Mapping Thermal Comfort Vulnerability of Portuguese Homes



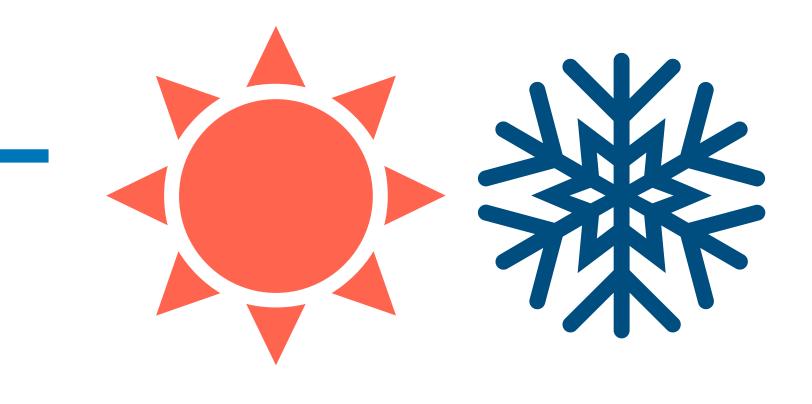
5 Climatic Zones **187** Building Typologies





with near 3.8 Million Dwelling

520 thousand Energy Performance Certificates



Buildings Vulnerability Index

Climate Region

(Heating degree days, outdoor temperature)

Building Typologies

(apartment /house, no . floors, construction year)

Building Characteristics

(walls, pavement, ceiling, glazing, ventilation, surface area)

Other Indicators for Benchmarking

(social tariff support, EU SILC Indicators, social housing)

Space Heating and Cooling Vulnerability



Energy Consumption (per end use and region)

Clin (levels

Climatization Equipment

(levels of ownership, type, efficiency)



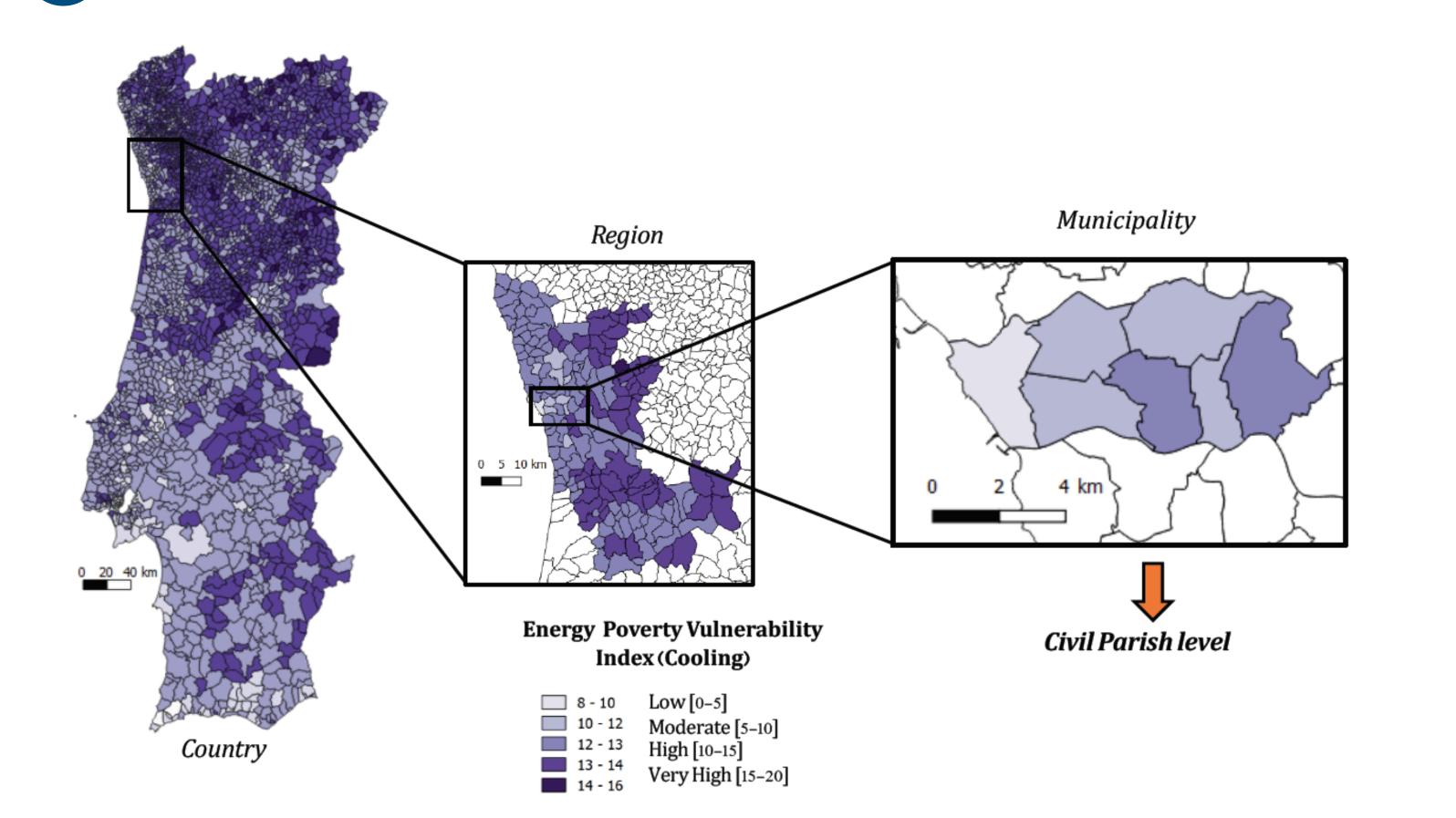
Socio Economic Details

(education level, average income, elderly and young people, conservation status of the building, tenure of the house, occupancy rate)

Index

Mapping Thermal Comfort for:

Energy Poverty Assessment

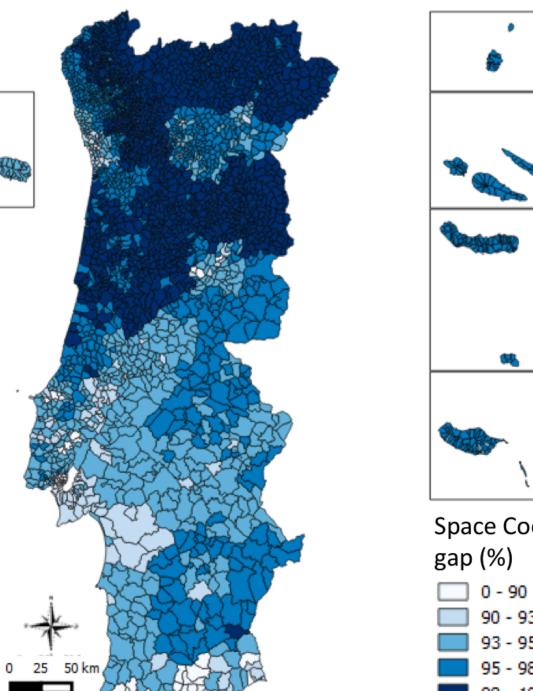


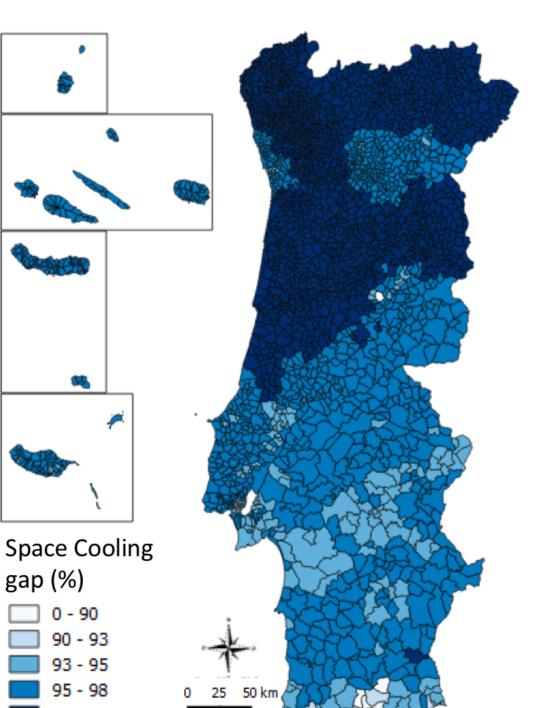
Climate Change Vulnerability

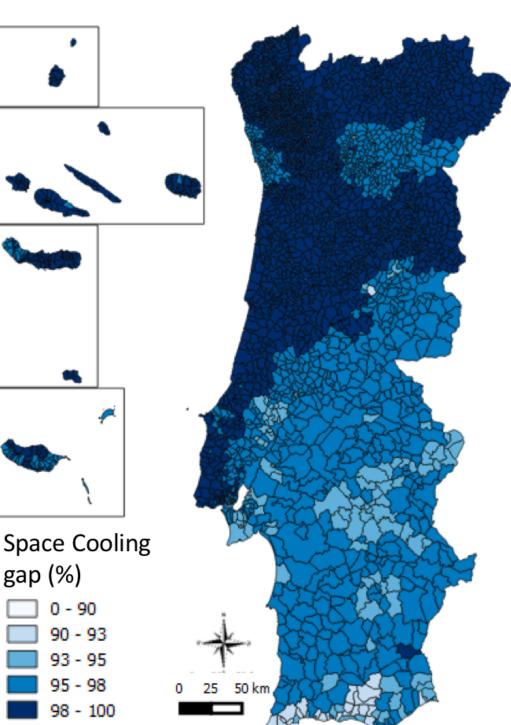
Current

Year 2050 RCP 4.5

Year 2050 RCP 8.5







Municipal and Intermunicipal Assessing Bui

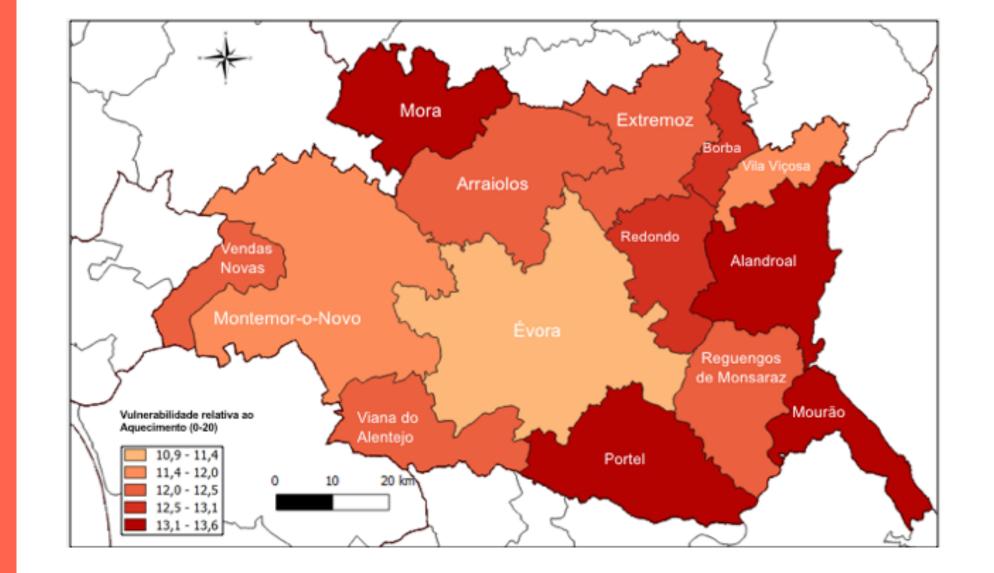
Space Cooling

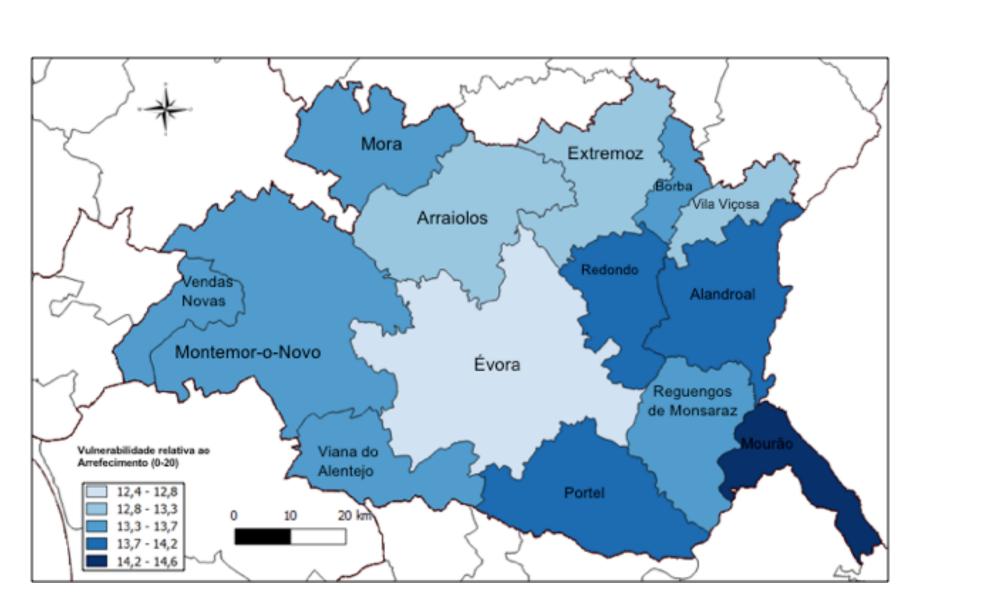
gap (%)

0 - 90

Assessing Building Retrofitting

Climate Change Adaptation Plans





Potential and Impact of Energy Efficiency Measures

Climate Mitigation Impact (bridging the gap)

