



THE FIFTH FAÇADE PROJECT

Methodology to define a strategy of Green Roofs
Policy for the city of Porto

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All cities have something
in common!

People and buildings



Why? If we need vegetation



SHANGAY 1990



SHANGAY 2010

Cities need
nature based solutions.

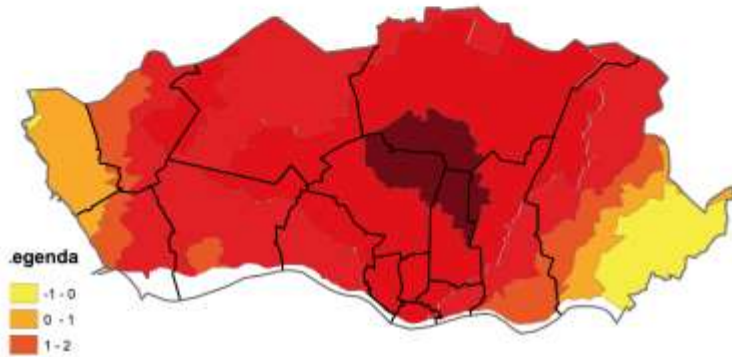
People need
their ecosystem services.

Porto – Portugal (Fifth Façade Project)



EXPLORATORY ANALYSIS

a Susceptibility to extreme heat episode



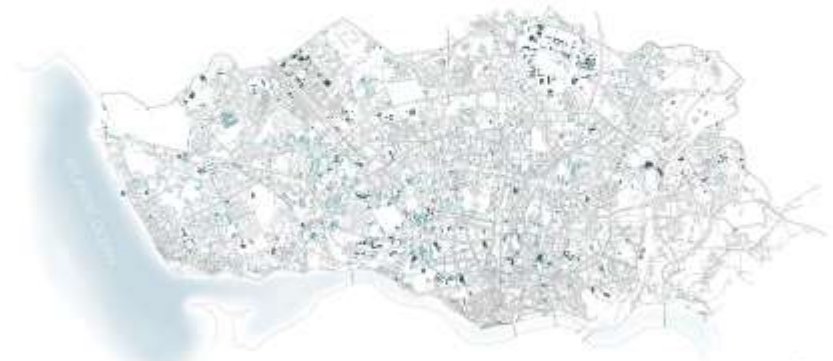
b Main green spaces



c Proximity map



d Potential GR in Porto

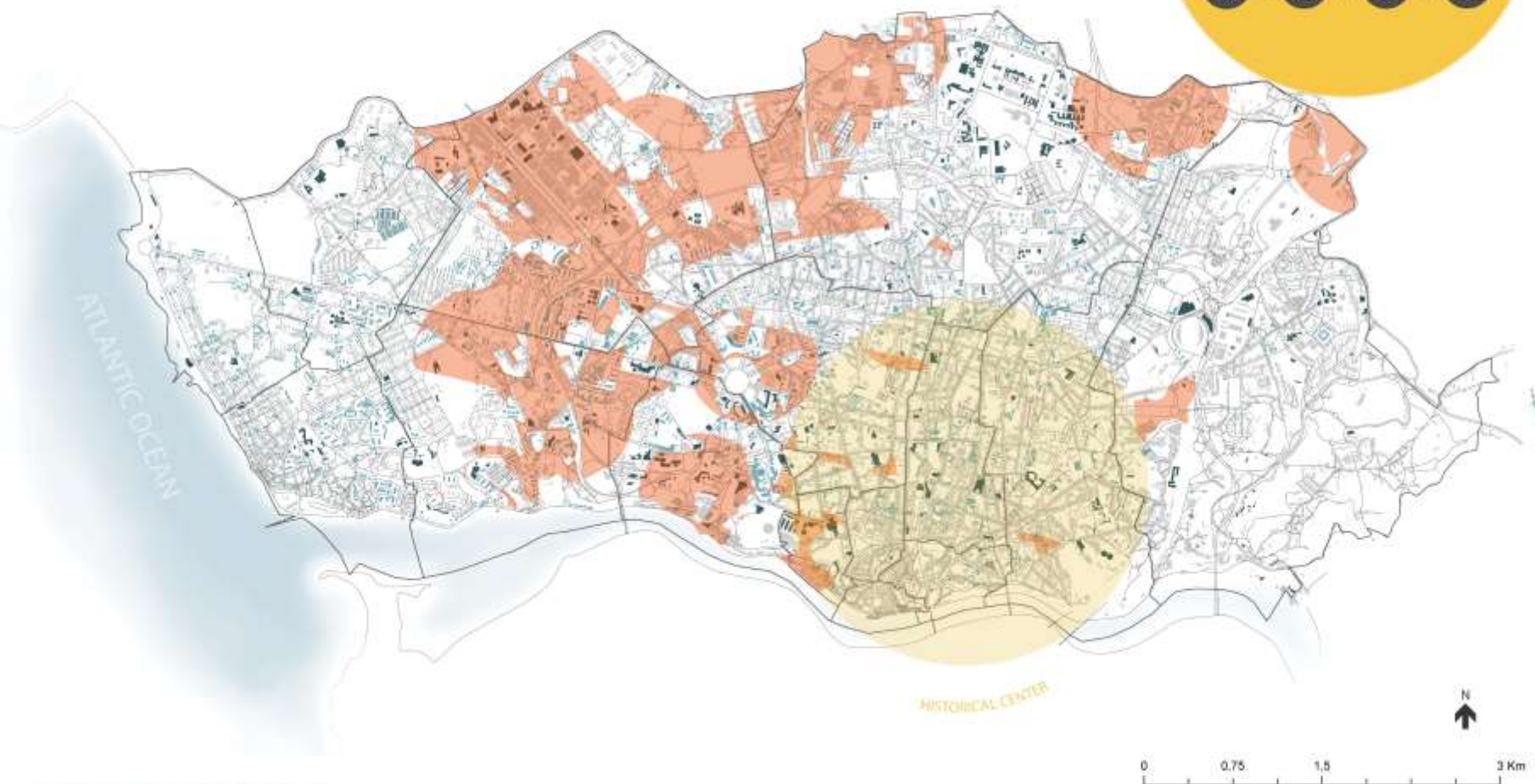


EXPLORATORY ANALYSES

Priority areas for intervention

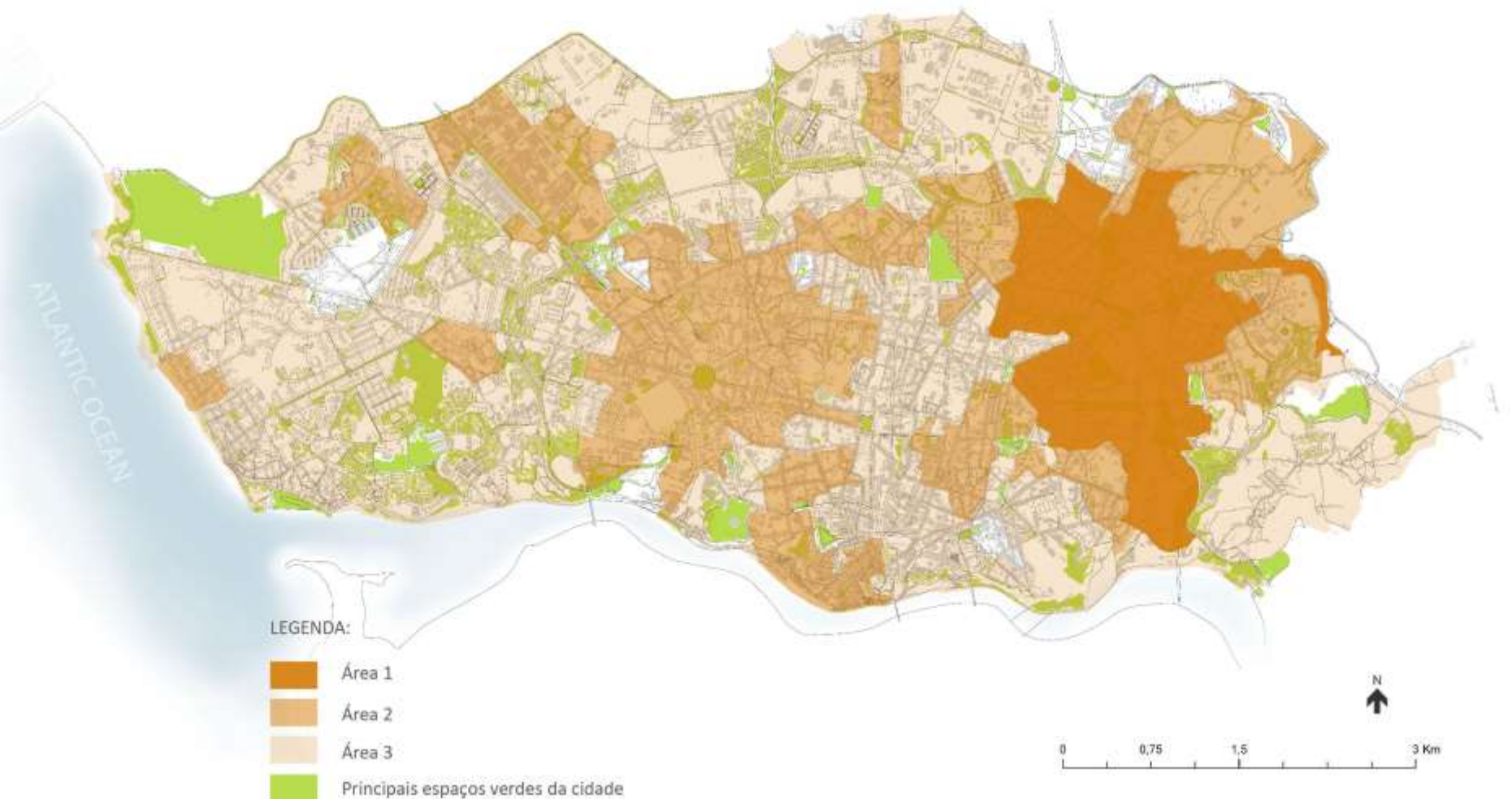
SYNTHESIS
MAP

a + b + c + d



PRIORITY AREAS FOR INTERVENTION

Source: Adapted from "The influence of socioeconomic, biogeophysical and built environment on old-age survival in a Southern European City"





Water harvesting?
Pollution reduction?
Thermal efficiency?
Biodiversity promotion?

ecosystem services?



Porto will
require
performance
from green
infrastructures

www.greenroofs.pt



PROJECTS

World Map



GREEN ROOF POLICIES

World Map

Green Covers:

- Inclined
- Extensive
- Intensive
- Solar energy

Green Walls:

- Vertical Gardens
- Climbers
- National
- International



WATER TREATMENT



SEAWEED HOUSE



MINHO TOURISM HOTEL



PARTICULAR HOUSE

Policies world map



Chose a city!



Information + link!



Cologne

Subsidy of 50% of eligible costs, up to a maximum of € 40 per m2 of designed roof, floor and façade surfaces. For each applicant and year a maximum of 20,000 euros will be funded (2018). Subsidy to homeowners of 10% of the eligible costs, up to € 5,000 for each housing unit by the Program 430 and/or Funds for green roofs up to an amount of € 100,000 (multi-family residences); and €50,000 (single-family residences) at very favourable interest rates.

Program: "GRÜN hoch 3 | DÄCHER | FASSADEN | HÖFE" and Programm 430



Source: Green Roof Cologne (https://www.zinco-usa.com/references/perennial_garden.php)

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BACK

Always ask for performance!



Thank you!

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