



COMMON HEAT. COMMON RESILIENCE.

A4 Presentation

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AR4DC100

Architectural Design Crossovers Graduation Studio (2025/26 Q2)

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CHICAGO HEAT WAVE '95



A group of kids uses a fire hydrant to cool down in the heat and humidity of Chicago on July 14, 1995. Temperatures neared 100 degrees for the second straight day. <https://www.wbez.org/reset-with-sasha-ann-simons/2025/07/10/a-first-responder-resident-and-journalist-remember-the-1995-heat-wave>



A body being loaded in to an emergency refrigerated trailer outside the Cook County Medical Examiner's office. From Patrick Murfin (2020), <https://patrickmurfin.blogspot.com/2020/07/1995-chicago-heat-wave-victims-of-racism.html>

HIGH MORTALITY: LOW INCOME NEIGHBOURHOODS



Chicago Heat Death Map. Reprinted from "Slow-Motion Disaster and Extreme Weather: Five Questions for Judith Helfand" (Edge Effects, 2021)

HIGH MORTALITY:
LONELY NEIGHBOURHOODS



"Bombed Out": an empty lot in the residential area in North Lawndale. From Palaces for the People: How Social Infrastructure Can Help Fight Inequality, Polarization, and the Decline of Civic Life, by E. Klinenberg, 2018, Crown

HEAT VULNERABILITY

physical



able to cool off



unable to cool off

social

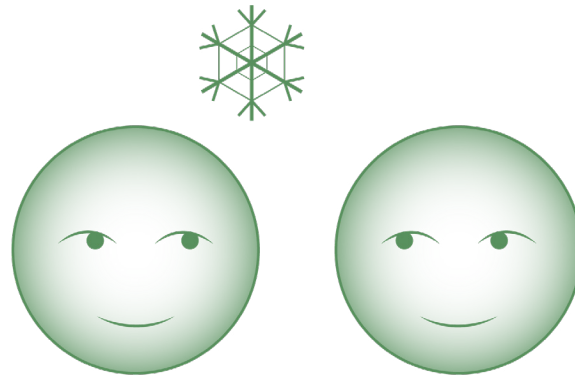


interaction



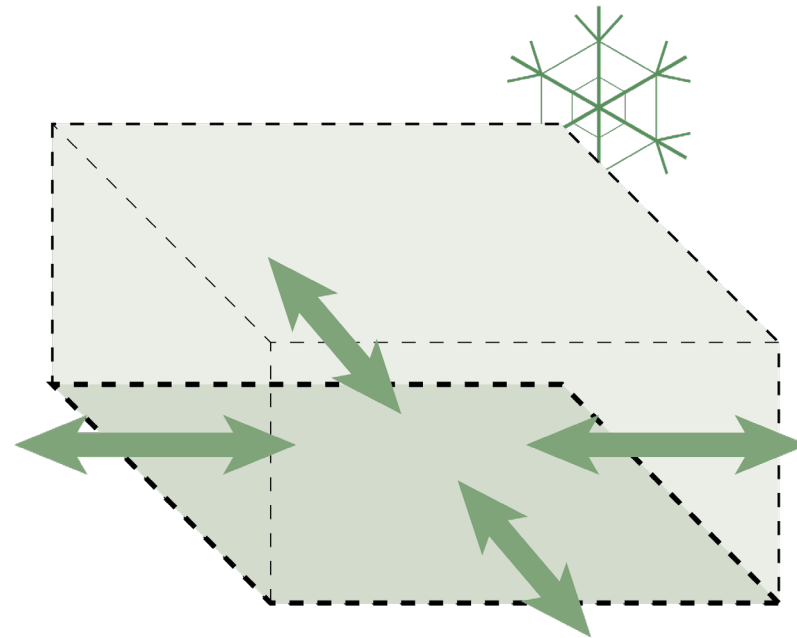
no interaction

HEAT RESILIENCE



'thermal commoning'

THERMAL COMMONING



THERMAL COMMONING



A family relaxes in the yard on a hot day. From Palaces for the People: How Social Infrastructure Can Help Fight Inequality, Polarization, and the Decline of Civic Life, by E. Klinenberg, 2018, Crown



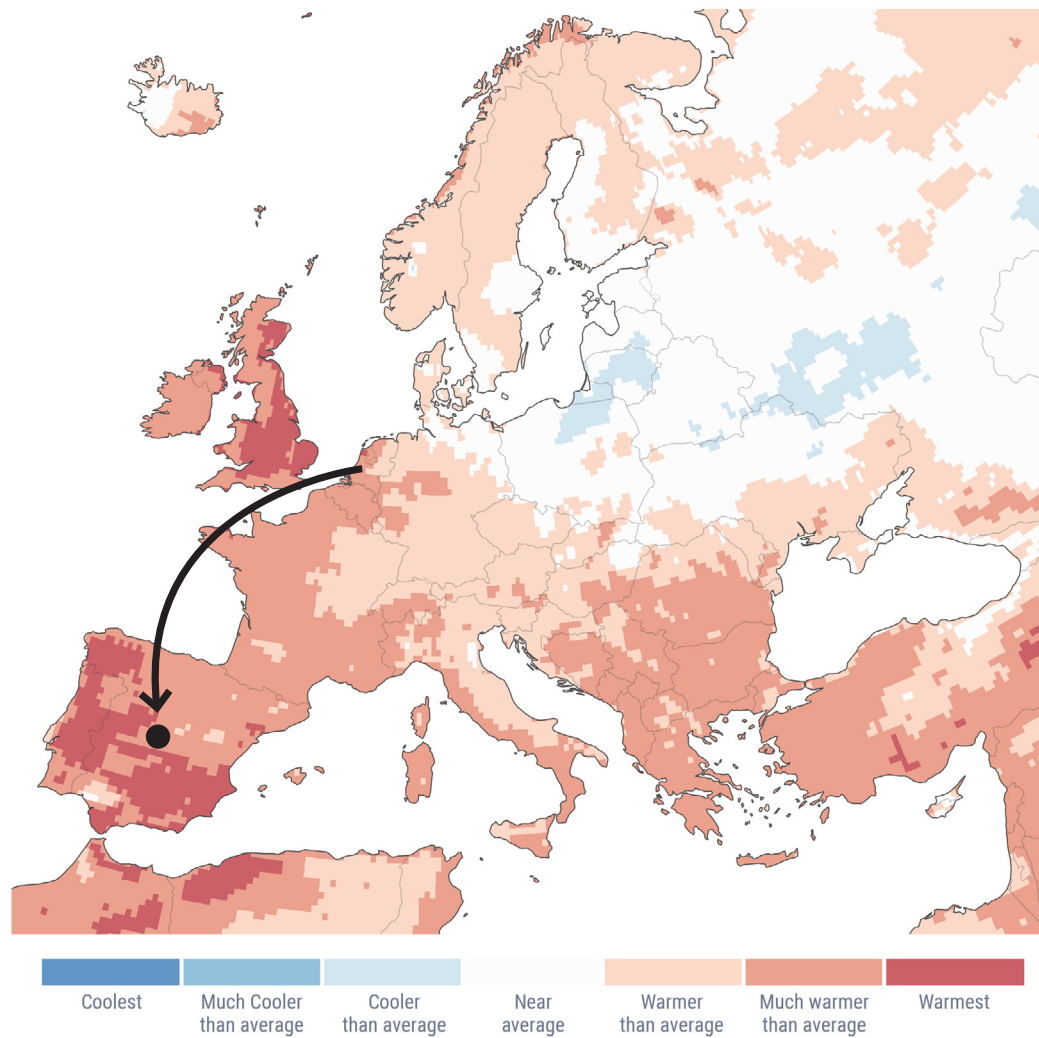
Sleeping outdoors during the heat wave, 1964. From Palaces for the People: How Social Infrastructure Can Help Fight Inequality, Polarization, and the Decline of Civic Life, by E. Klinenberg, 2018, Crown

RESEARCH QUESTION

How can an architectural intervention promote thermal commoning in a neighbourhood experiencing heat vulnerability?

Anomalies and extremes in surface air temperature in summer 2025

Data: ERA5 (1979–2025) • Reference period: 1991–2020 • Credit: C3S/ECMWF



PROGRAMME OF
THE EUROPEAN UNION



IMPLEMENTED BY



<https://climate.copernicus.eu/european-summer-2025-hot-west-and-south-dry-southeast>

Spain feels the heat, with Madrid World Cup fan zone cancelled

By Trevor Stynes

June 20, 2026 5:34 PM GMT+2 · Updated June 20, 2026



Soccer Football - FIFA World Cup 2026 - Group H - Spain v Cape Verde - Fans gather in Madrid - Plaza de Colon, Madrid, Spain - June 15, 2026 Spain fans react as they watch the match REUTERS/Mohammed Salem [Purchase Licensing Rights](#) 
<https://www.reuters.com/sports/soccer/spain-feels-heat-with-madrid-world-cup-fan-zone-cancelled-2026-06-20/>

MADRID



When temperatures soar in Madrid, Spain, the Círculo de Bellas Artes cultural centre is turned into a climate shelter where people can rest in hammocks to escape the heat. "From Climate shelters aim to save lives during urban heatwaves" (Dialogue Earth, 2025).

MADRID

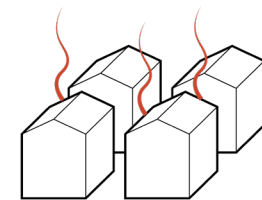
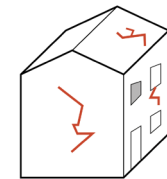
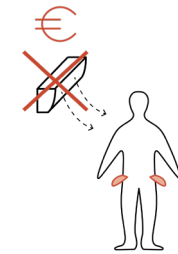


Three people take refuge in a mall in the San Blas neighborhood in the east of Madrid. From "The climate refugees in Madrid's shopping malls: 'They stay there all day because it's cool'" (El País, 2021).

PRADOLONGO



Google Earth (2026)



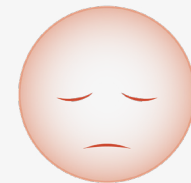
HEAT VULNERABILITY



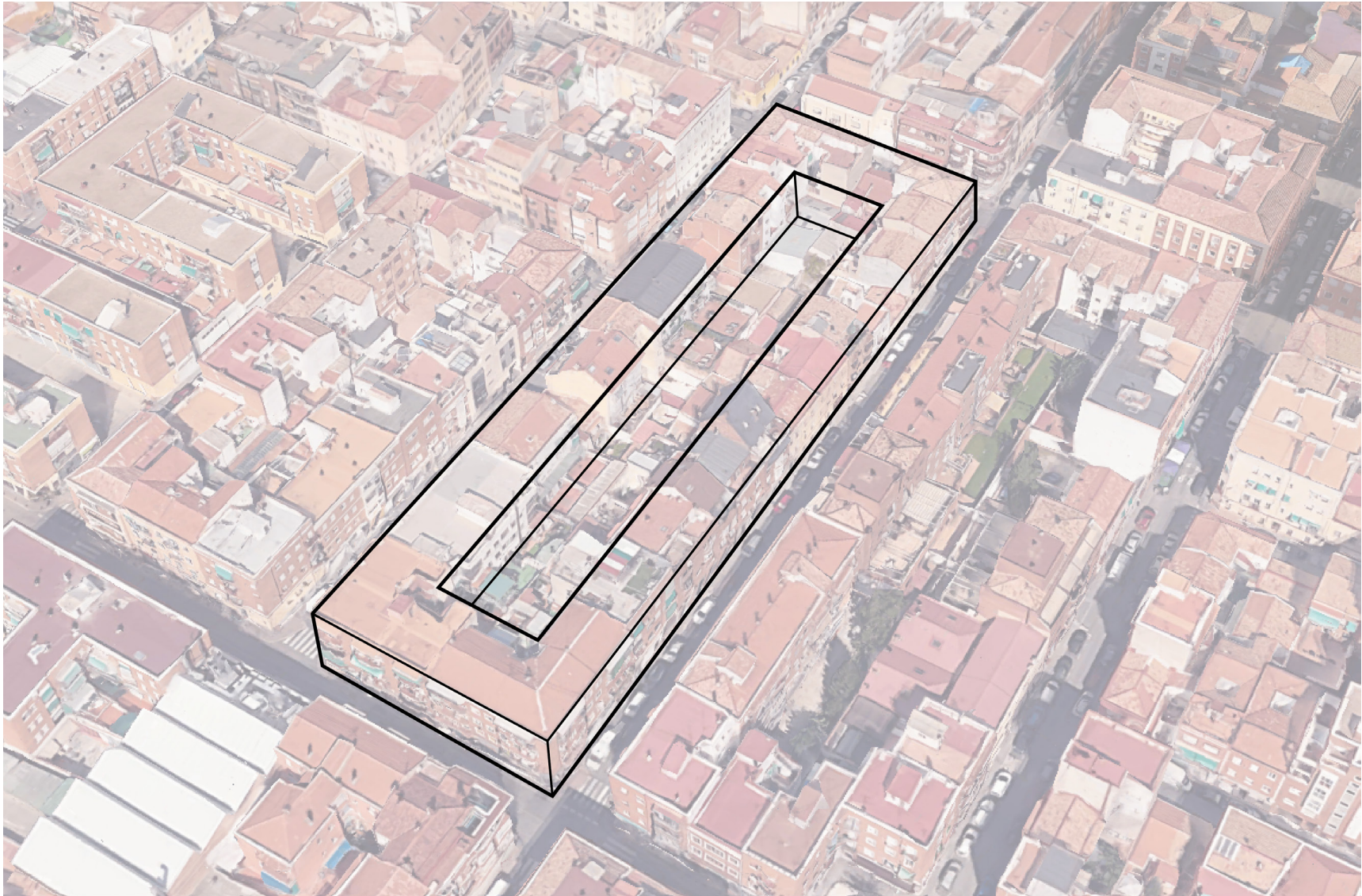
physical



social



DESIGN CONCEPT

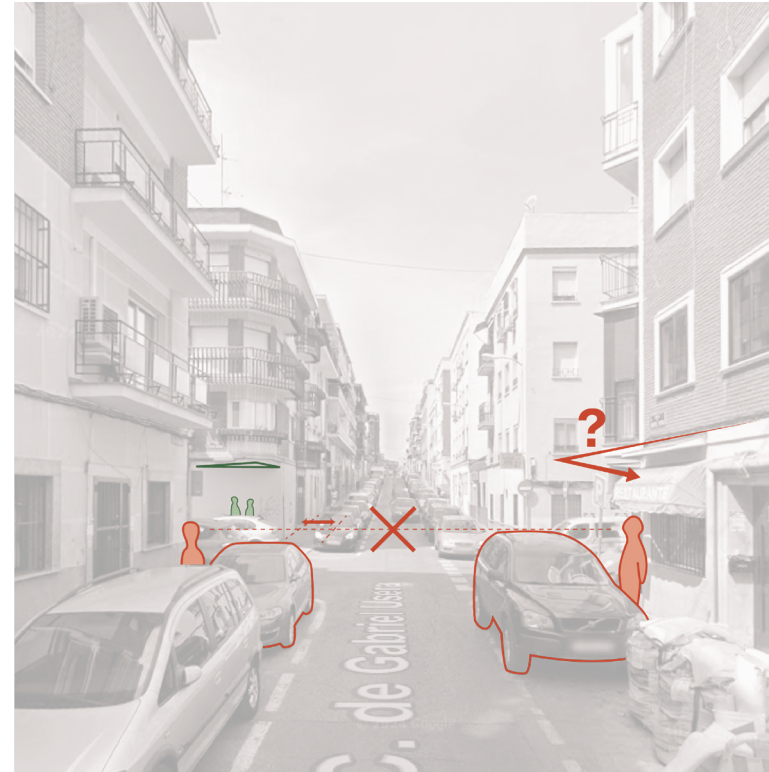


STREETS

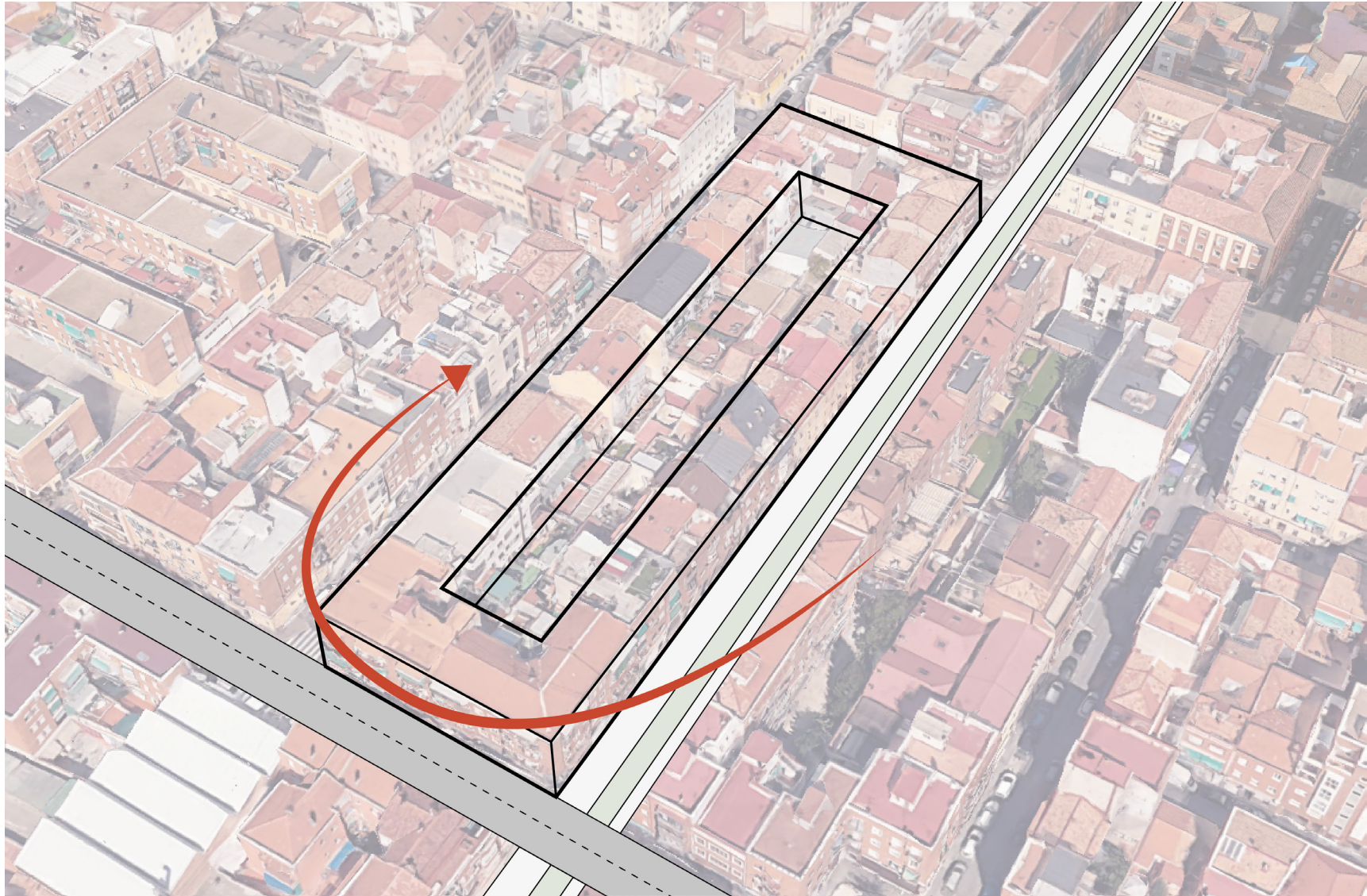
physical



social

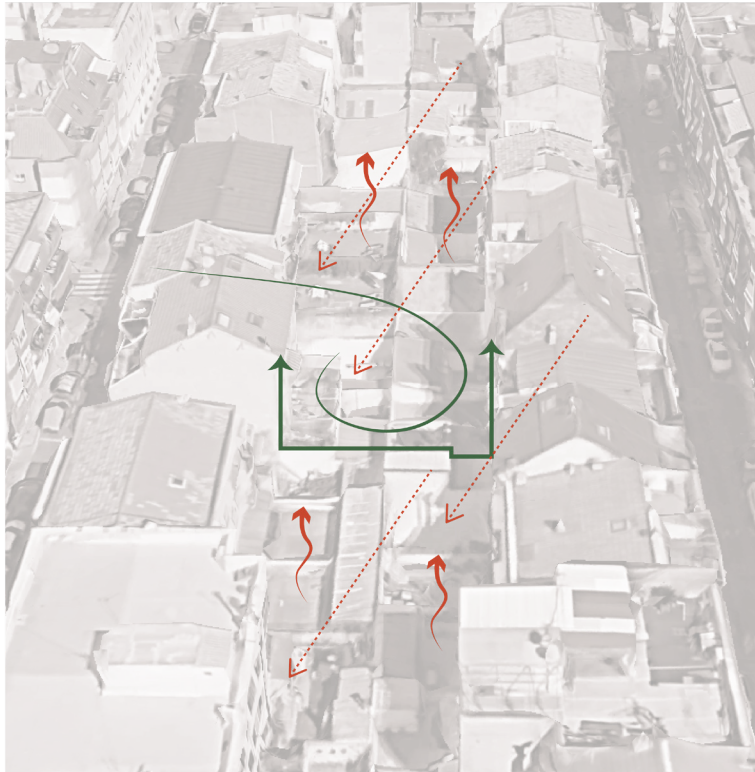


STREETS



PATIOS

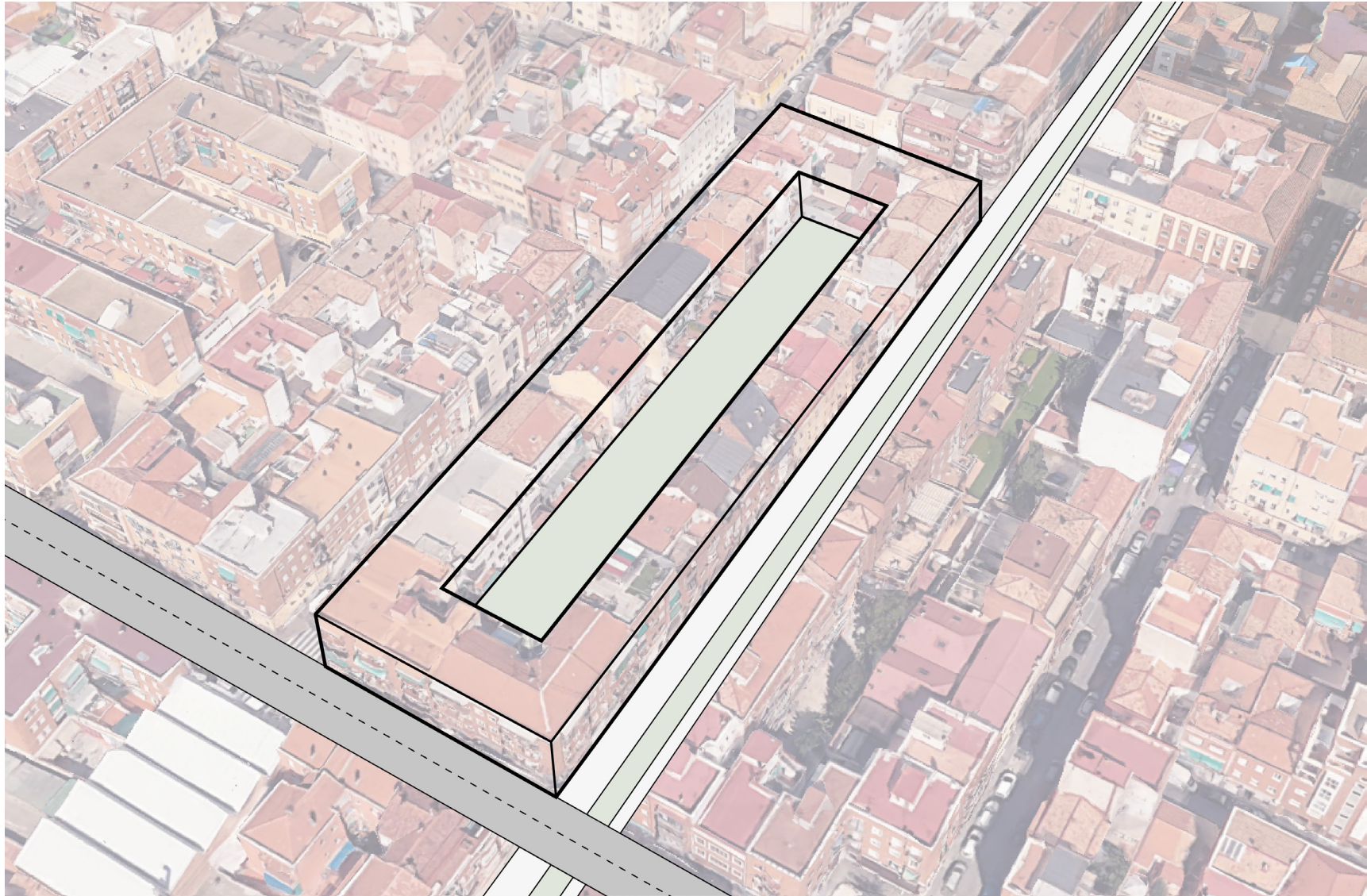
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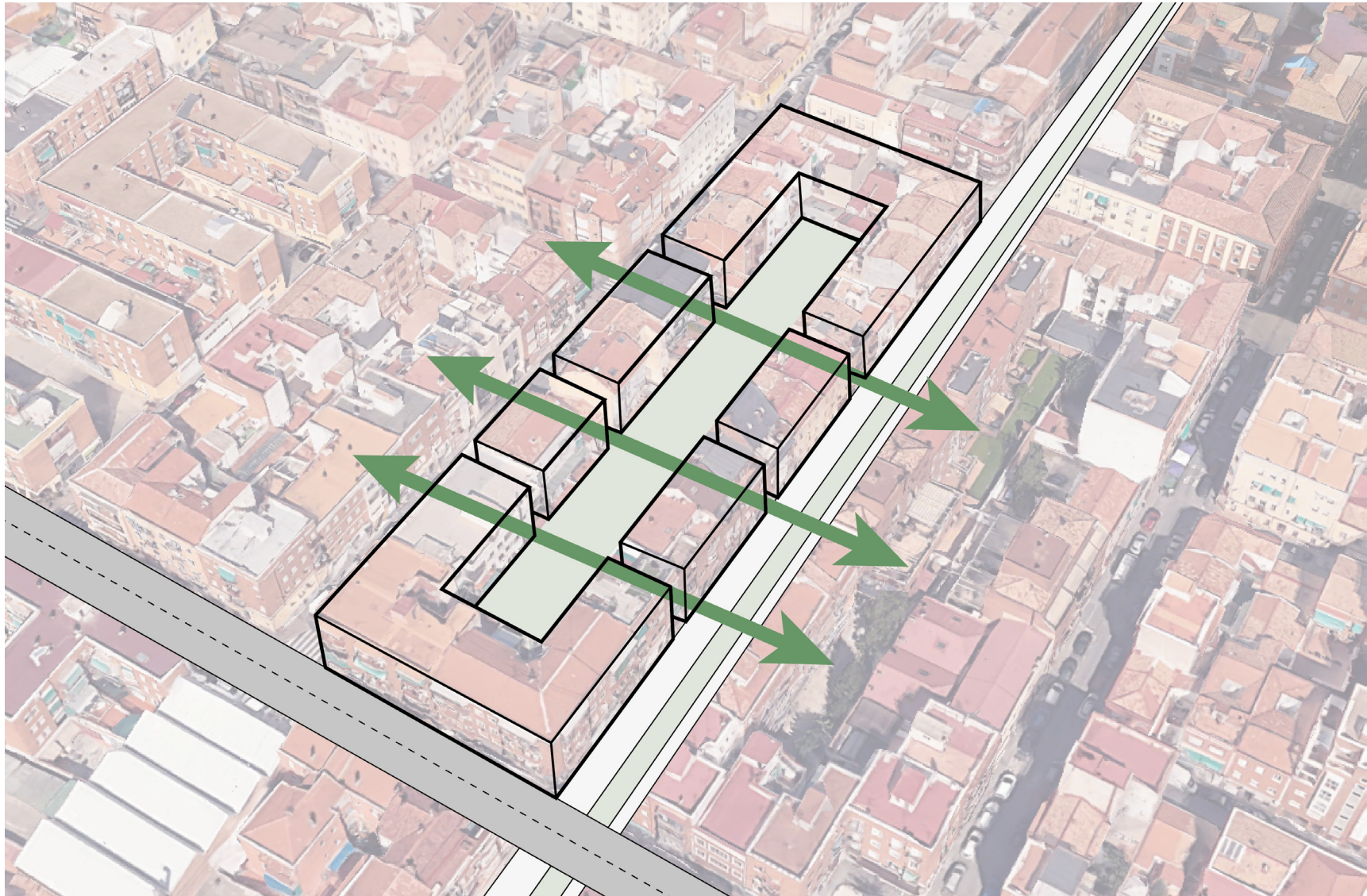
social



PATIOS



PATIOS

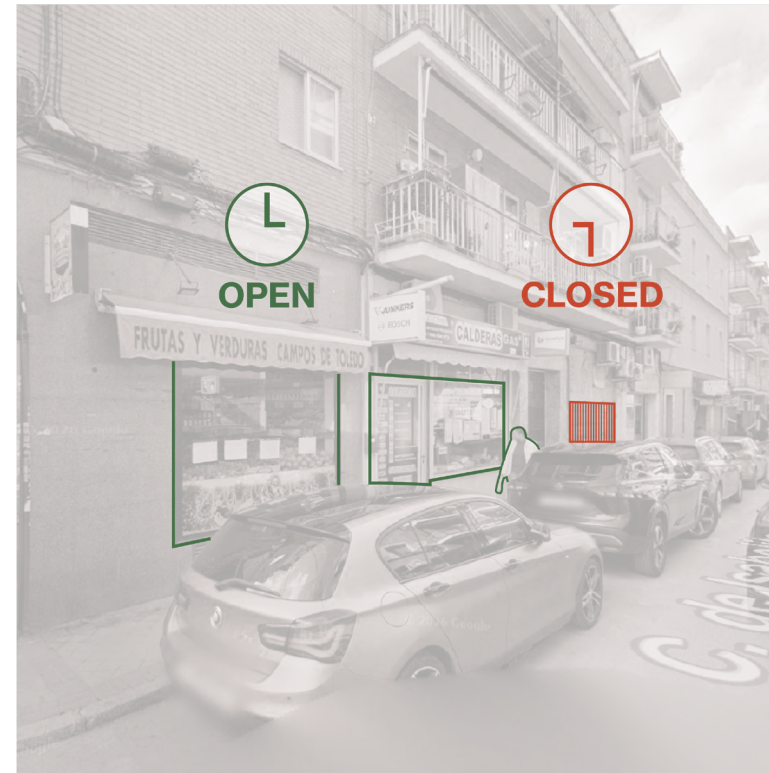


AMENITIES

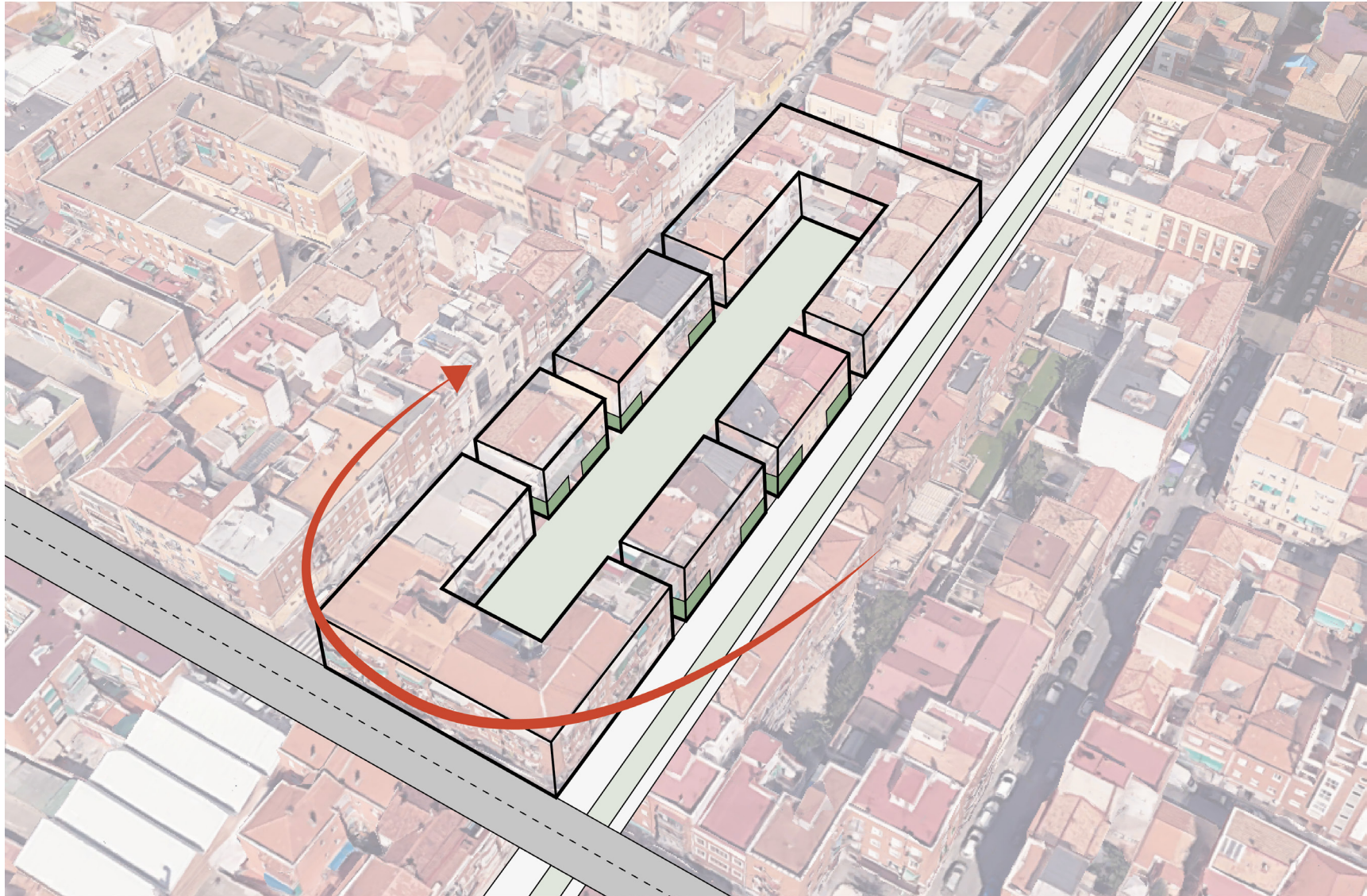
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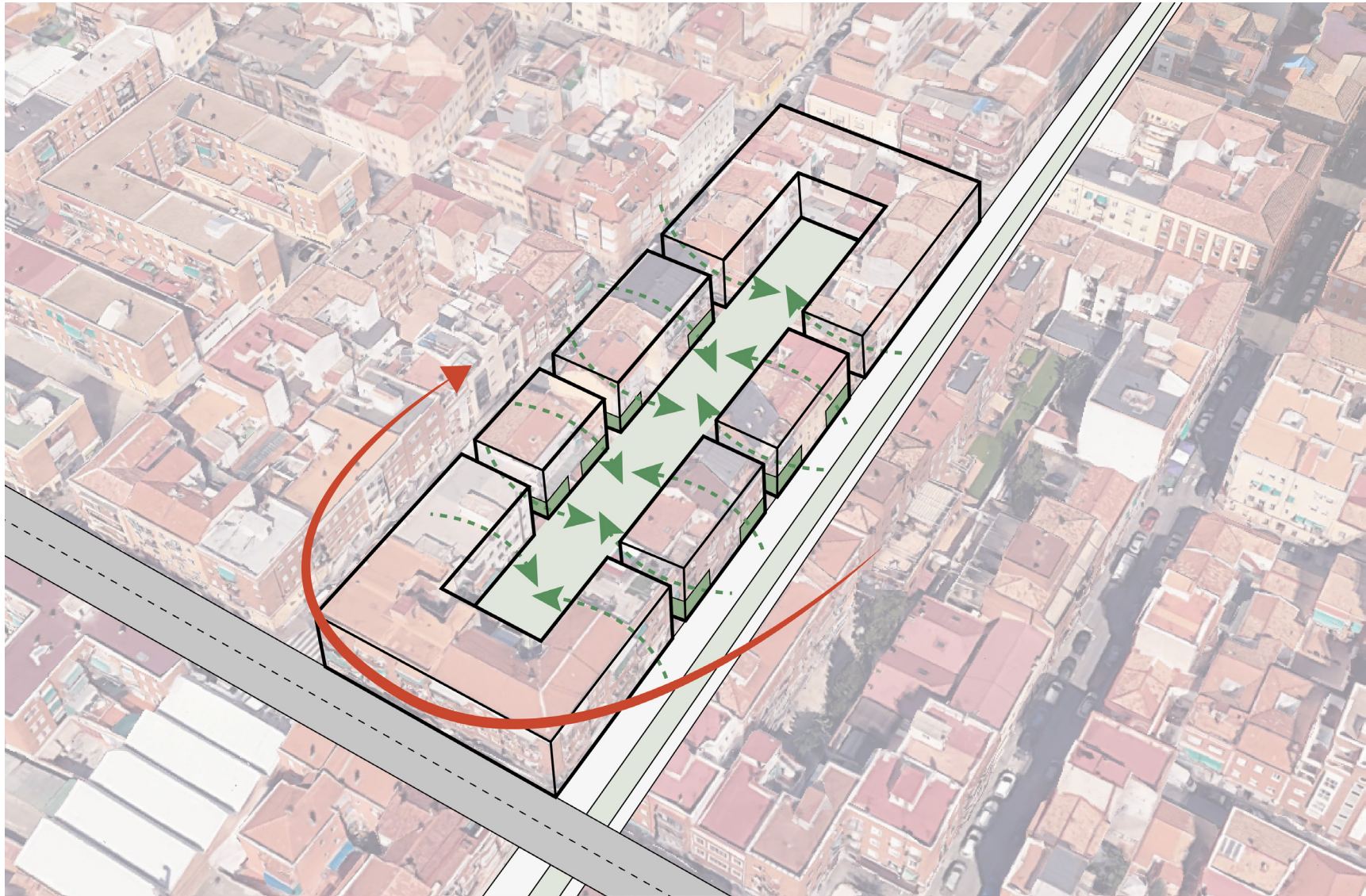
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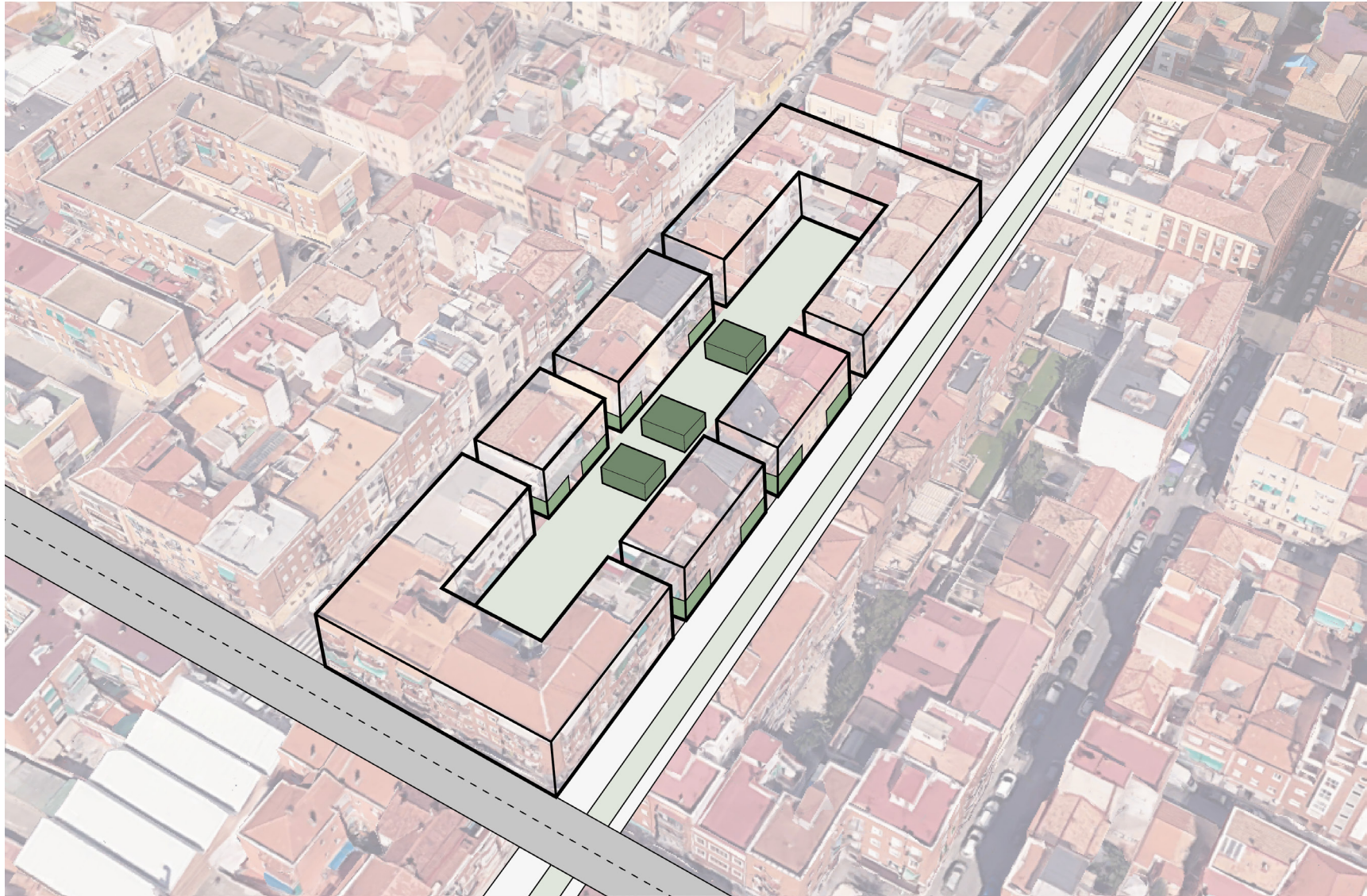
AMENITIES



AMENITIES



AMENITIES

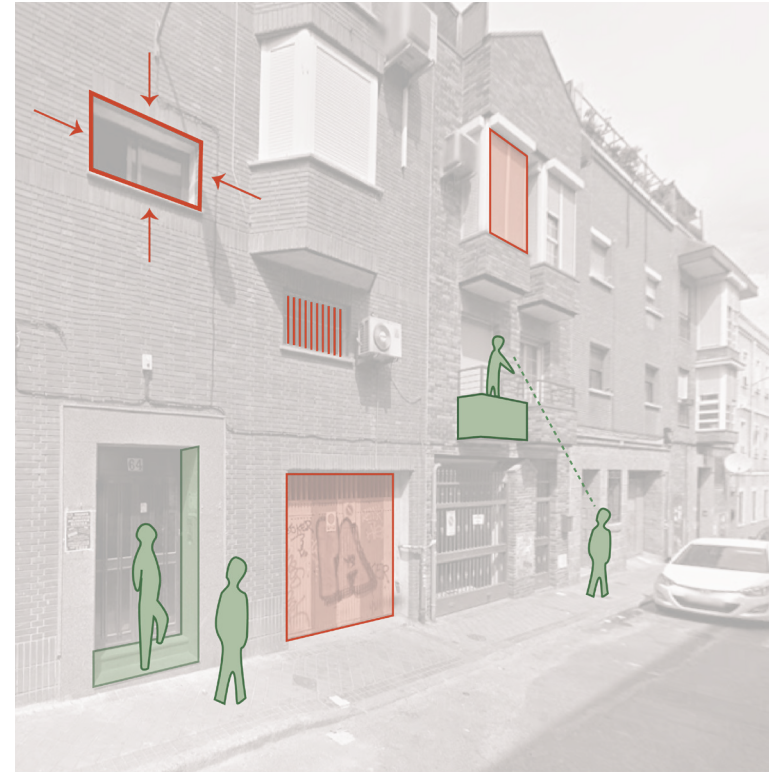


BUILDINGS

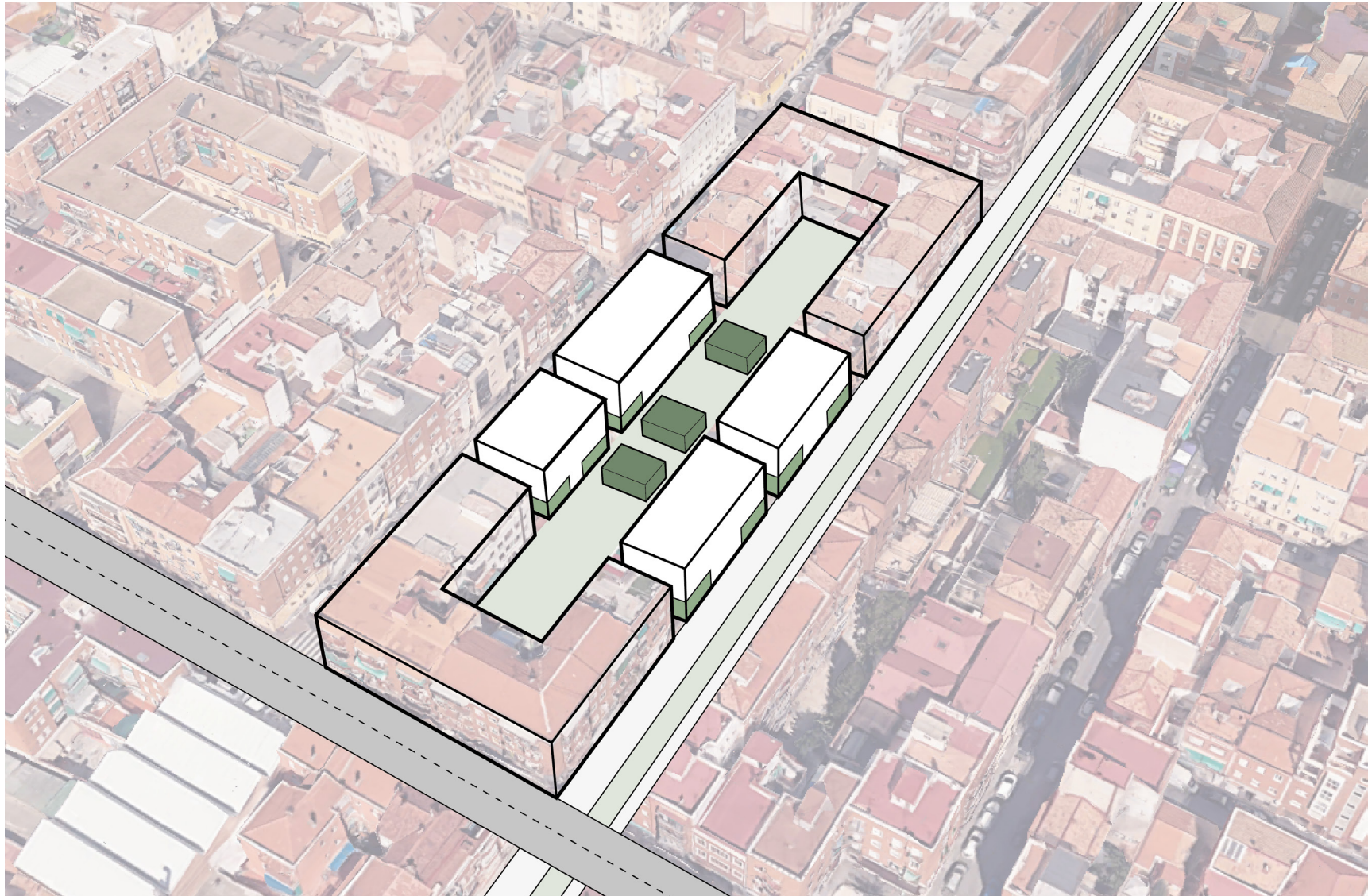
physical



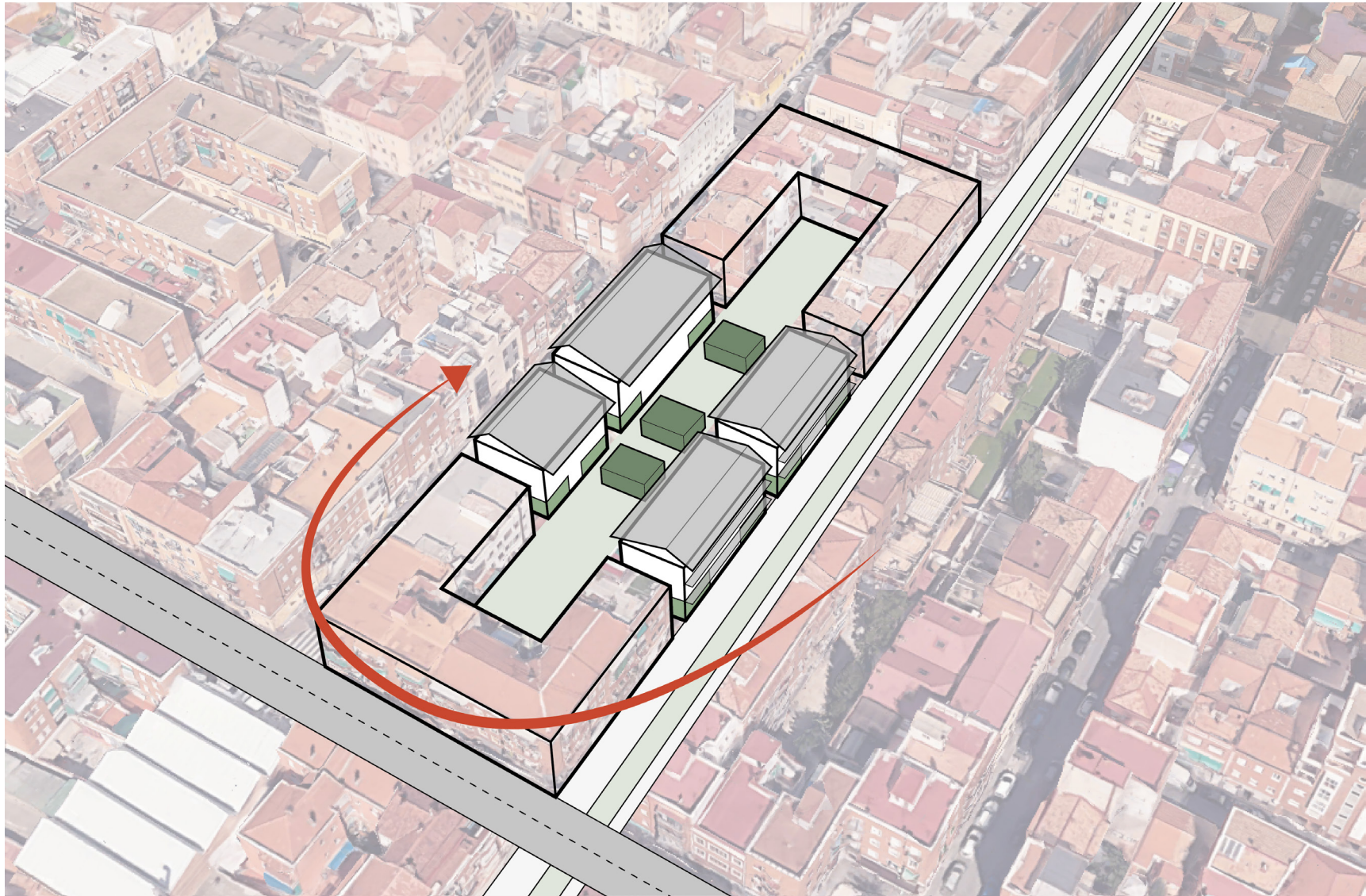
social



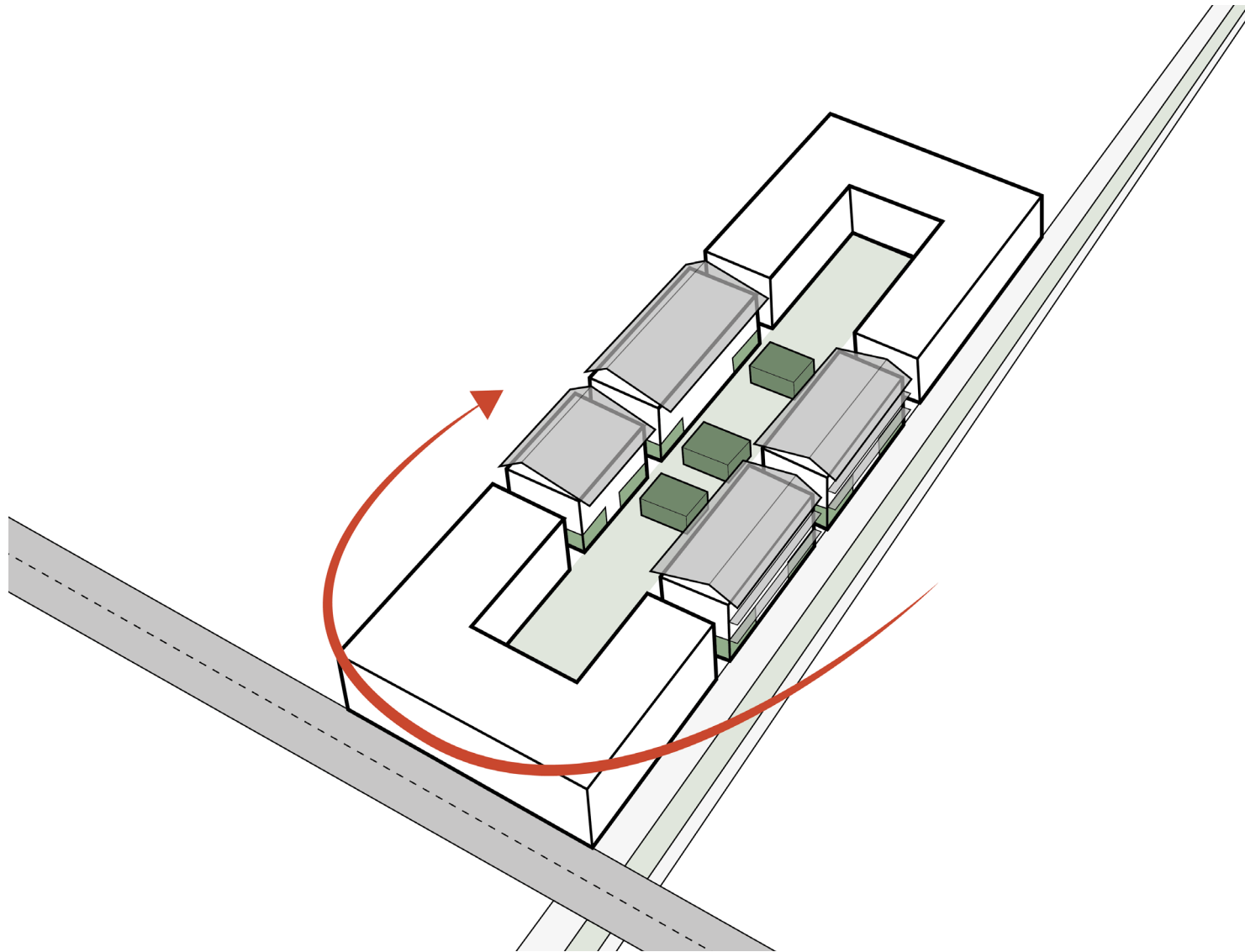
BUILDINGS



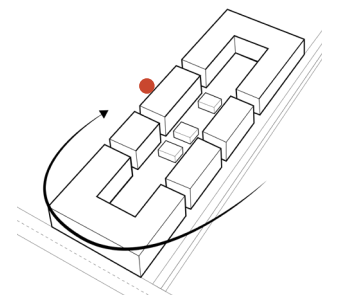
BUILDINGS



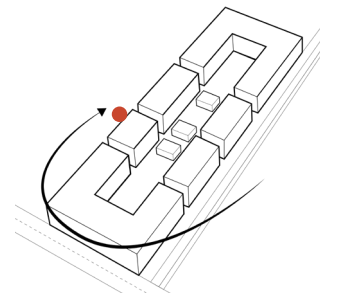
DESIGN CONCEPT



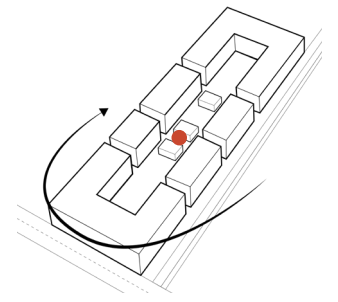
APPROACHING



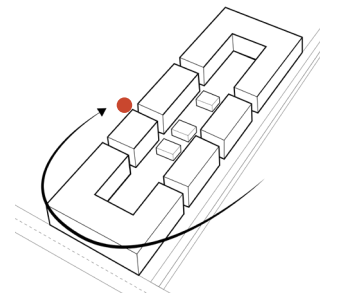
THE AMENITY WELCOMES



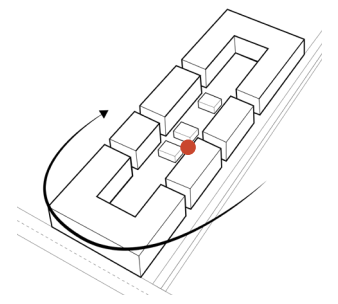
THE PUBLIC COURTYARD



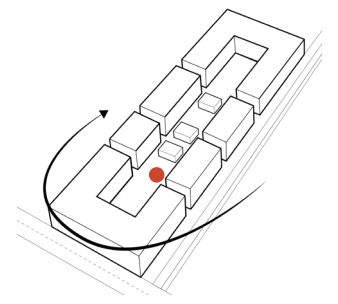
OPENNESS



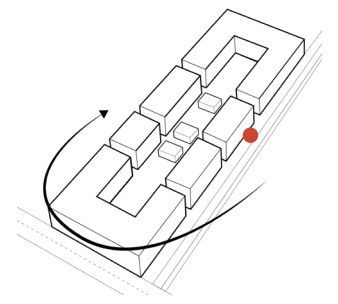
FROM PUBLIC TO PRIVATE



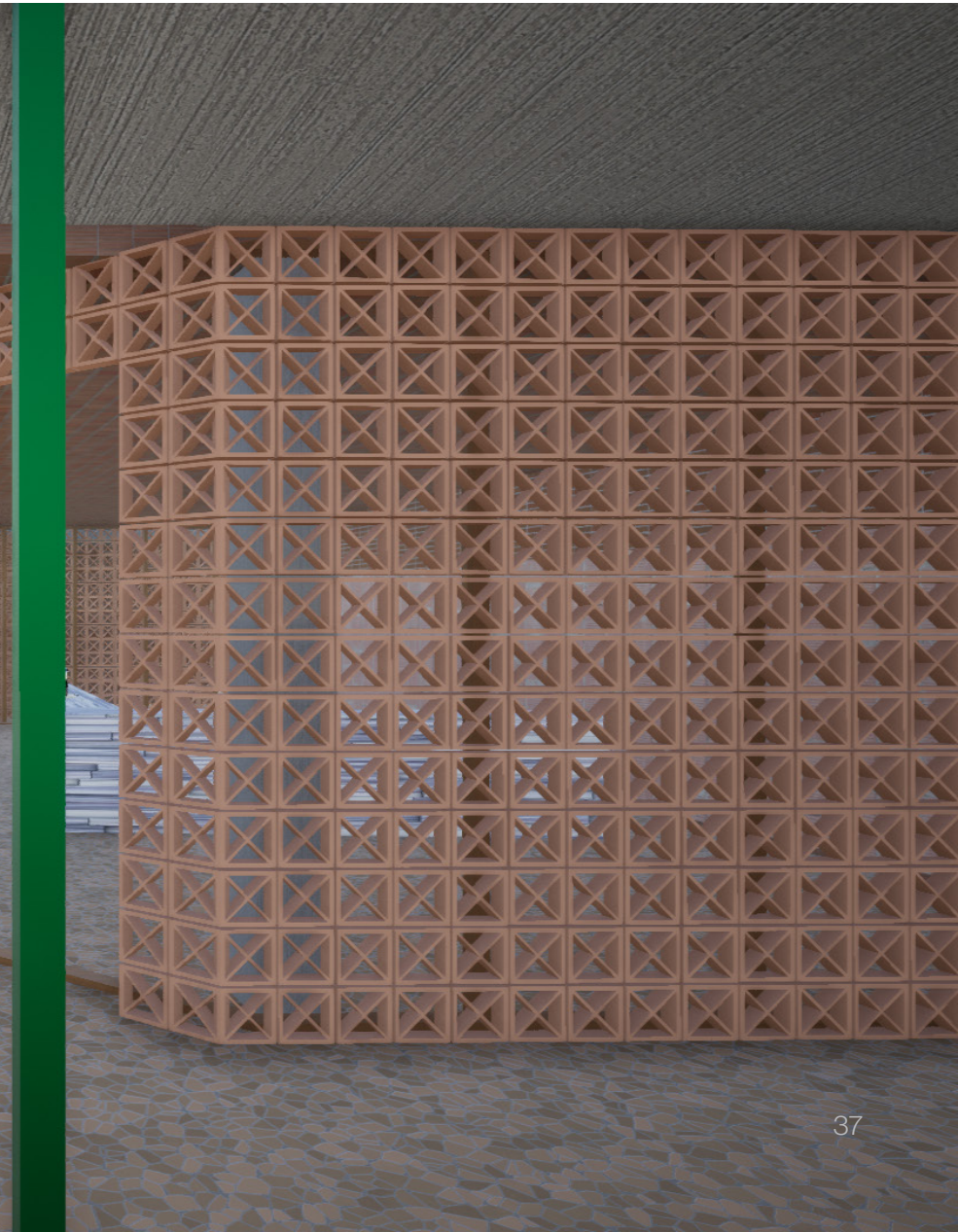
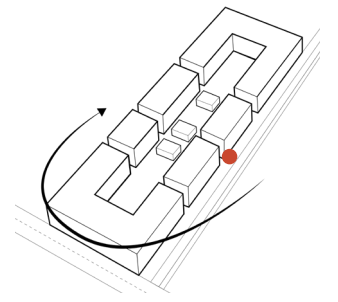
THE COOL PATIO



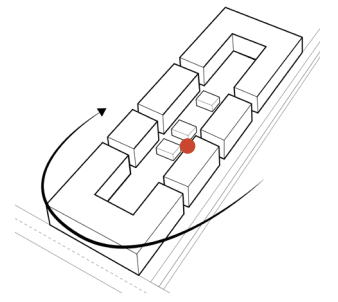
FOLLOWING SHADOW



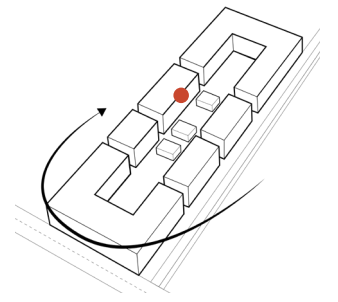
LUNCHTIME



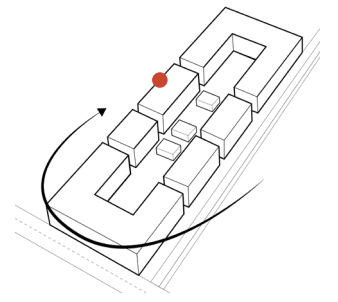
APPRECIATED THROUGHOUT THE DAY



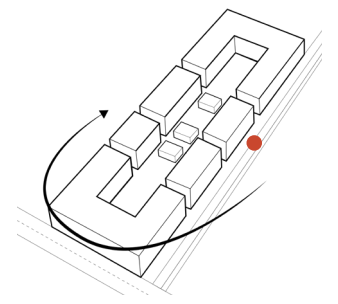
SHADING ONLY WHEN NEEDED



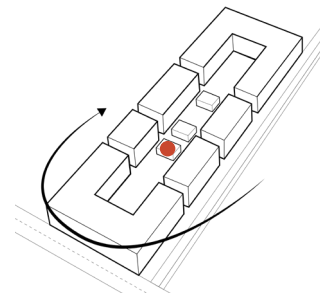
FLEXIBLE



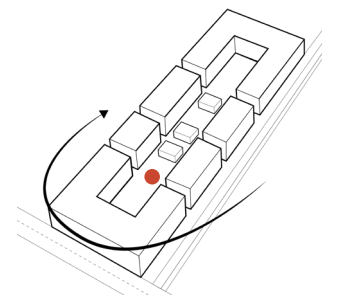
SPACE FOR SOCIALIZING



PAVILION FOR RESIDENTS



SHARED COOLING



An architectural rendering of a courtyard. In the center, a young girl in a blue dress walks across a grassy area. To her left, a small white toy car sits on the grass. Further left, a woman sits on a brick ledge, and another person is seated on a bench in the background. On the right, a man in a light blue shirt and dark tie sits on a yellow and blue folding chair, looking towards the left. The courtyard is surrounded by brick buildings with large windows and doors. Two large, leafy green trees provide shade. A paved path with a geometric pattern runs along the right side. The text "COMMON HEAT. COMMON RESILIENCE." is overlaid in the center in white, bold, sans-serif capital letters.

COMMON HEAT.
COMMON RESILIENCE.