Architecture, to photograph a 1,000 building survey zone in Central Havana.

Durante las vacaciones de primavera de 2023, un grupo de estudiantes de la Escuela de Posgrado de Arquitectura del Instituto Pratt se unió a ex miembros del Havana Studio de la Maestría en Asuntos Internacionales de The New School y a estudiantes de la Facultad de Arquitectura de la Universidad Tecnológica de La Habana (CUJAE) para fotografiar una zona de estudio de 1.000 edificios en Centro Habana.

Each photo team consisted of 2 Pratt students and 2 CUJAE students, discussing each building and taking notes, downloading photos in the evenings. Three former New School students worked through the nights organizing images in a photobank of 7,000 pictures which was systematized prior to arrival in New York.

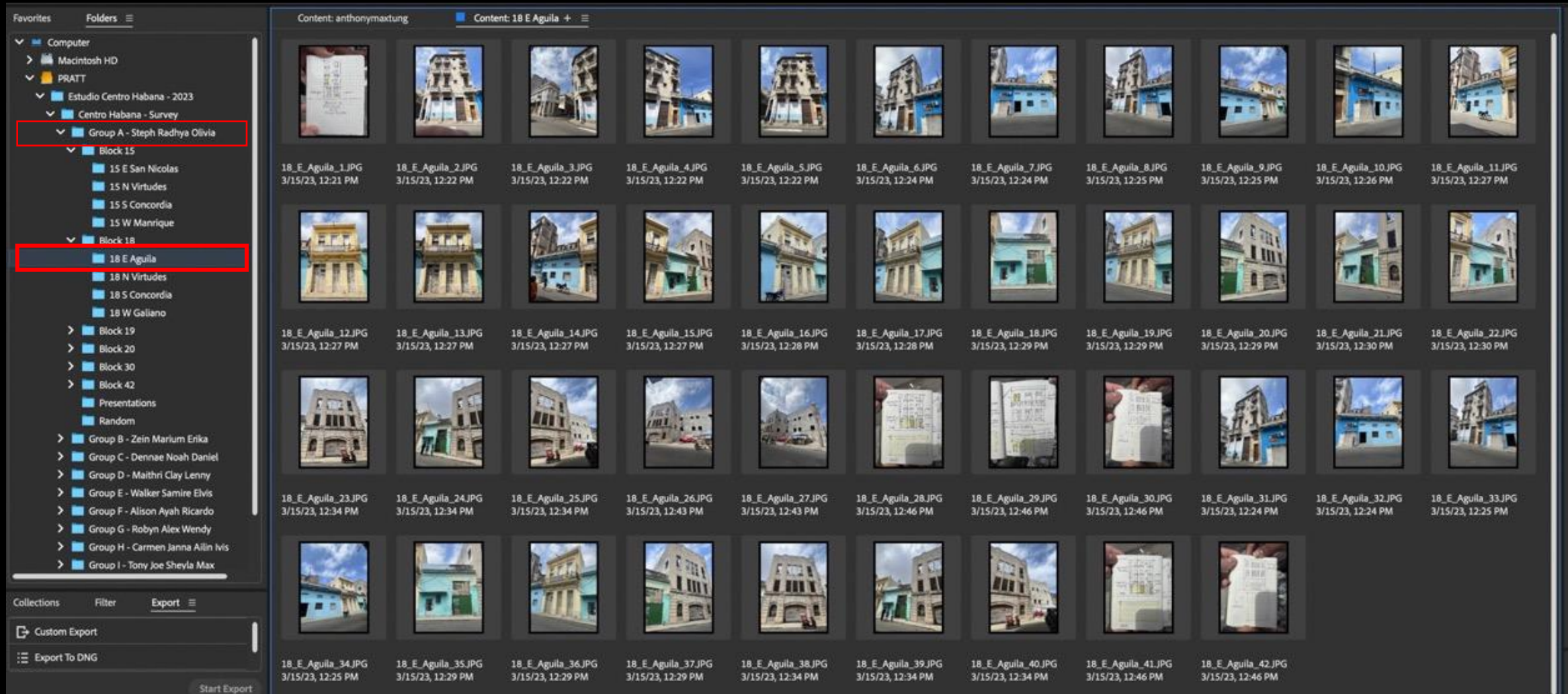
Cada equipo estaba compuesto por dos estudiantes de Pratt y dos de CUJAE, quienes observaban y comentaban cada edificio, tomaban notas y descargaban fotos durante las tardes. Tres exalumnos de The New School trabajaron durante la noche organizando y sistematizando imágenes en un banco de 7000 imágenes antes de su llegada a Nueva York.

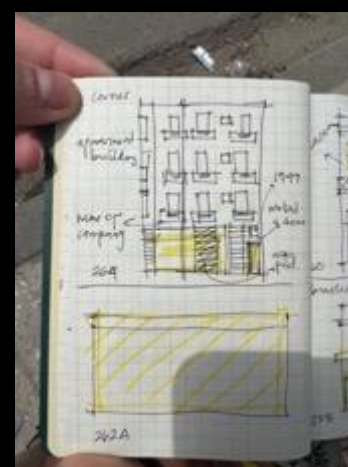
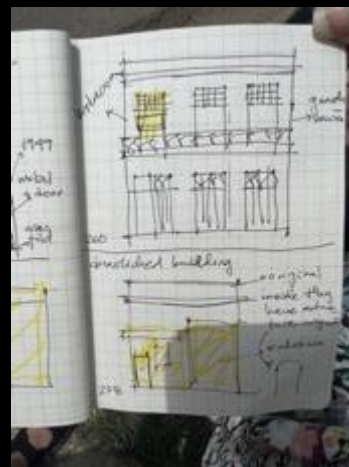
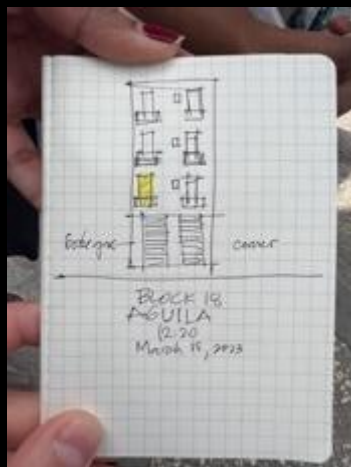
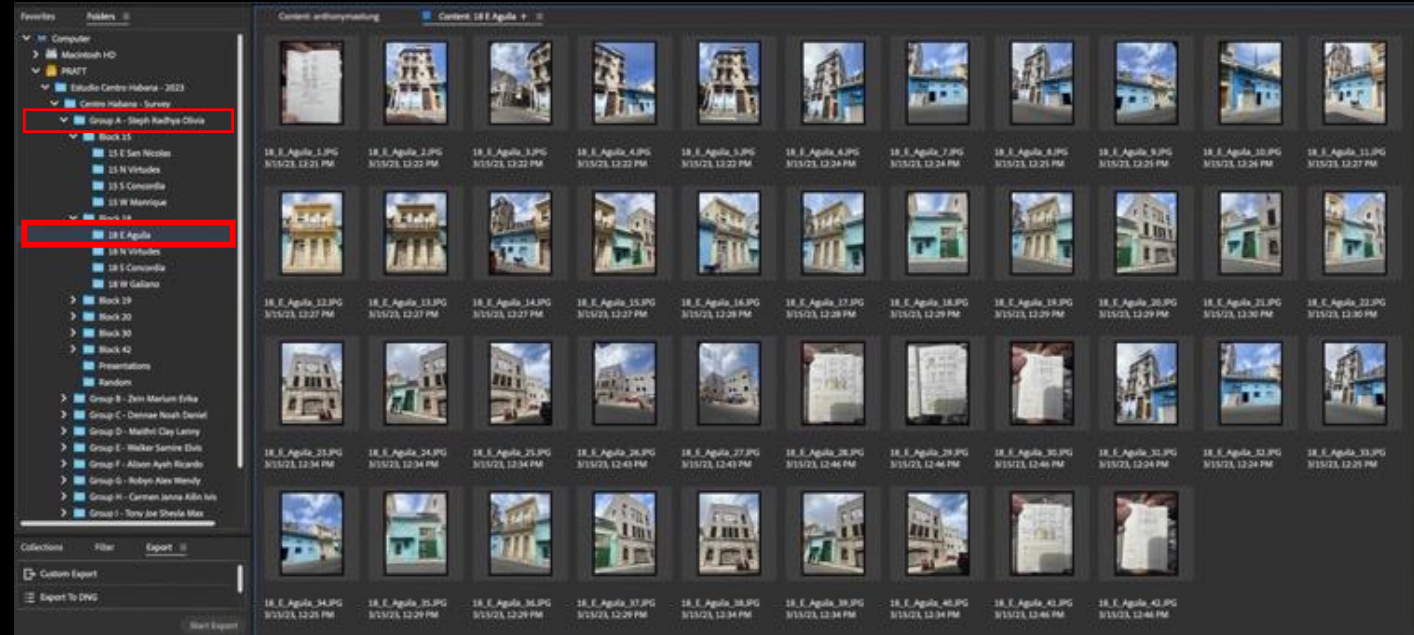


CENTRO HABANA
SURVEY FIELD MAP OF 59
BLOCKS AND 1000
BUILDING LOTS
MAPA DE ZONA DE
ESTUDIO DE CENTRO
HABANA, CON 59
MANZANAS Y 1000
EDIFICIOS

DETAIL OF 1000 BUILDING PHOTOBANK OF 7000 IMAGES

DETALLE DE BANCO DE FOTOS DE 7000 IMÁGENES DE 1000 EDIFICIOS





COLLABORATIVE FIELD NOTES
NOTAS DE CAMPO COLABORATIVAS

GIS:

MAP AND SPREAD SHEET

MAPA Y BASE DE DATOS

A Post Semester team of 3 Pratt students, and 2 New School students generated an Excel spreadsheet and linked it to a GIS map with follow-up photos and research in Havana by 3 CUJAE students.

Una vez finalizado el semestre, un equipo compuesto por 3 estudiantes de Pratt y 2 estudiantes de The New School generó base de datos en Excel y la vinculó a un mapa SIG con fotos de seguimiento e investigación en La Habana realizada por 3 estudiantes de CUJAE.

Anna Feldman

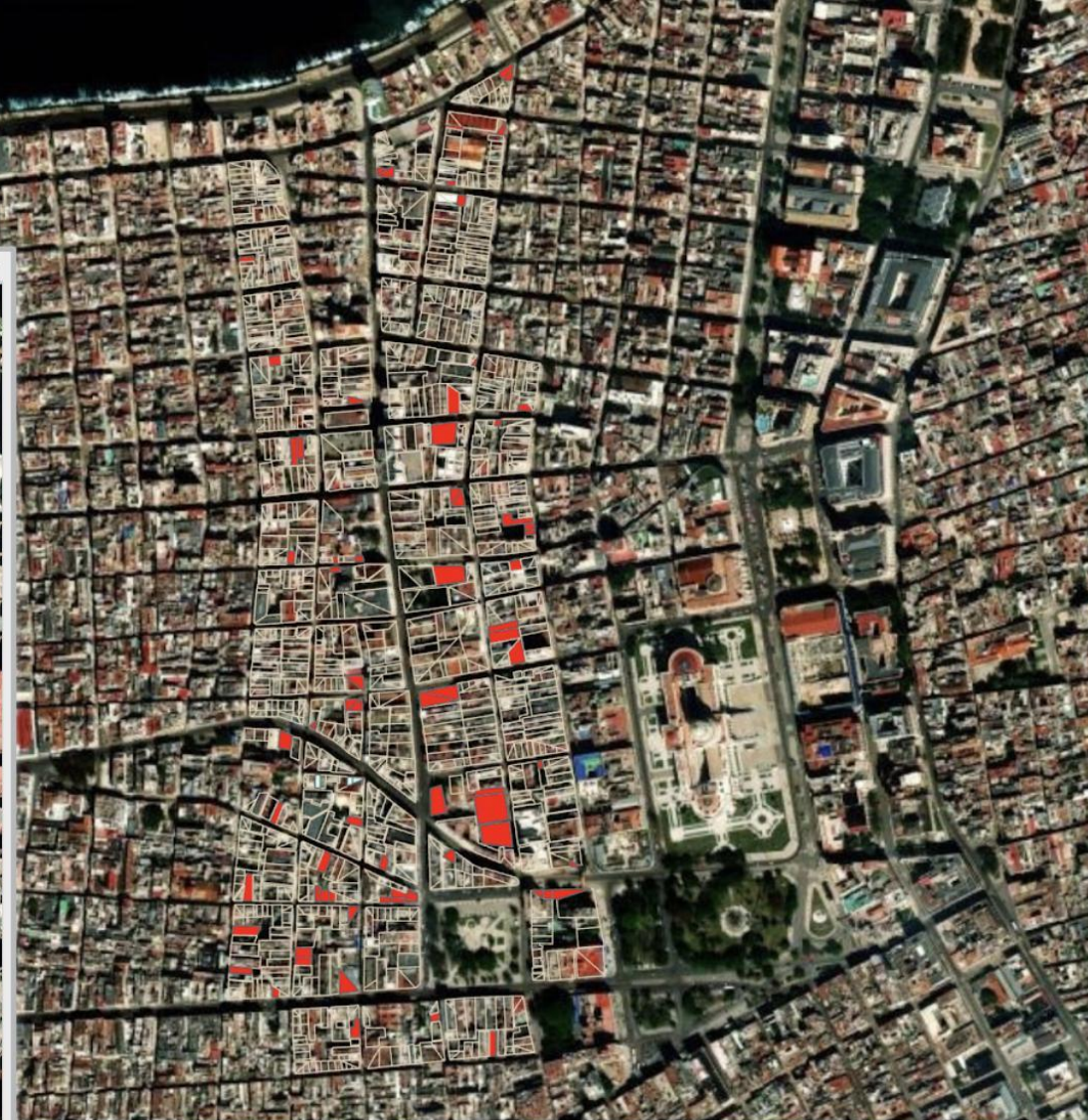
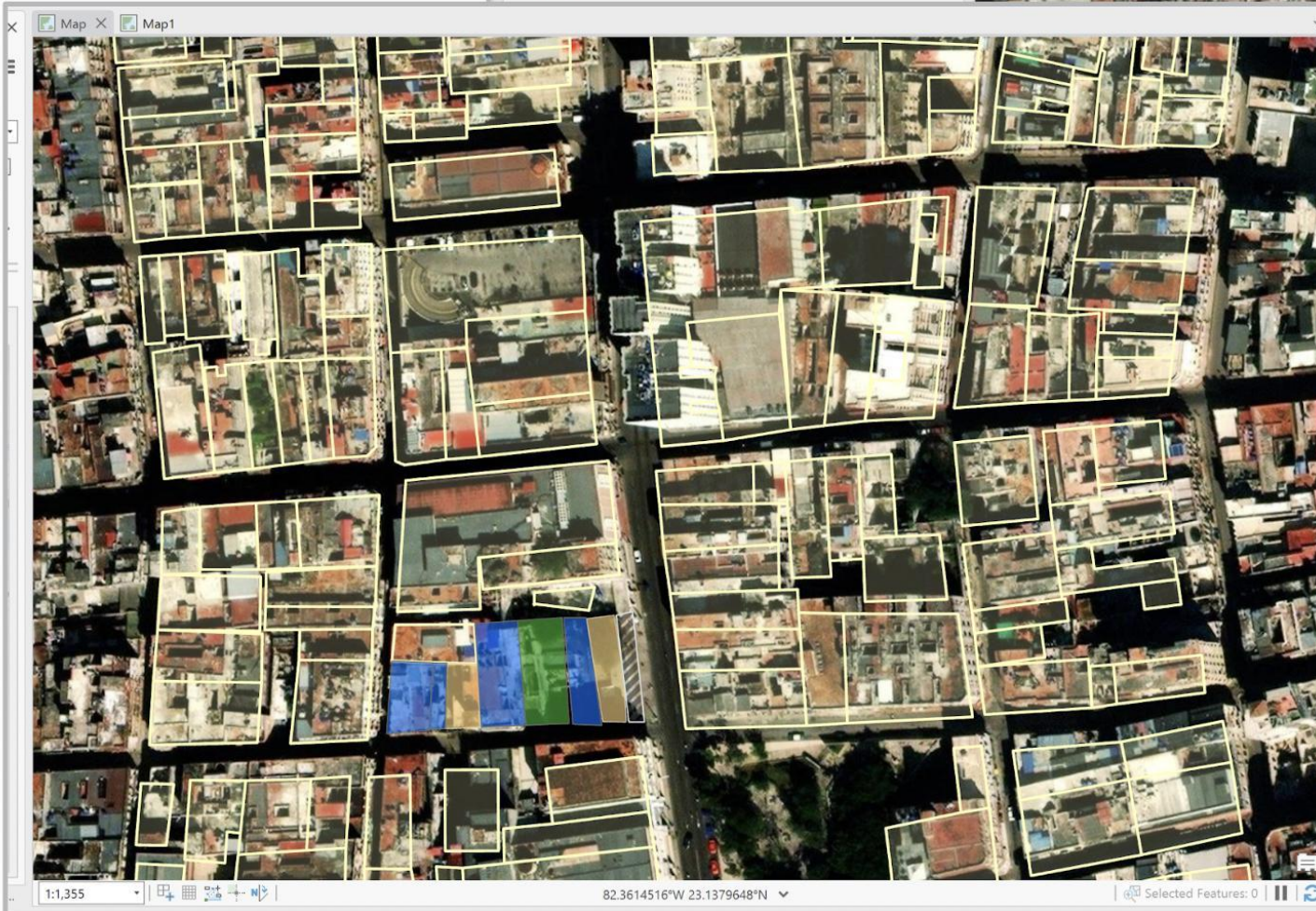
M.S. Data Analytics & Visualization '24,
Spatial Analysis Grad. Certificate

7-step process;
Iteration/refinement;
Final unique spatial dataset
packaged for partners &
other researchers



Drawing Order

- ☐ Map
 - ☒ CentroHabanaSurveyLots from OSM
- Totally Collapsed Buildings
- ☐ No Data
 - ☒ Collapsed



82.3487782°W 23.1251812°N

TestJoin081723.csv.csv

Field: Add Calculate Selection: Select By Attributes Zoom To Switch Clear Delete Copy									
	FID	Object ID	Block Number	Street Name	Building Number	Status	Object_ID	Block_Num	Street
1	35	B6CN1	1	Colon	1		B6CN1	6	Colon
2	36	B6BLW4	6	Blanco	4		B6BLW4	6	Blanco
3	37	B18AGU5	18	Aguila	5		B18AGU5	18	Aguila

Pop-up

Partial Historic Masonry selection (1)

TRASVAL Galiano

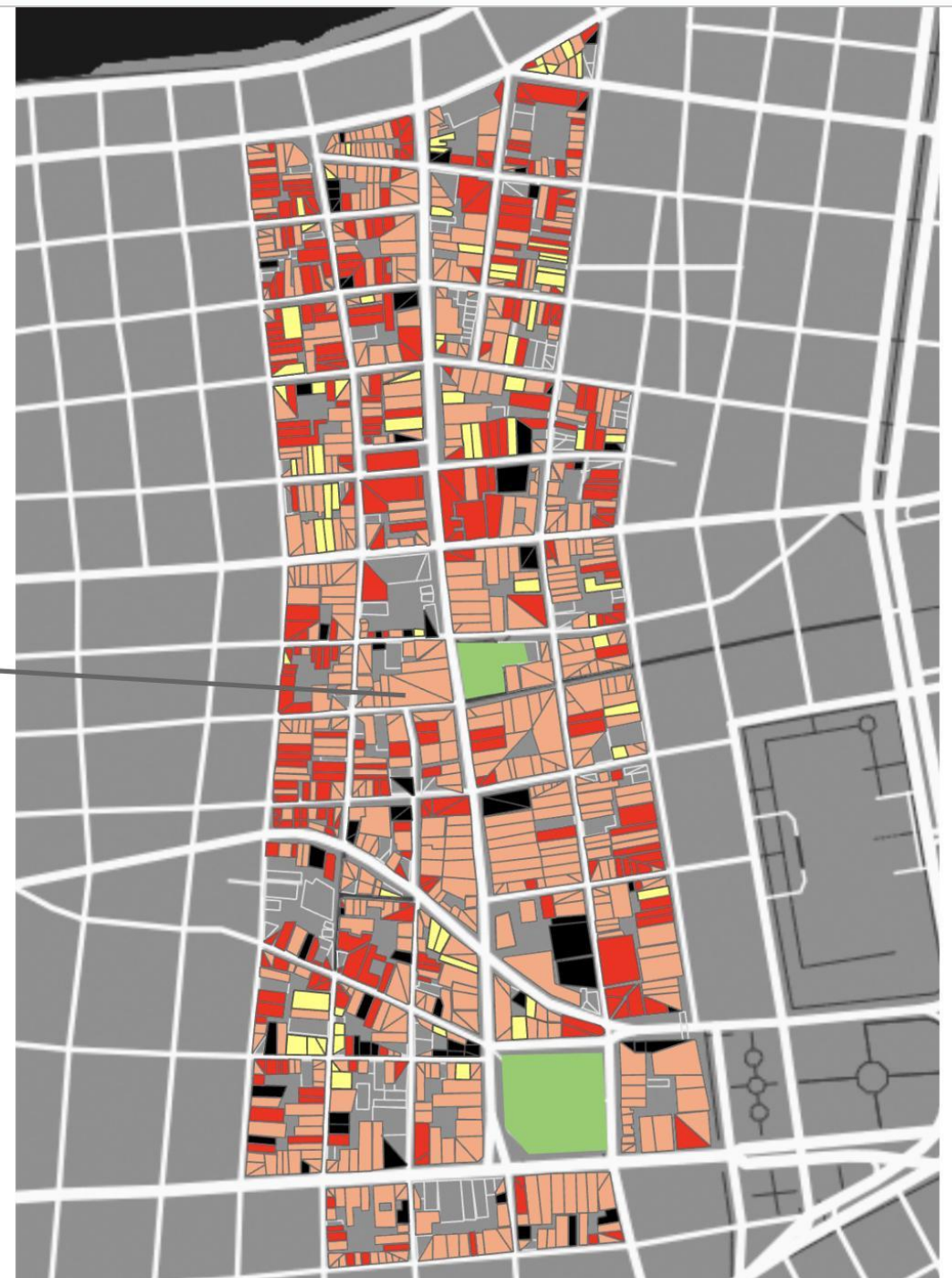
Partial Historic Masonry selection - TRASVAL G...

FID	28585
Object ID	B29SR5
Block Number	29
Street Name	San Rafael
Building Number	5
Status	
Object_ID	B29SR5
Block_Num	29
Street	San Rafael
Building_Num	5
Stories_Num	4
Total_Collapse	No
Partial_Collapse	No
Res_SelfHelp	No
Historic_ExceptFenestration	No
Historic_ExceptFloors	Yes
Architect_Style	Historic Masonry
NonRes_SelfHelp	No
Largely_Intact_Historic	No
LessPresence_Historic	No
Review_CUJAE	FALSE
Questionable_NoCat	FALSE
Notes	<Null>

1 of 1

82.3637315°W 23.1365856°N

(current)
final product



A CHALLENGING SURVEY PROBLEM
UN PROBLEMA DESAFIANTE PARA EL
REGISTRO FOTOGRÁFICO

SELF-BUILT CONSTRUCTION ERODES AND OFTEN CLASHES WITH HISTORIC FACADES

LAS EDIFICACIONES AUTOCONSTRUIDAS SE EROSIONAN Y A MENUDO
CHOCAN CON LAS FACHADAS HISTÓRICAS



RADHYA KAREEM'S METHODOLOGY FOR SURVEYING SELF-BUILT CONSTRUCTIONS IN PATRIMONY BUILDINGS

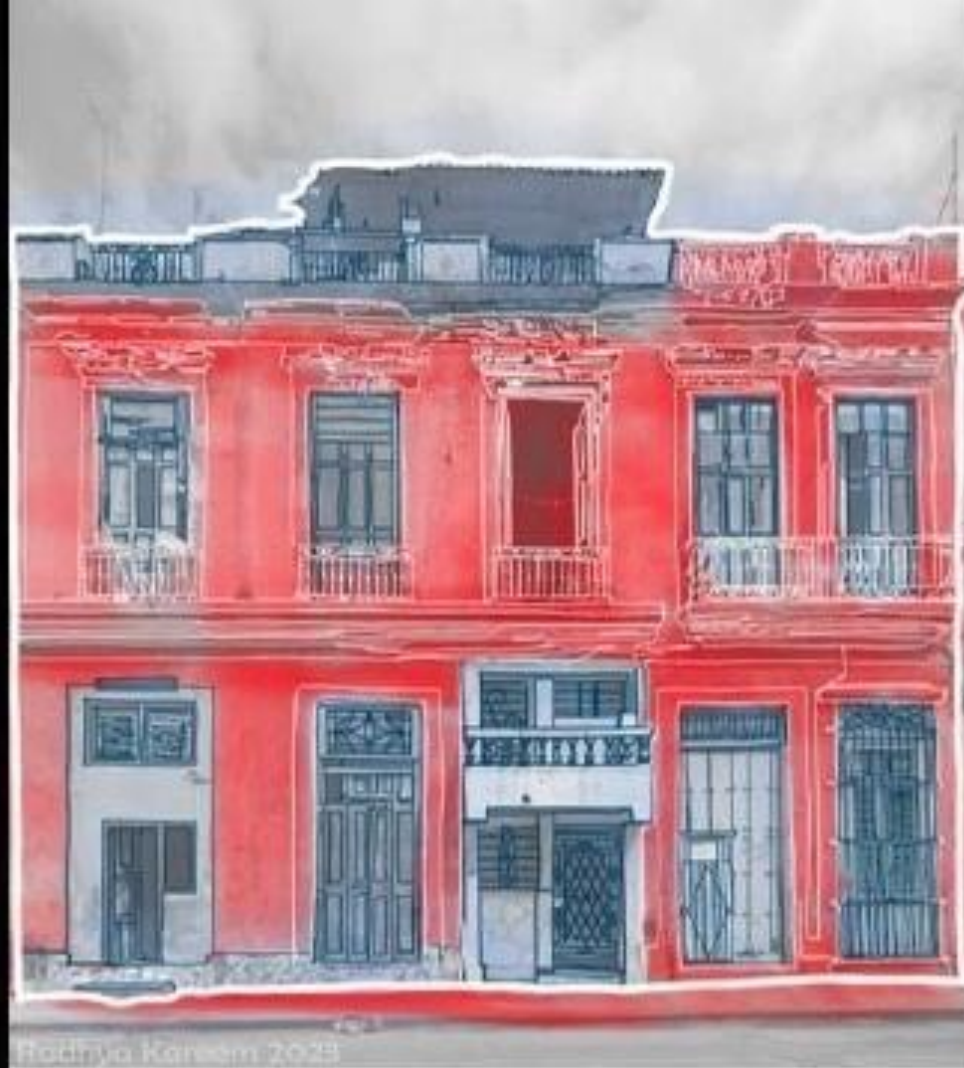
**METODOLOGÍA DE RADHYA KAREEM PARA EL
ESTUDIO DE AUTOCONSTRUCCIÓN EN
EDIFICIOS PATRIMONIALES**

HOW MUCH SIGNIFICANT HISTORIC CHARACTER SURVIVES?

¿CUÁNTO DEL CARÁCTER HISTÓRICO SOBREVIVE?



SELF-BUILT VERSUS INTACT HISTORIC AUTOCONSTRUCCIÓN VERSUS HISTÓRICA INTACTA



HOW MUCH SIGNIFICANT HISTORIC CHARACTER SURVIVES?

¿CUÁNTO DEL CARÁCTER HISTÓRICO SOBREVIVE?



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HOW MUCH SIGNIFICANT HISTORIC CHARACTER SURVIVES? ¿CUÁNTO DEL CARÁCTER HISTÓRICO SOBREVIVE?



SELF-BUILT VERSUS INTACT HISTORIC AUTOCONSTRUCCIÓN VERSUS HISTÓRICA INTACTA



**CATEGORIES THAT REFLECT
HERITAGE CONDITIONS IN THE
CENTRO HABANA SURVEY ZONE**
**CATEGORÍAS QUE REFLEJAN LAS
CONDICIONES PATRIMONIALES EN
LA ZONA DE ESTUDIO DE CENTRO
HABANA**

Radhya Kareem's methodology for surveying self-built constructions in patrimony buildings caused the post-semester survey team to carefully scrutinize Partial Historic Masonry and Partly Collapsed structures. During the summer, informed by local knowledge, two architecture students from CUJAE re-examined the survey zone for Partly Collapsed buildings.

La metodología de Radhya Kareem para la inspección de trabajos de autoconstrucción en edificios patrimoniales impulsó al equipo de inspección que trabajó una vez finalizado el semestre a examinar minuciosamente las estructuras parcialmente derrumbadas y con mampostería histórica parcial. Durante el verano, y contando con información provista por locales y residentes, dos estudiantes de arquitectura de la CUJAE reexaminaron la zona para detectar edificios parcialmente derrumbados.

PERCENTAGE OF BUILDINGS BY CATEGORY

PORCENTAJE DE EDIFICIOS POR CATEGORÍAS

