



Resilient city planning in Lisbon

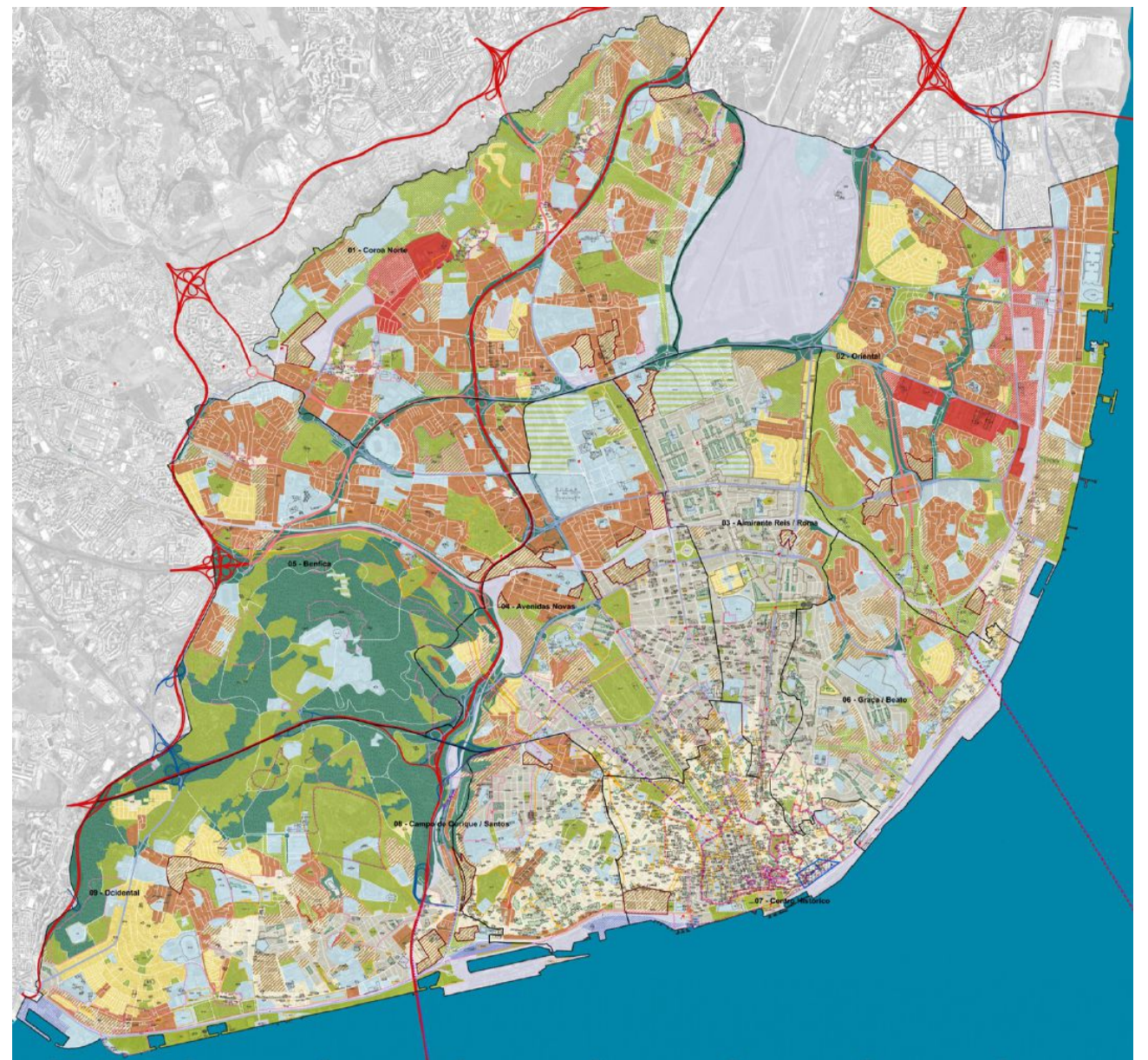
Joana Almeida

Resilient city planning in Lisbon

I. Flood risk

II. Seismic Risk

III. Rigid Plans Risk



Lisbon Municipal Land-Use Plan
2012

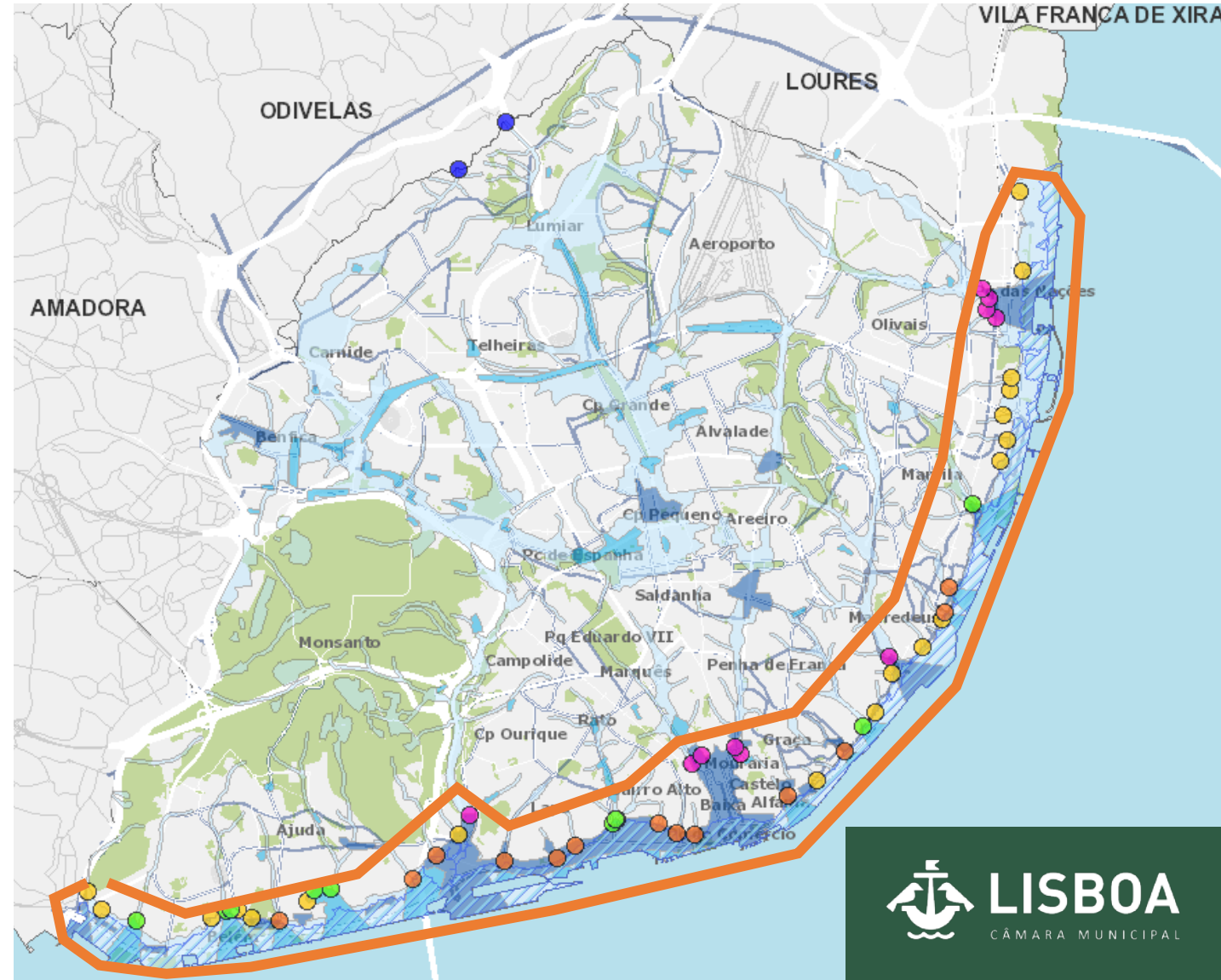
I. Flood risk

Peak flow converges with high tide generating chaos where valleys meet the estuary



December saw two extreme flooding events in Lisbon within a week

Peak flow converges with high tide to wreck havoc where valleys meet the estuary

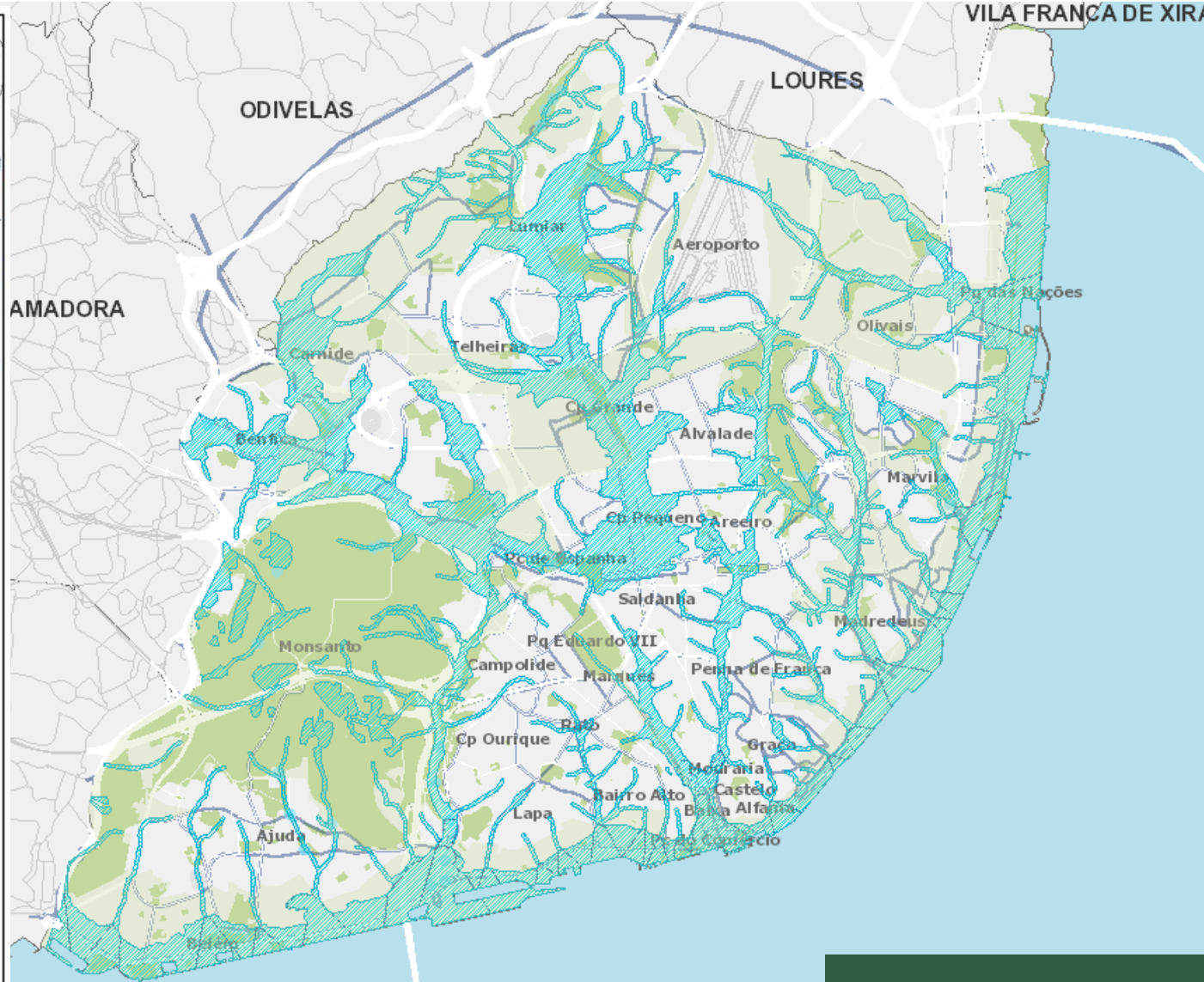
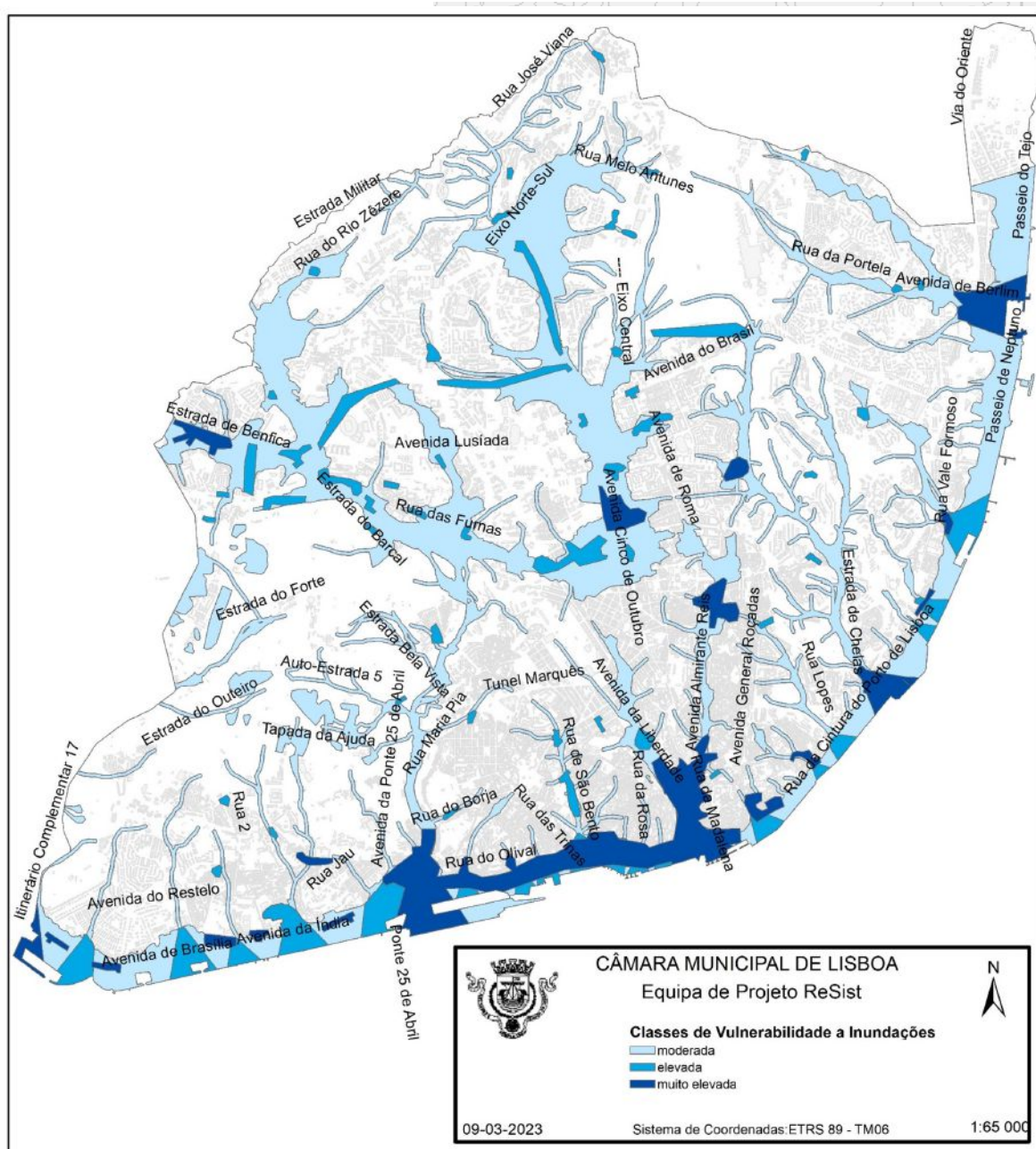


As such, we are working on diverting peak flow after heavy rainfall to a new system of collector tunnels



Lisbon's General Drainage Plan (under construction)

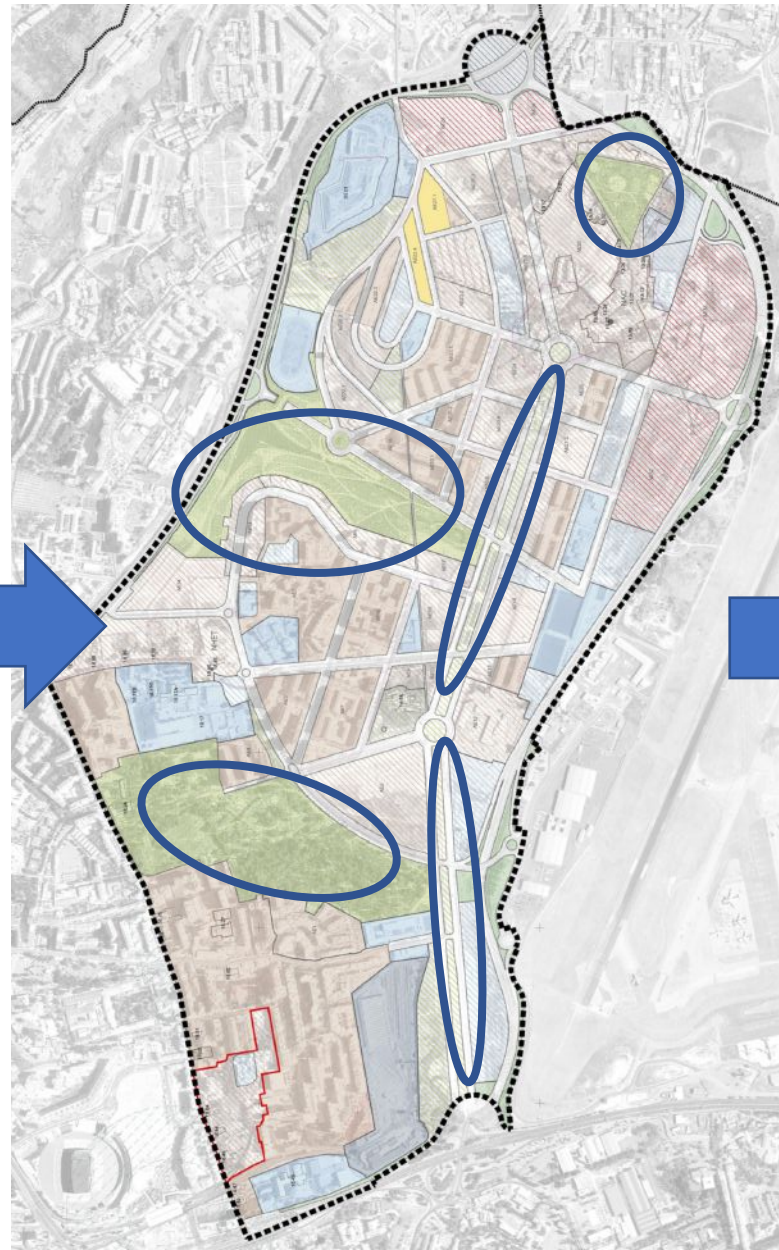
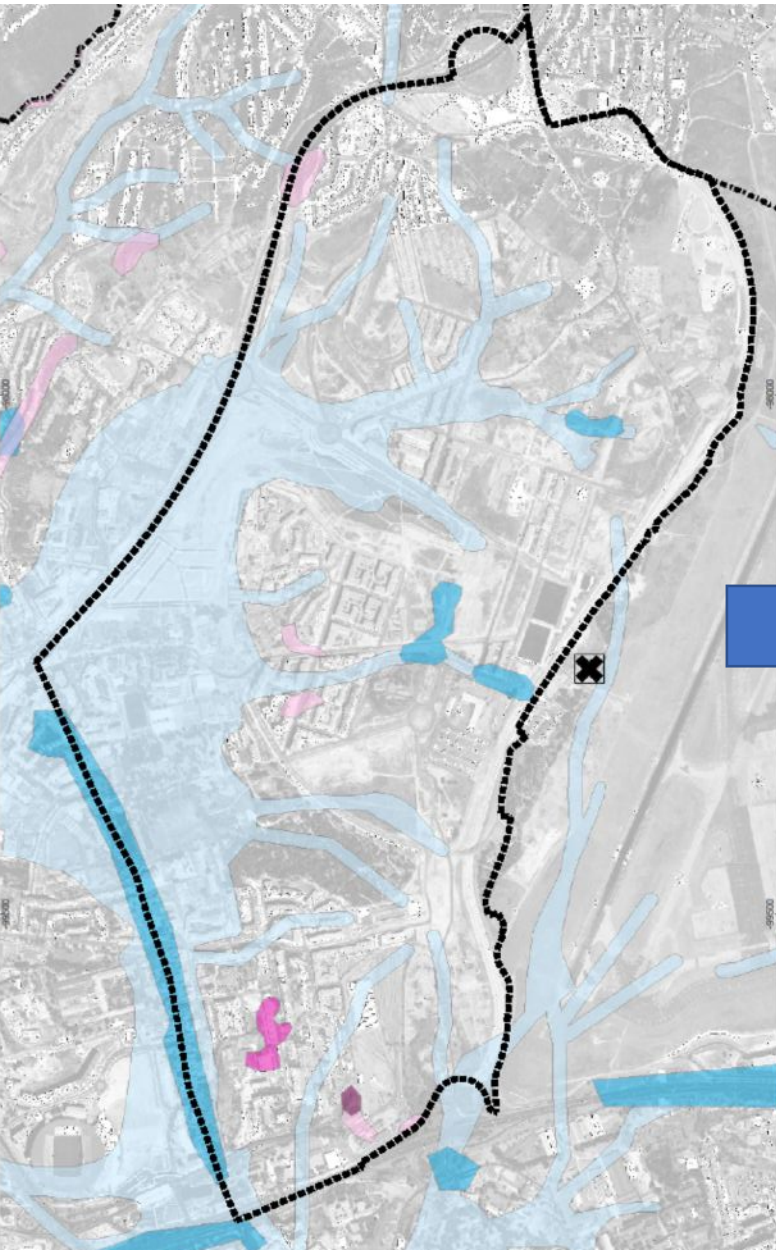
Risk map - flooding



vulnerability to flooding (left) and Municipal Ecological Structure (right)



Both are transposed into Zoning and Detail Plans



Alto do Lumiar
Zoning Plan
(2014 revision)



Parque Oeste
Image: Viver na Alta

II. Seismic Risk

Seismic Risk

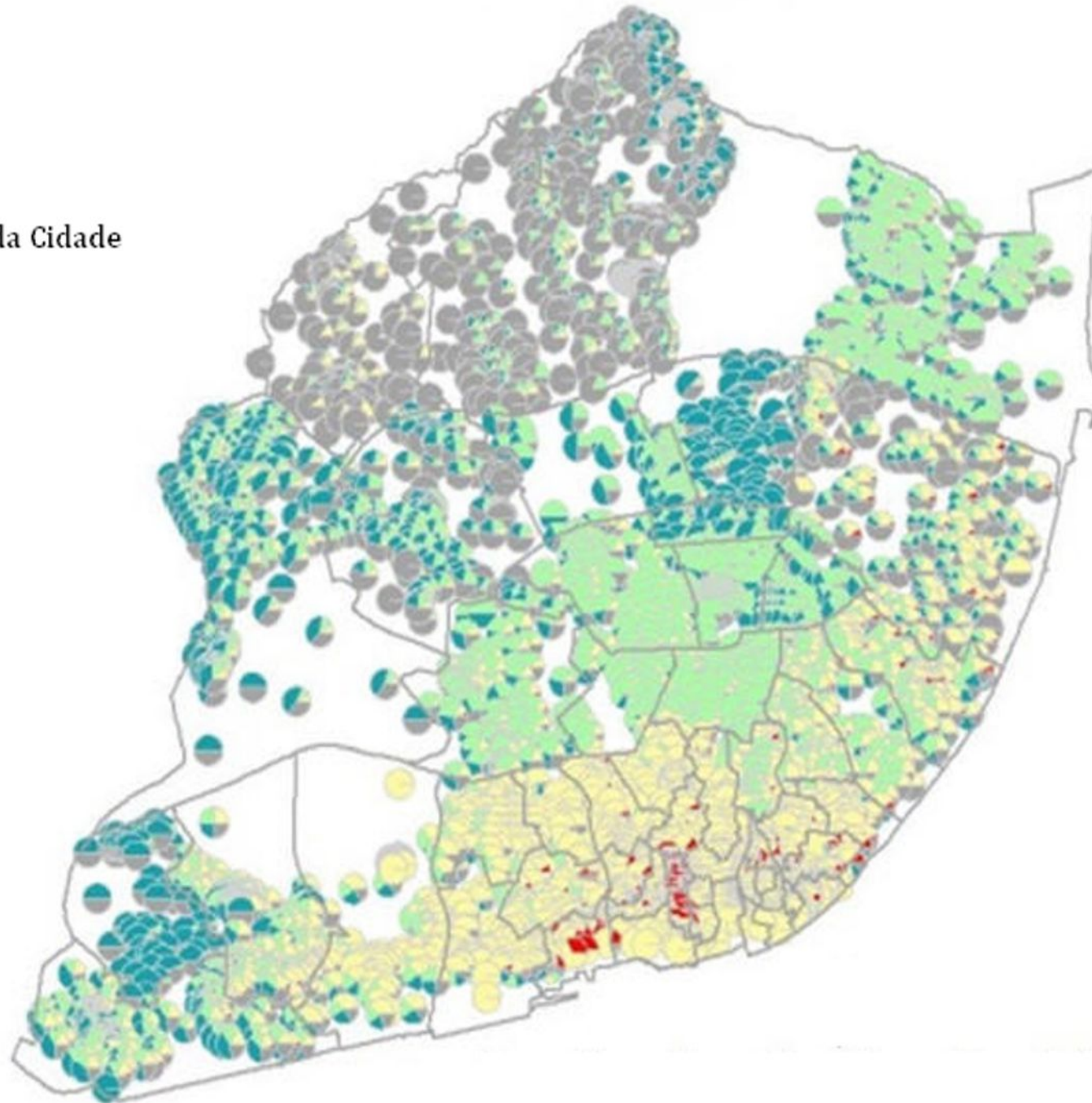
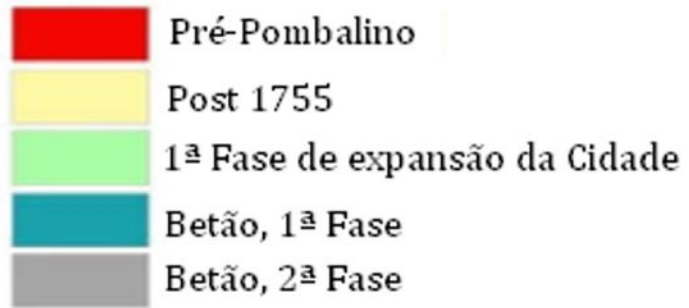


Earthquake effects in Turkey
(AFP)



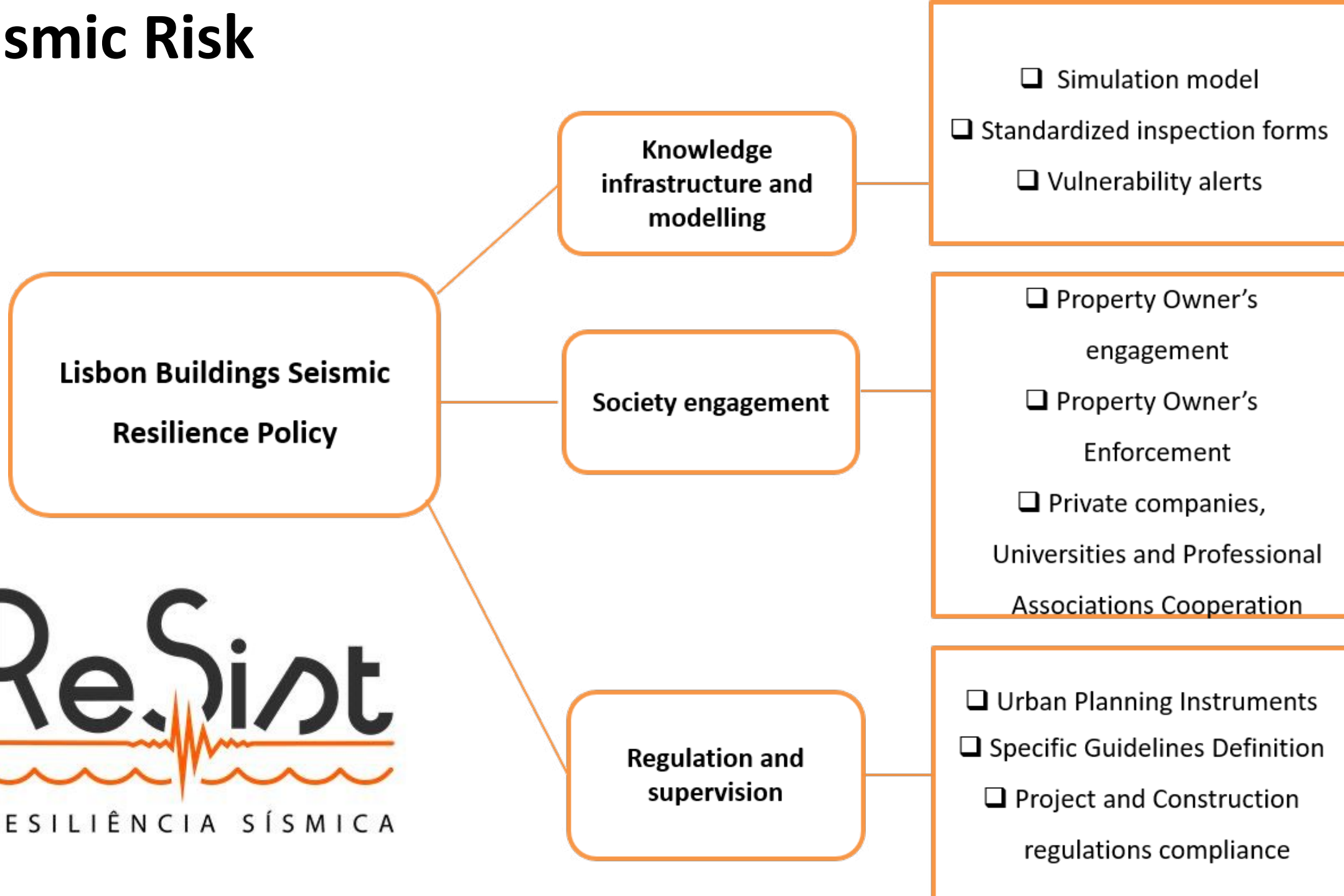
Lisbon's 1755 Great Earthquake in a
contemporary print
(Bibliothèque Nationale de France)

Seismic Risk



Average age/typology of the building stock | INE

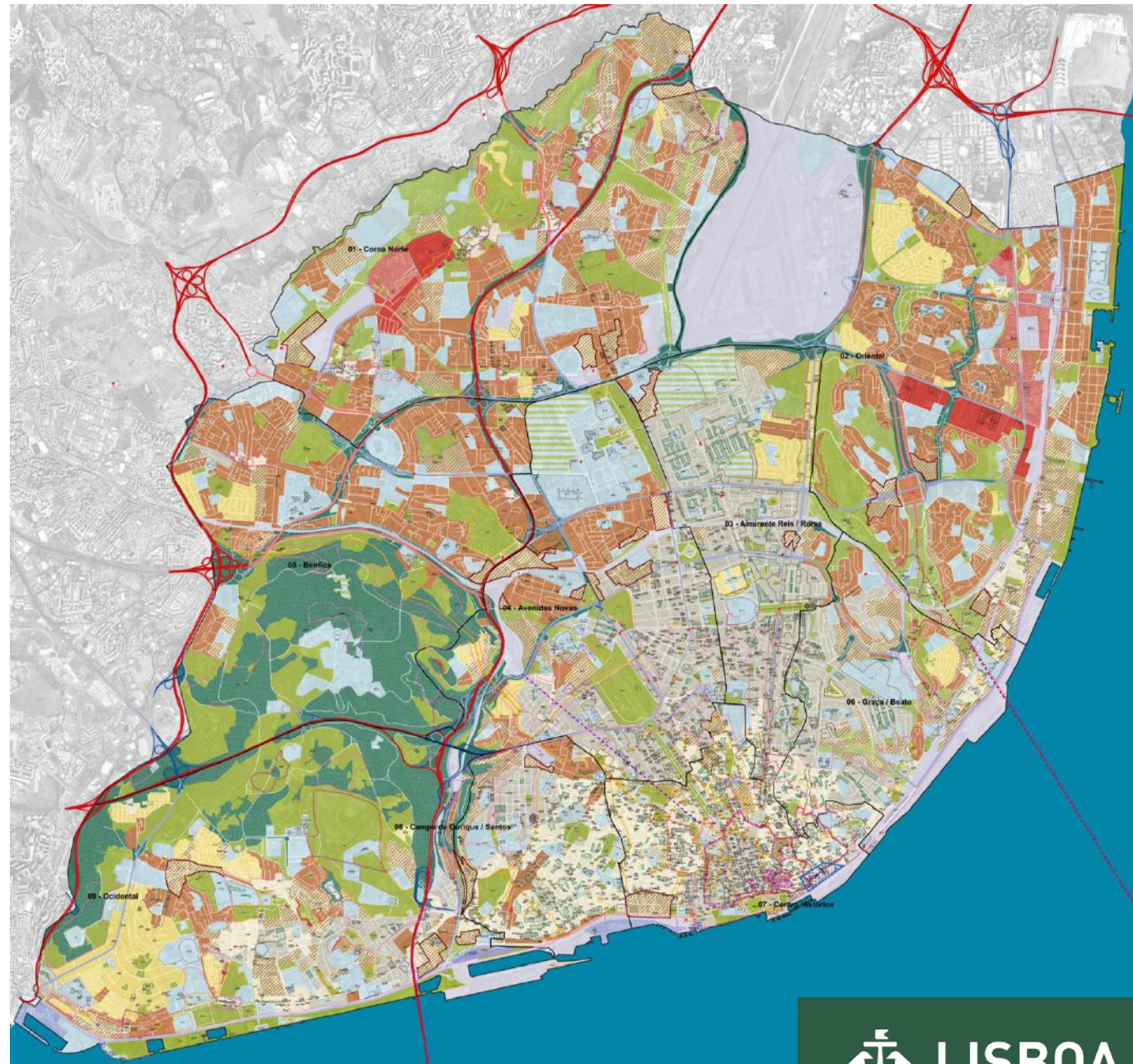
Seismic Risk



III. Rigid Plans Risk

Lisbon Municipal Land-Use Plan

2012



Approved Detailed Plans are often inoperative...

Parque Mayer
Detail Plan (2012)



Campolide Campus
Detail Plan (2014)



Calçada das Lajes
Detail Plan (2021)

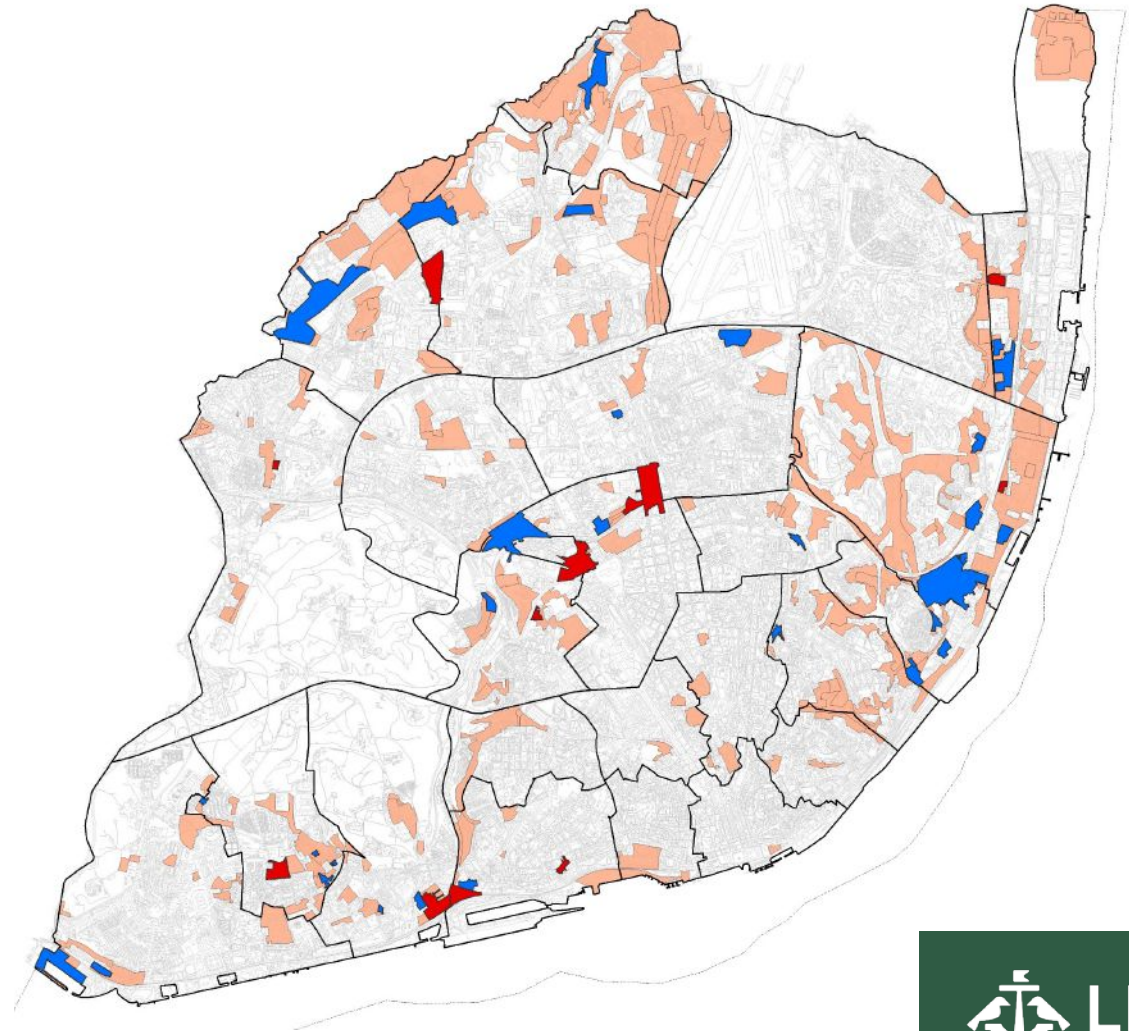


Development areas are crucial for the municipality's planning strategy

 "New development areas" – Lisbon
Municipal Plan
"Áreas a consolidar" – PDM de Lisboa
1.300 hectares

 Approved Intervention Units
– 55 hectares

 Intervention Units in Process
– 153 hectares



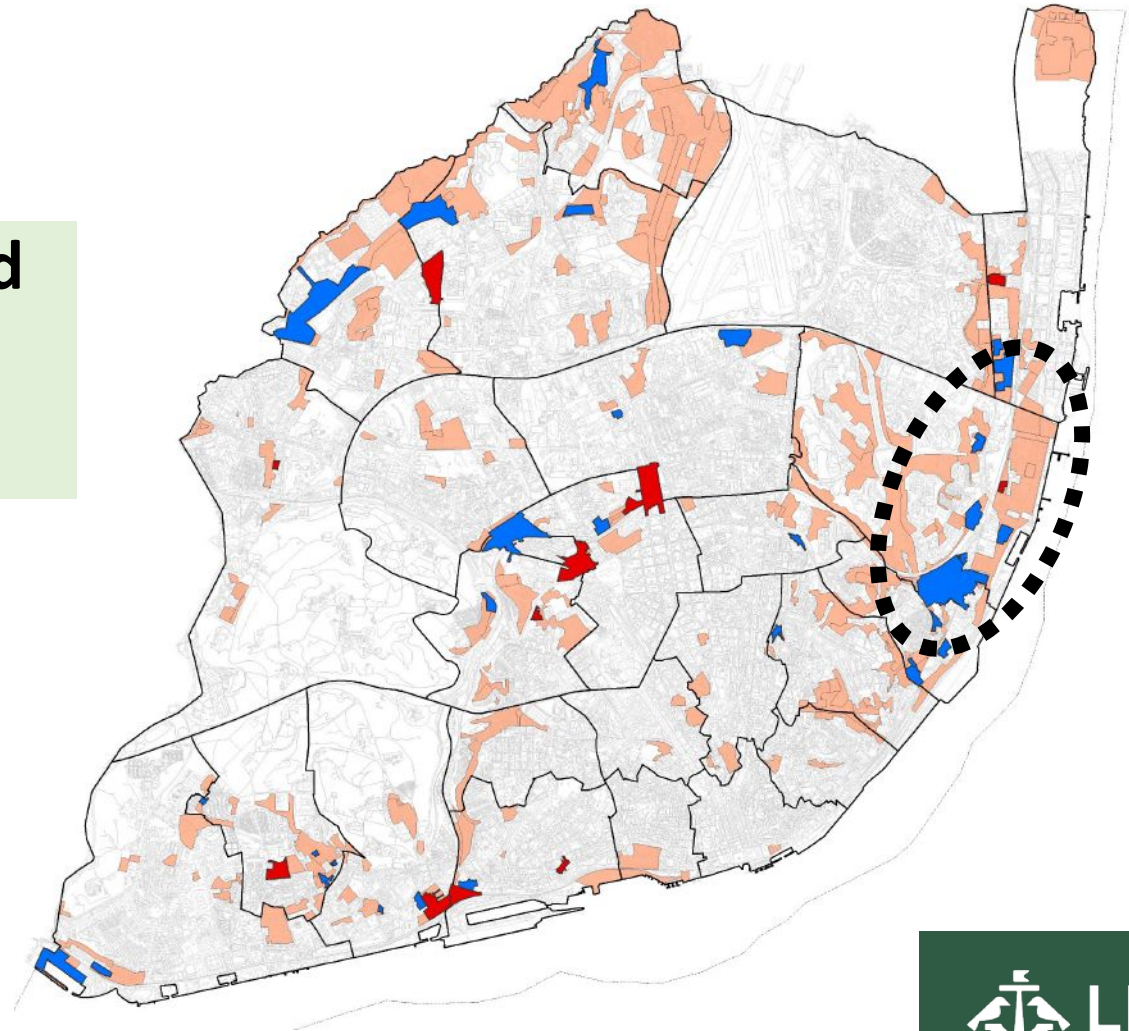
Development areas are crucial for the municipality's planning strategy

“Solutions are reached together and they're built on trust and commitment”

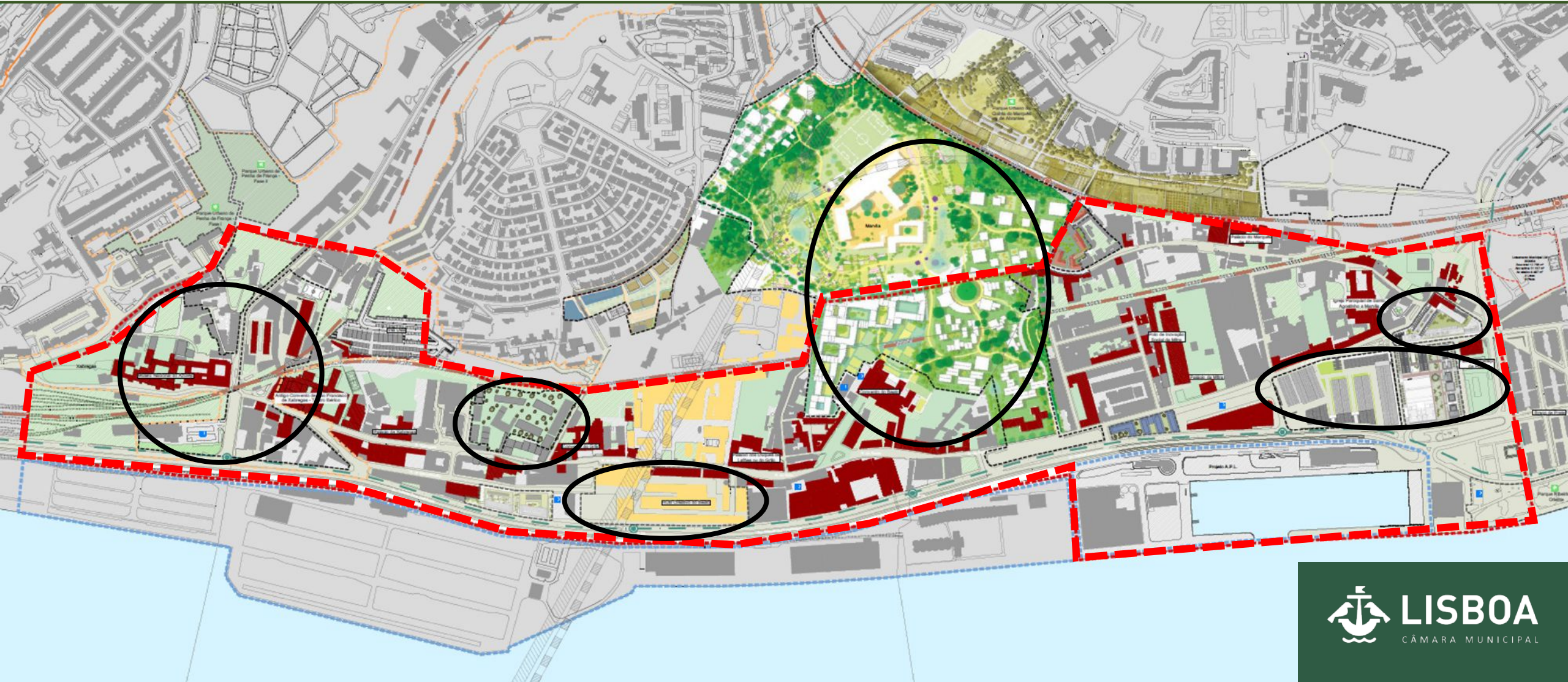
Partnerships:

There are opportunities for many different types of investors, such as:

Beato/Marvila Urban Renewal Area



A Structure Plan with Public Space Design can articulate the several intervention units





Thank you!

Joana Almeida

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